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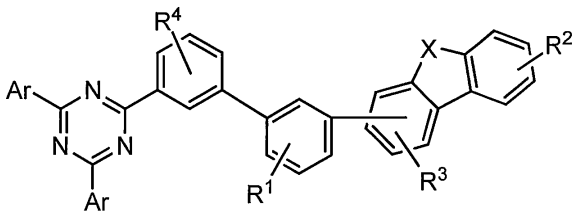
最終頁に続く

(54)【発明の名称】新規なトリアジン化合物、それを用いた有機電子素子及び植物栽培用照明

(57)【要約】
【課題】三重項のエネルギーレベルが高く耐熱性に優れ、有機電子素子材料として用いたときに、素子の高効率化、低電圧化、長寿命化を実現できるトリアジン化合物の提供。
【解決手段】下記一般式〔１〕で示される、トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物。なお、Ｘは酸素原子又は硫黄原子である。



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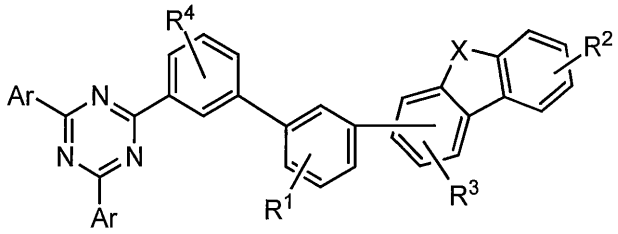
【選択図】なし

【特許請求の範囲】
【請求項１】
下記一般式〔１〕で示される、トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物。
【化２４６】



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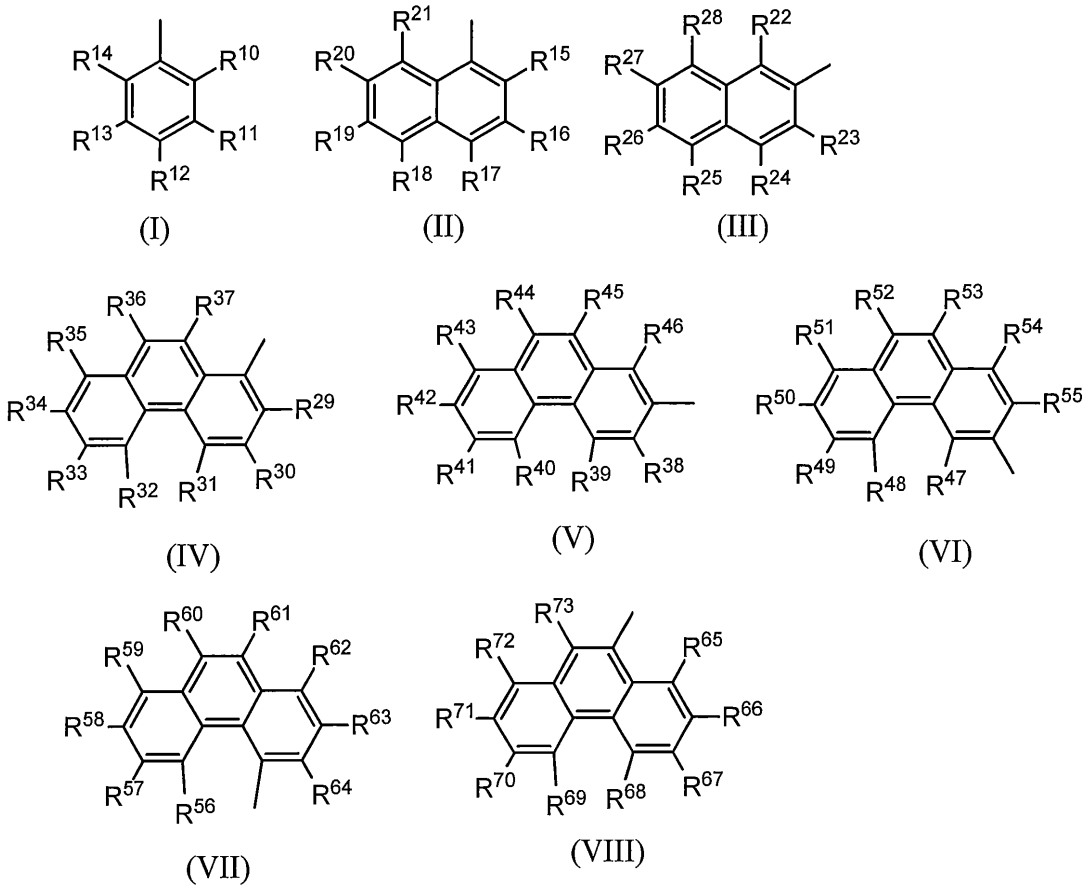
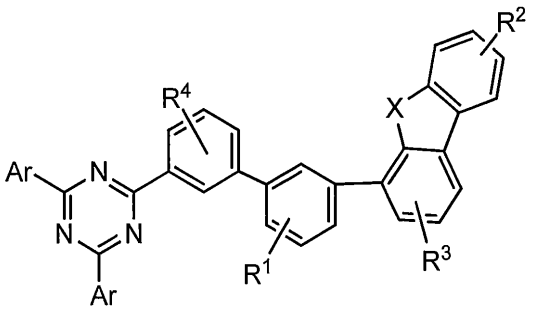
〔式中、Ｘは酸素原子又は硫黄原子を表し、Ｒ^{1}及びＲ^{3}、Ｒ^{4}は水素、フッ素及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表し、Ｒ^{2}は水素、フッ素、炭素数１～６の直鎖状若しくは分岐状のアルキル基、又は炭素数１～６の直鎖状若しくは分岐状のアルキル基を置換基として有することもあるフェニル基を表し、Ａｒは下記式（Ｉ）～（VIII）で示されるフェニル基、１－ナフチル基、２－ナフチル基、１－フェナントレニル基、２－フェナントレニル基、３－フェナントレニル基、４－フェナントレニル基及び９－フェナントレニル基からなる群より選ばれた基を表し、Ｒ^{10}～Ｒ^{73}は水素、フッ素、及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表す。〕
【化２４７】



【請求項２】
下記一般式〔２〕で示される、トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物。

【化２４８】



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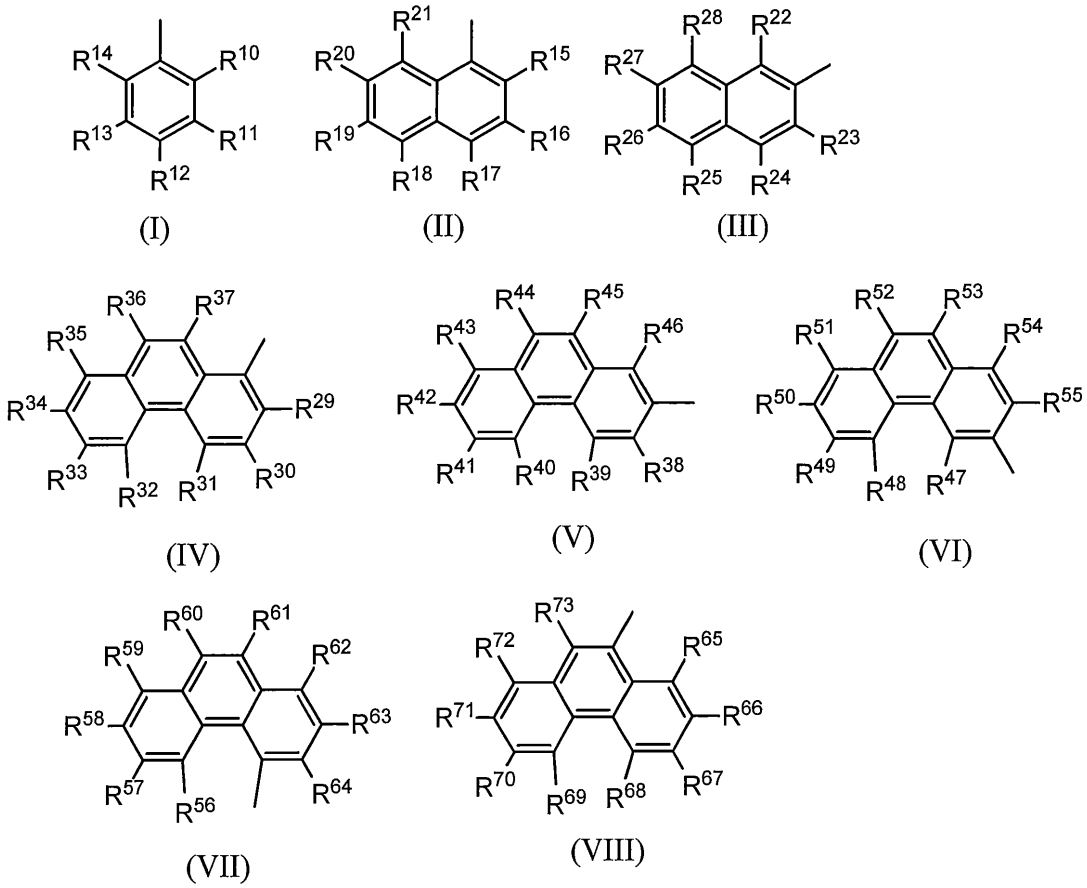
〔式中、Ｘは酸素原子又は硫黄原子を表し、Ｒ^{1}及びＲ^{3}、Ｒ^{4}は水素、フッ素及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表し、Ｒ^{2}は水素、フッ素、炭素数１～６の直鎖状若しくは分岐状のアルキル基、又は炭素数１～６の直鎖状若しくは分岐状のアルキル基を置換基として有することもあるフェニル基を表し、Ａｒは下記式（Ｉ）～（VIII）で示されるフェニル基、１－ナフチル基、２－ナフチル基、１－フェナントレニル基、２－フェナントレニル基、３－フェナントレニル基、４－フェナントレニル基及び９－フェナントレニル基からなる群より選ばれた基を表し、Ｒ^{10}～Ｒ^{73}は水素、フッ素、及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表す。〕

【化２４９】



【請求項３】
請求項１又は２記載のトリアジン化合物よりなるホスト材料。
【請求項４】
請求項１又は２記載のトリアジン化合物を用いた有機電子素子。
【請求項５】
請求項１又は２記載のトリアジン化合物を用いた有機エレクトロルミネッセンス素子。

【請求項６】
請求項５記載の有機エレクトロルミネッセンス素子を用いた植物栽培用照明。
【発明の詳細な説明】
【技術分野】
【０００１】
本発明は、耐熱性に優れ、素子の高効率化、低電圧化及び長寿命化を実現できる新規なトリアジン化合物、それを用いたホスト材料、有機電子素子、有機エレクトロルミネッセンス素子、該有機エレクトロルミネッセンス素子を用いた植物栽培用照明に関する。
【背景技術】
【０００２】
中小型表示装置に液晶ディスプレイ（ＬＣＤ）が用いられているが、基本的にバックライトからの受発光型であるため、光を取り出すためのディスプレイの構成が複雑である。
これに対し、有機エレクトロルミネッセンスディスプレイ（ＯＬＥＤ）は自発光型で、ＬＣＤのようにバックライトを必要とせず、構成が単純で、より薄くかつ軽量にすることが可能なため、持ち運び用の表示手段として適している。
更に、有機エレクトロルミネッセンスは、数年前から光源要素として注目されており、有機エレクトロルミネッセンス発光を用いた照明に関する研究も国内外を通して実用化に向けた取り組みがなされるようになった。また、最近では、プラスチック製の基板に有機エレクトロルミネッセンス材料を蒸着又は塗布することにより、湾曲した光源の作製ができるようになった。博物館などでもＯＬＥＤを用いた展示用照明の利用が進められているが、これは、有機エレクトロルミネッセンスによる発光が展示物に影響を与える紫外線を発しないからである。
【０００３】
ディスプレイとして有機エレクトロルミネッセンスを用いる場合、光の３原色（青、緑、赤）を取り出すのに適した材料が重要であり、例えば青色材料としては、４，４′－ビス［２，２－ビス（４－メチルフェニル）エテニル］－１，１′－ビフェニル（ＤＴＶＢｉ）が、緑色蛍光材料としては、トリス（８－ヒドロキシキノリノラト）アルミニウム（Alq_3）や、トリス［２－フェニルピリジナート－C^2，Ｎ］イリジウム（ＩＩＩ）が、赤色蛍光材料としては、４－（ジシアノメチレン）－２－ｔ－ブチル－６－（１，１，７，７－テトラメチルジュロリジル－９－エテニル）－４Ｈ－ピラン（ＤＣＪＴＢ）などのピラン化合物が、赤色リン光材料としては、２，３，７，８，１２，１３，１７，１８－オクタエチル－２１Ｈ，２３Ｈ－ポルフィリン白金錯体〔Ｐｔ（ＯＥＰ）〕などが知られている。
【０００４】
最近注目されているものとして植物栽培用途の光源がある。植物栽培は露地栽培が一般的であるが、関係省庁からの補助もあって東日本大震災の津波による塩害や放射能汚染を回避する手段として屋内での栽培が推進されている。このような状況下、異業種からの参入により屋内で植物を生産する植物工場の建設が進められている。植物工場には太陽光を利用するものと人工光を利用するものがあるが、人工光の光源としては、蛍光灯、ＨＩＤランプ、ＬＥＤランプが一般的である。
しかし、蛍光灯は国の施策により淘汰される方向にあり、またＨＩＤランプと共に紫外から赤外までの幅広い領域の光を放出するため、植物栽培に対しては効率がよくない。また、ＬＥＤランプは、栽培に必要な単一光を取り出すことはできるが、点光源のため栽培領域全面を照らすには多くの光源を配置する必要があり、配線や駆動装置が複雑化する。そのため機器が必要以上に大きくなり据え付け等に制約を生じる。
これに対し、有機エレクトロルミネッセンス光源は面状発光体であるから、これを単独で又は複数連結させて必要な面積の照明を容易に構成することができ、更に大きな面積の照明についてもＲｏｌｌ　ｔｏ　Ｒｏｌｌ方式による印刷技術を応用すれば作製することが可能である（非特許文献１）。
【０００５】

植物は光合成により生育するが、植物の持つクロロフィル類が吸収できる波長領域は、４３０ｎｍ～４６０ｎｍの青色と６４５ｎｍ～６６５ｎｍの赤色であるから、植物の栽培には青色及び赤色の光が必要である。植物は６８０ｎｍ以上の近赤外の光も吸収するが、レットドロップという現象が発生し、光合成の効率が急激に低下する。これを抑えるため６５０ｎｍ程度の光を同時に照射すると、それぞれ単独で照射した場合に比べて、植物に含まれるクロロフィルの光の吸収効果が非常に高くなる。これは一般にエマーソン効果と呼ばれている（非特許文献２）。したがって、有機エレクトロルミネッセンスにおいても６５０ｎｍ付近で発光する赤色発光素子を開発する必要がある。

【０００６】

６００ｎｍ以上で発光する赤色又は近赤外領域での有機エレクトロルミネッセンス素子の例としては、６８０ｎｍに発光極大を示す、ビス（２，３－ジフェニルキノキサリン）イリジウム（アセチルアセトナト）錯体〔$(QH)_2Ir(acac)$〕を用いた素子で、６００ｃｄ／ｍ^{2}における外部量子効率が１０．２％のものがある（非特許文献３）。

また、７６５ｎｍに発光極大を示す、５，１０，１５，２０－テトラフェニル－２１Ｈ，２３Ｈ－テトラベンゾポルフィリン白金錯体〔Ｐｔ（ｔｐｂｐ）〕を用いた素子で、０．１ｍＡ／ｃｍ^{2}における外部量子効率が６．３％のものがある（非特許文献４）。

また、７０８ｎｍに発光極大を示す、２，３－ジシアノピラジノフェナンソレン化合物（ＴＰＡ－ＤＣＰＰ）を用いた素子で、ドープ量を２０％に設定した場合の外部量子効率が９．８％のものがある（非特許文献５）。

また、６７０ｎｍに発光極大を示す、２，３－ビス〔４′－（ジフェニルアミノ）－（１，１′－ビフェニル）－４－イル〕フマロニトリル（ＴＰＡＴＣＮ）を用いた素子で、外部量子効率が２．５８％のものがある（非特許文献６）。

しかし、上記化合物は、いずれも６００ｎｍ以上に発光極大を示すものの、効率、特性及び効果の点で実用には不十分であり、更なる化合物の開発及び素子適用に向けた最適化の検討が必要である。

【先行技術文献】

【非特許文献】

【０００７】

【非特許文献１】コニカミノルタホールディングス株式会社ホームページ、ｈｔｔｐ：／／ｗｗｗ．ｋｏｎｉｃａｍｉｎｏｌｔａ．ｊｐ／ａｂｏｕｔ／ｒｅｌｅａｓｅ／２０１０／０４１２＿０１＿０１．ｈｔｍｌ

【非特許文献２】一般社団法人日本植物生理学会ホームページ、ｈｔｔｐ：／／ｊｓｐｐ．ｏｒｇ／

【非特許文献３】Ｈ．Ｆｕｊｉｔａ，Ｈ．Ｓａｋｕｒａｉ，Ｋ．Ｔａｎｉ，Ｋ．Ｗａｋｉｓａｋａ ａｎｄ Ｔ．Ｈｉｒａｏ，ＩＥＩＣＥ Ｅｌｅｃｔｒｏｎｉｃｓ Ｅｘｐｒｅｓｓ，２００５，２（８），２６０－２６６．

【非特許文献４】Ｃ．Ｂｏｒｅｋ，ｅｔ ａｌ．，Ａｎｇｅｗ．Ｃｈｅｍ．２００７，１１９，１１２７－１１３０

【非特許文献５】Ｓ．Ｗａｎｇ ｅｔ ａｌ．，Ａｎｇｅｗ．Ｃｈｅｍ．Ｉｎｔ．Ｅｄ．２０１５，５４，１３０６８－１３０７２

【非特許文献６】Ｘ．Ｈａｎ ｅｔ ａｌ．，Ａｄｖ．Ｆｕｎｃｔ．Ｍａｔｅｒ．ＤＯＩ：１０．１００２／ａｄｆｍ．２０１５０３３４４．

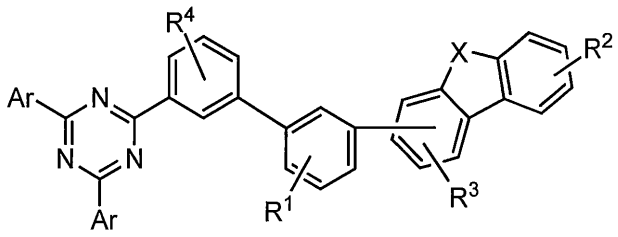
【発明の概要】

【発明が解決しようとする課題】

【０００８】

本発明は、三重項のエネルギーレベルが高く耐熱性に優れ、有機電子素子材料として用いたときに、素子の高効率化、低電圧化、長寿命化を実現できる新規なトリアジン化合物の提供を目的とする。また、該化合物からなるホスト材料、及び、該化合物を用いた有機電子素子、特に有機エレクトロルミネッセンス（ＥＬ）素子とこれを用いた植物栽培用照明の提供を目的とする。

【課題を解決するための手段】
【０００９】
上記課題は、次の１）～６）の発明によって解決される。
１）　下記一般式〔１〕で示される、トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物。
【化１】



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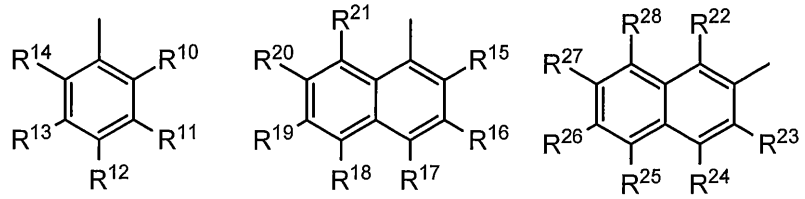
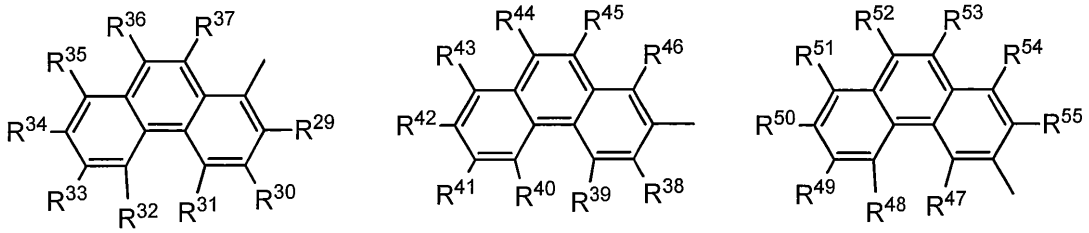
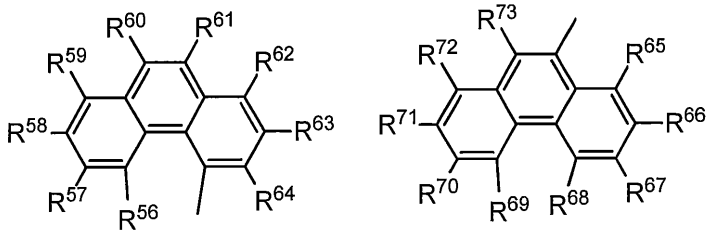
〔式中、Ｘは酸素原子又は硫黄原子を表し、Ｒ^{1}及びＲ^{3}、Ｒ^{4}は水素、フッ素及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表し、Ｒ^{2}は水素、フッ素、炭素数１～６の直鎖状若しくは分岐状のアルキル基、又は炭素数１～６の直鎖状若しくは分岐状のアルキル基を置換基として有することもあるフェニル基を表し、Ａｒは下記式（Ｉ）～（VIII）で示されるフェニル基、１－ナフチル基、２－ナフチル基、１－フェナントレニル基、２－フェナントレニル基、３－フェナントレニル基、４－フェナントレニル基及び９－フェナントレニル基からなる群より選ばれた基を表し、Ｒ^{10}～Ｒ^{73}は水素、フッ素、及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表す。〕
【化２】



(I)　(II)　(III)



(IV)　(V)　(VI)

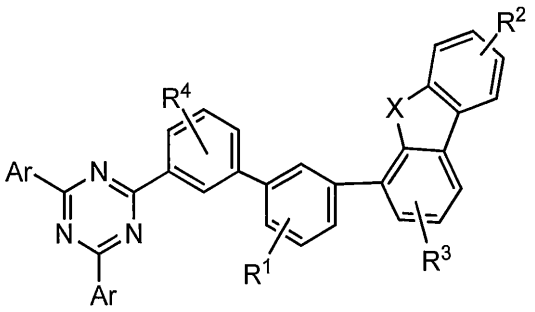


(VII)

(VIII)

２）　下記一般式〔２〕で示される、トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物。

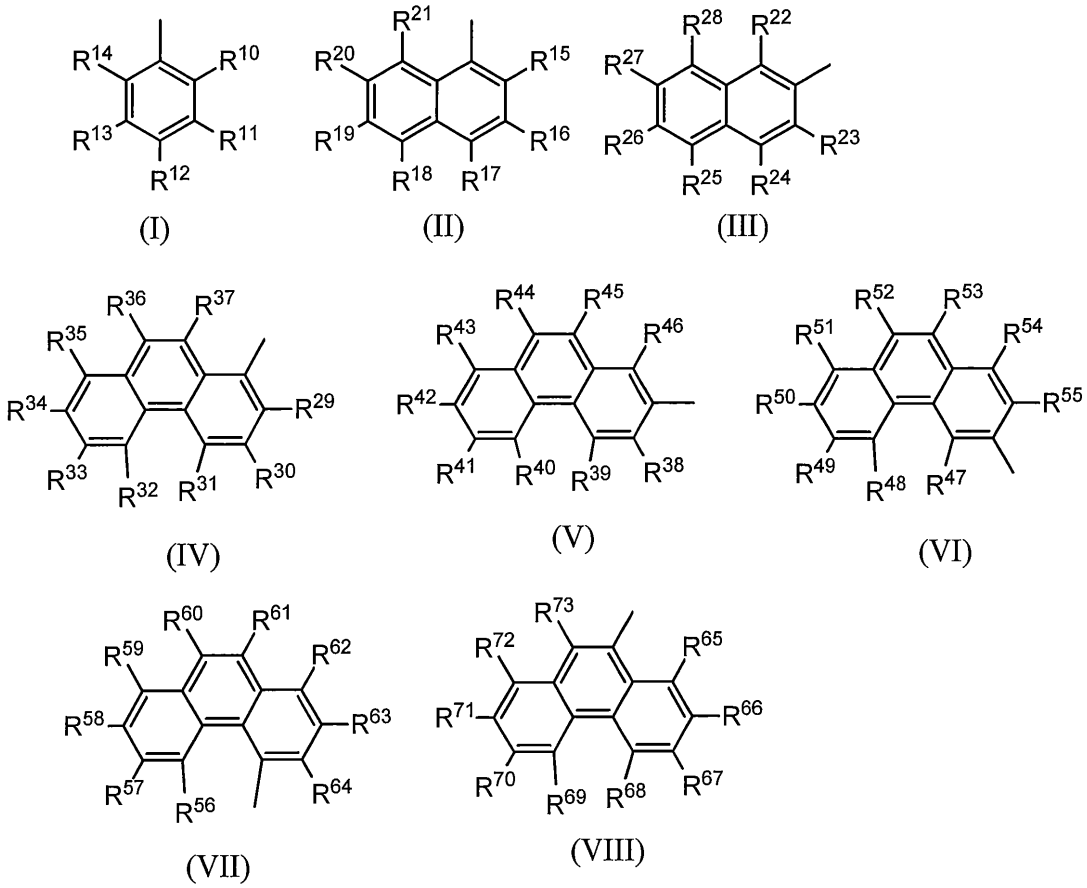
【化３】



---------- [2]

〔式中、Ｘは酸素原子又は硫黄原子を表し、Ｒ^{1}及びＲ^{3}、Ｒ^{4}は水素、フッ素及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表し、Ｒ^{2}は水素、フッ素、炭素数１～６の直鎖状若しくは分岐状のアルキル基、又は炭素数１～６の直鎖状若しくは分岐状のアルキル基を置換基として有することもあるフェニル基を表し、Ａｒは下記式（Ｉ）～（VIII）で示されるフェニル基、１－ナフチル基、２－ナフチル基、１－フェナントレニル基、２－フェナントレニル基、３－フェナントレニル基、４－フェナントレニル基及び９－フェナントレニル基からなる群より選ばれた基を表し、Ｒ^{10}～Ｒ^{73}は水素、フッ素、及び炭素数１～６の直鎖状若しくは分岐状のアルキル基よりなる群からそれぞれ独立して選ばれた基を表す。〕

【化４】



３）　１）又は２）記載のトリアジン化合物よりなるホスト材料。

４）　１）又は２）記載のトリアジン化合物を用いた有機電子素子。

５）　１）又は２）記載のトリアジン化合物を用いた有機エレクトロルミネッセンス素子。

６）　５）記載の有機エレクトロルミネッセンス素子を用いた植物栽培用照明。

【発明の効果】

【００１０】
本発明によれば、三重項のエネルギーレベルが高く耐熱性に優れ、有機電子素子材料として用いたときに、素子の高効率化、低電圧化、長寿命化を実現できる新規なトリアジン化合物を提供できる。また、該化合物からなるホスト材料、及び、該化合物を用いた有機電子素子、特に有機ＥＬ素子とこれを用いた植物栽培用照明を提供できる。
更に、本発明の有機ＥＬ素子は、立ち上がり電圧２．４Ｖ程度の非常に低い電圧で発光が開始され、最大外部量子効率１８％前後という、赤色の素子としては極めて高い光取り出し効果を奏する。また、発光強度の１０％減衰時間が約１５００時間という長寿命化も達成でき、十分実用可能である。したがって、これを植物栽培用照明に応用すれば、植物の屋内栽培に適した赤色照明の製造が可能となる。
このように、本発明のトリアジン化合物は、工業的に極めて有用である。
【図面の簡単な説明】
【００１１】
【図１】実施例１の化合物の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を示す図。
【図２】実施例１の化合物の質量分析（Ｍａｓｓ）の結果を示す図。
【図３】実施例１の化合物の紫外－可視（ＵＶ－ｖｉｓ）吸収スペクトル、及びフォトルミネッセンス（ＰＬ）スペクトルを示す図。
【図４】実施例１の化合物のイオン化ポテンシャルの測定結果を示す図。
【図５】α－ＮＰＤ及びＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺの紫外－可視（ＵＶ－ｖｉｓ）吸収スペクトルを示す図。
【図６】α－ＮＰＤ及びＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺのフォトルミネッセンス（ＰＬ）スペクトルを示す図。
【図７】実施例２の化合物の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を示す図。
【図８】実施例３～６の素子のエネルギーダイヤグラムを示す図。
【図９】実施例３～５の素子の電圧－電流密度特性を示す図。
【図１０】実施例３～５の素子の電圧－輝度特性を示す図。
【図１１】実施例３～５の素子の電流密度－外部量子効率特性を示す図。
【図１２】実施例３～５の輝度－外部量子効率特性を示す図。
【図１３】実施例３～５のＥＬスペクトルを示す図。
【図１４】実施例３～５の素子寿命の測定結果を示す図。
【図１５】実施例７～９の素子のエネルギーダイヤグラムを示す図。
【図１６】実施例６～７の電圧－電流密度特性を示す図。
【図１７】実施例６～７の電圧－輝度特性を示す図。
【図１８】実施例６～７の電流密度－外部量子効率特性を示す図。
【図１９】実施例６～７の輝度－外部量子効率特性を示す図。
【図２０】実施例６～７のＥＬスペクトルを示す図。
【図２１】実施例６～７の素子寿命の測定結果を示す図。
【図２２】実施例８～９の電圧－電流密度特性を示す図。
【図２３】実施例８～９の電圧－輝度特性を示す図。
【図２４】実施例８～９の電流密度－外部量子効率特性を示す図。
【図２５】実施例８～９の輝度－外部量子効率特性を示す図。
【図２６】実施例８～９のＥＬスペクトルを示す図。
【図２７】実施例８～９の素子寿命の測定結果を示す図。
【図２８】実施例１０の素子のエネルギーダイヤグラムを示す図。
【図２９】実施例１０の電圧－電流密度特性を示す図。
【図３０】実施例１０の電圧－輝度特性を示す図。
【図３１】実施例１０の輝度－電流効率特性を示す図。
【図３２】実施例１０の輝度－電力効率特性を示す図。
【図３３】実施例１０の電流密度－外部量子効率特性を示す図。
【図３４】実施例１０の輝度－外部量子効率特性を示す図。

【図３５】実施例１０のＥＬスペクトルを示す図。
【図３６】実施例１１の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図３７】実施例１１の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図３８】実施例１２の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図３９】実施例１２の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図４０】実施例１３の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図４１】実施例１３の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図４２】実施例１３の化合物の熱分解温度の結果を示す図。
【図４３】実施例１４の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図４４】実施例１４の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図４５】実施例１５の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図４６】実施例１５の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図４７】実施例１５の化合物の熱分解温度の結果を示す図。
【図４８】実施例１６の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図４９】実施例１６の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図５０】実施例１７の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図５１】実施例１７の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図５２】実施例１７の化合物の熱分解温度の結果を示す図。
【図５３】実施例１８の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図５４】実施例１８の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図５５】実施例１９の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図５６】実施例１９の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図５７】実施例１９の化合物の熱分解温度の結果を示す図。
【図５８】実施例２０の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図５９】実施例２０の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図６０】実施例２１の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図６１】実施例２１の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図６２】実施例２２の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図６３】実施例２２の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図６４】実施例３５の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図６５】実施例３５の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図６６】実施例３６の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図６７】実施例３６の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図６８】実施例３７の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図６９】実施例３７の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図７０】実施例３８の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（全領域）。
【図７１】実施例３８の化合物の^{1}Ｈ－ＮＭＲスペクトルを示す図（拡大図）。
【図７２】本発明の有機ＥＬ素子の一例を示す断面図。
【図７３】本発明の有機ＥＬ素子の一例を示す断面図。
【図７４】本発明の有機ＥＬ素子の一例を示す断面図。
【図７５】本発明の有機ＥＬ素子の一例を示す断面図。
【図７６】本発明の有機ＥＬ素子の一例を示す断面図。
【図７７】本発明の有機ＥＬ素子の一例を示す断面図。
【図７８】本発明の有機ＥＬ素子の一例を示す断面図。
【図７９】本発明の有機ＥＬ素子の一例を示す断面図。

【発明を実施するための形態】

【００１２】

以下、上記本発明について詳しく説明する。

一般に部分骨格がベンゼン環で連結された構造の化合物は結晶性が高く、この化合物を用いて製膜した場合には、時間の経過とともに再結晶化し易い。そして再結晶化した部分

は発光に関与しなくなるため、発光材料として用いるためには、化合物の結晶性を下げる必要がある。

そこで本発明者らは、再結晶化しにくい分子構造の化合物について検討し、分子に捻れを持たせることにより結晶性を下げることを考えた。そして、本発明のようなトリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分がビフェニル骨格部分を介して連結されたトリアジン化合物において、前記トリアジン骨格部分とジベンゾフラン又はジベンゾチオフェン骨格部分を、ビフェニル構造のベンゼン環のメタ位に結合させることにより、結晶性が低下することを見出し、本発明に至った。なお、前記骨格部分の結合がパラ位の場合には十分な結晶性の低下は見られない。また、前記骨格部分の結合がパラ位の化合物の三重項のエネルギーレベルは、おおよそ２．５ｅＶであるが、本発明のトリアジン化合物の三重項のエネルギーレベルは２．５ｅＶよりも高い。

更に、前記一般式〔１〕及び一般式〔２〕の置換基Ａｒと分子の捻れとの関係についても検討したところ、Ａｒがフェニル基、ナフチル基、フェナントレニル基のときは、前記メタ位の結合で得られた結晶性の低下傾向が維持されるが、Ａｒがアントラニル基の場合や、ベンゼン環が４個以上縮合した基の場合には、結晶性が高くなることが分かった。

【００１３】

本発明のトリアジン化合物におけるR^{1}～R^{4}、R^{10}～R^{73}、及びR^{2}がアルキル基を置換基として有するフェニル基の場合の、炭素数１～６の直鎖状若しくは分岐状のアルキル基としては、メチル基、エチル基、ｎ－プロピル基、ｉｓｏ－プロピル基、ｎ－ブチル基、ｓｅｃ－ブチル基、ｉｓｏ－ブチル基、ｔｅｒｔ－ブチル基、ｎ－ペンチル基、１－メチルブチル基、２－メチルブチル基、３－メチルブチル基、１－エチルプロピル基、１，１－ジメチルプロピル基、１，２－ジメチルプロピル基、２，２－ジメチルプロピル基、ｎ－ヘキシル基、２－メチルペンチル基、３－メチルペンチル基、４－メチルペンチル基、５－メチルペンチル基、１，１－ジメチルブチル基、１，２－ジメチルブチル基、１，３－ジメチルブチル基、１，４－ジメチルブチル基、２，３－ジメチルブチル基、２，４－ジメチルブチル基、２－エチルブチル基、３－エチルブチル基、４－エチルブチル基などが挙げられる。

【００１４】

本発明の一般式〔１〕及び一般式〔２〕のトリアジン化合物は、以下に示すような方法で合成したが、これに限定される訳ではない。なお、〔化５〕～〔化１４〕に示す反応式中のＸ、R^{1}、R^{2}、R^{3}、R^{4}、Ａｒは、一般式〔１〕及び一般式〔２〕の場合と同じである。また、Ｙは臭素原子又はヨウ素原子を表し、Ｚはボロン酸又はボロン酸エステルを表す。

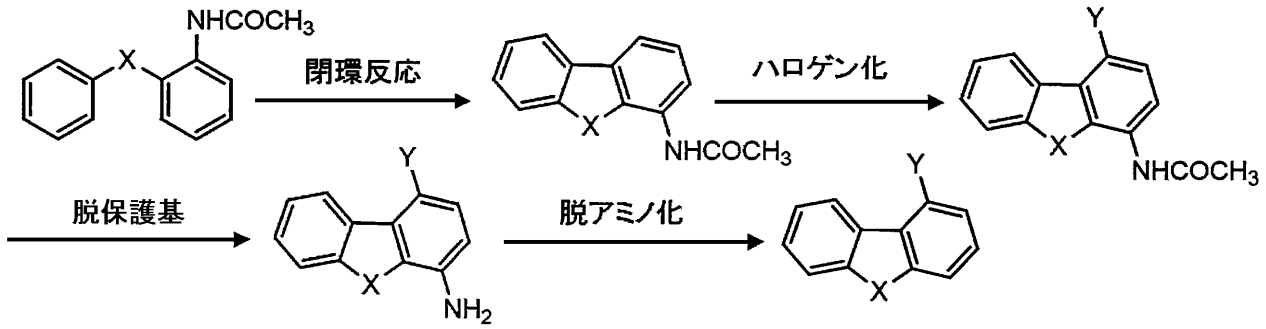
まずジベンゾフラン環又はジベンゾチオフェン環を含む中間体の合成について説明する。ジベンゾフラン環又はジベンゾチオフェン環に対するビフェニル骨格の付加位置については、それぞれ対応する位置に臭素又はヨウ素のような反応性の高いハロゲンを導入し、次いで適当な方法でボロン酸又はそのエステルに変換した中間体を合成すればよい。

【００１５】

例えば前記付加位置が１位の中間体を合成する場合は、ジベンゾフラン環又はジベンゾチオフェン環の１位に直接ハロゲンを導入することができないため、下記〔化５〕に示すような、特表２０１３－５２０５０８号公報記載の方法でピバル酸を用いて閉環した後、特開２０１６－１３５７７５号公報記載の方法で臭素を導入する方法が挙げられる。

出発原料の２′－フェノキシアセトアニリド又は２′－チオフェノキシアセトアニリドは、公知の方法で対応するアニリンをアセチル化することにより合成した。

【化５】

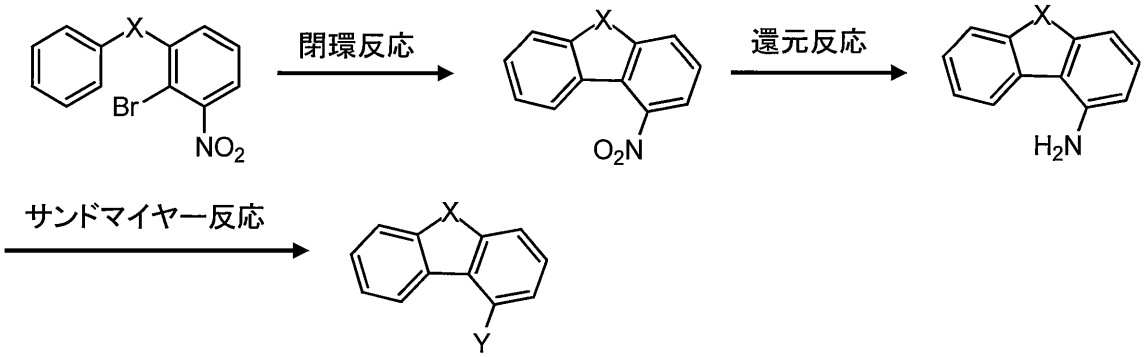


【００１６】

また、別法として、下記〔化６〕に示すように、特開２０１２－０４９５１８号公報記載の方法でニトロ基を持つ化合物を合成し、閉環後にニトロ基をアミノ基に還元し、サンドマイヤー反応を用いて臭素化又はヨウ素化する方法が挙げられる。

出発原料のジフェニルエーテル又はジフェニルチオエーテルは、対応するフェノール又はチオフェノールとハロベンゼンを用いて、Ｗｉｌｌｉａｍｓｏｎのエーテル合成法（例えば、Ｌｉｅｂｉｇｓ　Ａｎｎ．Ｃｈｅｍ．１８５１，７７，３７）で合成すればよい。閉環反応は、Ｓａｎｚ，Ｒｏｂｅｒｔｏらの方法（Ｊｏｕｒｎａｌ　ｏｆ　Ｏｒｇａｎｉｃ　Ｃｈｅｍｉｓｔｒｙ，７１（１６），６２９１－６２９４；２００６）を応用すればよい。また、ニトロ基の還元及びサンドマイヤー反応については、当業者間で周知の方法を採用すればよい。

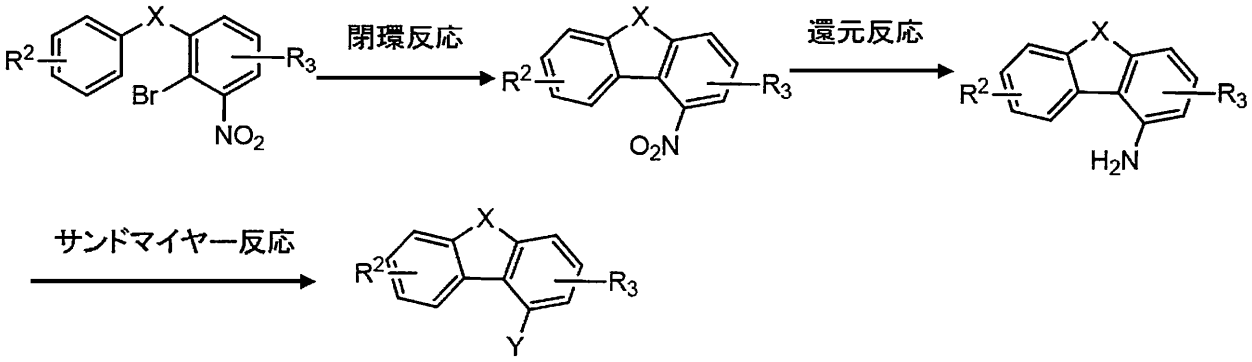
【化６】



【００１７】

また置換基Ｒ^{2}、Ｒ^{3}を有するジベンゾフラン又はジベンゾチオフェンを合成する場合は、前記エーテル合成におけるフェノール又はチオフェノール及びハロベンゼンとして、置換基Ｒ^{2}、Ｒ^{3}を有するものを使用し、前記〔化６〕の場合に倣って、下記〔化７〕に示す手順で合成すればよい。

【化７】

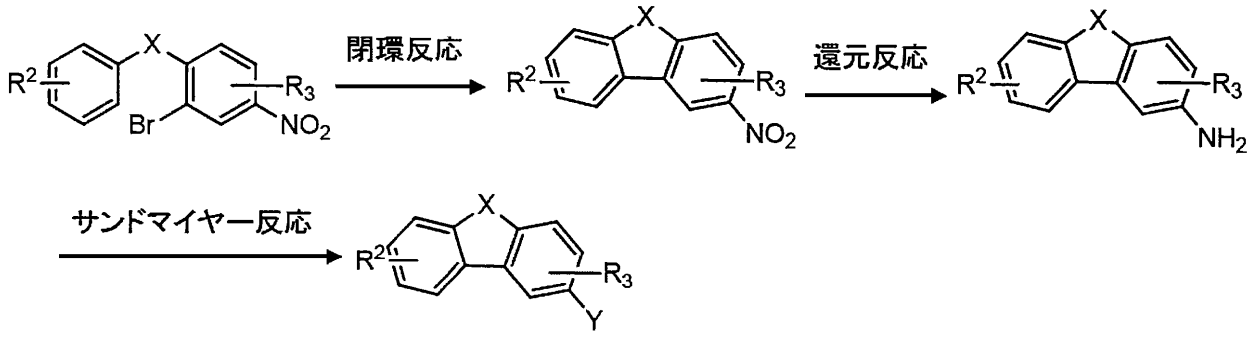


【００１８】

前記付加位置が２位の中間体を合成する場合は、ジベンゾフラン又はジベンゾチオフェンを直接臭素化することができる。その方法としては、例えば、Ｈａｎｄ，Ｅｌｌｉ Ｓ．らの方法（Ｊｏｕｒｎａｌ ｏｆ Ｏｒｇａｎｉｃ Ｃｈｅｍｉｓｔｒｙ，６２（５），１３４８－１３５５；１９９７）や、工藤らの方法（Ｊｏｕｒｎａｌ ｏｆ Ｈｅｔｅｒｏｃｙｃｌｉｃ Ｃｈｅｍｉｓｔｒｙ,２２（１）,２１５－１８；１９８５）などを応用すればよい。

また前記付加位置が２位の中間体で置換基Ｒ^{2}、Ｒ^{3}を有するものが必要な場合には、前記〔化７〕における出発原料のニトロ基の位置を変えることにより、下記〔化８〕に示す手順で合成することもできる。

【化８】



【００１９】

前記付加位置が３位の中間体を合成する場合は、Ｗｅｉ,Ｙｅらの方法（Ｏｒｇａｎｉｃ Ｌｅｔｔｅｒｓ，１３（２０），５５０４－５５０７；２０１１）やＩｌｌｕｍｉｎａｔｉ，Ｇａｂｒｉｅｌｌｏらの方法（Ｊｏｕｒｎａｌ ｏｆ ｔｈｅ Ａｍｅｒｉｃａｎ Ｃｈｅｍｉｃａｌ Ｓｏｃｉｅｔｙ（１９５１）,７３,５８８７－５８８８.）を応用すればよい。また、置換基Ｒ^{2}、Ｒ^{3}を有する中間体が必要な場合は、前記〔化７〕における出発原料をニトロ基の位置が５位のものに変えればよい。

【００２０】

前記付加位置が４位の中間体を合成する場合は、１位～３位のものと異なり、その反応性によりジベンゾフラン又はジベンゾチオフェンから直接必要なボロン酸を合成することができる。合成に際しては、例えば国際公開２００９／１１０３６０号パンフレットなどを参照できる。また、置換基Ｒ^{2}、Ｒ^{3}を有する中間体が必要な場合には、前記〔化７〕における出発原料をニトロ基の位置が６位のものに変えればよい。

【００２１】

前述のようにして合成したジベンゾフラン環又はジベンゾチオフェン環の１位～３位にハロゲンが導入された中間体を、例えばマグネシウムと反応させてグリニヤール試薬とした後、低温下でホウ酸トリメチルやホウ酸トリイソプロピルなどのボロン酸エステルと反

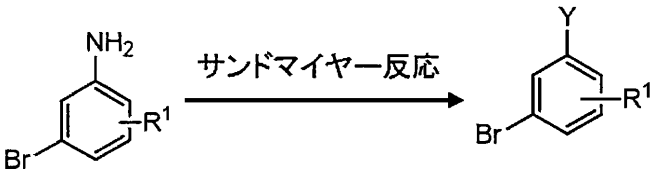
応させるか、又は、低温下でノルマルブチルリチウムと反応させてリチオ化物とした後、前記ボロン酸エステルと反応させ、希酸水で処理すればボロン酸が得られる。

また２－イソプロポキシ－４，４，５，５－テトラメチル－１，３，２－ジオキサボロランなどのボロン酸エステルと反応させ、そのまま水を加えて反応を停止させても所望のボロン酸エステルが得られる。また最近では、ビスピナコラートジボランを用いてＤＭＦなどの極性溶媒中、酢酸カリウム存在下でビス（トリフェニルホスフィン）ジクロロパラジウムを加え、加熱下でボロン酸エステルを合成する方法も利用できる。

【００２２】

またビフェニル骨格の置換基R^1としてメチル基のようなアルキル基又はフッ素を導入したい場合は、対応するアミン化合物をサンドマイヤー反応によりハロゲン化合物に変換した後、前記ジベンゾフラン環又はジベンゾチオフェン環のボロン酸又はボロン酸エステルと反応させればよい。更に得られたハロゲン化合物を、適当な方法でボロン酸又はボロン酸エステルに変えれば後続する反応に使用できる。下記〔９〕にサンドマイヤー反応を示すが、詳細は国際公開２００５／０９４８８２号パンフレットや特許第６０１２８８９号公報を参照すればよい。

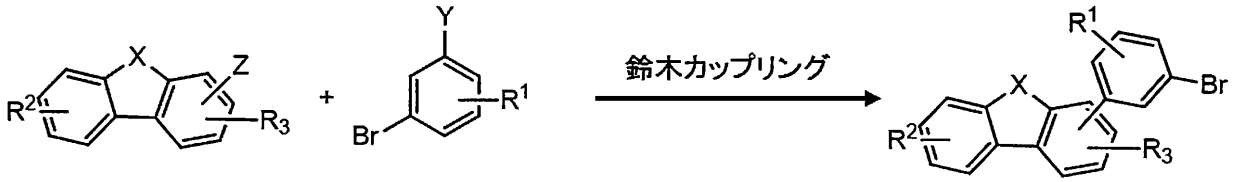
【化９】



【００２３】

上記のようにして得られたジベンゾフラン環又はジベンゾチオフェン環を有するボロン酸又はボロン酸エステルと、前記サンドマイヤー反応で得られたハロゲン化合物を、下記〔化１０〕に示すように鈴木カップリングすれば、ジベンゾフラン環又はジベンゾチオフェン環を有する中間体が得られる。そして、これらの中間体は、前述したようなジベンゾフラン環又はジベンゾチオフェン環化合物中間体をハロゲン化合物を経てボロン酸又はボロン酸エステル化したときと同様な方法によりボロン酸化合物に変換することができる。

【化１０】



【００２４】

鈴木カップリングの詳細はＭｉｙａｕｒａ，Ｎ．；Ｓｕｚｕｋｉ，Ａ．Ｃｈｅｍ．Ｒｅｖ．１９９５，９５，２４５７などを参照すればよいが、簡単に説明する。

反応溶媒は、芳香族炭化水素系溶媒、芳香属炭化水素系溶媒とアルコール系溶媒の混合物、エーテル系溶媒などである。芳香属炭化水素系溶媒としては、トルエン、キシレン、エチルベンゼン、メシチレンなどが挙げられる。アルコール系溶媒としては、メタノール、エタノール、プロパノール、ブタノールなどが挙げられる。エーテル系溶媒としては、テトラヒドロフランや１，４－ジオキサンのような環状エーテル、メチルセロソルブ、エチルセロソルブ、エチレングリコールジメトキシエーテル、エチレングリコールジエトキシエーテルなどが挙げられる。

溶媒に対する原料の溶解性が反応進行の鍵になるため、本発明では芳香族炭化水素系溶媒を用いることが好ましい。また、トルエンとアルコール系溶媒の混合物も使用することができる。

反応に用いる塩基類としては無機又は有機の塩基が挙げられる。好ましいのはアルカリ

金属の炭酸塩又は重炭酸塩であり、より好ましくは炭酸カリウムである。

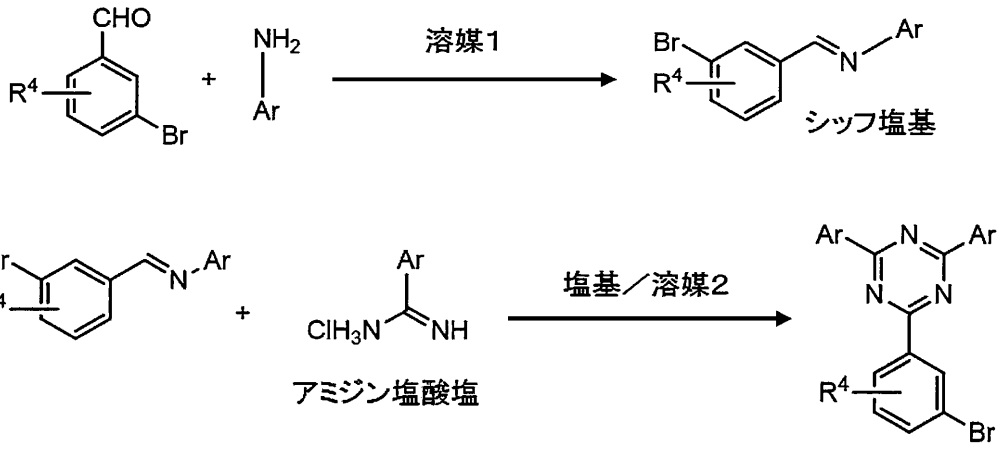
反応に用いるパラジウムについては、いずれの反応も臭化物のようなハロゲン化合物とホウ酸化合物とのカップリング反応であるため、一般的にはＰｄ（０）のものを用いる。好ましくは、テトラキス（トリフェニルホスフィン）パラジウム又はトリス（ジベンジリデンアセトン）ジパラジウムであり、より好ましくは、テトラキス（トリフェニルホスフィン）パラジウムである。

【００２５】

次に、トリアジン骨格部分の中間体については、アミジン化合物とシッフ塩基から合成する国際公開２０１１／１３２６８４号パンフレット記載の方法や、五塩化アンチモンを用いて閉環する特開２０１３－２５６４９０号公報記載の方法などを参考にできる。

国際公開２０１１／１３２６８４号パンフレット記載の方法は下記〔化１１〕に示すとおりである。式中のシッフ塩基のＡｒとアミジン塩酸塩のＡｒは同一のアリール基である。

【化１１】



【００２６】

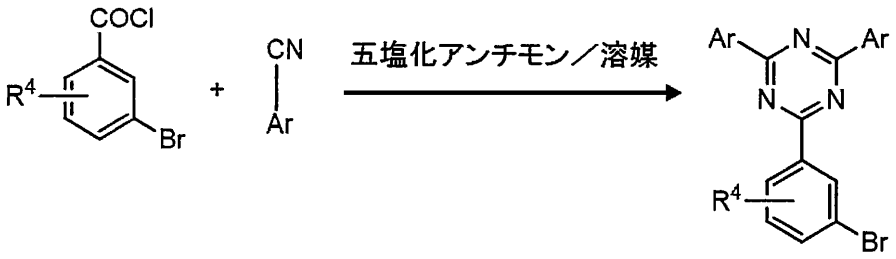
シッフ塩基合成の際の溶媒１については、対応するアルデヒドとアミン化合物を脱水反応で縮合させるため、水と混和しない溶媒を用いる。例えば、トルエン、キシレン、エチルベンゼン、メシチレンなどの炭化水素系溶媒が好ましいが、反応後の回収を考慮するとトルエンがより好ましい。反応条件は、発生する水分を溶媒と共沸させてディーンスターク管でトラップする必要があるため、８０℃以上の高温で反応させるのが望ましい。

シッフ塩基とアミジン塩酸塩の反応では、アミジン塩酸塩が溶ける溶媒でないと反応が進行しないため、極性の大きな溶媒を用いる。一般的には、アルコール類、ジメチルホルムアミドのような含窒素溶媒やジメチルスルホキシドなどを用いるが、後処理の点でアルコール類、特にエチルアルコールが好ましい。塩基としては、水酸化ナトリウムや水酸化カリウムのようなアルカリ金属の水酸化塩、炭酸ナトリウムや炭酸カリウムのような炭酸塩、ナトリウムメチラート、カリウムメチラートのようなアルコール塩などを単独で又は混合して用いる。反応進行上好ましいのは、水酸化ナトリウムとナトリウムターシャルブチラートの混合物である。

【００２７】

特開２０１３－２５６４９０号公報記載の方法は下記〔化１２〕に示すとおりである。アミジン塩酸塩の入手が難しいような場合に適応できる方法である。

【化１２】



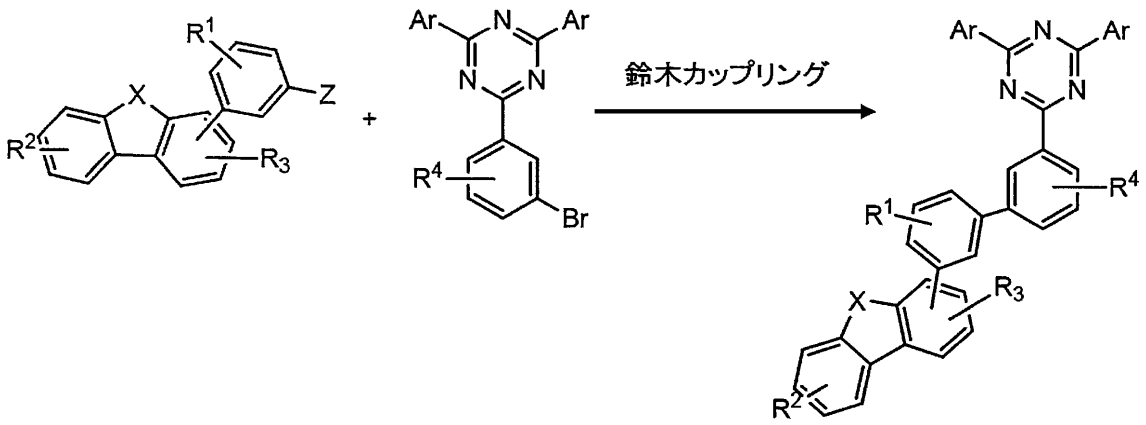
溶媒としては五塩化アンチモンと反応しないものを用いる。一般的には塩化メチレンやジクロロエタンのような脂肪族ハロゲン化物溶媒を用いるが、本発明では塩化メチレンが好ましい。

【００２８】

上記のようにして得られたボロン酸化合物と臭化物を用いて、下記〔化１３〕又は〔化１４〕に示す反応により、本発明の一般式〔１〕及び一般式〔２〕のトリアジン化合物を合成することができる。

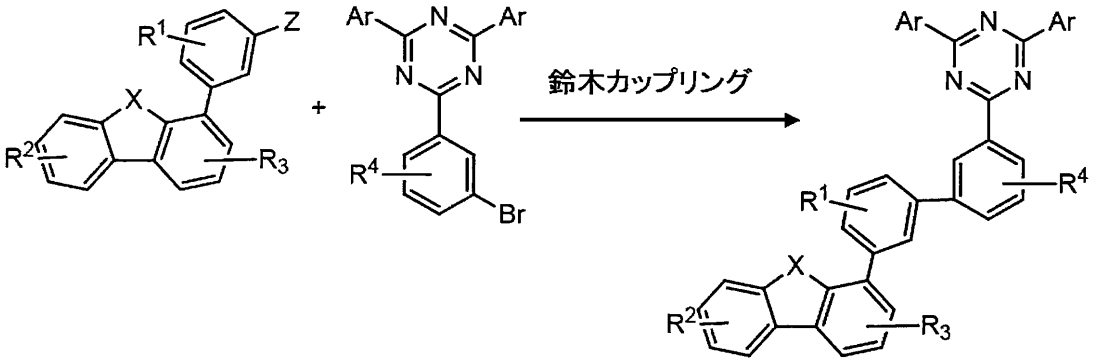
＜一般式〔１〕の化合物の反応式＞

【化１３】



＜一般式〔２〕の化合物の反応式＞

【化１４】



【００２９】

本発明のトリアジン化合物の具体例を表１～表５５６に示すが、これらに限定されるものではない。なお、表中の略号等の意味は次のとおりである。

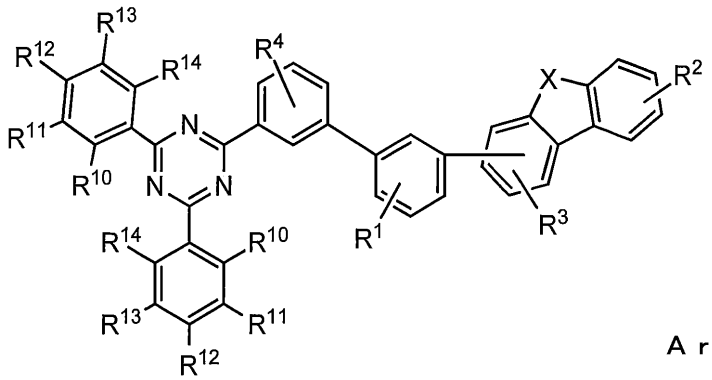
・「位置」は、ジベンゾフラニル基又はジベンゾチオフェニル基の結合位置を表す。
　但し、R^3が同じ位置に結合することはない。
・炭素数が３以上のアルキル基の場合は、直鎖状と分岐状の両方を含む。
・「Ｐｈ」はフェニル基（C_6H_5－）を表す。

・「Ｔｏｌ」はトリル基（ＣＨ$_3$Ｃ$_6$Ｈ$_5$－）を表す。
・「Ｐｈｅｎ」はフェネチル基（Ｃ$_2$Ｈ$_5$Ｃ$_6$Ｈ$_5$－）を表す。
・フェニル基、トリル基、フェネチル基については、炭素数３～６の直鎖状又は分岐状のアルキル基を置換基として有するものに置き換えることもできる。

【００３０】

下記式で表される化合物を表１～表３８に示す。式中のＸ、Ｒ^1～Ｒ^4、Ｒ^{10}～Ｒ^{14}は、前記一般式〔１〕の場合と同じである。

【化１５】



Ａｒ＝（Ｉ）

【００３１】

【表１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1	O	1	H	H	H	H	H	H	H	H	H
(I)－2	O	1	CH_3	H	H	H	H	H	H	H	H
(I)－3	O	1	H	CH_3	H	H	H	H	H	H	H
(I)－4	O	1	H	H	CH_3	H	H	H	H	H	H
(I)－5	O	1	H	H	H	CH_3	H	H	H	H	H
(I)－6	O	1	H	H	H	H	CH_3	H	H	H	H
(I)－7	O	1	H	H	H	H	H	CH_3	H	H	H
(I)－8	O	1	H	H	H	H	H	H	CH_3	H	H
(I)－9	O	1	H	Ph	H	H	H	H	H	H	H
(I)－10	O	1	C_2H_5	H	H	H	H	H	H	H	H
(I)－11	O	1	H	C_2H_5	H	H	H	H	H	H	H
(I)－12	O	1	H	H	C_2H_5	H	H	H	H	H	H
(I)－13	O	1	H	H	H	C_2H_5	H	H	H	H	H
(I)－14	O	1	H	H	H	H	C_2H_5	H	H	H	H
(I)－15	O	1	H	H	H	H	H	C_2H_5	H	H	H
(I)－16	O	1	H	H	H	H	H	H	C_2H_5	H	H
(I)－17	O	1	C_3H_7	H	H	H	H	H	H	H	H
(I)－18	O	1	H	C_3H_7	H	H	H	H	H	H	H
(I)－19	O	1	H	H	C_3H_7	H	H	H	H	H	H
(I)－20	O	1	H	H	H	C_3H_7	H	H	H	H	H
(I)－21	O	1	H	H	H	H	C_3H_7	H	H	H	H
(I)－22	O	1	H	H	H	H	H	C_3H_7	H	H	H
(I)－23	O	1	H	H	H	H	H	H	C_3H_7	H	H
(I)－24	O	1	C_4H_9	H	H	H	H	H	H	H	H
(I)－25	O	1	H	C_4H_9	H	H	H	H	H	H	H
(I)－26	O	1	H	H	C_4H_9	H	H	H	H	H	H
(I)－27	O	1	H	H	H	C_4H_9	H	H	H	H	H
(I)－28	O	1	H	H	H	H	C_4H_9	H	H	H	H
(I)－29	O	1	H	H	H	H	H	C_4H_9	H	H	H
(I)－30	O	1	H	H	H	H	H	H	C_4H_9	H	H
(I)－31	O	1	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－32	O	1	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－33	O	1	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－34	O	1	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－35	O	1	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－36	O	1	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－37	O	1	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－38	O	1	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－39	O	1	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－40	O	1	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－41	O	1	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－42	O	1	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－43	O	1	CH_3	CH_3	H	H	H	H	H	H	H
(I)－44	O	1	CH_3	H	CH_3	H	H	H	H	H	H
(I)－45	O	1	CH_3	H	H	CH_3	H	H	H	H	H
(I)－46	O	1	CH_3	H	H	H	CH_3	H	H	H	H
(I)－47	O	1	CH_3	H	H	H	H	CH_3	H	H	H
(I)－48	O	1	CH_3	H	H	H	H	H	CH_3	H	H
(I)－49	O	1	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－50	O	1	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－51	O	1	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－52	O	1	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－53	O	1	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－54	O	1	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－55	O	1	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－56	O	1	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－57	O	1	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－58	O	1	CH_3	H	H	CH_3	H	H	H	H	H
(I)－59	O	1	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－60	O	1	CH_3	H	H	CH_3	H	CH_3	H	H	H

【表２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－61	O	1	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－62	O	1	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－63	O	1	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－64	O	1	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－65	O	1	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－66	O	1	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－67	O	1	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－68	O	1	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－69	O	1	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－70	O	1	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－71	O	1	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－72	O	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－73	O	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－74	O	1	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－75	O	1	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－76	O	1	H	H	H	H	CH_3	CH_3	H	H	H
(I)－77	O	1	H	H	H	H	CH_3	H	CH_3	H	H
(I)－78	O	1	H	H	H	H	CH_3	H	H	CH_3	H
(I)－79	O	1	H	H	H	H	CH_3	H	H	H	CH_3
(I)－80	O	1	H	H	H	H	H	CH_3	CH_3	H	H
(I)－81	O	1	H	H	H	H	H	CH_3	H	CH_3	H
(I)－82	O	1	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－83	O	1	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－84	O	1	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－85	O	1	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－86	O	1	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－87	O	1	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－88	O	1	H	CH_3	CH_3	H	H	H	H	H	H
(I)－89	O	1	H	CH_3	H	CH_3	H	H	H	H	H
(I)－90	O	1	H	CH_3	H	H	CH_3	H	H	H	H
(I)－91	O	1	H	CH_3	H	H	H	CH_3	H	H	H
(I)－92	O	1	H	CH_3	H	H	H	H	CH_3	H	H
(I)－93	O	1	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－94	O	1	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－95	O	1	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－96	O	1	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－97	O	1	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－98	O	1	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－99	O	1	H	H	CH_3	CH_3	H	H	H	H	H
(I)－100	O	1	H	H	CH_3	H	CH_3	H	H	H	H
(I)－101	O	1	H	H	CH_3	H	H	CH_3	H	H	H
(I)－102	O	1	H	H	CH_3	H	H	H	CH_3	H	H
(I)－103	O	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－104	O	1	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－105	O	1	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－106	O	1	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－107	O	1	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－108	O	1	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－109	O	1	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－110	O	1	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－111	O	1	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－112	O	1	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－113	O	1	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－114	O	1	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－115	O	1	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－116	O	1	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－117	O	1	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－118	O	1	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－119	O	1	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－120	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H

【表３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－121	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－122	O	1	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－123	O	1	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－124	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－125	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－126	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－127	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－128	O	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－129	O	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－130	O	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－131	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－132	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－133	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－134	O	1	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－135	O	1	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－136	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－137	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－138	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－139	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－140	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－141	O	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－142	O	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－143	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－144	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－145	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－146	O	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－147	O	1	F	H	H	H	H	H	H	H	H
(I)－148	O	1	H	F	H	H	H	H	H	H	H
(I)－149	O	1	H	H	F	H	H	H	H	H	H
(I)－150	O	1	H	H	H	F	H	H	H	H	H
(I)－151	O	1	H	H	H	H	F	H	H	H	H
(I)－152	O	1	H	H	H	H	H	F	H	H	H
(I)－153	O	1	H	H	H	H	H	H	F	H	H
(I)－154	O	1	F	F	H	H	H	H	H	H	H
(I)－155	O	1	F	H	F	H	H	H	H	H	H
(I)－156	O	1	F	H	H	F	H	H	H	H	H
(I)－157	O	1	F	H	H	H	F	H	H	H	H
(I)－158	O	1	F	H	H	H	H	F	H	H	H
(I)－159	O	1	F	H	H	H	H	H	F	H	H
(I)－160	O	1	F	F	F	H	H	H	H	H	H
(I)－161	O	1	H	F	F	H	H	H	H	H	H
(I)－162	O	1	H	F	H	F	H	H	H	H	H
(I)－163	O	1	H	F	H	H	F	H	H	H	H
(I)－164	O	1	H	F	H	H	H	F	H	H	H
(I)－165	O	1	H	F	H	H	H	H	F	H	H
(I)－166	O	1	H	H	F	F	H	H	H	H	H
(I)－167	O	1	H	H	F	H	F	H	H	H	H
(I)－168	O	1	H	H	F	H	H	F	H	H	H
(I)－169	O	1	H	H	F	H	H	H	F	H	H
(I)－170	O	1	H	H	H	F	F	H	H	H	H
(I)－171	O	1	H	H	H	F	H	F	H	H	H
(I)－172	O	1	H	H	H	F	H	H	F	H	H
(I)－173	O	1	H	H	H	H	F	F	H	H	H
(I)－174	O	1	H	H	H	H	F	H	F	H	H
(I)－175	O	1	H	H	H	H	F	H	H	F	H
(I)－176	O	1	H	H	H	H	F	H	H	H	F
(I)－177	S	1	H	H	H	H	H	H	H	H	H
(I)－178	S	1	CH_3	H	H	H	H	H	H	H	H
(I)－179	S	1	H	CH_3	H	H	H	H	H	H	H
(I)－180	S	1	H	H	CH_3	H	H	H	H	H	H

【表４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－181	S	1	H	H	H	CH_3	H	H	H	H	H
(I)－182	S	1	H	H	H	H	CH_3	H	H	H	H
(I)－183	S	1	H	H	H	H	H	CH_3	H	H	H
(I)－184	S	1	H	H	H	H	H	H	CH_3	H	H
(I)－185	S	1	H	Ph	H	H	H	H	H	H	H
(I)－186	S	1	C_2H_5	H	H	H	H	H	H	H	H
(I)－187	S	1	H	C_2H_5	H	H	H	H	H	H	H
(I)－188	S	1	H	H	C_2H_5	H	H	H	H	H	H
(I)－189	S	1	H	H	H	C_2H_5	H	H	H	H	H
(I)－190	S	1	H	H	H	H	C_2H_5	H	H	H	H
(I)－191	S	1	H	H	H	H	H	C_2H_5	H	H	H
(I)－192	S	1	H	H	H	H	H	H	C_2H_5	H	H
(I)－193	S	1	C_3H_7	H	H	H	H	H	H	H	H
(I)－194	S	1	H	C_3H_7	H	H	H	H	H	H	H
(I)－195	S	1	H	H	C_3H_7	H	H	H	H	H	H
(I)－196	S	1	H	H	H	C_3H_7	H	H	H	H	H
(I)－197	S	1	H	H	H	H	C_3H_7	H	H	H	H
(I)－198	S	1	H	H	H	H	H	C_3H_7	H	H	H
(I)－199	S	1	H	H	H	H	H	H	C_3H_7	H	H
(I)－200	S	1	C_4H_9	H	H	H	H	H	H	H	H
(I)－201	S	1	H	C_4H_9	H	H	H	H	H	H	H
(I)－202	S	1	H	H	C_4H_9	H	H	H	H	H	H
(I)－203	S	1	H	H	H	C_4H_9	H	H	H	H	H
(I)－204	S	1	H	H	H	H	C_4H_9	H	H	H	H
(I)－205	S	1	H	H	H	H	H	C_4H_9	H	H	H
(I)－206	S	1	H	H	H	H	H	H	C_4H_9	H	H
(I)－207	S	1	C_5H_{11}	H	H	H	H	H	H	H	H
(I)－208	S	1	H	C_5H_{11}	H	H	H	H	H	H	H
(I)－209	S	1	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－210	S	1	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－211	S	1	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－212	S	1	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－213	S	1	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－214	S	1	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－215	S	1	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－216	S	1	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－217	S	1	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－218	S	1	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－219	S	1	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－220	S	1	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－221	S	1	CH_3	CH_3	H	H	H	H	H	H	H
(I)－222	S	1	CH_3	H	CH_3	H	H	H	H	H	H
(I)－223	S	1	CH_3	H	H	CH_3	H	H	H	H	H
(I)－224	S	1	CH_3	H	H	H	CH_3	H	H	H	H
(I)－225	S	1	CH_3	H	H	H	H	CH_3	H	H	H
(I)－226	S	1	CH_3	H	H	H	H	H	CH_3	H	H
(I)－227	S	1	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－228	S	1	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－229	S	1	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－230	S	1	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－231	S	1	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－232	S	1	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－233	S	1	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－234	S	1	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－235	S	1	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－236	S	1	CH_3	H	H	CH_3	H	H	H	H	H
(I)－237	S	1	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－238	S	1	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－239	S	1	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－240	S	1	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H

【表５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－241	S	1	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－242	S	1	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－243	S	1	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－244	S	1	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－245	S	1	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－246	S	1	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－247	S	1	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－248	S	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－249	S	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－250	S	1	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－251	S	1	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－252	S	1	H	H	H	H	CH_3	CH_3	H	H	H
(I)－253	S	1	H	H	H	H	CH_3	H	CH_3	H	H
(I)－254	S	1	H	H	H	H	CH_3	H	H	CH_3	H
(I)－255	S	1	H	H	H	H	CH_3	H	H	H	CH_3
(I)－256	S	1	H	H	H	H	H	CH_3	CH_3	H	H
(I)－257	S	1	H	H	H	H	H	CH_3	H	CH_3	H
(I)－258	S	1	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－259	S	1	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－260	S	1	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－261	S	1	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－262	S	1	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－263	S	1	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－264	S	1	H	CH_3	CH_3	H	H	H	H	H	H
(I)－265	S	1	H	CH_3	H	CH_3	H	H	H	H	H
(I)－266	S	1	H	CH_3	H	H	CH_3	H	H	H	H
(I)－267	S	1	H	CH_3	H	H	H	CH_3	H	H	H
(I)－268	S	1	H	CH_3	H	H	H	H	CH_3	H	H
(I)－269	S	1	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－270	S	1	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－271	S	1	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－272	S	1	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－273	S	1	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－274	S	1	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－275	S	1	H	H	CH_3	CH_3	H	H	H	H	H
(I)－276	S	1	H	H	CH_3	H	CH_3	H	H	H	H
(I)－277	S	1	H	H	CH_3	H	H	CH_3	H	H	H
(I)－278	S	1	H	H	CH_3	H	H	H	CH_3	H	H
(I)－279	S	1	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－280	S	1	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－281	S	1	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－282	S	1	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－283	S	1	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－284	S	1	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－285	S	1	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－286	S	1	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－287	S	1	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－288	S	1	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－289	S	1	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－290	S	1	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－291	S	1	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－292	S	1	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－293	S	1	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－294	S	1	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－295	S	1	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－296	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－297	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－298	S	1	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－299	S	1	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－300	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H

【表６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－301	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－302	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－303	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－304	S	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－305	S	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－306	S	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－307	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－308	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－309	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－310	S	1	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－311	S	1	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－312	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－313	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－314	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－315	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－316	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－317	S	1	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－318	S	1	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－319	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－320	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－321	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－322	S	1	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－323	S	1	F	H	H	H	H	H	H	H	H
(I)－324	S	1	H	F	H	H	H	H	H	H	H
(I)－325	S	1	H	H	F	H	H	H	H	H	H
(I)－326	S	1	H	H	H	F	H	H	H	H	H
(I)－327	S	1	H	H	H	H	F	H	H	H	H
(I)－328	S	1	H	H	H	H	H	F	H	H	H
(I)－329	S	1	H	H	H	H	H	H	F	H	H
(I)－330	S	1	F	F	H	H	H	H	H	H	H
(I)－331	S	1	F	H	F	H	H	H	H	H	H
(I)－332	S	1	F	H	H	F	H	H	H	H	H
(I)－333	S	1	F	H	H	H	F	H	H	H	H
(I)－334	S	1	F	H	H	H	H	F	H	H	H
(I)－335	S	1	F	H	H	H	H	H	F	H	H
(I)－336	S	1	F	F	F	H	H	H	H	H	H
(I)－337	S	1	H	F	F	H	H	H	H	H	H
(I)－338	S	1	H	F	H	F	H	H	H	H	H
(I)－339	S	1	H	F	H	H	F	H	H	H	H
(I)－340	S	1	H	F	H	H	H	F	H	H	H
(I)－341	S	1	H	F	H	H	H	H	F	H	H
(I)－342	S	1	H	H	F	F	H	H	H	H	H
(I)－343	S	1	H	H	F	H	F	H	H	H	H
(I)－344	S	1	H	H	F	H	H	F	H	H	H
(I)－345	S	1	H	H	F	H	H	H	F	H	H
(I)－346	S	1	H	H	H	F	F	H	H	H	H
(I)－347	S	1	H	H	H	F	H	F	H	H	H
(I)－348	S	1	H	H	H	F	H	H	F	H	H
(I)－349	S	1	H	H	H	H	F	F	H	H	H
(I)－350	S	1	H	H	H	H	F	H	F	H	H
(I)－351	S	1	H	H	H	H	F	H	H	F	H
(I)－352	S	1	H	H	H	H	F	H	H	H	F
(I)－353	O	2	H	H	H	H	H	H	H	H	H
(I)－354	O	2	CH_3	H	H	H	H	H	H	H	H
(I)－355	O	2	H	CH_3	H	H	H	H	H	H	H
(I)－356	O	2	H	H	CH_3	H	H	H	H	H	H
(I)－357	O	2	H	H	H	CH_3	H	H	H	H	H
(I)－358	O	2	H	H	H	H	CH_3	H	H	H	H
(I)－359	O	2	H	H	H	H	H	CH_3	H	H	H
(I)－360	O	2	H	H	H	H	H	H	CH_3	H	H

【表７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－361	O	2	H	Ph	H	H	H	H	H	H	H
(I)－362	O	2	C_2H_5	H	H	H	H	H	H	H	H
(I)－363	O	2	H	C_2H_5	H	H	H	H	H	H	H
(I)－364	O	2	H	H	C_2H_5	H	H	H	H	H	H
(I)－365	O	2	H	H	H	C_2H_5	H	H	H	H	H
(I)－366	O	2	H	H	H	H	C_2H_5	H	H	H	H
(I)－367	O	2	H	H	H	H	H	C_2H_5	H	H	H
(I)－368	O	2	H	H	H	H	H	H	C_2H_5	H	H
(I)－369	O	2	C_3H_7	H	H	H	H	H	H	H	H
(I)－370	O	2	H	C_3H_7	H	H	H	H	H	H	H
(I)－371	O	2	H	H	C_3H_7	H	H	H	H	H	H
(I)－372	O	2	H	H	H	C_3H_7	H	H	H	H	H
(I)－373	O	2	H	H	H	H	C_3H_7	H	H	H	H
(I)－374	O	2	H	H	H	H	H	C_3H_7	H	H	H
(I)－375	O	2	H	H	H	H	H	H	C_3H_7	H	H
(I)－376	O	2	C_4H_9	H	H	H	H	H	H	H	H
(I)－377	O	2	H	C_4H_9	H	H	H	H	H	H	H
(I)－378	O	2	H	H	C_4H_9	H	H	H	H	H	H
(I)－379	O	2	H	H	H	C_4H_9	H	H	H	H	H
(I)－380	O	2	H	H	H	H	C_4H_9	H	H	H	H
(I)－381	O	2	H	H	H	H	H	C_4H_9	H	H	H
(I)－382	O	2	H	H	H	H	H	H	C_4H_9	H	H
(I)－383	O	2	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－384	O	2	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－385	O	2	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－386	O	2	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－387	O	2	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－388	O	2	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－389	O	2	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－390	O	2	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－391	O	2	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－392	O	2	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－393	O	2	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－394	O	2	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－395	O	2	CH_3	CH_3	H	H	H	H	H	H	H
(I)－396	O	2	CH_3	H	CH_3	H	H	H	H	H	H
(I)－397	O	2	CH_3	H	H	CH_3	H	H	H	H	H
(I)－398	O	2	CH_3	H	H	H	CH_3	H	H	H	H
(I)－399	O	2	CH_3	H	H	H	H	CH_3	H	H	H
(I)－400	O	2	CH_3	H	H	H	H	H	CH_3	H	H
(I)－401	O	2	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－402	O	2	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－403	O	2	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－404	O	2	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－405	O	2	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－406	O	2	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－407	O	2	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－408	O	2	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－409	O	2	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－410	O	2	CH_3	H	H	CH_3	H	H	H	H	H
(I)－411	O	2	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－412	O	2	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－413	O	2	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－414	O	2	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－415	O	2	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－416	O	2	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－417	O	2	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－418	O	2	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－419	O	2	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－420	O	2	H	CH_3	CH_3	CH_3	H	H	H	H	H

【表８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－421	O	2	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－422	O	2	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－423	O	2	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－424	O	2	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－425	O	2	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－426	O	2	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－427	O	2	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－428	O	2	H	H	H	H	CH_3	CH_3	H	H	H
(I)－429	O	2	H	H	H	H	CH_3	H	CH_3	H	H
(I)－430	O	2	H	H	H	H	CH_3	H	H	CH_3	H
(I)－431	O	2	H	H	H	H	CH_3	H	H	H	CH_3
(I)－432	O	2	H	H	H	H	H	CH_3	CH_3	H	H
(I)－433	O	2	H	H	H	H	H	CH_3	H	CH_3	H
(I)－434	O	2	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－435	O	2	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－436	O	2	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－437	O	2	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－438	O	2	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－439	O	2	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－440	O	2	H	CH_3	CH_3	H	H	H	H	H	H
(I)－441	O	2	H	CH_3	H	CH_3	H	H	H	H	H
(I)－442	O	2	H	CH_3	H	H	CH_3	H	H	H	H
(I)－443	O	2	H	CH_3	H	H	H	CH_3	H	H	H
(I)－444	O	2	H	CH_3	H	H	H	H	CH_3	H	H
(I)－445	O	2	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－446	O	2	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－447	O	2	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－448	O	2	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－449	O	2	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－450	O	2	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－451	O	2	H	H	CH_3	CH_3	H	H	H	H	H
(I)－452	O	2	H	H	CH_3	H	CH_3	H	H	H	H
(I)－453	O	2	H	H	CH_3	H	H	CH_3	H	H	H
(I)－454	O	2	H	H	CH_3	H	H	H	CH_3	H	H
(I)－455	O	2	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－456	O	2	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－457	O	2	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－458	O	2	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－459	O	2	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－460	O	2	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－461	O	2	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－462	O	2	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－463	O	2	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－464	O	2	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－465	O	2	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－466	O	2	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－467	O	2	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－468	O	2	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－469	O	2	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－470	O	2	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－471	O	2	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－472	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－473	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－474	O	2	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－475	O	2	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－476	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－477	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－478	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－479	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－480	O	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H

【表９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－481	O	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－482	O	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－483	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－484	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－485	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－486	O	2	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－487	O	2	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－488	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－489	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－490	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－491	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－492	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－493	O	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－494	O	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－495	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－496	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－497	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－498	O	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－499	O	2	F	H	H	H	H	H	H	H	H
(I)－500	O	2	H	F	H	H	H	H	H	H	H
(I)－501	O	2	H	H	F	H	H	H	H	H	H
(I)－502	O	2	H	H	H	F	H	H	H	H	H
(I)－503	O	2	H	H	H	H	F	H	H	H	H
(I)－504	O	2	H	H	H	H	H	F	H	H	H
(I)－505	O	2	H	H	H	H	H	H	F	H	H
(I)－506	O	2	F	F	H	H	H	H	H	H	H
(I)－507	O	2	F	H	F	H	H	H	H	H	H
(I)－508	O	2	F	H	H	F	H	H	H	H	H
(I)－509	O	2	F	H	H	H	F	H	H	H	H
(I)－510	O	2	F	H	H	H	H	F	H	H	H
(I)－511	O	2	F	H	H	H	H	H	F	H	H
(I)－512	O	2	F	F	F	H	H	H	H	H	H
(I)－513	O	2	H	F	F	H	H	H	H	H	H
(I)－514	O	2	H	F	H	F	H	H	H	H	H
(I)－515	O	2	H	F	H	H	F	H	H	H	H
(I)－516	O	2	H	F	H	H	H	F	H	H	H
(I)－517	O	2	H	F	H	H	H	H	F	H	H
(I)－518	O	2	H	H	F	F	H	H	H	H	H
(I)－519	O	2	H	H	F	H	F	H	H	H	H
(I)－520	O	2	H	H	F	H	H	F	H	H	H
(I)－521	O	2	H	H	F	H	H	H	F	H	H
(I)－522	O	2	H	H	H	F	F	H	H	H	H
(I)－523	O	2	H	H	H	F	H	F	H	H	H
(I)－524	O	2	H	H	H	F	H	H	F	H	H
(I)－525	O	2	H	H	H	H	F	F	H	H	H
(I)－526	O	2	H	H	H	H	F	H	F	H	H
(I)－527	O	2	H	H	H	H	F	H	H	F	H
(I)－528	O	2	H	H	H	H	F	H	H	H	F
(I)－529	S	2	H	H	H	H	H	H	H	H	H
(I)－530	S	2	CH_3	H	H	H	H	H	H	H	H
(I)－531	S	2	H	CH_3	H	H	H	H	H	H	H
(I)－532	S	2	H	H	CH_3	H	H	H	H	H	H
(I)－533	S	2	H	H	H	CH_3	H	H	H	H	H
(I)－534	S	2	H	H	H	H	CH_3	H	H	H	H
(I)－535	S	2	H	H	H	H	H	CH_3	H	H	H
(I)－536	S	2	H	H	H	H	H	H	CH_3	H	H
(I)－537	S	2	H	Ph	H	H	H	H	H	H	H
(I)－538	S	2	C_2H_5	H	H	H	H	H	H	H	H
(I)－539	S	2	H	C_2H_5	H	H	H	H	H	H	H
(I)－540	S	2	H	H	C_2H_5	H	H	H	H	H	H

【表１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－541	S	2	H	H	H	C_2H_5	H	H	H	H	H
(I)－542	S	2	H	H	H	H	C_2H_5	H	H	H	H
(I)－543	S	2	H	H	H	H	H	C_2H_5	H	H	H
(I)－544	S	2	H	H	H	H	H	H	C_2H_5	H	H
(I)－545	S	2	C_3H_7	H	H	H	H	H	H	H	H
(I)－546	S	2	H	C_3H_7	H	H	H	H	H	H	H
(I)－547	S	2	H	H	C_3H_7	H	H	H	H	H	H
(I)－548	S	2	H	H	H	C_3H_7	H	H	H	H	H
(I)－549	S	2	H	H	H	H	C_3H_7	H	H	H	H
(I)－550	S	2	H	H	H	H	H	C_3H_7	H	H	H
(I)－551	S	2	H	H	H	H	H	H	C_3H_7	H	H
(I)－552	S	2	C_4H_9	H	H	H	H	H	H	H	H
(I)－553	S	2	H	C_4H_9	H	H	H	H	H	H	H
(I)－554	S	2	H	H	C_4H_9	H	H	H	H	H	H
(I)－555	S	2	H	H	H	C_4H_9	H	H	H	H	H
(I)－556	S	2	H	H	H	H	C_4H_9	H	H	H	H
(I)－557	S	2	H	H	H	H	H	C_4H_9	H	H	H
(I)－558	S	2	H	H	H	H	H	H	C_4H_9	H	H
(I)－559	S	2	C_5H_{11}	H	H	H	H	H	H	H	H
(I)－560	S	2	H	C_5H_{11}	H	H	H	H	H	H	H
(I)－561	S	2	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－562	S	2	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－563	S	2	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－564	S	2	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－565	S	2	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－566	S	2	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－567	S	2	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－568	S	2	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－569	S	2	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－570	S	2	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－571	S	2	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－572	S	2	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－573	S	2	CH_3	CH_3	H	H	H	H	H	H	H
(I)－574	S	2	CH_3	H	CH_3	H	H	H	H	H	H
(I)－575	S	2	CH_3	H	H	CH_3	H	H	H	H	H
(I)－576	S	2	CH_3	H	H	H	CH_3	H	H	H	H
(I)－577	S	2	CH_3	H	H	H	H	CH_3	H	H	H
(I)－578	S	2	CH_3	H	H	H	H	H	CH_3	H	H
(I)－579	S	2	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－580	S	2	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－581	S	2	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－582	S	2	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－583	S	2	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－584	S	2	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－585	S	2	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－586	S	2	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－587	S	2	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－588	S	2	CH_3	H	H	CH_3	H	H	H	H	H
(I)－589	S	2	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－590	S	2	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－591	S	2	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－592	S	2	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－593	S	2	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－594	S	2	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－595	S	2	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－596	S	2	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－597	S	2	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－598	S	2	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－599	S	2	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－600	S	2	H	H	CH_3	CH_3	CH_3	H	H	H	H

【表１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－601	S	2	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－602	S	2	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－603	S	2	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－604	S	2	H	H	H	H	CH_3	CH_3	H	H	H
(I)－605	S	2	H	H	H	H	CH_3	H	CH_3	H	H
(I)－606	S	2	H	H	H	H	CH_3	H	H	CH_3	H
(I)－607	S	2	H	H	H	H	CH_3	H	H	H	CH_3
(I)－608	S	2	H	H	H	H	H	CH_3	CH_3	H	H
(I)－609	S	2	H	H	H	H	H	CH_3	H	CH_3	H
(I)－610	S	2	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－611	S	2	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－612	S	2	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－613	S	2	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－614	S	2	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－615	S	2	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－616	S	2	H	CH_3	CH_3	H	H	H	H	H	H
(I)－617	S	2	H	CH_3	H	CH_3	H	H	H	H	H
(I)－618	S	2	H	CH_3	H	H	CH_3	H	H	H	H
(I)－619	S	2	H	CH_3	H	H	H	CH_3	H	H	H
(I)－620	S	2	H	CH_3	H	H	H	H	CH_3	H	H
(I)－621	S	2	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－622	S	2	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－623	S	2	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－624	S	2	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－625	S	2	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－626	S	2	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－627	S	2	H	H	CH_3	CH_3	H	H	H	H	H
(I)－628	S	2	H	H	CH_3	H	CH_3	H	H	H	H
(I)－629	S	2	H	H	CH_3	H	H	CH_3	H	H	H
(I)－630	S	2	H	H	CH_3	H	H	H	CH_3	H	H
(I)－631	S	2	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－632	S	2	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－633	S	2	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－634	S	2	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－635	S	2	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－636	S	2	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－637	S	2	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－638	S	2	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－639	S	2	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－640	S	2	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－641	S	2	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－642	S	2	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－643	S	2	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－644	S	2	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－645	S	2	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－646	S	2	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－647	S	2	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－648	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－649	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－650	S	2	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－651	S	2	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－652	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－653	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－654	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－655	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－656	S	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－657	S	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－658	S	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－659	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－660	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H

【表１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－661	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－662	S	2	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－663	S	2	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－664	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－665	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－666	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－667	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－668	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－669	S	2	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－670	S	2	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－671	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－672	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－673	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－674	S	2	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－675	S	2	F	H	H	H	H	H	H	H	H
(I)－676	S	2	H	F	H	H	H	H	H	H	H
(I)－677	S	2	H	H	F	H	H	H	H	H	H
(I)－678	S	2	H	H	H	F	H	H	H	H	H
(I)－679	S	2	H	H	H	H	F	H	H	H	H
(I)－680	S	2	H	H	H	H	H	F	H	H	H
(I)－681	S	2	H	H	H	H	H	H	F	H	H
(I)－682	S	2	F	F	H	H	H	H	H	H	H
(I)－683	S	2	F	H	F	H	H	H	H	H	H
(I)－684	S	2	F	H	H	F	H	H	H	H	H
(I)－685	S	2	F	H	H	H	F	H	H	H	H
(I)－686	S	2	F	H	H	H	H	F	H	H	H
(I)－687	S	2	F	H	H	H	H	H	F	H	H
(I)－688	S	2	F	F	F	H	H	H	H	H	H
(I)－689	S	2	H	F	F	H	H	H	H	H	H
(I)－690	S	2	H	F	H	F	H	H	H	H	H
(I)－691	S	2	H	F	H	H	F	H	H	H	H
(I)－692	S	2	H	F	H	H	H	F	H	H	H
(I)－693	S	2	H	F	H	H	H	H	F	H	H
(I)－694	S	2	H	H	F	F	H	H	H	H	H
(I)－695	S	2	H	H	F	H	F	H	H	H	H
(I)－696	S	2	H	H	F	H	H	F	H	H	H
(I)－697	S	2	H	H	F	H	H	H	F	H	H
(I)－698	S	2	H	H	H	F	F	H	H	H	H
(I)－699	S	2	H	H	H	F	H	F	H	H	H
(I)－700	S	2	H	H	H	F	H	H	F	H	H
(I)－701	S	2	H	H	H	H	F	F	H	H	H
(I)－702	S	2	H	H	H	H	F	H	F	H	H
(I)－703	S	2	H	H	H	H	F	H	H	F	H
(I)－704	S	2	H	H	H	H	F	H	H	H	F
(I)－705	O	3	H	H	H	H	H	H	H	H	H
(I)－706	O	3	CH_3	H	H	H	H	H	H	H	H
(I)－707	O	3	H	CH_3	H	H	H	H	H	H	H
(I)－708	O	3	H	H	CH_3	H	H	H	H	H	H
(I)－709	O	3	H	H	H	CH_3	H	H	H	H	H
(I)－710	O	3	H	H	H	H	CH_3	H	H	H	H
(I)－711	O	3	H	H	H	H	H	CH_3	H	H	H
(I)－712	O	3	H	H	H	H	H	H	CH_3	H	H
(I)－713	O	3	H	Ph	H	H	H	H	H	H	H
(I)－714	O	3	C_2H_5	H	H	H	H	H	H	H	H
(I)－715	O	3	H	C_2H_5	H	H	H	H	H	H	H
(I)－716	O	3	H	H	C_2H_5	H	H	H	H	H	H
(I)－717	O	3	H	H	H	C_2H_5	H	H	H	H	H
(I)－718	O	3	H	H	H	H	C_2H_5	H	H	H	H
(I)－719	O	3	H	H	H	H	H	C_2H_5	H	H	H
(I)－720	O	3	H	H	H	H	H	H	C_2H_5	H	H

【表１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－721	O	3	C_3H_7	H	H	H	H	H	H	H	H
(I)－722	O	3	H	C_3H_7	H	H	H	H	H	H	H
(I)－723	O	3	H	H	C_3H_7	H	H	H	H	H	H
(I)－724	O	3	H	H	H	C_3H_7	H	H	H	H	H
(I)－725	O	3	H	H	H	H	C_3H_7	H	H	H	H
(I)－726	O	3	H	H	H	H	H	C_3H_7	H	H	H
(I)－727	O	3	H	H	H	H	H	H	C_3H_7	H	H
(I)－728	O	3	C_4H_9	H	H	H	H	H	H	H	H
(I)－729	O	3	H	C_4H_9	H	H	H	H	H	H	H
(I)－730	O	3	H	H	C_4H_9	H	H	H	H	H	H
(I)－731	O	3	H	H	H	C_4H_9	H	H	H	H	H
(I)－732	O	3	H	H	H	H	C_4H_9	H	H	H	H
(I)－733	O	3	H	H	H	H	H	C_4H_9	H	H	H
(I)－734	O	3	H	H	H	H	H	H	C_4H_9	H	H
(I)－735	O	3	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－736	O	3	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－737	O	3	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－738	O	3	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－739	O	3	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－740	O	3	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－741	O	3	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－742	O	3	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－743	O	3	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－744	O	3	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－745	O	3	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－746	O	3	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－747	O	3	CH_3	CH_3	H	H	H	H	H	H	H
(I)－748	O	3	CH_3	H	CH_3	H	H	H	H	H	H
(I)－749	O	3	CH_3	H	H	CH_3	H	H	H	H	H
(I)－750	O	3	CH_3	H	H	H	CH_3	H	H	H	H
(I)－751	O	3	CH_3	H	H	H	H	CH_3	H	H	H
(I)－752	O	3	CH_3	H	H	H	H	H	CH_3	H	H
(I)－753	O	3	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－754	O	3	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－755	O	3	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－756	O	3	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－757	O	3	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－758	O	3	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－759	O	3	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－760	O	3	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－761	O	3	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－762	O	3	CH_3	H	H	CH_3	H	H	H	H	H
(I)－763	O	3	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－764	O	3	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－765	O	3	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－766	O	3	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－767	O	3	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－768	O	3	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－769	O	3	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－770	O	3	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－771	O	3	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－772	O	3	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－773	O	3	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－774	O	3	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－775	O	3	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－776	O	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－777	O	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－778	O	3	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－779	O	3	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－780	O	3	H	H	H	H	CH_3	CH_3	H	H	H

【表１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－781	O	3	H	H	H	H	CH_3	H	CH_3	H	H
(I)－782	O	3	H	H	H	H	CH_3	H	H	CH_3	H
(I)－783	O	3	H	H	H	H	CH_3	H	H	H	CH_3
(I)－784	O	3	H	H	H	H	H	CH_3	CH_3	H	H
(I)－785	O	3	H	H	H	H	H	CH_3	H	CH_3	H
(I)－786	O	3	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－787	O	3	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－788	O	3	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－789	O	3	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－790	O	3	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－791	O	3	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－792	O	3	H	CH_3	CH_3	H	H	H	H	H	H
(I)－793	O	3	H	CH_3	H	CH_3	H	H	H	H	H
(I)－794	O	3	H	CH_3	H	H	CH_3	H	H	H	H
(I)－795	O	3	H	CH_3	H	H	H	CH_3	H	H	H
(I)－796	O	3	H	CH_3	H	H	H	H	CH_3	H	H
(I)－797	O	3	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－798	O	3	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－799	O	3	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－800	O	3	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－801	O	3	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－802	O	3	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－803	O	3	H	H	CH_3	CH_3	H	H	H	H	H
(I)－804	O	3	H	H	CH_3	H	CH_3	H	H	H	H
(I)－805	O	3	H	H	CH_3	H	H	CH_3	H	H	H
(I)－806	O	3	H	H	CH_3	H	H	H	CH_3	H	H
(I)－807	O	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－808	O	3	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－809	O	3	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－810	O	3	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－811	O	3	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－812	O	3	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－813	O	3	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－814	O	3	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－815	O	3	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－816	O	3	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－817	O	3	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－818	O	3	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－819	O	3	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－820	O	3	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－821	O	3	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－822	O	3	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－823	O	3	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－824	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－825	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－826	O	3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－827	O	3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－828	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－829	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－830	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－831	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－832	O	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－833	O	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－834	O	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－835	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－836	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－837	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－838	O	3	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－839	O	3	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－840	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H

【表１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－841	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－842	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－843	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－844	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－845	O	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－846	O	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－847	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－848	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－849	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－850	O	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－851	O	3	F	H	H	H	H	H	H	H	H
(I)－852	O	3	H	F	H	H	H	H	H	H	H
(I)－853	O	3	H	H	F	H	H	H	H	H	H
(I)－854	O	3	H	H	H	F	H	H	H	H	H
(I)－855	O	3	H	H	H	H	F	H	H	H	H
(I)－856	O	3	H	H	H	H	H	F	H	H	H
(I)－857	O	3	H	H	H	H	H	H	F	H	H
(I)－858	O	3	F	F	H	H	H	H	H	H	H
(I)－859	O	3	F	H	F	H	H	H	H	H	H
(I)－860	O	3	F	H	H	F	H	H	H	H	H
(I)－861	O	3	F	H	H	H	F	H	H	H	H
(I)－862	O	3	F	H	H	H	H	F	H	H	H
(I)－863	O	3	F	H	H	H	H	H	F	H	H
(I)－864	O	3	F	F	F	H	H	H	H	H	H
(I)－865	O	3	H	F	F	H	H	H	H	H	H
(I)－866	O	3	H	F	H	F	H	H	H	H	H
(I)－867	O	3	H	F	H	H	F	H	H	H	H
(I)－868	O	3	H	F	H	H	H	F	H	H	H
(I)－869	O	3	H	F	H	H	H	H	F	H	H
(I)－870	O	3	H	H	F	F	H	H	H	H	H
(I)－871	O	3	H	H	F	H	F	H	H	H	H
(I)－872	O	3	H	H	F	H	H	F	H	H	H
(I)－873	O	3	H	H	F	H	H	H	F	H	H
(I)－874	O	3	H	H	H	F	F	H	H	H	H
(I)－875	O	3	H	H	H	F	H	F	H	H	H
(I)－876	O	3	H	H	H	F	H	H	F	H	H
(I)－877	O	3	H	H	H	H	F	F	H	H	H
(I)－878	O	3	H	H	H	H	F	H	F	H	H
(I)－879	O	3	H	H	H	H	F	H	H	F	H
(I)－880	O	3	H	H	H	H	F	H	H	H	F
(I)－881	S	3	H	H	H	H	H	H	H	H	H
(I)－882	S	3	CH_3	H	H	H	H	H	H	H	H
(I)－883	S	3	H	CH_3	H	H	H	H	H	H	H
(I)－884	S	3	H	H	CH_3	H	H	H	H	H	H
(I)－885	S	3	H	H	H	CH_3	H	H	H	H	H
(I)－886	S	3	H	H	H	H	CH_3	H	H	H	H
(I)－887	S	3	H	H	H	H	H	CH_3	H	H	H
(I)－888	S	3	H	H	H	H	H	H	CH_3	H	H
(I)－889	S	3	H	Ph	H	H	H	H	H	H	H
(I)－890	S	3	C_2H_5	H	H	H	H	H	H	H	H
(I)－891	S	3	H	C_2H_5	H	H	H	H	H	H	H
(I)－892	S	3	H	H	C_2H_5	H	H	H	H	H	H
(I)－893	S	3	H	H	H	C_2H_5	H	H	H	H	H
(I)－894	S	3	H	H	H	H	C_2H_5	H	H	H	H
(I)－895	S	3	H	H	H	H	H	C_2H_5	H	H	H
(I)－896	S	3	H	H	H	H	H	H	C_2H_5	H	H
(I)－897	S	3	C_3H_7	H	H	H	H	H	H	H	H
(I)－898	S	3	H	C_3H_7	H	H	H	H	H	H	H
(I)－899	S	3	H	H	C_3H_7	H	H	H	H	H	H
(I)－900	S	3	H	H	H	C_3H_7	H	H	H	H	H

【表１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－901	S	3	H	H	H	H	C_3H_7	H	H	H	H
(I)－902	S	3	H	H	H	H	H	C_3H_7	H	H	H
(I)－903	S	3	H	H	H	H	H	H	C_3H_7	H	H
(I)－904	S	3	C_4H_9	H	H	H	H	H	H	H	H
(I)－905	S	3	H	C_4H_9	H	H	H	H	H	H	H
(I)－906	S	3	H	H	C_4H_9	H	H	H	H	H	H
(I)－907	S	3	H	H	H	C_4H_9	H	H	H	H	H
(I)－908	S	3	H	H	H	H	C_4H_9	H	H	H	H
(I)－909	S	3	H	H	H	H	H	C_4H_9	H	H	H
(I)－910	S	3	H	H	H	H	H	H	C_4H_9	H	H
(I)－911	S	3	C_5H_{11}	H	H	H	H	H	H	H	H
(I)－912	S	3	H	C_5H_{11}	H	H	H	H	H	H	H
(I)－913	S	3	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－914	S	3	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－915	S	3	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－916	S	3	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－917	S	3	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－918	S	3	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－919	S	3	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－920	S	3	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－921	S	3	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－922	S	3	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－923	S	3	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－924	S	3	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－925	S	3	CH_3	CH_3	H	H	H	H	H	H	H
(I)－926	S	3	CH_3	H	CH_3	H	H	H	H	H	H
(I)－927	S	3	CH_3	H	H	CH_3	H	H	H	H	H
(I)－928	S	3	CH_3	H	H	H	CH_3	H	H	H	H
(I)－929	S	3	CH_3	H	H	H	H	CH_3	H	H	H
(I)－930	S	3	CH_3	H	H	H	H	H	CH_3	H	H
(I)－931	S	3	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－932	S	3	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－933	S	3	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－934	S	3	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－935	S	3	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－936	S	3	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－937	S	3	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－938	S	3	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－939	S	3	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－940	S	3	CH_3	H	H	CH_3	H	H	H	H	H
(I)－941	S	3	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－942	S	3	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－943	S	3	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－944	S	3	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－945	S	3	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－946	S	3	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－947	S	3	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－948	S	3	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－949	S	3	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－950	S	3	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－951	S	3	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－952	S	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－953	S	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－954	S	3	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－955	S	3	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－956	S	3	H	H	H	H	CH_3	CH_3	H	H	H
(I)－957	S	3	H	H	H	H	CH_3	H	CH_3	H	H
(I)－958	S	3	H	H	H	H	CH_3	H	H	CH_3	H
(I)－959	S	3	H	H	H	H	CH_3	H	H	H	CH_3
(I)－960	S	3	H	H	H	H	H	CH_3	CH_3	H	H

【表１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－961	S	3	H	H	H	H	H	CH_3	H	CH_3	H
(I)－962	S	3	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－963	S	3	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－964	S	3	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－965	S	3	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－966	S	3	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－967	S	3	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－968	S	3	H	CH_3	CH_3	H	H	H	H	H	H
(I)－969	S	3	H	CH_3	H	CH_3	H	H	H	H	H
(I)－970	S	3	H	CH_3	H	H	CH_3	H	H	H	H
(I)－971	S	3	H	CH_3	H	H	H	CH_3	H	H	H
(I)－972	S	3	H	CH_3	H	H	H	H	CH_3	H	H
(I)－973	S	3	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－974	S	3	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－975	S	3	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－976	S	3	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－977	S	3	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－978	S	3	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－979	S	3	H	H	CH_3	CH_3	H	H	H	H	H
(I)－980	S	3	H	H	CH_3	H	CH_3	H	H	H	H
(I)－981	S	3	H	H	CH_3	H	H	CH_3	H	H	H
(I)－982	S	3	H	H	CH_3	H	H	H	CH_3	H	H
(I)－983	S	3	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－984	S	3	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－985	S	3	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－986	S	3	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－987	S	3	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－988	S	3	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－989	S	3	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－990	S	3	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－991	S	3	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－992	S	3	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－993	S	3	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－994	S	3	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－995	S	3	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－996	S	3	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－997	S	3	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－998	S	3	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－999	S	3	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1000	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1001	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－1002	S	3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－1003	S	3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－1004	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－1005	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－1006	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－1007	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－1008	S	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－1009	S	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－1010	S	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－1011	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1012	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－1013	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－1014	S	3	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－1015	S	3	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－1016	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－1017	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－1018	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－1019	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－1020	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3

【表１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1021	S	3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1022	S	3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－1023	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－1024	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－1025	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－1026	S	3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1027	S	3	F	H	H	H	H	H	H	H	H
(I)－1028	S	3	H	F	H	H	H	H	H	H	H
(I)－1029	S	3	H	H	F	H	H	H	H	H	H
(I)－1030	S	3	H	H	H	F	H	H	H	H	H
(I)－1031	S	3	H	H	H	H	F	H	H	H	H
(I)－1032	S	3	H	H	H	H	H	F	H	H	H
(I)－1033	S	3	H	H	H	H	H	H	F	H	H
(I)－1034	S	3	F	F	H	H	H	H	H	H	H
(I)－1035	S	3	F	H	F	H	H	H	H	H	H
(I)－1036	S	3	F	H	H	F	H	H	H	H	H
(I)－1037	S	3	F	H	H	H	F	H	H	H	H
(I)－1038	S	3	F	H	H	H	H	F	H	H	H
(I)－1039	S	3	F	H	H	H	H	H	F	H	H
(I)－1040	S	3	F	F	F	H	H	H	H	H	H
(I)－1041	S	3	H	F	F	H	H	H	H	H	H
(I)－1042	S	3	H	F	H	F	H	H	H	H	H
(I)－1043	S	3	H	F	H	H	F	H	H	H	H
(I)－1044	S	3	H	F	H	H	H	F	H	H	H
(I)－1045	S	3	H	F	H	H	H	H	F	H	H
(I)－1046	S	3	H	H	F	F	H	H	H	H	H
(I)－1047	S	3	H	H	F	H	F	H	H	H	H
(I)－1048	S	3	H	H	F	H	H	F	H	H	H
(I)－1049	S	3	H	H	F	H	H	H	F	H	H
(I)－1050	S	3	H	H	H	F	F	H	H	H	H
(I)－1051	S	3	H	H	H	F	H	F	H	H	H
(I)－1052	S	3	H	H	H	F	H	H	F	H	H
(I)－1053	S	3	H	H	H	H	F	F	H	H	H
(I)－1054	S	3	H	H	H	H	F	H	F	H	H
(I)－1055	S	3	H	H	H	H	F	H	H	F	H
(I)－1056	S	3	H	H	H	H	F	H	H	H	F
(I)－1057	O	4	H	H	H	H	H	H	H	H	H
(I)－1058	O	4	CH_3	H	H	H	H	H	H	H	H
(I)－1059	O	4	H	CH_3	H	H	H	H	H	H	H
(I)－1060	O	4	H	H	CH_3	H	H	H	H	H	H
(I)－1061	O	4	H	H	H	CH_3	H	H	H	H	H
(I)－1062	O	4	H	H	H	H	CH_3	H	H	H	H
(I)－1063	O	4	H	H	H	H	H	CH_3	H	H	H
(I)－1064	O	4	H	H	H	H	H	H	CH_3	H	H
(I)－1065	O	4	H	Ph	H	H	H	H	H	H	H
(I)－1066	O	4	C_2H_5	H	H	H	H	H	H	H	H
(I)－1067	O	4	H	C_2H_5	H	H	H	H	H	H	H
(I)－1068	O	4	H	H	C_2H_5	H	H	H	H	H	H
(I)－1069	O	4	H	H	H	C_2H_5	H	H	H	H	H
(I)－1070	O	4	H	H	H	H	C_2H_5	H	H	H	H
(I)－1071	O	4	H	H	H	H	H	C_2H_5	H	H	H
(I)－1072	O	4	H	H	H	H	H	H	C_2H_5	H	H
(I)－1073	O	4	C_3H_7	H	H	H	H	H	H	H	H
(I)－1074	O	4	H	C_3H_7	H	H	H	H	H	H	H
(I)－1075	O	4	H	H	C_3H_7	H	H	H	H	H	H
(I)－1076	O	4	H	H	H	C_3H_7	H	H	H	H	H
(I)－1077	O	4	H	H	H	H	C_3H_7	H	H	H	H
(I)－1078	O	4	H	H	H	H	H	C_3H_7	H	H	H
(I)－1079	O	4	H	H	H	H	H	H	C_3H_7	H	H
(I)－1080	O	4	C_4H_9	H	H	H	H	H	H	H	H

【表１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1081	O	4	H	C_4H_9	H	H	H	H	H	H	H
(I)－1082	O	4	H	H	C_4H_9	H	H	H	H	H	H
(I)－1083	O	4	H	H	H	C_4H_9	H	H	H	H	H
(I)－1084	O	4	H	H	H	H	C_4H_9	H	H	H	H
(I)－1085	O	4	H	H	H	H	H	C_4H_9	H	H	H
(I)－1086	O	4	H	H	H	H	H	H	C_4H_9	H	H
(I)－1087	O	4	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－1088	O	4	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－1089	O	4	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－1090	O	4	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－1091	O	4	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－1092	O	4	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－1093	O	4	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－1094	O	4	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－1095	O	4	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－1096	O	4	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－1097	O	4	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－1098	O	4	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－1099	O	4	CH_3	CH_3	H	H	H	H	H	H	H
(I)－1100	O	4	CH_3	H	CH_3	H	H	H	H	H	H
(I)－1101	O	4	CH_3	H	H	CH_3	H	H	H	H	H
(I)－1102	O	4	CH_3	H	H	H	CH_3	H	H	H	H
(I)－1103	O	4	CH_3	H	H	H	H	CH_3	H	H	H
(I)－1104	O	4	CH_3	H	H	H	H	H	CH_3	H	H
(I)－1105	O	4	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－1106	O	4	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－1107	O	4	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－1108	O	4	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－1109	O	4	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－1110	O	4	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－1111	O	4	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－1112	O	4	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－1113	O	4	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－1114	O	4	CH_3	H	H	CH_3	H	H	H	H	H
(I)－1115	O	4	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－1116	O	4	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－1117	O	4	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－1118	O	4	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－1119	O	4	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－1120	O	4	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1121	O	4	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－1122	O	4	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－1123	O	4	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－1124	O	4	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1125	O	4	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1126	O	4	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－1127	O	4	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－1128	O	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1129	O	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1130	O	4	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－1131	O	4	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－1132	O	4	H	H	H	H	CH_3	CH_3	H	H	H
(I)－1133	O	4	H	H	H	H	CH_3	H	CH_3	H	H
(I)－1134	O	4	H	H	H	H	CH_3	H	H	CH_3	H
(I)－1135	O	4	H	H	H	H	CH_3	H	H	H	CH_3
(I)－1136	O	4	H	H	H	H	H	CH_3	CH_3	H	H
(I)－1137	O	4	H	H	H	H	H	CH_3	H	CH_3	H
(I)－1138	O	4	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－1139	O	4	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－1140	O	4	CH_3	H	H	H	CH_3	H	H	CH_3	H

【表２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1141	O	4	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－1142	O	4	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－1143	O	4	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－1144	O	4	H	CH_3	CH_3	H	H	H	H	H	H
(I)－1145	O	4	H	CH_3	H	CH_3	H	H	H	H	H
(I)－1146	O	4	H	CH_3	H	H	CH_3	H	H	H	H
(I)－1147	O	4	H	CH_3	H	H	H	CH_3	H	H	H
(I)－1148	O	4	H	CH_3	H	H	H	H	CH_3	H	H
(I)－1149	O	4	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－1150	O	4	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－1151	O	4	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－1152	O	4	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－1153	O	4	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－1154	O	4	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－1155	O	4	H	H	CH_3	CH_3	H	H	H	H	H
(I)－1156	O	4	H	H	CH_3	H	CH_3	H	H	H	H
(I)－1157	O	4	H	H	CH_3	H	H	CH_3	H	H	H
(I)－1158	O	4	H	H	CH_3	H	H	H	CH_3	H	H
(I)－1159	O	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1160	O	4	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－1161	O	4	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－1162	O	4	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－1163	O	4	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－1164	O	4	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－1165	O	4	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－1166	O	4	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－1167	O	4	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－1168	O	4	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1169	O	4	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－1170	O	4	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－1171	O	4	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－1172	O	4	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1173	O	4	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－1174	O	4	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－1175	O	4	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1176	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1177	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－1178	O	4	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－1179	O	4	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－1180	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－1181	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－1182	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－1183	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－1184	O	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－1185	O	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－1186	O	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－1187	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1188	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－1189	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－1190	O	4	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－1191	O	4	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－1192	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－1193	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－1194	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－1195	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－1196	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－1197	O	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1198	O	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－1199	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－1200	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3

【表２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1201	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－1202	O	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1203	O	4	F	H	H	H	H	H	H	H	H
(I)－1204	O	4	H	F	H	H	H	H	H	H	H
(I)－1205	O	4	H	H	F	H	H	H	H	H	H
(I)－1206	O	4	H	H	H	F	H	H	H	H	H
(I)－1207	O	4	H	H	H	H	F	H	H	H	H
(I)－1208	O	4	H	H	H	H	H	F	H	H	H
(I)－1209	O	4	H	H	H	H	H	H	F	H	H
(I)－1210	O	4	F	F	H	H	H	H	H	H	H
(I)－1211	O	4	F	H	F	H	H	H	H	H	H
(I)－1212	O	4	F	H	H	F	H	H	H	H	H
(I)－1213	O	4	F	H	H	H	F	H	H	H	H
(I)－1214	O	4	F	H	H	H	H	F	H	H	H
(I)－1215	O	4	F	H	H	H	H	H	F	H	H
(I)－1216	O	4	F	F	F	H	H	H	H	H	H
(I)－1217	O	4	H	F	F	H	H	H	H	H	H
(I)－1218	O	4	H	F	H	F	H	H	H	H	H
(I)－1219	O	4	H	F	H	H	F	H	H	H	H
(I)－1220	O	4	H	F	H	H	H	F	H	H	H
(I)－1221	O	4	H	F	H	H	H	H	F	H	H
(I)－1222	O	4	H	H	F	F	H	H	H	H	H
(I)－1223	O	4	H	H	F	H	F	H	H	H	H
(I)－1224	O	4	H	H	F	H	H	F	H	H	H
(I)－1225	O	4	H	H	F	H	H	H	F	H	H
(I)－1226	O	4	H	H	H	F	F	H	H	H	H
(I)－1227	O	4	H	H	H	F	H	F	H	H	H
(I)－1228	O	4	H	H	H	F	H	H	F	H	H
(I)－1229	O	4	H	H	H	H	F	F	H	H	H
(I)－1230	O	4	H	H	H	H	F	H	F	H	H
(I)－1231	O	4	H	H	H	H	F	H	H	F	H
(I)－1232	O	4	H	H	H	H	F	H	H	H	F
(I)－1233	S	4	H	H	H	H	H	H	H	H	H
(I)－1234	S	4	CH_3	H	H	H	H	H	H	H	H
(I)－1235	S	4	H	CH_3	H	H	H	H	H	H	H
(I)－1236	S	4	H	H	CH_3	H	H	H	H	H	H
(I)－1237	S	4	H	H	H	CH_3	H	H	H	H	H
(I)－1238	S	4	H	H	H	H	CH_3	H	H	H	H
(I)－1239	S	4	H	H	H	H	H	CH_3	H	H	H
(I)－1240	S	4	H	H	H	H	H	H	CH_3	H	H
(I)－1241	S	4	H	Ph	H	H	H	H	H	H	H
(I)－1242	S	4	C_2H_5	H	H	H	H	H	H	H	H
(I)－1243	S	4	H	C_2H_5	H	H	H	H	H	H	H
(I)－1244	S	4	H	H	C_2H_5	H	H	H	H	H	H
(I)－1245	S	4	H	H	H	C_2H_5	H	H	H	H	H
(I)－1246	S	4	H	H	H	H	C_2H_5	H	H	H	H
(I)－1247	S	4	H	H	H	H	H	C_2H_5	H	H	H
(I)－1248	S	4	H	H	H	H	H	H	C_2H_5	H	H
(I)－1249	S	4	C_3H_7	H	H	H	H	H	H	H	H
(I)－1250	S	4	H	C_3H_7	H	H	H	H	H	H	H
(I)－1251	S	4	H	H	C_3H_7	H	H	H	H	H	H
(I)－1252	S	4	H	H	H	C_3H_7	H	H	H	H	H
(I)－1253	S	4	H	H	H	H	C_3H_7	H	H	H	H
(I)－1254	S	4	H	H	H	H	H	C_3H_7	H	H	H
(I)－1255	S	4	H	H	H	H	H	H	C_3H_7	H	H
(I)－1256	S	4	C_4H_9	H	H	H	H	H	H	H	H
(I)－1257	S	4	H	C_4H_9	H	H	H	H	H	H	H
(I)－1258	S	4	H	H	C_4H_9	H	H	H	H	H	H
(I)－1259	S	4	H	H	H	C_4H_9	H	H	H	H	H
(I)－1260	S	4	H	H	H	H	C_4H_9	H	H	H	H

【表２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1261	S	4	H	H	H	H	H	C_4H_9	H	H	H
(I)－1262	S	4	H	H	H	H	H	H	C_4H_9	H	H
(I)－1263	S	4	C_5H_{11}	H	H	H	H	H	H	H	H
(I)－1264	S	4	H	C_5H_{11}	H	H	H	H	H	H	H
(I)－1265	S	4	H	H	C_5H_{11}	H	H	H	H	H	H
(I)－1266	S	4	H	H	H	C_5H_{11}	H	H	H	H	H
(I)－1267	S	4	H	H	H	H	C_5H_{11}	H	H	H	H
(I)－1268	S	4	H	H	H	H	H	C_5H_{11}	H	H	H
(I)－1269	S	4	H	H	H	H	H	H	C_5H_{11}	H	H
(I)－1270	S	4	C_6H_{13}	H	H	H	H	H	H	H	H
(I)－1271	S	4	H	C_6H_{13}	H	H	H	H	H	H	H
(I)－1272	S	4	H	H	C_6H_{13}	H	H	H	H	H	H
(I)－1273	S	4	H	H	H	C_6H_{13}	H	H	H	H	H
(I)－1274	S	4	H	H	H	H	C_6H_{13}	H	H	H	H
(I)－1275	S	4	H	H	H	H	H	C_6H_{13}	H	H	H
(I)－1276	S	4	H	H	H	H	H	H	C_6H_{13}	H	H
(I)－1277	S	4	CH_3	CH_3	H	H	H	H	H	H	H
(I)－1278	S	4	CH_3	H	CH_3	H	H	H	H	H	H
(I)－1279	S	4	CH_3	H	H	CH_3	H	H	H	H	H
(I)－1280	S	4	CH_3	H	H	H	CH_3	H	H	H	H
(I)－1281	S	4	CH_3	H	H	H	H	CH_3	H	H	H
(I)－1282	S	4	CH_3	H	H	H	H	H	CH_3	H	H
(I)－1283	S	4	CH_3	CH_3	CH_3	H	H	H	H	H	H
(I)－1284	S	4	CH_3	CH_3	H	CH_3	H	H	H	H	H
(I)－1285	S	4	CH_3	CH_3	H	H	CH_3	H	H	H	H
(I)－1286	S	4	CH_3	CH_3	H	H	H	CH_3	H	H	H
(I)－1287	S	4	CH_3	CH_3	H	H	H	H	CH_3	H	H
(I)－1288	S	4	CH_3	H	CH_3	CH_3	H	H	H	H	H
(I)－1289	S	4	CH_3	H	CH_3	H	CH_3	H	H	H	H
(I)－1290	S	4	CH_3	H	CH_3	H	H	CH_3	H	H	H
(I)－1291	S	4	CH_3	H	CH_3	H	H	H	CH_3	H	H
(I)－1292	S	4	CH_3	H	H	CH_3	H	H	H	H	H
(I)－1293	S	4	CH_3	H	H	CH_3	CH_3	H	H	H	H
(I)－1294	S	4	CH_3	H	H	CH_3	H	CH_3	H	H	H
(I)－1295	S	4	CH_3	H	H	CH_3	H	H	CH_3	H	H
(I)－1296	S	4	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1297	S	4	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－1298	S	4	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－1299	S	4	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－1300	S	4	H	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1301	S	4	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1302	S	4	H	CH_3	CH_3	CH_3	H	CH_3	H	H	H
(I)－1303	S	4	H	CH_3	CH_3	CH_3	H	H	CH_3	H	H
(I)－1304	S	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1305	S	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1306	S	4	H	H	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－1307	S	4	H	H	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－1308	S	4	H	H	H	H	CH_3	CH_3	H	H	H
(I)－1309	S	4	H	H	H	H	CH_3	H	CH_3	H	H
(I)－1310	S	4	H	H	H	H	CH_3	H	H	CH_3	H
(I)－1311	S	4	H	H	H	H	CH_3	H	H	H	CH_3
(I)－1312	S	4	H	H	H	H	H	CH_3	CH_3	H	H
(I)－1313	S	4	H	H	H	H	H	CH_3	H	CH_3	H
(I)－1314	S	4	CH_3	H	H	H	CH_3	CH_3	H	H	H
(I)－1315	S	4	CH_3	H	H	H	CH_3	H	CH_3	H	H
(I)－1316	S	4	CH_3	H	H	H	CH_3	H	H	CH_3	H
(I)－1317	S	4	CH_3	H	H	H	CH_3	H	H	H	CH_3
(I)－1318	S	4	CH_3	H	H	H	H	CH_3	CH_3	H	H
(I)－1319	S	4	CH_3	H	H	H	H	CH_3	H	CH_3	H
(I)－1320	S	4	H	CH_3	CH_3	H	H	H	H	H	H

【表２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1321	S	4	H	CH_3	H	CH_3	H	H	H	H	H
(I)－1322	S	4	H	CH_3	H	H	CH_3	H	H	H	H
(I)－1323	S	4	H	CH_3	H	H	H	CH_3	H	H	H
(I)－1324	S	4	H	CH_3	H	H	H	H	CH_3	H	H
(I)－1325	S	4	H	CH_3	H	H	CH_3	CH_3	H	H	H
(I)－1326	S	4	H	CH_3	H	H	CH_3	H	CH_3	H	H
(I)－1327	S	4	H	CH_3	H	H	CH_3	H	H	CH_3	H
(I)－1328	S	4	H	CH_3	H	H	CH_3	H	H	H	CH_3
(I)－1329	S	4	H	CH_3	H	H	H	CH_3	CH_3	H	H
(I)－1330	S	4	H	CH_3	H	H	H	CH_3	H	CH_3	H
(I)－1331	S	4	H	H	CH_3	CH_3	H	H	H	H	H
(I)－1332	S	4	H	H	CH_3	H	CH_3	H	H	H	H
(I)－1333	S	4	H	H	CH_3	H	H	CH_3	H	H	H
(I)－1334	S	4	H	H	CH_3	H	H	H	CH_3	H	H
(I)－1335	S	4	H	H	CH_3	CH_3	CH_3	H	H	H	H
(I)－1336	S	4	H	H	CH_3	CH_3	H	CH_3	H	H	H
(I)－1337	S	4	H	H	CH_3	CH_3	H	H	CH_3	H	H
(I)－1338	S	4	H	H	CH_3	H	CH_3	CH_3	H	H	H
(I)－1339	S	4	H	H	CH_3	H	CH_3	H	CH_3	H	H
(I)－1340	S	4	H	H	CH_3	H	CH_3	H	H	CH_3	H
(I)－1341	S	4	H	H	CH_3	H	CH_3	H	H	H	CH_3
(I)－1342	S	4	H	H	CH_3	H	H	CH_3	CH_3	H	H
(I)－1343	S	4	H	H	CH_3	H	H	CH_3	H	CH_3	H
(I)－1344	S	4	CH_3	CH_3	CH_3	CH_3	H	H	H	H	H
(I)－1345	S	4	CH_3	CH_3	CH_3	H	CH_3	H	H	H	H
(I)－1346	S	4	CH_3	CH_3	CH_3	H	H	CH_3	H	H	H
(I)－1347	S	4	CH_3	CH_3	CH_3	H	H	H	CH_3	H	H
(I)－1348	S	4	H	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1349	S	4	H	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－1350	S	4	H	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－1351	S	4	H	H	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1352	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	H
(I)－1353	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	H
(I)－1354	S	4	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H	H
(I)－1355	S	4	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3	H
(I)－1356	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H
(I)－1357	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H
(I)－1358	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3	H
(I)－1359	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	H	CH_3
(I)－1360	S	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H
(I)－1361	S	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	CH_3	H
(I)－1362	S	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	H	H	CH_3
(I)－1363	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	H
(I)－1364	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	CH_3	H
(I)－1365	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	H	H	CH_3
(I)－1366	S	4	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	CH_3	H
(I)－1367	S	4	CH_3	CH_3	CH_3	H	H	CH_3	CH_3	H	CH_3
(I)－1368	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H
(I)－1369	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	H
(I)－1370	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	H	CH_3
(I)－1371	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	H
(I)－1372	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	H	CH_3
(I)－1373	S	4	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1374	S	4	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3	CH_3
(I)－1375	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3	CH_3
(I)－1376	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H	CH_3	CH_3
(I)－1377	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	H
(I)－1378	S	4	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3	CH_3
(I)－1379	S	4	F	H	H	H	H	H	H	H	H
(I)－1380	S	4	H	F	H	H	H	H	H	H	H

【表２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1381	S	4	H	H	F	H	H	H	H	H	H
(I)－1382	S	4	H	H	H	F	H	H	H	H	H
(I)－1383	S	4	H	H	H	H	F	H	H	H	H
(I)－1384	S	4	H	H	H	H	H	F	H	H	H
(I)－1385	S	4	H	H	H	H	H	H	F	H	H
(I)－1386	S	4	F	F	H	H	H	H	H	H	H
(I)－1387	S	4	F	H	F	H	H	H	H	H	H
(I)－1388	S	4	F	H	H	F	H	H	H	H	H
(I)－1389	S	4	F	H	H	H	F	H	H	H	H
(I)－1390	S	4	F	H	H	H	H	F	H	H	H
(I)－1391	S	4	F	H	H	H	H	H	F	H	H
(I)－1392	S	4	F	F	F	H	H	H	H	H	H
(I)－1393	S	4	H	F	F	H	H	H	H	H	H
(I)－1394	S	4	H	F	H	F	H	H	H	H	H
(I)－1395	S	4	H	F	H	H	F	H	H	H	H
(I)－1396	S	4	H	F	H	H	H	F	H	H	H
(I)－1397	S	4	H	F	H	H	H	H	F	H	H
(I)－1398	S	4	H	H	F	F	H	H	H	H	H
(I)－1399	S	4	H	H	F	H	F	H	H	H	H
(I)－1400	S	4	H	H	F	H	H	F	H	H	H
(I)－1401	S	4	H	H	F	H	H	H	F	H	H
(I)－1402	S	4	H	H	H	F	F	H	H	H	H
(I)－1403	S	4	H	H	H	F	H	F	H	H	H
(I)－1404	S	4	H	H	H	F	H	H	F	H	H
(I)－1405	S	4	H	H	H	H	F	F	H	H	H
(I)－1406	S	4	H	H	H	H	F	H	F	H	H
(I)－1407	S	4	H	H	H	H	F	H	H	F	H
(I)－1408	S	4	H	H	H	H	F	H	H	H	F
(I)－1409	O	1	CH_3	Ph	H	H	H	H	H	H	H
(I)－1410	O	1	H	Ph	CH_3	H	H	H	H	H	H
(I)－1411	O	1	H	Ph	H	CH_3	H	H	H	H	H
(I)－1412	O	1	H	Ph	H	H	CH_3	H	H	H	H
(I)－1413	O	1	H	Ph	H	H	H	CH_3	H	H	H
(I)－1414	O	1	H	Ph	H	H	H	H	CH_3	H	H
(I)－1415	O	1	H	Tol	H	H	H	H	H	H	H
(I)－1416	O	1	CH_3	Tol	H	H	H	H	H	H	H
(I)－1417	O	1	H	Tol	CH_3	H	H	H	H	H	H
(I)－1418	O	1	H	Tol	H	CH_3	H	H	H	H	H
(I)－1419	O	1	H	Tol	H	H	CH_3	H	H	H	H
(I)－1420	O	1	H	Tol	H	H	H	CH_3	H	H	H
(I)－1421	O	1	H	Tol	H	H	H	H	CH_3	H	H
(I)－1422	O	1	H	Phen	H	H	H	H	H	H	H
(I)－1423	O	1	CH_3	Phen	H	H	H	H	H	H	H
(I)－1424	O	1	H	Phen	CH_3	H	H	H	H	H	H
(I)－1425	O	1	H	Phen	H	CH_3	H	H	H	H	H
(I)－1426	O	1	H	Phen	H	H	CH_3	H	H	H	H
(I)－1427	O	1	H	Phen	H	H	H	CH_3	H	H	H
(I)－1428	O	1	H	Phen	H	H	H	H	CH_3	H	H
(I)－1429	O	1	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1430	O	1	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1431	O	1	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1432	O	1	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1433	O	1	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1434	O	1	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1435	O	1	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－1436	O	1	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1437	O	1	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1438	O	1	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1439	O	1	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1440	O	1	CH_3	Phen	H	CH_3	H	H	H	H	H

【表２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1441	O	1	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1442	O	1	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1443	O	1	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1444	O	1	F	Ph	H	H	H	H	H	H	H
(I)－1445	O	1	H	Ph	F	H	H	H	H	H	H
(I)－1446	O	1	H	Ph	H	F	H	H	H	H	H
(I)－1447	O	1	H	Ph	H	H	F	H	H	H	H
(I)－1448	O	1	H	Ph	H	H	H	F	H	H	H
(I)－1449	O	1	H	Ph	H	H	H	H	F	H	H
(I)－1450	O	1	F	Ph	F	H	H	H	H	H	H
(I)－1451	O	1	F	Ph	H	F	H	H	H	H	H
(I)－1452	O	1	F	Ph	H	H	F	H	H	H	H
(I)－1453	O	1	F	Ph	H	H	H	F	H	H	H
(I)－1454	O	1	F	Ph	H	H	H	H	F	H	H
(I)－1455	O	1	H	Ph	F	F	H	H	H	H	H
(I)－1456	O	1	H	Ph	F	H	F	H	H	H	H
(I)－1457	O	1	H	Ph	F	H	H	F	H	H	H
(I)－1458	O	1	H	Ph	F	H	H	H	F	H	H
(I)－1459	O	1	H	Ph	H	F	F	H	H	H	H
(I)－1460	O	1	H	Ph	H	F	H	F	H	H	H
(I)－1461	O	1	H	Ph	H	F	H	H	F	H	H
(I)－1462	O	1	H	Ph	H	H	F	F	H	H	H
(I)－1463	O	1	H	Ph	H	H	F	H	F	H	H
(I)－1464	O	1	H	Ph	H	H	F	H	H	F	H
(I)－1465	O	1	H	Ph	H	H	F	H	H	H	F
(I)－1466	O	1	H	Ph	H	H	H	F	F	H	H
(I)－1467	O	1	H	Ph	H	H	H	F	H	F	H
(I)－1468	O	1	H	Ph	H	H	H	F	H	H	F
(I)－1469	O	1	H	Ph	H	H	H	H	F	F	H
(I)－1470	O	1	H	Ph	H	H	H	H	F	H	F
(I)－1471	O	1	H	Ph	H	H	H	H	H	F	F
(I)－1472	O	1	F	Tol	H	H	H	H	H	H	H
(I)－1473	O	1	H	Tol	F	H	H	H	H	H	H
(I)－1474	O	1	H	Tol	H	F	H	H	H	H	H
(I)－1475	O	1	H	Tol	H	H	F	H	H	H	H
(I)－1476	O	1	H	Tol	H	H	H	F	H	H	H
(I)－1477	O	1	H	Tol	H	H	H	H	F	H	H
(I)－1478	O	1	F	Tol	F	H	H	H	H	H	H
(I)－1479	O	1	F	Tol	H	F	H	H	H	H	H
(I)－1480	O	1	F	Tol	H	H	F	H	H	H	H
(I)－1481	O	1	F	Tol	H	H	H	F	H	H	H
(I)－1482	O	1	F	Tol	H	H	H	H	F	H	H
(I)－1483	O	1	H	Tol	F	F	H	H	H	H	H
(I)－1484	O	1	H	Tol	F	H	F	H	H	H	H
(I)－1485	O	1	H	Tol	F	H	H	F	H	H	H
(I)－1486	O	1	H	Tol	F	H	H	H	F	H	H
(I)－1487	O	1	H	Tol	H	F	F	H	H	H	H
(I)－1488	O	1	H	Tol	H	F	H	F	H	H	H
(I)－1489	O	1	H	Tol	H	F	H	H	F	H	H
(I)－1490	O	1	H	Tol	H	H	F	F	H	H	H
(I)－1491	O	1	H	Tol	H	H	F	H	F	H	H
(I)－1492	O	1	H	Tol	H	H	F	H	H	F	H
(I)－1493	O	1	H	Tol	H	H	F	H	H	H	F
(I)－1494	O	1	H	Tol	H	H	H	F	F	H	H
(I)－1495	O	1	H	Tol	H	H	H	F	H	F	H
(I)－1496	O	1	H	Tol	H	H	H	F	H	H	F
(I)－1497	O	1	H	Tol	H	H	H	H	F	F	H
(I)－1498	O	1	H	Tol	H	H	H	H	F	H	F
(I)－1499	O	1	H	Tol	H	H	H	H	H	F	F
(I)－1500	O	1	F	Phen	H	H	H	H	H	H	H

【表２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1501	O	1	H	Phen	F	H	H	H	H	H	H
(I)－1502	O	1	H	Phen	H	F	H	H	H	H	H
(I)－1503	O	1	H	Phen	H	H	F	H	H	H	H
(I)－1504	O	1	H	Phen	H	H	H	F	H	H	H
(I)－1505	O	1	H	Phen	H	H	H	H	F	H	H
(I)－1506	O	1	F	Phen	F	H	H	H	H	H	H
(I)－1507	O	1	F	Phen	H	F	H	H	H	H	H
(I)－1508	O	1	F	Phen	H	H	F	H	H	H	H
(I)－1509	O	1	F	Phen	H	H	H	F	H	H	H
(I)－1510	O	1	F	Phen	H	H	H	H	F	H	H
(I)－1511	O	1	H	Phen	F	F	H	H	H	H	H
(I)－1512	O	1	H	Phen	F	H	F	H	H	H	H
(I)－1513	O	1	H	Phen	F	H	H	F	H	H	H
(I)－1514	O	1	H	Phen	F	H	H	H	F	H	H
(I)－1515	O	1	H	Phen	H	F	F	H	H	H	H
(I)－1516	O	1	H	Phen	H	F	H	F	H	H	H
(I)－1517	O	1	H	Phen	H	F	H	H	F	H	H
(I)－1518	S	1	CH_3	Ph	H	H	H	H	H	H	H
(I)－1519	S	1	H	Ph	CH_3	H	H	H	H	H	H
(I)－1520	S	1	H	Ph	H	CH_3	H	H	H	H	H
(I)－1521	S	1	H	Ph	H	H	CH_3	H	H	H	H
(I)－1522	S	1	H	Ph	H	H	H	CH_3	H	H	H
(I)－1523	S	1	H	Ph	H	H	H	H	CH_3	H	H
(I)－1524	S	1	H	Tol	H	H	H	H	H	H	H
(I)－1525	S	1	CH_3	Tol	H	H	H	H	H	H	H
(I)－1526	S	1	H	Tol	CH_3	H	H	H	H	H	H
(I)－1527	S	1	H	Tol	H	CH_3	H	H	H	H	H
(I)－1528	S	1	H	Tol	H	H	CH_3	H	H	H	H
(I)－1529	S	1	H	Tol	H	H	H	CH_3	H	H	H
(I)－1530	S	1	H	Tol	H	H	H	H	CH_3	H	H
(I)－1531	S	1	H	Phen	H	H	H	H	H	H	H
(I)－1532	S	1	CH_3	Phen	H	H	H	H	H	H	H
(I)－1533	S	1	H	Phen	CH_3	H	H	H	H	H	H
(I)－1534	S	1	H	Phen	H	CH_3	H	H	H	H	H
(I)－1535	S	1	H	Phen	H	H	CH_3	H	H	H	H
(I)－1536	S	1	H	Phen	H	H	H	CH_3	H	H	H
(I)－1537	S	1	H	Phen	H	H	H	H	CH_3	H	H
(I)－1538	S	1	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1539	S	1	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1540	S	1	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1541	S	1	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1542	S	1	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1543	S	1	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1544	S	1	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－1545	S	1	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1546	S	1	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1547	S	1	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1548	S	1	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1549	S	1	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－1550	S	1	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1551	S	1	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1552	S	1	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1553	S	1	F	Ph	H	H	H	H	H	H	H
(I)－1554	S	1	H	Ph	F	H	H	H	H	H	H
(I)－1555	S	1	H	Ph	H	F	H	H	H	H	H
(I)－1556	S	1	H	Ph	H	H	F	H	H	H	H
(I)－1557	S	1	H	Ph	H	H	H	F	H	H	H
(I)－1558	S	1	H	Ph	H	H	H	H	F	H	H
(I)－1559	S	1	F	Ph	F	H	H	H	H	H	H
(I)－1560	S	1	F	Ph	H	F	H	H	H	H	H

【表２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1561	S	1	F	Ph	H	H	F	H	H	H	H
(I)－1562	S	1	F	Ph	H	H	H	F	H	H	H
(I)－1563	S	1	F	Ph	H	H	H	H	F	H	H
(I)－1564	S	1	H	Ph	F	F	H	H	H	H	H
(I)－1565	S	1	H	Ph	F	H	F	H	H	H	H
(I)－1566	S	1	H	Ph	F	H	H	F	H	H	H
(I)－1567	S	1	H	Ph	F	H	H	H	F	H	H
(I)－1568	S	1	H	Ph	H	F	F	H	H	H	H
(I)－1569	S	1	H	Ph	H	F	H	F	H	H	H
(I)－1570	S	1	H	Ph	H	F	H	H	F	H	H
(I)－1571	S	1	H	Ph	H	H	F	F	H	H	H
(I)－1572	S	1	H	Ph	H	H	F	H	F	H	H
(I)－1573	S	1	H	Ph	H	H	F	H	H	F	H
(I)－1574	S	1	H	Ph	H	H	F	H	H	H	F
(I)－1575	S	1	H	Ph	H	H	H	F	F	H	H
(I)－1576	S	1	H	Ph	H	H	H	F	H	F	H
(I)－1577	S	1	H	Ph	H	H	H	F	H	H	F
(I)－1578	S	1	H	Ph	H	H	H	H	F	F	H
(I)－1579	S	1	H	Ph	H	H	H	H	F	H	F
(I)－1580	S	1	H	Ph	H	H	H	H	H	F	F
(I)－1581	S	1	F	Tol	H	H	H	H	H	H	H
(I)－1582	S	1	H	Tol	F	H	H	H	H	H	H
(I)－1583	S	1	H	Tol	H	F	H	H	H	H	H
(I)－1584	S	1	H	Tol	H	H	F	H	H	H	H
(I)－1585	S	1	H	Tol	H	H	H	F	H	H	H
(I)－1586	S	1	H	Tol	H	H	H	H	F	H	H
(I)－1587	S	1	F	Tol	F	H	H	H	H	H	H
(I)－1588	S	1	F	Tol	H	F	H	H	H	H	H
(I)－1589	S	1	F	Tol	H	H	F	H	H	H	H
(I)－1590	S	1	F	Tol	H	H	H	F	H	H	H
(I)－1591	S	1	F	Tol	H	H	H	H	F	H	H
(I)－1592	S	1	H	Tol	F	F	H	H	H	H	H
(I)－1593	S	1	H	Tol	F	H	F	H	H	H	H
(I)－1594	S	1	H	Tol	F	H	H	F	H	H	H
(I)－1595	S	1	H	Tol	F	H	H	H	F	H	H
(I)－1596	S	1	H	Tol	H	F	F	H	H	H	H
(I)－1597	S	1	H	Tol	H	F	H	F	H	H	H
(I)－1598	S	1	H	Tol	H	F	H	H	F	H	H
(I)－1599	S	1	H	Tol	H	H	F	F	H	H	H
(I)－1600	S	1	H	Tol	H	H	F	H	F	H	H
(I)－1601	S	1	H	Tol	H	H	F	H	H	F	H
(I)－1602	S	1	H	Tol	H	H	F	H	H	H	F
(I)－1603	S	1	H	Tol	H	H	H	F	F	H	H
(I)－1604	S	1	H	Tol	H	H	H	F	H	F	H
(I)－1605	S	1	H	Tol	H	H	H	F	H	H	F
(I)－1606	S	1	H	Tol	H	H	H	H	F	F	H
(I)－1607	S	1	H	Tol	H	H	H	H	F	H	F
(I)－1608	S	1	H	Tol	H	H	H	H	H	F	F
(I)－1609	S	1	F	Phen	H	H	H	H	H	H	H
(I)－1610	S	1	H	Phen	F	H	H	H	H	H	H
(I)－1611	S	1	H	Phen	H	F	H	H	H	H	H
(I)－1612	S	1	H	Phen	H	H	F	H	H	H	H
(I)－1613	S	1	H	Phen	H	H	H	F	H	H	H
(I)－1614	S	1	H	Phen	H	H	H	H	F	H	H
(I)－1615	S	1	F	Phen	F	H	H	H	H	H	H
(I)－1616	S	1	F	Phen	H	F	H	H	H	H	H
(I)－1617	S	1	F	Phen	H	H	F	H	H	H	H
(I)－1618	S	1	F	Phen	H	H	H	F	H	H	H
(I)－1619	S	1	F	Phen	H	H	H	H	F	H	H
(I)－1620	S	1	H	Phen	F	F	H	H	H	H	H

【表２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1621	S	1	H	Phen	F	H	F	H	H	H	H
(I)－1622	S	1	H	Phen	F	H	H	F	H	H	H
(I)－1623	S	1	H	Phen	F	H	H	H	F	H	H
(I)－1624	S	1	H	Phen	H	F	F	H	H	H	H
(I)－1625	S	1	H	Phen	H	F	H	F	H	H	H
(I)－1626	S	1	H	Phen	H	F	H	H	F	H	H
(I)－1627	O	2	CH_3	Ph	H	H	H	H	H	H	H
(I)－1628	O	2	H	Ph	CH_3	H	H	H	H	H	H
(I)－1629	O	2	H	Ph	H	CH_3	H	H	H	H	H
(I)－1630	O	2	H	Ph	H	H	CH_3	H	H	H	H
(I)－1631	O	2	H	Ph	H	H	H	CH_3	H	H	H
(I)－1632	O	2	H	Ph	H	H	H	H	CH_3	H	H
(I)－1633	O	2	H	Tol	H	H	H	H	H	H	H
(I)－1634	O	2	CH_3	Tol	H	H	H	H	H	H	H
(I)－1635	O	2	H	Tol	CH_3	H	H	H	H	H	H
(I)－1636	O	2	H	Tol	H	CH_3	H	H	H	H	H
(I)－1637	O	2	H	Tol	H	H	CH_3	H	H	H	H
(I)－1638	O	2	H	Tol	H	H	H	CH_3	H	H	H
(I)－1639	O	2	H	Tol	H	H	H	H	CH_3	H	H
(I)－1640	O	2	H	Phen	H	H	H	H	H	H	H
(I)－1641	O	2	CH_3	Phen	H	H	H	H	H	H	H
(I)－1642	O	2	H	Phen	CH_3	H	H	H	H	H	H
(I)－1643	O	2	H	Phen	H	CH_3	H	H	H	H	H
(I)－1644	O	2	H	Phen	H	H	CH_3	H	H	H	H
(I)－1645	O	2	H	Phen	H	H	H	CH_3	H	H	H
(I)－1646	O	2	H	Phen	H	H	H	H	CH_3	H	H
(I)－1647	O	2	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1648	O	2	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1649	O	2	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1650	O	2	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1651	O	2	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1652	O	2	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1653	O	2	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－1654	O	2	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1655	O	2	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1656	O	2	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1657	O	2	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1658	O	2	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－1659	O	2	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1660	O	2	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1661	O	2	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1662	O	2	F	Ph	H	H	H	H	H	H	H
(I)－1663	O	2	H	Ph	F	H	H	H	H	H	H
(I)－1664	O	2	H	Ph	H	F	H	H	H	H	H
(I)－1665	O	2	H	Ph	H	H	F	H	H	H	H
(I)－1666	O	2	H	Ph	H	H	H	F	H	H	H
(I)－1667	O	2	H	Ph	H	H	H	H	F	H	H
(I)－1668	O	2	F	Ph	F	H	H	H	H	H	H
(I)－1669	O	2	F	Ph	H	F	H	H	H	H	H
(I)－1670	O	2	F	Ph	H	H	F	H	H	H	H
(I)－1671	O	2	F	Ph	H	H	H	F	H	H	H
(I)－1672	O	2	F	Ph	H	H	H	H	F	H	H
(I)－1673	O	2	H	Ph	F	F	H	H	H	H	H
(I)－1674	O	2	H	Ph	F	H	F	H	H	H	H
(I)－1675	O	2	H	Ph	F	H	H	F	H	H	H
(I)－1676	O	2	H	Ph	F	H	H	H	F	H	H
(I)－1677	O	2	H	Ph	H	F	F	H	H	H	H
(I)－1678	O	2	H	Ph	H	F	H	F	H	H	H
(I)－1679	O	2	H	Ph	H	F	H	H	F	H	H
(I)－1680	O	2	H	Ph	H	H	F	F	H	H	H

【表２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1681	O	2	H	Ph	H	H	F	H	F	H	H
(I)－1682	O	2	H	Ph	H	H	F	H	H	F	H
(I)－1683	O	2	H	Ph	H	H	F	H	H	H	F
(I)－1684	O	2	H	Ph	H	H	H	F	F	H	H
(I)－1685	O	2	H	Ph	H	H	H	F	H	F	H
(I)－1686	O	2	H	Ph	H	H	H	F	H	H	F
(I)－1687	O	2	H	Ph	H	H	H	H	F	F	H
(I)－1688	O	2	H	Ph	H	H	H	H	F	H	F
(I)－1689	O	2	H	Ph	H	H	H	H	H	F	F
(I)－1690	O	2	F	Tol	H	H	H	H	H	H	H
(I)－1691	O	2	H	Tol	F	H	H	H	H	H	H
(I)－1692	O	2	H	Tol	H	F	H	H	H	H	H
(I)－1693	O	2	H	Tol	H	H	F	H	H	H	H
(I)－1694	O	2	H	Tol	H	H	H	F	H	H	H
(I)－1695	O	2	H	Tol	H	H	H	H	F	H	H
(I)－1696	O	2	F	Tol	F	H	H	H	H	H	H
(I)－1697	O	2	F	Tol	H	F	H	H	H	H	H
(I)－1698	O	2	F	Tol	H	H	F	H	H	H	H
(I)－1699	O	2	F	Tol	H	H	H	F	H	H	H
(I)－1700	O	2	F	Tol	H	H	H	H	F	H	H
(I)－1701	O	2	H	Tol	F	F	H	H	H	H	H
(I)－1702	O	2	H	Tol	F	H	F	H	H	H	H
(I)－1703	O	2	H	Tol	F	H	H	F	H	H	H
(I)－1704	O	2	H	Tol	F	H	H	H	F	H	H
(I)－1705	O	2	H	Tol	H	F	F	H	H	H	H
(I)－1706	O	2	H	Tol	H	F	H	F	H	H	H
(I)－1707	O	2	H	Tol	H	F	H	H	F	H	H
(I)－1708	O	2	H	Tol	H	H	F	F	H	H	H
(I)－1709	O	2	H	Tol	H	H	F	H	F	H	H
(I)－1710	O	2	H	Tol	H	H	F	H	H	F	H
(I)－1711	O	2	H	Tol	H	H	F	H	H	H	F
(I)－1712	O	2	H	Tol	H	H	H	F	F	H	H
(I)－1713	O	2	H	Tol	H	H	H	F	H	F	H
(I)－1714	O	2	H	Tol	H	H	H	F	H	H	F
(I)－1715	O	2	H	Tol	H	H	H	H	F	F	H
(I)－1716	O	2	H	Tol	H	H	H	H	F	H	F
(I)－1717	O	2	H	Tol	H	H	H	H	H	F	F
(I)－1718	O	2	F	Phen	H	H	H	H	H	H	H
(I)－1719	O	2	H	Phen	F	H	H	H	H	H	H
(I)－1720	O	2	H	Phen	H	F	H	H	H	H	H
(I)－1721	O	2	H	Phen	H	H	F	H	H	H	H
(I)－1722	O	2	H	Phen	H	H	H	F	H	H	H
(I)－1723	O	2	H	Phen	H	H	H	H	F	H	H
(I)－1724	O	2	F	Phen	F	H	H	H	H	H	H
(I)－1725	O	2	F	Phen	H	F	H	H	H	H	H
(I)－1726	O	2	F	Phen	H	H	F	H	H	H	H
(I)－1727	O	2	F	Phen	H	H	H	F	H	H	H
(I)－1728	O	2	F	Phen	H	H	H	H	F	H	H
(I)－1729	O	2	H	Phen	F	F	H	H	H	H	H
(I)－1730	O	2	H	Phen	F	H	F	H	H	H	H
(I)－1731	O	2	H	Phen	F	H	H	F	H	H	H
(I)－1732	O	2	H	Phen	F	H	H	H	F	H	H
(I)－1733	O	2	H	Phen	H	F	F	H	H	H	H
(I)－1734	O	2	H	Phen	H	F	H	F	H	H	H
(I)－1735	O	2	H	Phen	H	F	H	H	F	H	H
(I)－1736	S	2	CH_3	Ph	H	H	H	H	H	H	H
(I)－1737	S	2	H	Ph	CH_3	H	H	H	H	H	H
(I)－1738	S	2	H	Ph	H	CH_3	H	H	H	H	H
(I)－1739	S	2	H	Ph	H	H	CH_3	H	H	H	H
(I)－1740	S	2	H	Ph	H	H	H	CH_3	H	H	H

【表３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1741	S	2	H	Ph	H	H	H	H	CH_3	H	H
(I)－1742	S	2	H	Tol	H	H	H	H	H	H	H
(I)－1743	S	2	CH_3	Tol	H	H	H	H	H	H	H
(I)－1744	S	2	H	Tol	CH_3	H	H	H	H	H	H
(I)－1745	S	2	H	Tol	H	CH_3	H	H	H	H	H
(I)－1746	S	2	H	Tol	H	H	CH_3	H	H	H	H
(I)－1747	S	2	H	Tol	H	H	H	CH_3	H	H	H
(I)－1748	S	2	H	Tol	H	H	H	H	CH_3	H	H
(I)－1749	S	2	H	Phen	H	H	H	H	H	H	H
(I)－1750	S	2	CH_3	Phen	H	H	H	H	H	H	H
(I)－1751	S	2	H	Phen	CH_3	H	H	H	H	H	H
(I)－1752	S	2	H	Phen	H	CH_3	H	H	H	H	H
(I)－1753	S	2	H	Phen	H	H	CH_3	H	H	H	H
(I)－1754	S	2	H	Phen	H	H	H	CH_3	H	H	H
(I)－1755	S	2	H	Phen	H	H	H	H	CH_3	H	H
(I)－1756	S	2	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1757	S	2	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1758	S	2	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1759	S	2	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1760	S	2	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1761	S	2	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1762	S	2	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－1763	S	2	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1764	S	2	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1765	S	2	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1766	S	2	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1767	S	2	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－1768	S	2	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1769	S	2	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1770	S	2	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1771	S	2	F	Ph	H	H	H	H	H	H	H
(I)－1772	S	2	H	Ph	F	H	H	H	H	H	H
(I)－1773	S	2	H	Ph	H	F	H	H	H	H	H
(I)－1774	S	2	H	Ph	H	H	F	H	H	H	H
(I)－1775	S	2	H	Ph	H	H	H	F	H	H	H
(I)－1776	S	2	H	Ph	H	H	H	H	F	H	H
(I)－1777	S	2	F	Ph	F	H	H	H	H	H	H
(I)－1778	S	2	F	Ph	H	F	H	H	H	H	H
(I)－1779	S	2	F	Ph	H	H	F	H	H	H	H
(I)－1780	S	2	F	Ph	H	H	H	F	H	H	H
(I)－1781	S	2	F	Ph	H	H	H	H	F	H	H
(I)－1782	S	2	H	Ph	F	F	H	H	H	H	H
(I)－1783	S	2	H	Ph	F	H	F	H	H	H	H
(I)－1784	S	2	H	Ph	F	H	H	F	H	H	H
(I)－1785	S	2	H	Ph	F	H	H	H	F	H	H
(I)－1786	S	2	H	Ph	H	F	F	H	H	H	H
(I)－1787	S	2	H	Ph	H	F	H	F	H	H	H
(I)－1788	S	2	H	Ph	H	F	H	H	F	H	H
(I)－1789	S	2	H	Ph	H	H	F	F	H	H	H
(I)－1790	S	2	H	Ph	H	H	F	H	F	H	H
(I)－1791	S	2	H	Ph	H	H	F	H	H	F	H
(I)－1792	S	2	H	Ph	H	H	F	H	H	H	F
(I)－1793	S	2	H	Ph	H	H	H	F	F	H	H
(I)－1794	S	2	H	Ph	H	H	H	F	H	F	H
(I)－1795	S	2	H	Ph	H	H	H	F	H	H	F
(I)－1796	S	2	H	Ph	H	H	H	H	F	F	H
(I)－1797	S	2	H	Ph	H	H	H	H	F	H	F
(I)－1798	S	2	H	Ph	H	H	H	H	H	F	F
(I)－1799	S	2	F	Tol	H	H	H	H	H	H	H
(I)－1800	S	2	H	Tol	F	H	H	H	H	H	H

【表３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1801	S	2	H	Tol	H	F	H	H	H	H	H
(I)－1802	S	2	H	Tol	H	H	F	H	H	H	H
(I)－1803	S	2	H	Tol	H	H	H	F	H	H	H
(I)－1804	S	2	H	Tol	H	H	H	H	F	H	H
(I)－1805	S	2	F	Tol	F	H	H	H	H	H	H
(I)－1806	S	2	F	Tol	H	F	H	H	H	H	H
(I)－1807	S	2	F	Tol	H	H	F	H	H	H	H
(I)－1808	S	2	F	Tol	H	H	H	F	H	H	H
(I)－1809	S	2	F	Tol	H	H	H	H	F	H	H
(I)－1810	S	2	H	Tol	F	F	H	H	H	H	H
(I)－1811	S	2	H	Tol	F	H	F	H	H	H	H
(I)－1812	S	2	H	Tol	F	H	H	F	H	H	H
(I)－1813	S	2	H	Tol	F	H	H	H	F	H	H
(I)－1814	S	2	H	Tol	H	F	F	H	H	H	H
(I)－1815	S	2	H	Tol	H	F	H	F	H	H	H
(I)－1816	S	2	H	Tol	H	F	H	H	F	H	H
(I)－1817	S	2	H	Tol	H	H	F	F	H	H	H
(I)－1818	S	2	H	Tol	H	H	F	H	F	H	H
(I)－1819	S	2	H	Tol	H	H	F	H	H	F	H
(I)－1820	S	2	H	Tol	H	H	F	H	H	H	F
(I)－1821	S	2	H	Tol	H	H	H	F	F	H	H
(I)－1822	S	2	H	Tol	H	H	H	F	H	F	H
(I)－1823	S	2	H	Tol	H	H	H	F	H	H	F
(I)－1824	S	2	H	Tol	H	H	H	H	F	F	H
(I)－1825	S	2	H	Tol	H	H	H	H	F	H	F
(I)－1826	S	2	H	Tol	H	H	H	H	H	F	F
(I)－1827	S	2	F	Phen	H	H	H	H	H	H	H
(I)－1828	S	2	H	Phen	F	H	H	H	H	H	H
(I)－1829	S	2	H	Phen	H	F	H	H	H	H	H
(I)－1830	S	2	H	Phen	H	H	F	H	H	H	H
(I)－1831	S	2	H	Phen	H	H	H	F	H	H	H
(I)－1832	S	2	H	Phen	H	H	H	H	F	H	H
(I)－1833	S	2	F	Phen	F	H	H	H	H	H	H
(I)－1834	S	2	F	Phen	H	F	H	H	H	H	H
(I)－1835	S	2	F	Phen	H	H	F	H	H	H	H
(I)－1836	S	2	F	Phen	H	H	H	F	H	H	H
(I)－1837	S	2	F	Phen	H	H	H	H	F	H	H
(I)－1838	S	2	H	Phen	F	F	H	H	H	H	H
(I)－1839	S	2	H	Phen	F	H	F	H	H	H	H
(I)－1840	S	2	H	Phen	F	H	H	F	H	H	H
(I)－1841	S	2	H	Phen	F	H	H	H	F	H	H
(I)－1842	S	2	H	Phen	H	F	F	H	H	H	H
(I)－1843	S	2	H	Phen	H	F	H	F	H	H	H
(I)－1844	S	2	H	Phen	H	F	H	H	F	H	H
(I)－1845	O	3	CH_3	Ph	H	H	H	H	H	H	H
(I)－1846	O	3	H	Ph	CH_3	H	H	H	H	H	H
(I)－1847	O	3	H	Ph	H	CH_3	H	H	H	H	H
(I)－1848	O	3	H	Ph	H	H	CH_3	H	H	H	H
(I)－1849	O	3	H	Ph	H	H	H	CH_3	H	H	H
(I)－1850	O	3	H	Ph	H	H	H	H	CH_3	H	H
(I)－1851	O	3	H	Tol	H	H	H	H	H	H	H
(I)－1852	O	3	CH_3	Tol	H	H	H	H	H	H	H
(I)－1853	O	3	H	Tol	CH_3	H	H	H	H	H	H
(I)－1854	O	3	H	Tol	H	CH_3	H	H	H	H	H
(I)－1855	O	3	H	Tol	H	H	CH_3	H	H	H	H
(I)－1856	O	3	H	Tol	H	H	H	CH_3	H	H	H
(I)－1857	O	3	H	Tol	H	H	H	H	CH_3	H	H
(I)－1858	O	3	H	Phen	H	H	H	H	H	H	H
(I)－1859	O	3	CH_3	Phen	H	H	H	H	H	H	H
(I)－1860	O	3	H	Phen	CH_3	H	H	H	H	H	H

【表３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1861	O	3	H	Phen	H	CH_3	H	H	H	H	H
(I)－1862	O	3	H	Phen	H	H	CH_3	H	H	H	H
(I)－1863	O	3	H	Phen	H	H	H	CH_3	H	H	H
(I)－1864	O	3	H	Phen	H	H	H	H	CH_3	H	H
(I)－1865	O	3	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1866	O	3	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1867	O	3	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1868	O	3	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1869	O	3	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1870	O	3	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1871	O	3	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－1872	O	3	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1873	O	3	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1874	O	3	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1875	O	3	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1876	O	3	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－1877	O	3	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1878	O	3	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1879	O	3	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1880	O	3	F	Ph	H	H	H	H	H	H	H
(I)－1881	O	3	H	Ph	F	H	H	H	H	H	H
(I)－1882	O	3	H	Ph	H	F	H	H	H	H	H
(I)－1883	O	3	H	Ph	H	H	F	H	H	H	H
(I)－1884	O	3	H	Ph	H	H	H	F	H	H	H
(I)－1885	O	3	H	Ph	H	H	H	H	F	H	H
(I)－1886	O	3	F	Ph	F	H	H	H	H	H	H
(I)－1887	O	3	F	Ph	H	F	H	H	H	H	H
(I)－1888	O	3	F	Ph	H	H	F	H	H	H	H
(I)－1889	O	3	F	Ph	H	H	H	F	H	H	H
(I)－1890	O	3	F	Ph	H	H	H	H	F	H	H
(I)－1891	O	3	H	Ph	F	F	H	H	H	H	H
(I)－1892	O	3	H	Ph	F	H	F	H	H	H	H
(I)－1893	O	3	H	Ph	F	H	H	F	H	H	H
(I)－1894	O	3	H	Ph	F	H	H	H	F	H	H
(I)－1895	O	3	H	Ph	H	F	F	H	H	H	H
(I)－1896	O	3	H	Ph	H	F	H	F	H	H	H
(I)－1897	O	3	H	Ph	H	F	H	H	F	H	H
(I)－1898	O	3	H	Ph	H	H	F	F	H	H	H
(I)－1899	O	3	H	Ph	H	H	F	H	F	H	H
(I)－1900	O	3	H	Ph	H	H	F	H	H	F	H
(I)－1901	O	3	H	Ph	H	H	F	H	H	H	F
(I)－1902	O	3	H	Ph	H	H	H	F	F	H	H
(I)－1903	O	3	H	Ph	H	H	H	F	H	F	H
(I)－1904	O	3	H	Ph	H	H	H	F	H	H	F
(I)－1905	O	3	H	Ph	H	H	H	H	F	F	H
(I)－1906	O	3	H	Ph	H	H	H	H	F	H	F
(I)－1907	O	3	H	Ph	H	H	H	H	H	F	F
(I)－1908	O	3	F	Tol	H	H	H	H	H	H	H
(I)－1909	O	3	H	Tol	F	H	H	H	H	H	H
(I)－1910	O	3	H	Tol	H	F	H	H	H	H	H
(I)－1911	O	3	H	Tol	H	H	F	H	H	H	H
(I)－1912	O	3	H	Tol	H	H	H	F	H	H	H
(I)－1913	O	3	H	Tol	H	H	H	H	F	H	H
(I)－1914	O	3	F	Tol	F	H	H	H	H	H	H
(I)－1915	O	3	F	Tol	H	F	H	H	H	H	H
(I)－1916	O	3	F	Tol	H	H	F	H	H	H	H
(I)－1917	O	3	F	Tol	H	H	H	F	H	H	H
(I)－1918	O	3	F	Tol	H	H	H	H	F	H	H
(I)－1919	O	3	H	Tol	F	F	H	H	H	H	H
(I)－1920	O	3	H	Tol	F	H	F	H	H	H	H

【表３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1921	O	3	H	Tol	F	H	H	F	H	H	H
(I)－1922	O	3	H	Tol	F	H	H	H	F	H	H
(I)－1923	O	3	H	Tol	H	F	F	H	H	H	H
(I)－1924	O	3	H	Tol	H	F	H	F	H	H	H
(I)－1925	O	3	H	Tol	H	F	H	H	F	H	H
(I)－1926	O	3	H	Tol	H	H	F	F	H	H	H
(I)－1927	O	3	H	Tol	H	H	F	H	F	H	H
(I)－1928	O	3	H	Tol	H	H	F	H	H	F	H
(I)－1929	O	3	H	Tol	H	H	F	H	H	H	F
(I)－1930	O	3	H	Tol	H	H	H	F	F	H	H
(I)－1931	O	3	H	Tol	H	H	H	F	H	F	H
(I)－1932	O	3	H	Tol	H	H	H	F	H	H	F
(I)－1933	O	3	H	Tol	H	H	H	H	F	F	H
(I)－1934	O	3	H	Tol	H	H	H	H	F	H	F
(I)－1935	O	3	H	Tol	H	H	H	H	H	F	F
(I)－1936	O	3	F	Phen	H	H	H	H	H	H	H
(I)－1937	O	3	H	Phen	F	H	H	H	H	H	H
(I)－1938	O	3	H	Phen	H	F	H	H	H	H	H
(I)－1939	O	3	H	Phen	H	H	F	H	H	H	H
(I)－1940	O	3	H	Phen	H	H	H	F	H	H	H
(I)－1941	O	3	H	Phen	H	H	H	H	F	H	H
(I)－1942	O	3	F	Phen	F	H	H	H	H	H	H
(I)－1943	O	3	F	Phen	H	F	H	H	H	H	H
(I)－1944	O	3	F	Phen	H	H	F	H	H	H	H
(I)－1945	O	3	F	Phen	H	H	H	F	H	H	H
(I)－1946	O	3	F	Phen	H	H	H	H	F	H	H
(I)－1947	O	3	H	Phen	F	F	H	H	H	H	H
(I)－1948	O	3	H	Phen	F	H	F	H	H	H	H
(I)－1949	O	3	H	Phen	F	H	H	F	H	H	H
(I)－1950	O	3	H	Phen	F	H	H	H	F	H	H
(I)－1951	O	3	H	Phen	H	F	F	H	H	H	H
(I)－1952	O	3	H	Phen	H	F	H	F	H	H	H
(I)－1953	O	3	H	Phen	H	F	H	H	F	H	H
(I)－1954	S	3	CH_3	Ph	H	H	H	H	H	H	H
(I)－1955	S	3	H	Ph	CH_3	H	H	H	H	H	H
(I)－1956	S	3	H	Ph	H	CH_3	H	H	H	H	H
(I)－1957	S	3	H	Ph	H	H	CH_3	H	H	H	H
(I)－1958	S	3	H	Ph	H	H	H	CH_3	H	H	H
(I)－1959	S	3	H	Ph	H	H	H	H	CH_3	H	H
(I)－1960	S	3	H	Tol	H	H	H	H	H	H	H
(I)－1961	S	3	CH_3	Tol	H	H	H	H	H	H	H
(I)－1962	S	3	H	Tol	CH_3	H	H	H	H	H	H
(I)－1963	S	3	H	Tol	H	CH_3	H	H	H	H	H
(I)－1964	S	3	H	Tol	H	H	CH_3	H	H	H	H
(I)－1965	S	3	H	Tol	H	H	H	CH_3	H	H	H
(I)－1966	S	3	H	Tol	H	H	H	H	CH_3	H	H
(I)－1967	S	3	H	Phen	H	H	H	H	H	H	H
(I)－1968	S	3	CH_3	Phen	H	H	H	H	H	H	H
(I)－1969	S	3	H	Phen	CH_3	H	H	H	H	H	H
(I)－1970	S	3	H	Phen	H	CH_3	H	H	H	H	H
(I)－1971	S	3	H	Phen	H	H	CH_3	H	H	H	H
(I)－1972	S	3	H	Phen	H	H	H	CH_3	H	H	H
(I)－1973	S	3	H	Phen	H	H	H	H	CH_3	H	H
(I)－1974	S	3	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－1975	S	3	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－1976	S	3	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－1977	S	3	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－1978	S	3	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－1979	S	3	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－1980	S	3	CH_3	Tol	H	CH_3	H	H	H	H	H

【表３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－1981	S	3	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－1982	S	3	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－1983	S	3	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－1984	S	3	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－1985	S	3	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－1986	S	3	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－1987	S	3	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－1988	S	3	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－1989	S	3	F	Ph	H	H	H	H	H	H	H
(I)－1990	S	3	H	Ph	F	H	H	H	H	H	H
(I)－1991	S	3	H	Ph	H	F	H	H	H	H	H
(I)－1992	S	3	H	Ph	H	H	F	H	H	H	H
(I)－1993	S	3	H	Ph	H	H	H	F	H	H	H
(I)－1994	S	3	H	Ph	H	H	H	H	F	H	H
(I)－1995	S	3	F	Ph	F	H	H	H	H	H	H
(I)－1996	S	3	F	Ph	H	F	H	H	H	H	H
(I)－1997	S	3	F	Ph	H	H	F	H	H	H	H
(I)－1998	S	3	F	Ph	H	H	H	F	H	H	H
(I)－1999	S	3	F	Ph	H	H	H	H	F	H	H
(I)－2000	S	3	H	Ph	F	F	H	H	H	H	H
(I)－2001	S	3	H	Ph	F	H	F	H	H	H	H
(I)－2002	S	3	H	Ph	F	H	H	F	H	H	H
(I)－2003	S	3	H	Ph	F	H	H	H	F	H	H
(I)－2004	S	3	H	Ph	H	F	F	H	H	H	H
(I)－2005	S	3	H	Ph	H	F	H	F	H	H	H
(I)－2006	S	3	H	Ph	H	F	H	H	F	H	H
(I)－2007	S	3	H	Ph	H	H	F	F	H	H	H
(I)－2008	S	3	H	Ph	H	H	F	H	F	H	H
(I)－2009	S	3	H	Ph	H	H	F	H	H	F	H
(I)－2010	S	3	H	Ph	H	H	F	H	H	H	F
(I)－2011	S	3	H	Ph	H	H	H	F	F	H	H
(I)－2012	S	3	H	Ph	H	H	H	F	H	F	H
(I)－2013	S	3	H	Ph	H	H	H	F	H	H	F
(I)－2014	S	3	H	Ph	H	H	H	H	F	F	H
(I)－2015	S	3	H	Ph	H	H	H	H	F	H	F
(I)－2016	S	3	H	Ph	H	H	H	H	H	F	F
(I)－2017	S	3	F	Tol	H	H	H	H	H	H	H
(I)－2018	S	3	H	Tol	F	H	H	H	H	H	H
(I)－2019	S	3	H	Tol	H	F	H	H	H	H	H
(I)－2020	S	3	H	Tol	H	H	F	H	H	H	H
(I)－2021	S	3	H	Tol	H	H	H	F	H	H	H
(I)－2022	S	3	H	Tol	H	H	H	H	F	H	H
(I)－2023	S	3	F	Tol	F	H	H	H	H	H	H
(I)－2024	S	3	F	Tol	H	F	H	H	H	H	H
(I)－2025	S	3	F	Tol	H	H	F	H	H	H	H
(I)－2026	S	3	F	Tol	H	H	H	F	H	H	H
(I)－2027	S	3	F	Tol	H	H	H	H	F	H	H
(I)－2028	S	3	H	Tol	F	F	H	H	H	H	H
(I)－2029	S	3	H	Tol	F	H	F	H	H	H	H
(I)－2030	S	3	H	Tol	F	H	H	F	H	H	H
(I)－2031	S	3	H	Tol	F	H	H	H	F	H	H
(I)－2032	S	3	H	Tol	H	F	F	H	H	H	H
(I)－2033	S	3	H	Tol	H	F	H	F	H	H	H
(I)－2034	S	3	H	Tol	H	F	H	H	F	H	H
(I)－2035	S	3	H	Tol	H	H	F	F	H	H	H
(I)－2036	S	3	H	Tol	H	H	F	H	F	H	H
(I)－2037	S	3	H	Tol	H	H	F	H	H	F	H
(I)－2038	S	3	H	Tol	H	H	F	H	H	H	F
(I)－2039	S	3	H	Tol	H	H	H	F	F	H	H
(I)－2040	S	3	H	Tol	H	H	H	F	H	F	H

【表３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－2041	S	3	H	Tol	H	H	H	F	H	H	F
(I)－2042	S	3	H	Tol	H	H	H	H	F	F	H
(I)－2043	S	3	H	Tol	H	H	H	H	F	H	F
(I)－2044	S	3	H	Tol	H	H	H	H	H	F	F
(I)－2045	S	3	F	Phen	H	H	H	H	H	H	H
(I)－2046	S	3	H	Phen	F	H	H	H	H	H	H
(I)－2047	S	3	H	Phen	H	F	H	H	H	H	H
(I)－2048	S	3	H	Phen	H	H	F	H	H	H	H
(I)－2049	S	3	H	Phen	H	H	H	F	H	H	H
(I)－2050	S	3	H	Phen	H	H	H	H	F	H	H
(I)－2051	S	3	F	Phen	F	H	H	H	H	H	H
(I)－2052	S	3	F	Phen	H	F	H	H	H	H	H
(I)－2053	S	3	F	Phen	H	H	F	H	H	H	H
(I)－2054	S	3	F	Phen	H	H	H	F	H	H	H
(I)－2055	S	3	F	Phen	H	H	H	H	F	H	H
(I)－2056	S	3	H	Phen	F	F	H	H	H	H	H
(I)－2057	S	3	H	Phen	F	H	F	H	H	H	H
(I)－2058	S	3	H	Phen	F	H	H	F	H	H	H
(I)－2059	S	3	H	Phen	F	H	H	H	F	H	H
(I)－2060	S	3	H	Phen	H	F	F	H	H	H	H
(I)－2061	S	3	H	Phen	H	F	H	F	H	H	H
(I)－2062	S	3	H	Phen	H	F	H	H	F	H	H
(I)－2063	O	4	CH_3	Ph	H	H	H	H	H	H	H
(I)－2064	O	4	H	Ph	CH_3	H	H	H	H	H	H
(I)－2065	O	4	H	Ph	H	CH_3	H	H	H	H	H
(I)－2066	O	4	H	Ph	H	H	CH_3	H	H	H	H
(I)－2067	O	4	H	Ph	H	H	H	CH_3	H	H	H
(I)－2068	O	4	H	Ph	H	H	H	H	CH_3	H	H
(I)－2069	O	4	H	Tol	H	H	H	H	H	H	H
(I)－2070	O	4	CH_3	Tol	H	H	H	H	H	H	H
(I)－2071	O	4	H	Tol	CH_3	H	H	H	H	H	H
(I)－2072	O	4	H	Tol	H	CH_3	H	H	H	H	H
(I)－2073	O	4	H	Tol	H	H	CH_3	H	H	H	H
(I)－2074	O	4	H	Tol	H	H	H	CH_3	H	H	H
(I)－2075	O	4	H	Tol	H	H	H	H	CH_3	H	H
(I)－2076	O	4	H	Phen	H	H	H	H	H	H	H
(I)－2077	O	4	CH_3	Phen	H	H	H	H	H	H	H
(I)－2078	O	4	H	Phen	CH_3	H	H	H	H	H	H
(I)－2079	O	4	H	Phen	H	CH_3	H	H	H	H	H
(I)－2080	O	4	H	Phen	H	H	CH_3	H	H	H	H
(I)－2081	O	4	H	Phen	H	H	H	CH_3	H	H	H
(I)－2082	O	4	H	Phen	H	H	H	H	CH_3	H	H
(I)－2083	O	4	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－2084	O	4	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－2085	O	4	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－2086	O	4	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－2087	O	4	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－2088	O	4	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－2089	O	4	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－2090	O	4	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－2091	O	4	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－2092	O	4	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－2093	O	4	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－2094	O	4	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－2095	O	4	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－2096	O	4	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－2097	O	4	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－2098	O	4	F	Ph	H	H	H	H	H	H	H
(I)－2099	O	4	H	Ph	F	H	H	H	H	H	H
(I)－2100	O	4	H	Ph	H	F	H	H	H	H	H

【表３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－2101	O	4	H	Ph	H	H	F	H	H	H	H
(I)－2102	O	4	H	Ph	H	H	H	F	H	H	H
(I)－2103	O	4	H	Ph	H	H	H	H	F	H	H
(I)－2104	O	4	F	Ph	F	H	H	H	H	H	H
(I)－2105	O	4	F	Ph	H	F	H	H	H	H	H
(I)－2106	O	4	F	Ph	H	H	F	H	H	H	H
(I)－2107	O	4	F	Ph	H	H	H	F	H	H	H
(I)－2108	O	4	F	Ph	H	H	H	H	F	H	H
(I)－2109	O	4	H	Ph	F	F	H	H	H	H	H
(I)－2110	O	4	H	Ph	F	H	F	H	H	H	H
(I)－2111	O	4	H	Ph	F	H	H	F	H	H	H
(I)－2112	O	4	H	Ph	F	H	H	H	F	H	H
(I)－2113	O	4	H	Ph	H	F	F	H	H	H	H
(I)－2114	O	4	H	Ph	H	F	H	F	H	H	H
(I)－2115	O	4	H	Ph	H	F	H	H	F	H	H
(I)－2116	O	4	H	Ph	H	H	F	F	H	H	H
(I)－2117	O	4	H	Ph	H	H	F	H	F	H	H
(I)－2118	O	4	H	Ph	H	H	F	H	H	F	H
(I)－2119	O	4	H	Ph	H	H	F	H	H	H	F
(I)－2120	O	4	H	Ph	H	H	H	F	F	H	H
(I)－2121	O	4	H	Ph	H	H	H	F	H	F	H
(I)－2122	O	4	H	Ph	H	H	H	F	H	H	F
(I)－2123	O	4	H	Ph	H	H	H	H	F	F	H
(I)－2124	O	4	H	Ph	H	H	H	H	F	H	F
(I)－2125	O	4	H	Ph	H	H	H	H	H	F	F
(I)－2126	O	4	F	Tol	H	H	H	H	H	H	H
(I)－2127	O	4	H	Tol	F	H	H	H	H	H	H
(I)－2128	O	4	H	Tol	H	F	H	H	H	H	H
(I)－2129	O	4	H	Tol	H	H	F	H	H	H	H
(I)－2130	O	4	H	Tol	H	H	H	F	H	H	H
(I)－2131	O	4	H	Tol	H	H	H	H	F	H	H
(I)－2132	O	4	F	Tol	F	H	H	H	H	H	H
(I)－2133	O	4	F	Tol	H	F	H	H	H	H	H
(I)－2134	O	4	F	Tol	H	H	F	H	H	H	H
(I)－2135	O	4	F	Tol	H	H	H	F	H	H	H
(I)－2136	O	4	F	Tol	H	H	H	H	F	H	H
(I)－2137	O	4	H	Tol	F	F	H	H	H	H	H
(I)－2138	O	4	H	Tol	F	H	F	H	H	H	H
(I)－2139	O	4	H	Tol	F	H	H	F	H	H	H
(I)－2140	O	4	H	Tol	F	H	H	H	F	H	H
(I)－2141	O	4	H	Tol	H	F	F	H	H	H	H
(I)－2142	O	4	H	Tol	H	F	H	F	H	H	H
(I)－2143	O	4	H	Tol	H	F	H	H	F	H	H
(I)－2144	O	4	H	Tol	H	H	F	F	H	H	H
(I)－2145	O	4	H	Tol	H	H	F	H	F	H	H
(I)－2146	O	4	H	Tol	H	H	F	H	H	F	H
(I)－2147	O	4	H	Tol	H	H	F	H	H	H	F
(I)－2148	O	4	H	Tol	H	H	H	F	F	H	H
(I)－2149	O	4	H	Tol	H	H	H	F	H	F	H
(I)－2150	O	4	H	Tol	H	H	H	F	H	H	F
(I)－2151	O	4	H	Tol	H	H	H	H	F	F	H
(I)－2152	O	4	H	Tol	H	H	H	H	F	H	F
(I)－2153	O	4	H	Tol	H	H	H	H	H	F	F
(I)－2154	O	4	F	Phen	H	H	H	H	H	H	H
(I)－2155	O	4	H	Phen	F	H	H	H	H	H	H
(I)－2156	O	4	H	Phen	H	F	H	H	H	H	H
(I)－2157	O	4	H	Phen	H	H	F	H	H	H	H
(I)－2158	O	4	H	Phen	H	H	H	F	H	H	H
(I)－2159	O	4	H	Phen	H	H	H	H	F	H	H
(I)－2160	O	4	F	Phen	F	H	H	H	H	H	H

【表３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－2161	O	4	F	Phen	H	F	H	H	H	H	H
(I)－2162	O	4	F	Phen	H	H	F	H	H	H	H
(I)－2163	O	4	F	Phen	H	H	H	F	H	H	H
(I)－2164	O	4	F	Phen	H	H	H	H	F	H	H
(I)－2165	O	4	H	Phen	F	F	H	H	H	H	H
(I)－2166	O	4	H	Phen	F	H	F	H	H	H	H
(I)－2167	O	4	H	Phen	F	H	H	F	H	H	H
(I)－2168	O	4	H	Phen	F	H	H	H	F	H	H
(I)－2169	O	4	H	Phen	H	F	F	H	H	H	H
(I)－2170	O	4	H	Phen	H	F	H	F	H	H	H
(I)－2171	O	4	H	Phen	H	F	H	H	F	H	H
(I)－2172	S	4	CH_3	Ph	H	H	H	H	H	H	H
(I)－2173	S	4	H	Ph	CH_3	H	H	H	H	H	H
(I)－2174	S	4	H	Ph	H	CH_3	H	H	H	H	H
(I)－2175	S	4	H	Ph	H	H	CH_3	H	H	H	H
(I)－2176	S	4	H	Ph	H	H	H	CH_3	H	H	H
(I)－2177	S	4	H	Ph	H	H	H	H	CH_3	H	H
(I)－2178	S	4	H	Tol	H	H	H	H	H	H	H
(I)－2179	S	4	CH_3	Tol	H	H	H	H	H	H	H
(I)－2180	S	4	H	Tol	CH_3	H	H	H	H	H	H
(I)－2181	S	4	H	Tol	H	CH_3	H	H	H	H	H
(I)－2182	S	4	H	Tol	H	H	CH_3	H	H	H	H
(I)－2183	S	4	H	Tol	H	H	H	CH_3	H	H	H
(I)－2184	S	4	H	Tol	H	H	H	H	CH_3	H	H
(I)－2185	S	4	H	Phen	H	H	H	H	H	H	H
(I)－2186	S	4	CH_3	Phen	H	H	H	H	H	H	H
(I)－2187	S	4	H	Phen	CH_3	H	H	H	H	H	H
(I)－2188	S	4	H	Phen	H	CH_3	H	H	H	H	H
(I)－2189	S	4	H	Phen	H	H	CH_3	H	H	H	H
(I)－2190	S	4	H	Phen	H	H	H	CH_3	H	H	H
(I)－2191	S	4	H	Phen	H	H	H	H	CH_3	H	H
(I)－2192	S	4	CH_3	Ph	CH_3	H	H	H	H	H	H
(I)－2193	S	4	CH_3	Ph	H	CH_3	H	H	H	H	H
(I)－2194	S	4	CH_3	Ph	H	H	CH_3	H	H	H	H
(I)－2195	S	4	CH_3	Ph	H	H	H	CH_3	H	H	H
(I)－2196	S	4	CH_3	Ph	H	H	H	H	CH_3	H	H
(I)－2197	S	4	CH_3	Tol	CH_3	H	H	H	H	H	H
(I)－2198	S	4	CH_3	Tol	H	CH_3	H	H	H	H	H
(I)－2199	S	4	CH_3	Tol	H	H	CH_3	H	H	H	H
(I)－2200	S	4	CH_3	Tol	H	H	H	CH_3	H	H	H
(I)－2201	S	4	CH_3	Tol	H	H	H	H	CH_3	H	H
(I)－2202	S	4	CH_3	Phen	CH_3	H	H	H	H	H	H
(I)－2203	S	4	CH_3	Phen	H	CH_3	H	H	H	H	H
(I)－2204	S	4	CH_3	Phen	H	H	CH_3	H	H	H	H
(I)－2205	S	4	CH_3	Phen	H	H	H	CH_3	H	H	H
(I)－2206	S	4	CH_3	Phen	H	H	H	H	CH_3	H	H
(I)－2207	S	4	F	Ph	H	H	H	H	H	H	H
(I)－2208	S	4	H	Ph	F	H	H	H	H	H	H
(I)－2209	S	4	H	Ph	H	F	H	H	H	H	H
(I)－2210	S	4	H	Ph	H	H	F	H	H	H	H
(I)－2211	S	4	H	Ph	H	H	H	F	H	H	H
(I)－2212	S	4	H	Ph	H	H	H	H	F	H	H
(I)－2213	S	4	F	Ph	F	H	H	H	H	H	H
(I)－2214	S	4	F	Ph	H	F	H	H	H	H	H
(I)－2215	S	4	F	Ph	H	H	F	H	H	H	H
(I)－2216	S	4	F	Ph	H	H	H	F	H	H	H
(I)－2217	S	4	F	Ph	H	H	H	H	F	H	H
(I)－2218	S	4	H	Ph	F	F	H	H	H	H	H
(I)－2219	S	4	H	Ph	F	H	F	H	H	H	H
(I)－2220	S	4	H	Ph	F	H	H	F	H	H	H

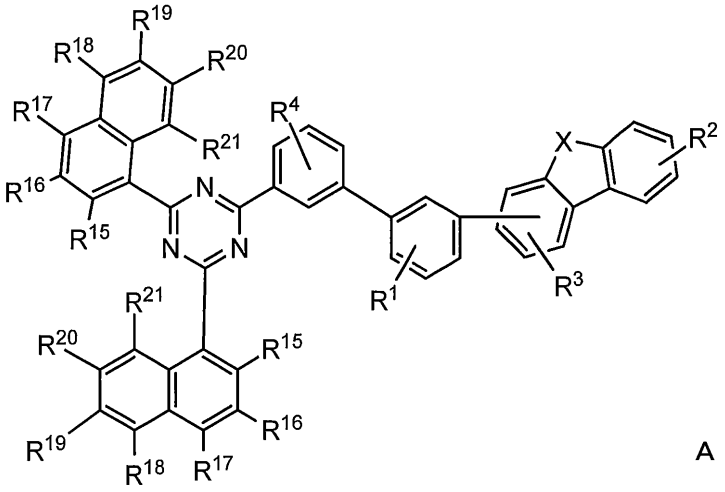
【表３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{10}	R^{11}	R^{12}	R^{13}	R^{14}
(I)－2221	S	4	H	Ph	F	H	H	H	F	H	H
(I)－2222	S	4	H	Ph	H	F	F	H	H	H	H
(I)－2223	S	4	H	Ph	H	F	H	F	H	H	H
(I)－2224	S	4	H	Ph	H	F	H	H	F	H	H
(I)－2225	S	4	H	Ph	H	H	F	F	H	H	H
(I)－2226	S	4	H	Ph	H	H	F	H	F	H	H
(I)－2227	S	4	H	Ph	H	H	F	H	H	F	H
(I)－2228	S	4	H	Ph	H	H	F	H	H	H	F
(I)－2229	S	4	H	Ph	H	H	H	F	F	H	H
(I)－2230	S	4	H	Ph	H	H	H	F	H	F	H
(I)－2231	S	4	H	Ph	H	H	H	F	H	H	F
(I)－2232	S	4	H	Ph	H	H	H	H	F	F	H
(I)－2233	S	4	H	Ph	H	H	H	H	F	H	F
(I)－2234	S	4	H	Ph	H	H	H	H	H	F	F
(I)－2235	S	4	F	Tol	H	H	H	H	H	H	H
(I)－2236	S	4	H	Tol	F	H	H	H	H	H	H
(I)－2237	S	4	H	Tol	H	F	H	H	H	H	H
(I)－2238	S	4	H	Tol	H	H	F	H	H	H	H
(I)－2239	S	4	H	Tol	H	H	H	F	H	H	H
(I)－2240	S	4	H	Tol	H	H	H	H	F	H	H
(I)－2241	S	4	F	Tol	F	H	H	H	H	H	H
(I)－2242	S	4	F	Tol	H	F	H	H	H	H	H
(I)－2243	S	4	F	Tol	H	H	F	H	H	H	H
(I)－2244	S	4	F	Tol	H	H	H	F	H	H	H
(I)－2245	S	4	F	Tol	H	H	H	H	F	H	H
(I)－2246	S	4	H	Tol	F	F	H	H	H	H	H
(I)－2247	S	4	H	Tol	F	H	F	H	H	H	H
(I)－2248	S	4	H	Tol	F	H	H	F	H	H	H
(I)－2249	S	4	H	Tol	F	H	H	H	F	H	H
(I)－2250	S	4	H	Tol	H	F	F	H	H	H	H
(I)－2251	S	4	H	Tol	H	F	H	F	H	H	H
(I)－2252	S	4	H	Tol	H	F	H	H	F	H	H
(I)－2253	S	4	H	Tol	H	H	F	F	H	H	H
(I)－2254	S	4	H	Tol	H	H	F	H	F	H	H
(I)－2255	S	4	H	Tol	H	H	F	H	H	F	H
(I)－2256	S	4	H	Tol	H	H	F	H	H	H	F
(I)－2257	S	4	H	Tol	H	H	H	F	F	H	H
(I)－2258	S	4	H	Tol	H	H	H	F	H	F	H
(I)－2259	S	4	H	Tol	H	H	H	F	H	H	F
(I)－2260	S	4	H	Tol	H	H	H	H	F	F	H
(I)－2261	S	4	H	Tol	H	H	H	H	F	H	F
(I)－2262	S	4	H	Tol	H	H	H	H	H	F	F
(I)－2263	S	4	F	Phen	H	H	H	H	H	H	H
(I)－2264	S	4	H	Phen	F	H	H	H	H	H	H
(I)－2265	S	4	H	Phen	H	F	H	H	H	H	H
(I)－2266	S	4	H	Phen	H	H	F	H	H	H	H
(I)－2267	S	4	H	Phen	H	H	H	F	H	H	H
(I)－2268	S	4	H	Phen	H	H	H	H	F	H	H
(I)－2269	S	4	F	Phen	F	H	H	H	H	H	H
(I)－2270	S	4	F	Phen	H	F	H	H	H	H	H
(I)－2271	S	4	F	Phen	H	H	F	H	H	H	H
(I)－2272	S	4	F	Phen	H	H	H	F	H	H	H
(I)－2273	S	4	F	Phen	H	H	H	H	F	H	H
(I)－2274	S	4	H	Phen	F	F	H	H	H	H	H
(I)－2275	S	4	H	Phen	F	H	F	H	H	H	H
(I)－2276	S	4	H	Phen	F	H	H	F	H	H	H
(I)－2277	S	4	H	Phen	F	H	H	H	F	H	H
(I)－2278	S	4	H	Phen	H	F	F	H	H	H	H
(I)－2279	S	4	H	Phen	H	F	H	F	H	H	H
(I)－2280	S	4	H	Phen	H	F	H	H	F	H	H

【００３２】

下記式で表される化合物を表３９～表９７に示す。式中のＸ、Ｒ[1]～Ｒ[4]、Ｒ[15]～Ｒ[21]は、前記一般式〔１〕の場合と同じである。

【化１６】



Ａｒ＝(II)

【００３３】

【表３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1	O	1	H	H	H	H	H	H	H	H	H	H	H
(II)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－13	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－14	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－15	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－16	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－17	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－18	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－19	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－20	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－21	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－22	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－23	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－24	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－25	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－26	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－27	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－28	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－29	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－30	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－31	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－32	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－33	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－34	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－35	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－36	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－37	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－38	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－39	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－40	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－41	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－42	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－43	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－44	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－45	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－46	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－47	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－48	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－49	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－50	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－51	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－52	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－53	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－54	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－55	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－56	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－57	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－58	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－59	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－60	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－61	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－62	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－63	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－64	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－65	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－66	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－67	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－68	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－69	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－70	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－71	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－72	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－73	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－74	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－75	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－76	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－77	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－78	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－79	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－80	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－81	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－82	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－83	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－84	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－85	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－86	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－87	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－88	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－89	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－90	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－91	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－92	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－93	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－94	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－95	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－96	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－97	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－98	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－99	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－100	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－101	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－102	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－103	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－104	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－105	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－106	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－107	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－108	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－109	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－110	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－111	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－112	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－113	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－114	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－115	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－116	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－117	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－118	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－119	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－120	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H

【表４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－121	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－122	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－123	S	1	H	H	H	H	H	H	H	H	H	H	H
(II)－124	S	1	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－125	S	1	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－126	S	1	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－127	S	1	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－128	S	1	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－129	S	1	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－130	S	1	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－131	S	1	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－132	S	1	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－133	S	1	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－134	S	1	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－135	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－136	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－137	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－138	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－139	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－140	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－141	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－142	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－143	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－144	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－145	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－146	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－147	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－148	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－149	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－150	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－151	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－152	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－153	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－154	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－155	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－156	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－157	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－158	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－159	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－160	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－161	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－162	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－163	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－164	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－165	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－166	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－167	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－168	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－169	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－170	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－171	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－172	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－173	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－174	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－175	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－176	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－177	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－178	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－179	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－180	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H

【表４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－181	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－182	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－183	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－184	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－185	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－186	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－187	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－188	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－189	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－190	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－191	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－192	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－193	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－194	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－195	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－196	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－197	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－198	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－199	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－200	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－201	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－202	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－203	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－204	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－205	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－206	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－207	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－208	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－209	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－210	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－211	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－212	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－213	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－214	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－215	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－216	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－217	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－218	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－219	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－220	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－221	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－222	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－223	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－224	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－225	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－226	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－227	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－228	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－229	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－230	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－231	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－232	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－233	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－234	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－235	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－236	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－237	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－238	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－239	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－240	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H

【表４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－241	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－242	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－243	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－244	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－245	O	2	H	H	H	H	H	H	H	H	H	H	H
(II)－246	O	2	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－247	O	2	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－248	O	2	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－249	O	2	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－250	O	2	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－251	O	2	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－252	O	2	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－253	O	2	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－254	O	2	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－255	O	2	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－256	O	2	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－257	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－258	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－259	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－260	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－261	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－262	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－263	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－264	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－265	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－266	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－267	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－268	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－269	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－270	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－271	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－272	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－273	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－274	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－275	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－276	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－277	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－278	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－279	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－280	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－281	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－282	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－283	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－284	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－285	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－286	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－287	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－288	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－289	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－290	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－291	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－292	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－293	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－294	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－295	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－296	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－297	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－298	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－299	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－300	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－301	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－302	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－303	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－304	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－305	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－306	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－307	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－308	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－309	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－310	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－311	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－312	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－313	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－314	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－315	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－316	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－317	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－318	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－319	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－320	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－321	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－322	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－323	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－324	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－325	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－326	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－327	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－328	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－329	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－330	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－331	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－332	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－333	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－334	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－335	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－336	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－337	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－338	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－339	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－340	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－341	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－342	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－343	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－344	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－345	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－346	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－347	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－348	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－349	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－350	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－351	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－352	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－353	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－354	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－355	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－356	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－357	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－358	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－359	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－360	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3

【表４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－361	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－362	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－363	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－364	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－365	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－366	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－367	S	2	H	H	H	H	H	H	H	H	H	H	H
(II)－368	S	2	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－369	S	2	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－370	S	2	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－371	S	2	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－372	S	2	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－373	S	2	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－374	S	2	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－375	S	2	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－376	S	2	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－377	S	2	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－378	S	2	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－379	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－380	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－381	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－382	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－383	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－384	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－385	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－386	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－387	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－388	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－389	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－390	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－391	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－392	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－393	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－394	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－395	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－396	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－397	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－398	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－399	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－400	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－401	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－402	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－403	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－404	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－405	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－406	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－407	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－408	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－409	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－410	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－411	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－412	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－413	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－414	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－415	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－416	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－417	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－418	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－419	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－420	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H

【表４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－421	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－422	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－423	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－424	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－425	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－426	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－427	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－428	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－429	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－430	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－431	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－432	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－433	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－434	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－435	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－436	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－437	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－438	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－439	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－440	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－441	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－442	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－443	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－444	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－445	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－446	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－447	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－448	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－449	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－450	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－451	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－452	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－453	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－454	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－455	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－456	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－457	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－458	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－459	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－460	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－461	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－462	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－463	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－464	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－465	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－466	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－467	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－468	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－469	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－470	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－471	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－472	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－473	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－474	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－475	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－476	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－477	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－478	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－479	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－480	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H

【表４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－481	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－482	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－483	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－484	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－485	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－486	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－487	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－488	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－489	O	3	H	H	H	H	H	H	H	H	H	H	H
(II)－490	O	3	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－491	O	3	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－492	O	3	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－493	O	3	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－494	O	3	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－495	O	3	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－496	O	3	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－497	O	3	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－498	O	3	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－499	O	3	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－500	O	3	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－501	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－502	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－503	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－504	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－505	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－506	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－507	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－508	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－509	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－510	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－511	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－512	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－513	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－514	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－515	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－516	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－517	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－518	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－519	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－520	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－521	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－522	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－523	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－524	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－525	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－526	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－527	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－528	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－529	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－530	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－531	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－532	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－533	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－534	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－535	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－536	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－537	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－538	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－539	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－540	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H

【表４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－541	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－542	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－543	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－544	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－545	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－546	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－547	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－548	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－549	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－550	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－551	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－552	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－553	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－554	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－555	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－556	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－557	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－558	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－559	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－560	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－561	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－562	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－563	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－564	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－565	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－566	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－567	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－568	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－569	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－570	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－571	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－572	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－573	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－574	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－575	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－576	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－577	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－578	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－579	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－580	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－581	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－582	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－583	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－584	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－585	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－586	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－587	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－588	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－589	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－590	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－591	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－592	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－593	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－594	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－595	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－596	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－597	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－598	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－599	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－600	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3

【表４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－601	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－602	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－603	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－604	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－605	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－606	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－607	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－608	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－609	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－610	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－611	S	3	H	H	H	H	H	H	H	H	H	H	H
(II)－612	S	3	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－613	S	3	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－614	S	3	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－615	S	3	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－616	S	3	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－617	S	3	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－618	S	3	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－619	S	3	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－620	S	3	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－621	S	3	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－622	S	3	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－623	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－624	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－625	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－626	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－627	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－628	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－629	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－630	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－631	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－632	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－633	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－634	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－635	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－636	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－637	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－638	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－639	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－640	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－641	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－642	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－643	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－644	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－645	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－646	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－647	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－648	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－649	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－650	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－651	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－652	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－653	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－654	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－655	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－656	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－657	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－658	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－659	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－660	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－661	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－662	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－663	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－664	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－665	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－666	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－667	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－668	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－669	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－670	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－671	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－672	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－673	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－674	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－675	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－676	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－677	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－678	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－679	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－680	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－681	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－682	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－683	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－684	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－685	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－686	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－687	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－688	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－689	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－690	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－691	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－692	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－693	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－694	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－695	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－696	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－697	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－698	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－699	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－700	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－701	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－702	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－703	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－704	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－705	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－706	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－707	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－708	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－709	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－710	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－711	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－712	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－713	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－714	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－715	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－716	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－717	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－718	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－719	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－720	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H

【表５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－721	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－722	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－723	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－724	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－725	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－726	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－727	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－728	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－729	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－730	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－731	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－732	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－733	O	4	H	H	H	H	H	H	H	H	H	H	H
(II)－734	O	4	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－735	O	4	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－736	O	4	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－737	O	4	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－738	O	4	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－739	O	4	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－740	O	4	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－741	O	4	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－742	O	4	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－743	O	4	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－744	O	4	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－745	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－746	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－747	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－748	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－749	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－750	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－751	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－752	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－753	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－754	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－755	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－756	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－757	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－758	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－759	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－760	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－761	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－762	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－763	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－764	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－765	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－766	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－767	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－768	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－769	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－770	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－771	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－772	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－773	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－774	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－775	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－776	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－777	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－778	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(II)－779	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－780	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H

【表５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－781	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－782	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－783	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－784	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－785	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－786	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－787	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－788	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－789	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－790	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－791	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－792	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－793	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－794	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－795	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－796	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－797	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－798	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－799	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－800	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－801	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－802	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－803	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－804	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－805	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－806	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－807	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－808	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－809	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－810	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－811	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－812	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－813	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－814	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－815	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－816	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－817	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－818	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－819	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－820	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－821	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－822	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－823	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－824	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－825	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－826	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－827	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－828	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－829	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－830	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－831	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－832	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－833	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－834	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－835	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－836	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－837	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－838	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(II)－839	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－840	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H

【表５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－841	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－842	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－843	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－844	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－845	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－846	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－847	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－848	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－849	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－850	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－851	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－852	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－853	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－854	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－855	S	4	H	H	H	H	H	H	H	H	H	H	H
(II)－856	S	4	CH_3	H	H	H	H	H	H	H	H	H	H
(II)－857	S	4	H	CH_3	H	H	H	H	H	H	H	H	H
(II)－858	S	4	H	H	CH_3	H	H	H	H	H	H	H	H
(II)－859	S	4	H	H	H	CH_3	H	H	H	H	H	H	H
(II)－860	S	4	H	H	H	H	CH_3	H	H	H	H	H	H
(II)－861	S	4	H	H	H	H	H	CH_3	H	H	H	H	H
(II)－862	S	4	H	H	H	H	H	H	CH_3	H	H	H	H
(II)－863	S	4	H	H	H	H	H	H	H	CH_3	H	H	H
(II)－864	S	4	H	H	H	H	H	H	H	H	CH_3	H	H
(II)－865	S	4	H	H	H	H	H	H	H	H	H	CH_3	H
(II)－866	S	4	H	H	H	H	H	H	H	H	H	H	CH_3
(II)－867	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H
(II)－868	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H
(II)－869	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H
(II)－870	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H
(II)－871	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H
(II)－872	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H
(II)－873	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H
(II)－874	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H
(II)－875	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H
(II)－876	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H
(II)－877	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5
(II)－878	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H
(II)－879	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H
(II)－880	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H
(II)－881	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H
(II)－882	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H
(II)－883	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H
(II)－884	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H
(II)－885	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H
(II)－886	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H
(II)－887	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H
(II)－888	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7
(II)－889	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H
(II)－890	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H
(II)－891	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H
(II)－892	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H
(II)－893	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H
(II)－894	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H
(II)－895	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H
(II)－896	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H
(II)－897	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H
(II)－898	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H
(II)－899	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9
(II)－900	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H

【表５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－901	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(II)－902	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(II)－903	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(II)－904	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(II)－905	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(II)－906	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(II)－907	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(II)－908	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(II)－909	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(II)－910	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(II)－911	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(II)－912	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(II)－913	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(II)－914	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(II)－915	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(II)－916	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(II)－917	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(II)－918	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(II)－919	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(II)－920	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(II)－921	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(II)－922	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(II)－923	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(II)－924	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(II)－925	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(II)－926	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(II)－927	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(II)－928	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(II)－929	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(II)－930	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(II)－931	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(II)－932	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(II)－933	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(II)－934	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(II)－935	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(II)－936	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(II)－937	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(II)－938	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(II)－939	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(II)－940	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(II)－941	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(II)－942	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(II)－943	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(II)－944	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(II)－945	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(II)－946	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(II)－947	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(II)－948	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(II)－949	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(II)－950	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(II)－951	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(II)－952	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(II)－953	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(II)－954	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(II)－955	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(II)－956	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(II)－957	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(II)－958	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(II)－959	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(II)－960	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H

【表５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－961	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(II)－962	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(II)－963	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(II)－964	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(II)－965	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(II)－966	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(II)－967	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(II)－968	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(II)－969	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(II)－970	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(II)－971	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(II)－972	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(II)－973	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(II)－974	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(II)－975	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(II)－976	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(II)－977	O	1	F	H	H	H	H	H	H	H	H	H	H
(II)－978	O	1	H	F	H	H	H	H	H	H	H	H	H
(II)－979	O	1	H	H	F	H	H	H	H	H	H	H	H
(II)－980	O	1	H	H	H	F	H	H	H	H	H	H	H
(II)－981	O	1	H	H	H	H	F	H	H	H	H	H	H
(II)－982	O	1	H	H	H	H	H	F	H	H	H	H	H
(II)－983	O	1	H	H	H	H	H	H	F	H	H	H	H
(II)－984	O	1	H	H	H	H	H	H	H	F	H	H	H
(II)－985	O	1	H	H	H	H	H	H	H	H	F	H	H
(II)－986	O	1	H	H	H	H	H	H	H	H	H	F	H
(II)－987	O	1	H	H	H	H	H	H	H	H	H	H	F
(II)－988	O	1	F	F	H	H	H	H	H	H	H	H	H
(II)－989	O	1	F	H	F	H	H	H	H	H	H	H	H
(II)－990	O	1	F	H	H	F	H	H	H	H	H	H	H
(II)－991	O	1	F	H	H	H	F	H	H	H	H	H	H
(II)－992	O	1	F	H	H	H	H	F	H	H	H	H	H
(II)－993	O	1	F	H	H	H	H	H	F	H	H	H	H
(II)－994	O	1	F	H	H	H	H	H	H	F	H	H	H
(II)－995	O	1	F	H	H	H	H	H	H	H	F	H	H
(II)－996	O	1	F	H	H	H	H	H	H	H	H	F	H
(II)－997	O	1	F	H	H	H	H	H	H	H	H	H	F
(II)－998	O	1	H	F	F	H	H	H	H	H	H	H	H
(II)－999	O	1	H	F	H	F	H	H	H	H	H	H	H
(II)－1000	O	1	H	F	H	H	F	H	H	H	H	H	H
(II)－1001	O	1	H	F	H	H	H	F	H	H	H	H	H
(II)－1002	O	1	H	F	H	H	H	H	F	H	H	H	H
(II)－1003	O	1	H	F	H	H	H	H	H	F	H	H	H
(II)－1004	O	1	H	F	H	H	H	H	H	H	F	H	H
(II)－1005	O	1	H	F	H	H	H	H	H	H	H	F	H
(II)－1006	O	1	H	F	H	H	H	H	H	H	H	H	F
(II)－1007	O	1	H	H	F	F	H	H	H	H	H	H	H
(II)－1008	O	1	H	H	F	H	F	H	H	H	H	H	H
(II)－1009	O	1	H	H	F	H	H	F	H	H	H	H	H
(II)－1010	O	1	H	H	F	H	H	H	F	H	H	H	H
(II)－1011	O	1	H	H	F	H	H	H	H	F	H	H	H
(II)－1012	O	1	H	H	F	H	H	H	H	H	F	H	H
(II)－1013	O	1	H	H	F	H	H	H	H	H	H	F	H
(II)－1014	O	1	H	H	F	H	H	H	H	H	H	H	F
(II)－1015	O	1	H	H	H	F	F	H	H	H	H	H	H
(II)－1016	O	1	H	H	H	F	H	F	H	H	H	H	H
(II)－1017	O	1	H	H	H	F	H	H	F	H	H	H	H
(II)－1018	O	1	H	H	H	F	H	H	H	F	H	H	H
(II)－1019	O	1	H	H	H	F	H	H	H	H	F	H	H
(II)－1020	O	1	H	H	H	F	H	H	H	H	H	F	H

【表５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1021	O	1	H	H	H	F	H	H	H	H	H	H	F
(II)－1022	O	1	H	H	H	H	F	F	H	H	H	H	H
(II)－1023	O	1	H	H	H	H	F	H	F	H	H	H	H
(II)－1024	O	1	H	H	H	H	F	H	H	F	H	H	H
(II)－1025	O	1	H	H	H	H	F	H	H	H	F	H	H
(II)－1026	O	1	H	H	H	H	F	H	H	H	H	F	H
(II)－1027	O	1	H	H	H	H	F	H	H	H	H	H	F
(II)－1028	O	1	H	H	H	H	H	F	F	H	H	H	H
(II)－1029	O	1	H	H	H	H	H	F	H	F	H	H	H
(II)－1030	O	1	H	H	H	H	H	F	H	H	F	H	H
(II)－1031	O	1	H	H	H	H	H	F	H	H	H	F	H
(II)－1032	O	1	H	H	H	H	H	F	H	H	H	H	F
(II)－1033	O	1	H	H	H	H	H	H	F	F	H	H	H
(II)－1034	O	1	H	H	H	H	H	H	F	H	F	H	H
(II)－1035	O	1	H	H	H	H	H	H	F	H	H	F	H
(II)－1036	O	1	H	H	H	H	H	H	F	H	H	H	F
(II)－1037	O	1	H	H	H	H	H	H	H	F	F	H	H
(II)－1038	O	1	H	H	H	H	H	H	H	F	H	F	H
(II)－1039	O	1	H	H	H	H	H	H	H	F	H	H	F
(II)－1040	O	1	H	H	H	H	H	H	H	H	F	F	H
(II)－1041	O	1	H	H	H	H	H	H	H	H	F	H	F
(II)－1042	O	1	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－1043	O	1	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－1044	O	1	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－1045	O	1	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－1046	O	1	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－1047	O	1	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－1048	O	1	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－1049	O	1	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－1050	O	1	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－1051	O	1	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－1052	O	1	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－1053	O	1	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－1054	O	1	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－1055	O	1	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－1056	O	1	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－1057	O	1	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－1058	O	1	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－1059	O	1	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－1060	O	1	H	CH_3	H	H	H	H	H	H	H	F	H
(II)－1061	O	1	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－1062	O	1	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－1063	O	1	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－1064	O	1	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－1065	O	1	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－1066	O	1	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－1067	O	1	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1068	O	1	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1069	O	1	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－1070	O	1	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－1071	O	1	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－1072	O	1	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－1073	O	1	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－1074	O	1	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－1075	O	1	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－1076	O	1	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－1077	O	1	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－1078	O	1	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－1079	O	1	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－1080	O	1	H	H	H	H	CH_3	H	H	F	H	H	H

【表５７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1081	O	1	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－1082	O	1	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－1083	O	1	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－1084	O	1	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－1085	O	1	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－1086	O	1	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－1087	O	1	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－1088	O	1	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－1089	O	1	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－1090	O	1	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－1091	O	1	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－1092	O	1	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－1093	O	1	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－1094	O	1	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－1095	O	1	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－1096	O	1	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－1097	O	1	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－1098	O	1	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－1099	O	1	H	Ph	H	H	H	H	H	H	H	H	H
(II)－1100	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－1101	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－1102	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－1103	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－1104	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－1105	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－1106	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－1107	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－1108	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－1109	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－1110	O	1	H	Tol	H	H	H	H	H	H	H	H	H
(II)－1111	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－1112	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－1113	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－1114	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－1115	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－1116	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－1117	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－1118	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－1119	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－1120	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3
(II)－1121	O	1	H	Phen	H	H	H	H	H	H	H	H	H
(II)－1122	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－1123	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－1124	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－1125	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－1126	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－1127	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－1128	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－1129	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－1130	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－1131	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－1132	O	1	F	Ph	H	H	H	H	H	H	H	H	H
(II)－1133	O	1	H	Ph	F	H	H	H	H	H	H	H	H
(II)－1134	O	1	H	Ph	H	F	H	H	H	H	H	H	H
(II)－1135	O	1	H	Ph	H	H	F	H	H	H	H	H	H
(II)－1136	O	1	H	Ph	H	H	H	F	H	H	H	H	H
(II)－1137	O	1	H	Ph	H	H	H	H	F	H	H	H	H
(II)－1138	O	1	H	Ph	H	H	H	H	H	F	H	H	H
(II)－1139	O	1	H	Ph	H	H	H	H	H	H	F	H	H
(II)－1140	O	1	H	Ph	H	H	H	H	H	H	H	F	H

【表５８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1141	O	1	H	Ph	H	H	H	H	H	H	H	H	F
(II)－1142	O	1	F	Ph	F	H	H	H	H	H	H	H	H
(II)－1143	O	1	F	Ph	H	F	H	H	H	H	H	H	H
(II)－1144	O	1	F	Ph	H	H	F	H	H	H	H	H	H
(II)－1145	O	1	F	Ph	H	H	H	F	H	H	H	H	H
(II)－1146	O	1	F	Ph	H	H	H	H	F	H	H	H	H
(II)－1147	O	1	F	Ph	H	H	H	H	H	F	H	H	H
(II)－1148	O	1	F	Ph	H	H	H	H	H	H	F	H	H
(II)－1149	O	1	F	Ph	H	H	H	H	H	H	H	F	H
(II)－1150	O	1	F	Ph	H	H	H	H	H	H	H	H	F
(II)－1151	O	1	H	Ph	F	F	H	H	H	H	H	H	H
(II)－1152	O	1	H	Ph	F	H	F	H	H	H	H	H	H
(II)－1153	O	1	H	Ph	F	H	H	F	H	H	H	H	H
(II)－1154	O	1	H	Ph	F	H	H	H	F	H	H	H	H
(II)－1155	O	1	H	Ph	F	H	H	H	H	F	H	H	H
(II)－1156	O	1	H	Ph	F	H	H	H	H	H	F	H	H
(II)－1157	O	1	H	Ph	F	H	H	H	H	H	H	F	H
(II)－1158	O	1	H	Ph	F	H	H	H	H	H	H	H	F
(II)－1159	O	1	H	Ph	H	F	F	H	H	H	H	H	H
(II)－1160	O	1	H	Ph	H	F	H	F	H	H	H	H	H
(II)－1161	O	1	H	Ph	H	F	H	H	F	H	H	H	H
(II)－1162	O	1	H	Ph	H	F	H	H	H	F	H	H	H
(II)－1163	O	1	H	Ph	H	F	H	H	H	H	F	H	H
(II)－1164	O	1	H	Ph	H	F	H	H	H	H	H	F	H
(II)－1165	O	1	H	Ph	H	F	H	H	H	H	H	H	F
(II)－1166	O	1	H	Ph	H	H	F	F	H	H	H	H	H
(II)－1167	O	1	H	Ph	H	H	F	H	F	H	H	H	H
(II)－1168	O	1	H	Ph	H	H	F	H	H	F	H	H	H
(II)－1169	O	1	H	Ph	H	H	F	H	H	H	F	H	H
(II)－1170	O	1	H	Ph	H	H	F	H	H	H	H	F	H
(II)－1171	O	1	H	Ph	H	H	F	H	H	H	H	H	F
(II)－1172	O	1	H	Ph	H	H	H	F	F	H	H	H	H
(II)－1173	O	1	H	Ph	H	H	H	F	H	F	H	H	H
(II)－1174	O	1	H	Ph	H	H	H	F	H	H	F	H	H
(II)－1175	O	1	H	Ph	H	H	H	F	H	H	H	F	H
(II)－1176	O	1	H	Ph	H	H	H	F	H	H	H	H	F
(II)－1177	O	1	H	Ph	H	H	H	H	F	F	H	H	H
(II)－1178	O	1	H	Ph	H	H	H	H	F	H	F	H	H
(II)－1179	O	1	H	Ph	H	H	H	H	F	H	H	F	H
(II)－1180	O	1	H	Ph	H	H	H	H	F	H	H	H	F
(II)－1181	O	1	H	Ph	H	H	H	H	H	F	F	H	H
(II)－1182	O	1	H	Ph	H	H	H	H	H	F	H	F	H
(II)－1183	O	1	H	Ph	H	H	H	H	H	F	H	H	F
(II)－1184	O	1	H	Ph	H	H	H	H	H	H	F	F	H
(II)－1185	O	1	H	Ph	H	H	H	H	H	H	F	H	F
(II)－1186	O	1	H	Ph	H	H	H	H	H	H	H	F	F
(II)－1187	O	1	F	Tol	H	H	H	H	H	H	H	H	H
(II)－1188	O	1	H	Tol	F	H	H	H	H	H	H	H	H
(II)－1189	O	1	H	Tol	H	F	H	H	H	H	H	H	H
(II)－1190	O	1	H	Tol	H	H	F	H	H	H	H	H	H
(II)－1191	O	1	H	Tol	H	H	H	F	H	H	H	H	H
(II)－1192	O	1	H	Tol	H	H	H	H	F	H	H	H	H
(II)－1193	O	1	H	Tol	H	H	H	H	H	F	H	H	H
(II)－1194	O	1	H	Tol	H	H	H	H	H	H	F	H	H
(II)－1195	O	1	H	Tol	H	H	H	H	H	H	H	F	H
(II)－1196	O	1	H	Tol	H	H	H	H	H	H	H	H	F
(II)－1197	O	1	F	Tol	F	H	H	H	H	H	H	H	H
(II)－1198	O	1	F	Tol	H	F	H	H	H	H	H	H	H
(II)－1199	O	1	F	Tol	H	H	F	H	H	H	H	H	H
(II)－1200	O	1	F	Tol	H	H	H	F	H	H	H	H	H

【表５９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1201	O	1	F	Tol	H	H	H	H	F	H	H	H	H
(II)－1202	O	1	F	Tol	H	H	H	H	H	F	H	H	H
(II)－1203	O	1	F	Tol	H	H	H	H	H	H	F	H	H
(II)－1204	O	1	F	Tol	H	H	H	H	H	H	H	F	H
(II)－1205	O	1	F	Tol	H	H	H	H	H	H	H	H	F
(II)－1206	O	1	H	Tol	F	F	H	H	H	H	H	H	H
(II)－1207	O	1	H	Tol	F	H	F	H	H	H	H	H	H
(II)－1208	O	1	H	Tol	F	H	H	F	H	H	H	H	H
(II)－1209	O	1	H	Tol	F	H	H	H	F	H	H	H	H
(II)－1210	O	1	H	Tol	F	H	H	H	H	F	H	H	H
(II)－1211	O	1	H	Tol	F	H	H	H	H	H	F	H	H
(II)－1212	O	1	H	Tol	F	H	H	H	H	H	H	F	H
(II)－1213	O	1	H	Tol	F	H	H	H	H	H	H	H	F
(II)－1214	O	1	H	Tol	H	F	F	H	H	H	H	H	H
(II)－1215	O	1	H	Tol	H	F	H	F	H	H	H	H	H
(II)－1216	O	1	H	Tol	H	F	H	H	F	H	H	H	H
(II)－1217	O	1	H	Tol	H	F	H	H	H	F	H	H	H
(II)－1218	O	1	H	Tol	H	F	H	H	H	H	F	H	H
(II)－1219	O	1	H	Tol	H	F	H	H	H	H	H	F	H
(II)－1220	O	1	H	Tol	H	F	H	H	H	H	H	H	F
(II)－1221	O	1	H	Tol	H	H	F	F	H	H	H	H	H
(II)－1222	O	1	H	Tol	H	H	F	H	F	H	H	H	H
(II)－1223	O	1	H	Tol	H	H	F	H	H	F	H	H	H
(II)－1224	O	1	H	Tol	H	H	F	H	H	H	F	H	H
(II)－1225	O	1	H	Tol	H	H	F	H	H	H	H	F	H
(II)－1226	O	1	H	Tol	H	H	F	H	H	H	H	H	F
(II)－1227	O	1	H	Tol	H	H	H	F	F	H	H	H	H
(II)－1228	O	1	H	Tol	H	H	H	F	H	F	H	H	H
(II)－1229	O	1	H	Tol	H	H	H	F	H	H	F	H	H
(II)－1230	O	1	H	Tol	H	H	H	F	H	H	H	F	H
(II)－1231	O	1	H	Tol	H	H	H	F	H	H	H	H	F
(II)－1232	O	1	H	Tol	H	H	H	H	F	F	H	H	H
(II)－1233	O	1	H	Tol	H	H	H	H	F	H	F	H	H
(II)－1234	O	1	H	Tol	H	H	H	H	F	H	H	F	H
(II)－1235	O	1	H	Tol	H	H	H	H	F	H	H	H	F
(II)－1236	O	1	H	Tol	H	H	H	H	H	F	F	H	H
(II)－1237	O	1	H	Tol	H	H	H	H	H	F	H	F	H
(II)－1238	O	1	H	Tol	H	H	H	H	H	F	H	H	F
(II)－1239	O	1	H	Tol	H	H	H	H	H	H	F	F	H
(II)－1240	O	1	H	Tol	H	H	H	H	H	H	F	H	F
(II)－1241	O	1	H	Tol	H	H	H	H	H	H	H	F	F
(II)－1242	O	1	F	Phen	H	H	H	H	H	H	H	H	H
(II)－1243	O	1	H	Phen	F	H	H	H	H	H	H	H	H
(II)－1244	O	1	H	Phen	H	F	H	H	H	H	H	H	H
(II)－1245	O	1	H	Phen	H	H	F	H	H	H	H	H	H
(II)－1246	O	1	H	Phen	H	H	H	F	H	H	H	H	H
(II)－1247	O	1	H	Phen	H	H	H	H	F	H	H	H	H
(II)－1248	O	1	H	Phen	H	H	H	H	H	F	H	H	H
(II)－1249	O	1	H	Phen	H	H	H	H	H	H	F	H	H
(II)－1250	O	1	H	Phen	H	H	H	H	H	H	H	F	H
(II)－1251	O	1	H	Phen	H	H	H	H	H	H	H	H	F
(II)－1252	O	1	F	Phen	F	H	H	H	H	H	H	H	H
(II)－1253	O	1	F	Phen	H	F	H	H	H	H	H	H	H
(II)－1254	O	1	F	Phen	H	H	F	H	H	H	H	H	H
(II)－1255	O	1	F	Phen	H	H	H	F	H	H	H	H	H
(II)－1256	O	1	F	Phen	H	H	H	H	F	H	H	H	H
(II)－1257	O	1	F	Phen	H	H	H	H	H	F	H	H	H
(II)－1258	O	1	F	Phen	H	H	H	H	H	H	F	H	H
(II)－1259	O	1	F	Phen	H	H	H	H	H	H	H	F	H
(II)－1260	O	1	F	Phen	H	H	H	H	H	H	H	H	F

【表６０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1261	O	1	H	Phen	F	F	H	H	H	H	H	H	H
(II)－1262	O	1	H	Phen	F	H	F	H	H	H	H	H	H
(II)－1263	O	1	H	Phen	F	H	H	F	H	H	H	H	H
(II)－1264	O	1	H	Phen	F	H	H	H	F	H	H	H	H
(II)－1265	O	1	H	Phen	F	H	H	H	H	F	H	H	H
(II)－1266	O	1	H	Phen	F	H	H	H	H	H	F	H	H
(II)－1267	O	1	H	Phen	F	H	H	H	H	H	H	F	H
(II)－1268	O	1	H	Phen	F	H	H	H	H	H	H	H	F
(II)－1269	O	1	H	Phen	H	F	F	H	H	H	H	H	H
(II)－1270	O	1	H	Phen	H	F	H	F	H	H	H	H	H
(II)－1271	O	1	H	Phen	H	F	H	H	F	H	H	H	H
(II)－1272	O	1	H	Phen	H	F	H	H	H	F	H	H	H
(II)－1273	O	1	H	Phen	H	F	H	H	H	H	F	H	H
(II)－1274	O	1	H	Phen	H	F	H	H	H	H	H	F	H
(II)－1275	O	1	H	Phen	H	F	H	H	H	H	H	H	F
(II)－1276	O	1	H	Phen	H	H	F	F	H	H	H	H	H
(II)－1277	O	1	H	Phen	H	H	F	H	F	H	H	H	H
(II)－1278	O	1	H	Phen	H	H	F	H	H	F	H	H	H
(II)－1279	O	1	H	Phen	H	H	F	H	H	H	F	H	H
(II)－1280	O	1	H	Phen	H	H	F	H	H	H	H	F	H
(II)－1281	O	1	H	Phen	H	H	F	H	H	H	H	H	F
(II)－1282	O	1	H	Phen	H	H	H	F	F	H	H	H	H
(II)－1283	O	1	H	Phen	H	H	H	F	H	F	H	H	H
(II)－1284	O	1	H	Phen	H	H	H	F	H	H	F	H	H
(II)－1285	O	1	H	Phen	H	H	H	F	H	H	H	F	H
(II)－1286	O	1	H	Phen	H	H	H	F	H	H	H	H	F
(II)－1287	O	1	H	Phen	H	H	H	H	F	F	H	H	H
(II)－1288	O	1	H	Phen	H	H	H	H	F	H	F	H	H
(II)－1289	O	1	H	Phen	H	H	H	H	F	H	H	F	H
(II)－1290	O	1	H	Phen	H	H	H	H	F	H	H	H	F
(II)－1291	O	1	H	Phen	H	H	H	H	H	F	F	H	H
(II)－1292	O	1	H	Phen	H	H	H	H	H	F	H	F	H
(II)－1293	O	1	H	Phen	H	H	H	H	H	F	H	H	F
(II)－1294	O	1	H	Phen	H	H	H	H	H	H	F	F	H
(II)－1295	O	1	H	Phen	H	H	H	H	H	H	F	H	F
(II)－1296	O	1	H	Phen	H	H	H	H	H	H	H	F	F
(II)－1297	S	1	F	H	H	H	H	H	H	H	H	H	H
(II)－1298	S	1	H	F	H	H	H	H	H	H	H	H	H
(II)－1299	S	1	H	H	F	H	H	H	H	H	H	H	H
(II)－1300	S	1	H	H	H	F	H	H	H	H	H	H	H
(II)－1301	S	1	H	H	H	H	F	H	H	H	H	H	H
(II)－1302	S	1	H	H	H	H	H	F	H	H	H	H	H
(II)－1303	S	1	H	H	H	H	H	H	F	H	H	H	H
(II)－1304	S	1	H	H	H	H	H	H	H	F	H	H	H
(II)－1305	S	1	H	H	H	H	H	H	H	H	F	H	H
(II)－1306	S	1	H	H	H	H	H	H	H	H	H	F	H
(II)－1307	S	1	H	H	H	H	H	H	H	H	H	H	F
(II)－1308	S	1	F	F	H	H	H	H	H	H	H	H	H
(II)－1309	S	1	F	H	F	H	H	H	H	H	H	H	H
(II)－1310	S	1	F	H	H	F	H	H	H	H	H	H	H
(II)－1311	S	1	F	H	H	H	F	H	H	H	H	H	H
(II)－1312	S	1	F	H	H	H	H	F	H	H	H	H	H
(II)－1313	S	1	F	H	H	H	H	H	F	H	H	H	H
(II)－1314	S	1	F	H	H	H	H	H	H	F	H	H	H
(II)－1315	S	1	F	H	H	H	H	H	H	H	F	H	H
(II)－1316	S	1	F	H	H	H	H	H	H	H	H	F	H
(II)－1317	S	1	F	H	H	H	H	H	H	H	H	H	F
(II)－1318	S	1	H	F	F	H	H	H	H	H	H	H	H
(II)－1319	S	1	H	F	H	F	H	H	H	H	H	H	H
(II)－1320	S	1	H	F	H	H	F	H	H	H	H	H	H

【表６１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1321	S	1	H	F	H	H	H	F	H	H	H	H	H
(II)－1322	S	1	H	F	H	H	H	H	F	H	H	H	H
(II)－1323	S	1	H	F	H	H	H	H	H	F	H	H	H
(II)－1324	S	1	H	F	H	H	H	H	H	H	F	H	H
(II)－1325	S	1	H	F	H	H	H	H	H	H	H	F	H
(II)－1326	S	1	H	F	H	H	H	H	H	H	H	H	F
(II)－1327	S	1	H	H	F	F	H	H	H	H	H	H	H
(II)－1328	S	1	H	H	F	H	F	H	H	H	H	H	H
(II)－1329	S	1	H	H	F	H	H	F	H	H	H	H	H
(II)－1330	S	1	H	H	F	H	H	H	F	H	H	H	H
(II)－1331	S	1	H	H	F	H	H	H	H	F	H	H	H
(II)－1332	S	1	H	H	F	H	H	H	H	H	F	H	H
(II)－1333	S	1	H	H	F	H	H	H	H	H	H	F	H
(II)－1334	S	1	H	H	F	H	H	H	H	H	H	H	F
(II)－1335	S	1	H	H	H	F	F	H	H	H	H	H	H
(II)－1336	S	1	H	H	H	F	H	F	H	H	H	H	H
(II)－1337	S	1	H	H	H	F	H	H	F	H	H	H	H
(II)－1338	S	1	H	H	H	F	H	H	H	F	H	H	H
(II)－1339	S	1	H	H	H	F	H	H	H	H	F	H	H
(II)－1340	S	1	H	H	H	F	H	H	H	H	H	F	H
(II)－1341	S	1	H	H	H	F	H	H	H	H	H	H	F
(II)－1342	S	1	H	H	H	H	F	F	H	H	H	H	H
(II)－1343	S	1	H	H	H	H	F	H	F	H	H	H	H
(II)－1344	S	1	H	H	H	H	F	H	H	F	H	H	H
(II)－1345	S	1	H	H	H	H	F	H	H	H	F	H	H
(II)－1346	S	1	H	H	H	H	F	H	H	H	H	F	H
(II)－1347	S	1	H	H	H	H	F	H	H	H	H	H	F
(II)－1348	S	1	H	H	H	H	H	F	F	H	H	H	H
(II)－1349	S	1	H	H	H	H	H	F	H	F	H	H	H
(II)－1350	S	1	H	H	H	H	H	F	H	H	F	H	H
(II)－1351	S	1	H	H	H	H	H	F	H	H	H	F	H
(II)－1352	S	1	H	H	H	H	H	F	H	H	H	H	F
(II)－1353	S	1	H	H	H	H	H	H	F	F	H	H	H
(II)－1354	S	1	H	H	H	H	H	H	F	H	F	H	H
(II)－1355	S	1	H	H	H	H	H	H	F	H	H	F	H
(II)－1356	S	1	H	H	H	H	H	H	F	H	H	H	F
(II)－1357	S	1	H	H	H	H	H	H	H	F	F	H	H
(II)－1358	S	1	H	H	H	H	H	H	H	F	H	F	H
(II)－1359	S	1	H	H	H	H	H	H	H	F	H	H	F
(II)－1360	S	1	H	H	H	H	H	H	H	H	F	F	H
(II)－1361	S	1	H	H	H	H	H	H	H	H	F	H	F
(II)－1362	S	1	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－1363	S	1	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－1364	S	1	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－1365	S	1	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－1366	S	1	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－1367	S	1	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－1368	S	1	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－1369	S	1	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－1370	S	1	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－1371	S	1	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－1372	S	1	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－1373	S	1	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－1374	S	1	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－1375	S	1	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－1376	S	1	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－1377	S	1	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－1378	S	1	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－1379	S	1	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－1380	S	1	H	CH_3	H	H	H	H	H	H	H	F	H

【表６２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1381	S	1	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－1382	S	1	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－1383	S	1	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－1384	S	1	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－1385	S	1	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－1386	S	1	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－1387	S	1	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1388	S	1	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1389	S	1	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－1390	S	1	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－1391	S	1	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－1392	S	1	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－1393	S	1	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－1394	S	1	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－1395	S	1	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－1396	S	1	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－1397	S	1	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－1398	S	1	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－1399	S	1	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－1400	S	1	H	H	H	H	CH_3	H	H	F	H	H	H
(II)－1401	S	1	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－1402	S	1	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－1403	S	1	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－1404	S	1	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－1405	S	1	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－1406	S	1	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－1407	S	1	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－1408	S	1	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－1409	S	1	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－1410	S	1	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－1411	S	1	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－1412	S	1	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－1413	S	1	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－1414	S	1	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－1415	S	1	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－1416	S	1	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－1417	S	1	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－1418	S	1	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－1419	S	1	H	Ph	H	H	H	H	H	H	H	H	H
(II)－1420	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－1421	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－1422	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－1423	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－1424	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－1425	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－1426	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－1427	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－1428	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－1429	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－1430	S	1	H	Tol	H	H	H	H	H	H	H	H	H
(II)－1431	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－1432	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－1433	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－1434	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－1435	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－1436	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－1437	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－1438	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－1439	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－1440	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表６３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1441	S	1	H	Phen	H	H	H	H	H	H	H	H	H
(II)－1442	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－1443	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－1444	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－1445	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－1446	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－1447	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－1448	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－1449	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－1450	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－1451	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－1452	S	1	F	Ph	H	H	H	H	H	H	H	H	H
(II)－1453	S	1	H	Ph	F	H	H	H	H	H	H	H	H
(II)－1454	S	1	H	Ph	H	F	H	H	H	H	H	H	H
(II)－1455	S	1	H	Ph	H	H	F	H	H	H	H	H	H
(II)－1456	S	1	H	Ph	H	H	H	F	H	H	H	H	H
(II)－1457	S	1	H	Ph	H	H	H	H	F	H	H	H	H
(II)－1458	S	1	H	Ph	H	H	H	H	H	F	H	H	H
(II)－1459	S	1	H	Ph	H	H	H	H	H	H	F	H	H
(II)－1460	S	1	H	Ph	H	H	H	H	H	H	H	F	H
(II)－1461	S	1	H	Ph	H	H	H	H	H	H	H	H	F
(II)－1462	S	1	F	Ph	F	H	H	H	H	H	H	H	H
(II)－1463	S	1	F	Ph	H	F	H	H	H	H	H	H	H
(II)－1464	S	1	F	Ph	H	H	F	H	H	H	H	H	H
(II)－1465	S	1	F	Ph	H	H	H	F	H	H	H	H	H
(II)－1466	S	1	F	Ph	H	H	H	H	F	H	H	H	H
(II)－1467	S	1	F	Ph	H	H	H	H	H	F	H	H	H
(II)－1468	S	1	F	Ph	H	H	H	H	H	H	F	H	H
(II)－1469	S	1	F	Ph	H	H	H	H	H	H	H	F	H
(II)－1470	S	1	F	Ph	H	H	H	H	H	H	H	H	F
(II)－1471	S	1	H	Ph	F	F	H	H	H	H	H	H	H
(II)－1472	S	1	H	Ph	F	H	F	H	H	H	H	H	H
(II)－1473	S	1	H	Ph	F	H	H	F	H	H	H	H	H
(II)－1474	S	1	H	Ph	F	H	H	H	F	H	H	H	H
(II)－1475	S	1	H	Ph	F	H	H	H	H	F	H	H	H
(II)－1476	S	1	H	Ph	F	H	H	H	H	H	F	H	H
(II)－1477	S	1	H	Ph	F	H	H	H	H	H	H	F	H
(II)－1478	S	1	H	Ph	F	H	H	H	H	H	H	H	F
(II)－1479	S	1	H	Ph	H	F	F	H	H	H	H	H	H
(II)－1480	S	1	H	Ph	H	F	H	F	H	H	H	H	H
(II)－1481	S	1	H	Ph	H	F	H	H	F	H	H	H	H
(II)－1482	S	1	H	Ph	H	F	H	H	H	F	H	H	H
(II)－1483	S	1	H	Ph	H	F	H	H	H	H	F	H	H
(II)－1484	S	1	H	Ph	H	F	H	H	H	H	H	F	H
(II)－1485	S	1	H	Ph	H	F	H	H	H	H	H	H	F
(II)－1486	S	1	H	Ph	H	H	F	F	H	H	H	H	H
(II)－1487	S	1	H	Ph	H	H	F	H	F	H	H	H	H
(II)－1488	S	1	H	Ph	H	H	F	H	H	F	H	H	H
(II)－1489	S	1	H	Ph	H	H	F	H	H	H	F	H	H
(II)－1490	S	1	H	Ph	H	H	F	H	H	H	H	F	H
(II)－1491	S	1	H	Ph	H	H	F	H	H	H	H	H	F
(II)－1492	S	1	H	Ph	H	H	H	F	F	H	H	H	H
(II)－1493	S	1	H	Ph	H	H	H	F	H	F	H	H	H
(II)－1494	S	1	H	Ph	H	H	H	F	H	H	F	H	H
(II)－1495	S	1	H	Ph	H	H	H	F	H	H	H	F	H
(II)－1496	S	1	H	Ph	H	H	H	F	H	H	H	H	F
(II)－1497	S	1	H	Ph	H	H	H	H	F	F	H	H	H
(II)－1498	S	1	H	Ph	H	H	H	H	F	H	F	H	H
(II)－1499	S	1	H	Ph	H	H	H	H	F	H	H	F	H
(II)－1500	S	1	H	Ph	H	H	H	H	F	H	H	H	F

【表６４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1501	S	1	H	Ph	H	H	H	H	H	F	F	H	H
(II)－1502	S	1	H	Ph	H	H	H	H	H	F	H	F	H
(II)－1503	S	1	H	Ph	H	H	H	H	H	F	H	H	F
(II)－1504	S	1	H	Ph	H	H	H	H	H	H	F	F	H
(II)－1505	S	1	H	Ph	H	H	H	H	H	H	F	H	F
(II)－1506	S	1	H	Ph	H	H	H	H	H	H	H	F	F
(II)－1507	S	1	F	Tol	H	H	H	H	H	H	H	H	H
(II)－1508	S	1	H	Tol	F	H	H	H	H	H	H	H	H
(II)－1509	S	1	H	Tol	H	F	H	H	H	H	H	H	H
(II)－1510	S	1	H	Tol	H	H	F	H	H	H	H	H	H
(II)－1511	S	1	H	Tol	H	H	H	F	H	H	H	H	H
(II)－1512	S	1	H	Tol	H	H	H	H	F	H	H	H	H
(II)－1513	S	1	H	Tol	H	H	H	H	H	F	H	H	H
(II)－1514	S	1	H	Tol	H	H	H	H	H	H	F	H	H
(II)－1515	S	1	H	Tol	H	H	H	H	H	H	H	F	H
(II)－1516	S	1	H	Tol	H	H	H	H	H	H	H	H	F
(II)－1517	S	1	F	Tol	F	H	H	H	H	H	H	H	H
(II)－1518	S	1	F	Tol	H	F	H	H	H	H	H	H	H
(II)－1519	S	1	F	Tol	H	H	F	H	H	H	H	H	H
(II)－1520	S	1	F	Tol	H	H	H	F	H	H	H	H	H
(II)－1521	S	1	F	Tol	H	H	H	H	F	H	H	H	H
(II)－1522	S	1	F	Tol	H	H	H	H	H	F	H	H	H
(II)－1523	S	1	F	Tol	H	H	H	H	H	H	F	H	H
(II)－1524	S	1	F	Tol	H	H	H	H	H	H	H	F	H
(II)－1525	S	1	F	Tol	H	H	H	H	H	H	H	H	F
(II)－1526	S	1	H	Tol	F	F	H	H	H	H	H	H	H
(II)－1527	S	1	H	Tol	F	H	F	H	H	H	H	H	H
(II)－1528	S	1	H	Tol	F	H	H	F	H	H	H	H	H
(II)－1529	S	1	H	Tol	F	H	H	H	F	H	H	H	H
(II)－1530	S	1	H	Tol	F	H	H	H	H	F	H	H	H
(II)－1531	S	1	H	Tol	F	H	H	H	H	H	F	H	H
(II)－1532	S	1	H	Tol	F	H	H	H	H	H	H	F	H
(II)－1533	S	1	H	Tol	F	H	H	H	H	H	H	H	F
(II)－1534	S	1	H	Tol	H	F	F	H	H	H	H	H	H
(II)－1535	S	1	H	Tol	H	F	H	F	H	H	H	H	H
(II)－1536	S	1	H	Tol	H	F	H	H	F	H	H	H	H
(II)－1537	S	1	H	Tol	H	F	H	H	H	F	H	H	H
(II)－1538	S	1	H	Tol	H	F	H	H	H	H	F	H	H
(II)－1539	S	1	H	Tol	H	F	H	H	H	H	H	F	H
(II)－1540	S	1	H	Tol	H	F	H	H	H	H	H	H	F
(II)－1541	S	1	H	Tol	H	H	F	F	H	H	H	H	H
(II)－1542	S	1	H	Tol	H	H	F	H	F	H	H	H	H
(II)－1543	S	1	H	Tol	H	H	F	H	H	F	H	H	H
(II)－1544	S	1	H	Tol	H	H	F	H	H	H	F	H	H
(II)－1545	S	1	H	Tol	H	H	F	H	H	H	H	F	H
(II)－1546	S	1	H	Tol	H	H	F	H	H	H	H	H	F
(II)－1547	S	1	H	Tol	H	H	H	F	F	H	H	H	H
(II)－1548	S	1	H	Tol	H	H	H	F	H	F	H	H	H
(II)－1549	S	1	H	Tol	H	H	H	F	H	H	F	H	H
(II)－1550	S	1	H	Tol	H	H	H	F	H	H	H	F	H
(II)－1551	S	1	H	Tol	H	H	H	F	H	H	H	H	F
(II)－1552	S	1	H	Tol	H	H	H	H	F	F	H	H	H
(II)－1553	S	1	H	Tol	H	H	H	H	F	H	F	H	H
(II)－1554	S	1	H	Tol	H	H	H	H	F	H	H	F	H
(II)－1555	S	1	H	Tol	H	H	H	H	F	H	H	H	F
(II)－1556	S	1	H	Tol	H	H	H	H	H	F	F	H	H
(II)－1557	S	1	H	Tol	H	H	H	H	H	F	H	F	H
(II)－1558	S	1	H	Tol	H	H	H	H	H	F	H	H	F
(II)－1559	S	1	H	Tol	H	H	H	H	H	H	F	F	H
(II)－1560	S	1	H	Tol	H	H	H	H	H	H	F	H	F

【表６５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1561	S	1	H	Tol	H	H	H	H	H	H	H	F	F
(II)－1562	S	1	F	Phen	H	H	H	H	H	H	H	H	H
(II)－1563	S	1	H	Phen	F	H	H	H	H	H	H	H	H
(II)－1564	S	1	H	Phen	H	F	H	H	H	H	H	H	H
(II)－1565	S	1	H	Phen	H	H	F	H	H	H	H	H	H
(II)－1566	S	1	H	Phen	H	H	H	F	H	H	H	H	H
(II)－1567	S	1	H	Phen	H	H	H	H	F	H	H	H	H
(II)－1568	S	1	H	Phen	H	H	H	H	H	F	H	H	H
(II)－1569	S	1	H	Phen	H	H	H	H	H	H	F	H	H
(II)－1570	S	1	H	Phen	H	H	H	H	H	H	H	F	H
(II)－1571	S	1	H	Phen	H	H	H	H	H	H	H	H	F
(II)－1572	S	1	F	Phen	F	H	H	H	H	H	H	H	H
(II)－1573	S	1	F	Phen	H	F	H	H	H	H	H	H	H
(II)－1574	S	1	F	Phen	H	H	F	H	H	H	H	H	H
(II)－1575	S	1	F	Phen	H	H	H	F	H	H	H	H	H
(II)－1576	S	1	F	Phen	H	H	H	H	F	H	H	H	H
(II)－1577	S	1	F	Phen	H	H	H	H	H	F	H	H	H
(II)－1578	S	1	F	Phen	H	H	H	H	H	H	F	H	H
(II)－1579	S	1	F	Phen	H	H	H	H	H	H	H	F	H
(II)－1580	S	1	F	Phen	H	H	H	H	H	H	H	H	F
(II)－1581	S	1	H	Phen	F	F	H	H	H	H	H	H	H
(II)－1582	S	1	H	Phen	F	H	F	H	H	H	H	H	H
(II)－1583	S	1	H	Phen	F	H	H	F	H	H	H	H	H
(II)－1584	S	1	H	Phen	F	H	H	H	F	H	H	H	H
(II)－1585	S	1	H	Phen	F	H	H	H	H	F	H	H	H
(II)－1586	S	1	H	Phen	F	H	H	H	H	H	F	H	H
(II)－1587	S	1	H	Phen	F	H	H	H	H	H	H	F	H
(II)－1588	S	1	H	Phen	F	H	H	H	H	H	H	H	F
(II)－1589	S	1	H	Phen	H	F	F	H	H	H	H	H	H
(II)－1590	S	1	H	Phen	H	F	H	F	H	H	H	H	H
(II)－1591	S	1	H	Phen	H	F	H	H	F	H	H	H	H
(II)－1592	S	1	H	Phen	H	F	H	H	H	F	H	H	H
(II)－1593	S	1	H	Phen	H	F	H	H	H	H	F	H	H
(II)－1594	S	1	H	Phen	H	F	H	H	H	H	H	F	H
(II)－1595	S	1	H	Phen	H	F	H	H	H	H	H	H	F
(II)－1596	S	1	H	Phen	H	H	F	F	H	H	H	H	H
(II)－1597	S	1	H	Phen	H	H	F	H	F	H	H	H	H
(II)－1598	S	1	H	Phen	H	H	F	H	H	F	H	H	H
(II)－1599	S	1	H	Phen	H	H	F	H	H	H	F	H	H
(II)－1600	S	1	H	Phen	H	H	F	H	H	H	H	F	H
(II)－1601	S	1	H	Phen	H	H	F	H	H	H	H	H	F
(II)－1602	S	1	H	Phen	H	H	H	F	F	H	H	H	H
(II)－1603	S	1	H	Phen	H	H	H	F	H	F	H	H	H
(II)－1604	S	1	H	Phen	H	H	H	F	H	H	F	H	H
(II)－1605	S	1	H	Phen	H	H	H	F	H	H	H	F	H
(II)－1606	S	1	H	Phen	H	H	H	F	H	H	H	H	F
(II)－1607	S	1	H	Phen	H	H	H	H	F	F	H	H	H
(II)－1608	S	1	H	Phen	H	H	H	H	F	H	F	H	H
(II)－1609	S	1	H	Phen	H	H	H	H	F	H	H	F	H
(II)－1610	S	1	H	Phen	H	H	H	H	F	H	H	H	F
(II)－1611	S	1	H	Phen	H	H	H	H	H	F	F	H	H
(II)－1612	S	1	H	Phen	H	H	H	H	H	F	H	F	H
(II)－1613	S	1	H	Phen	H	H	H	H	H	F	H	H	F
(II)－1614	S	1	H	Phen	H	H	H	H	H	H	F	F	H
(II)－1615	S	1	H	Phen	H	H	H	H	H	H	F	H	F
(II)－1616	S	1	H	Phen	H	H	H	H	H	H	H	F	F
(II)－1617	O	2	F	H	H	H	H	H	H	H	H	H	H
(II)－1618	O	2	H	F	H	H	H	H	H	H	H	H	H
(II)－1619	O	2	H	H	F	H	H	H	H	H	H	H	H
(II)－1620	O	2	H	H	H	F	H	H	H	H	H	H	H

【表６６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1621	O	2	H	H	H	H	F	H	H	H	H	H	H
(II)－1622	O	2	H	H	H	H	H	F	H	H	H	H	H
(II)－1623	O	2	H	H	H	H	H	H	F	H	H	H	H
(II)－1624	O	2	H	H	H	H	H	H	H	F	H	H	H
(II)－1625	O	2	H	H	H	H	H	H	H	H	F	H	H
(II)－1626	O	2	H	H	H	H	H	H	H	H	H	F	H
(II)－1627	O	2	H	H	H	H	H	H	H	H	H	H	F
(II)－1628	O	2	F	F	H	H	H	H	H	H	H	H	H
(II)－1629	O	2	F	H	F	H	H	H	H	H	H	H	H
(II)－1630	O	2	F	H	H	F	H	H	H	H	H	H	H
(II)－1631	O	2	F	H	H	H	F	H	H	H	H	H	H
(II)－1632	O	2	F	H	H	H	H	F	H	H	H	H	H
(II)－1633	O	2	F	H	H	H	H	H	F	H	H	H	H
(II)－1634	O	2	F	H	H	H	H	H	H	F	H	H	H
(II)－1635	O	2	F	H	H	H	H	H	H	H	F	H	H
(II)－1636	O	2	F	H	H	H	H	H	H	H	H	F	H
(II)－1637	O	2	F	H	H	H	H	H	H	H	H	H	F
(II)－1638	O	2	H	F	F	H	H	H	H	H	H	H	H
(II)－1639	O	2	H	F	H	F	H	H	H	H	H	H	H
(II)－1640	O	2	H	F	H	H	F	H	H	H	H	H	H
(II)－1641	O	2	H	F	H	H	H	F	H	H	H	H	H
(II)－1642	O	2	H	F	H	H	H	H	F	H	H	H	H
(II)－1643	O	2	H	F	H	H	H	H	H	F	H	H	H
(II)－1644	O	2	H	F	H	H	H	H	H	H	F	H	H
(II)－1645	O	2	H	F	H	H	H	H	H	H	H	F	H
(II)－1646	O	2	H	F	H	H	H	H	H	H	H	H	F
(II)－1647	O	2	H	H	F	F	H	H	H	H	H	H	H
(II)－1648	O	2	H	H	F	H	F	H	H	H	H	H	H
(II)－1649	O	2	H	H	F	H	H	F	H	H	H	H	H
(II)－1650	O	2	H	H	F	H	H	H	F	H	H	H	H
(II)－1651	O	2	H	H	F	H	H	H	H	F	H	H	H
(II)－1652	O	2	H	H	F	H	H	H	H	H	F	H	H
(II)－1653	O	2	H	H	F	H	H	H	H	H	H	F	H
(II)－1654	O	2	H	H	F	H	H	H	H	H	H	H	F
(II)－1655	O	2	H	H	H	F	F	H	H	H	H	H	H
(II)－1656	O	2	H	H	H	F	H	F	H	H	H	H	H
(II)－1657	O	2	H	H	H	F	H	H	F	H	H	H	H
(II)－1658	O	2	H	H	H	F	H	H	H	F	H	H	H
(II)－1659	O	2	H	H	H	F	H	H	H	H	F	H	H
(II)－1660	O	2	H	H	H	F	H	H	H	H	H	F	H
(II)－1661	O	2	H	H	H	F	H	H	H	H	H	H	F
(II)－1662	O	2	H	H	H	H	F	F	H	H	H	H	H
(II)－1663	O	2	H	H	H	H	F	H	F	H	H	H	H
(II)－1664	O	2	H	H	H	H	F	H	H	F	H	H	H
(II)－1665	O	2	H	H	H	H	F	H	H	H	F	H	H
(II)－1666	O	2	H	H	H	H	F	H	H	H	H	F	H
(II)－1667	O	2	H	H	H	H	F	H	H	H	H	H	F
(II)－1668	O	2	H	H	H	H	H	F	F	H	H	H	H
(II)－1669	O	2	H	H	H	H	H	F	H	F	H	H	H
(II)－1670	O	2	H	H	H	H	H	F	H	H	F	H	H
(II)－1671	O	2	H	H	H	H	H	F	H	H	H	F	H
(II)－1672	O	2	H	H	H	H	H	F	H	H	H	H	F
(II)－1673	O	2	H	H	H	H	H	H	F	F	H	H	H
(II)－1674	O	2	H	H	H	H	H	H	F	H	F	H	H
(II)－1675	O	2	H	H	H	H	H	H	F	H	H	F	H
(II)－1676	O	2	H	H	H	H	H	H	F	H	H	H	F
(II)－1677	O	2	H	H	H	H	H	H	H	F	F	H	H
(II)－1678	O	2	H	H	H	H	H	H	H	F	H	F	H
(II)－1679	O	2	H	H	H	H	H	H	H	F	H	H	F
(II)－1680	O	2	H	H	H	H	H	H	H	H	F	F	H

【表６７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1681	O	2	H	H	H	H	H	H	H	H	F	H	F
(II)－1682	O	2	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－1683	O	2	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－1684	O	2	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－1685	O	2	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－1686	O	2	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－1687	O	2	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－1688	O	2	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－1689	O	2	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－1690	O	2	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－1691	O	2	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－1692	O	2	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－1693	O	2	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－1694	O	2	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－1695	O	2	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－1696	O	2	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－1697	O	2	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－1698	O	2	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－1699	O	2	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－1700	O	2	H	CH_3	H	H	H	H	H	H	H	F	H
(II)－1701	O	2	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－1702	O	2	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－1703	O	2	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－1704	O	2	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－1705	O	2	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－1706	O	2	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－1707	O	2	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1708	O	2	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－1709	O	2	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－1710	O	2	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－1711	O	2	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－1712	O	2	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－1713	O	2	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－1714	O	2	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－1715	O	2	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－1716	O	2	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－1717	O	2	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－1718	O	2	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－1719	O	2	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－1720	O	2	H	H	H	H	CH_3	H	H	F	H	H	H
(II)－1721	O	2	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－1722	O	2	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－1723	O	2	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－1724	O	2	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－1725	O	2	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－1726	O	2	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－1727	O	2	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－1728	O	2	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－1729	O	2	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－1730	O	2	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－1731	O	2	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－1732	O	2	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－1733	O	2	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－1734	O	2	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－1735	O	2	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－1736	O	2	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－1737	O	2	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－1738	O	2	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－1739	O	2	H	Ph	H	H	H	H	H	H	H	H	H
(II)－1740	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H

【表６８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1741	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－1742	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－1743	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－1744	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－1745	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－1746	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－1747	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－1748	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－1749	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－1750	O	2	H	Tol	H	H	H	H	H	H	H	H	H
(II)－1751	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－1752	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－1753	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－1754	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－1755	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－1756	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－1757	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－1758	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－1759	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－1760	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3
(II)－1761	O	2	H	Phen	H	H	H	H	H	H	H	H	H
(II)－1762	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－1763	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－1764	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－1765	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－1766	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－1767	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－1768	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－1769	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－1770	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－1771	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－1772	O	2	F	Ph	H	H	H	H	H	H	H	H	H
(II)－1773	O	2	H	Ph	F	H	H	H	H	H	H	H	H
(II)－1774	O	2	H	Ph	H	F	H	H	H	H	H	H	H
(II)－1775	O	2	H	Ph	H	H	F	H	H	H	H	H	H
(II)－1776	O	2	H	Ph	H	H	H	F	H	H	H	H	H
(II)－1777	O	2	H	Ph	H	H	H	H	F	H	H	H	H
(II)－1778	O	2	H	Ph	H	H	H	H	H	F	H	H	H
(II)－1779	O	2	H	Ph	H	H	H	H	H	H	F	H	H
(II)－1780	O	2	H	Ph	H	H	H	H	H	H	H	F	H
(II)－1781	O	2	H	Ph	H	H	H	H	H	H	H	H	F
(II)－1782	O	2	F	Ph	F	H	H	H	H	H	H	H	H
(II)－1783	O	2	F	Ph	H	F	H	H	H	H	H	H	H
(II)－1784	O	2	F	Ph	H	H	F	H	H	H	H	H	H
(II)－1785	O	2	F	Ph	H	H	H	F	H	H	H	H	H
(II)－1786	O	2	F	Ph	H	H	H	H	F	H	H	H	H
(II)－1787	O	2	F	Ph	H	H	H	H	H	F	H	H	H
(II)－1788	O	2	F	Ph	H	H	H	H	H	H	F	H	H
(II)－1789	O	2	F	Ph	H	H	H	H	H	H	H	F	H
(II)－1790	O	2	F	Ph	H	H	H	H	H	H	H	H	F
(II)－1791	O	2	H	Ph	F	F	H	H	H	H	H	H	H
(II)－1792	O	2	H	Ph	F	H	F	H	H	H	H	H	H
(II)－1793	O	2	H	Ph	F	H	H	F	H	H	H	H	H
(II)－1794	O	2	H	Ph	F	H	H	H	F	H	H	H	H
(II)－1795	O	2	H	Ph	F	H	H	H	H	F	H	H	H
(II)－1796	O	2	H	Ph	F	H	H	H	H	H	F	H	H
(II)－1797	O	2	H	Ph	F	H	H	H	H	H	H	F	H
(II)－1798	O	2	H	Ph	F	H	H	H	H	H	H	H	F
(II)－1799	O	2	H	Ph	H	F	F	H	H	H	H	H	H
(II)－1800	O	2	H	Ph	H	F	H	F	H	H	H	H	H

【表６９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1801	O	2	H	Ph	H	F	H	H	F	H	H	H	H
(II)－1802	O	2	H	Ph	H	F	H	H	H	F	H	H	H
(II)－1803	O	2	H	Ph	H	F	H	H	H	H	F	H	H
(II)－1804	O	2	H	Ph	H	F	H	H	H	H	H	F	H
(II)－1805	O	2	H	Ph	H	F	H	H	H	H	H	H	F
(II)－1806	O	2	H	Ph	H	H	F	F	H	H	H	H	H
(II)－1807	O	2	H	Ph	H	H	F	H	F	H	H	H	H
(II)－1808	O	2	H	Ph	H	H	F	H	H	F	H	H	H
(II)－1809	O	2	H	Ph	H	H	F	H	H	H	F	H	H
(II)－1810	O	2	H	Ph	H	H	F	H	H	H	H	F	H
(II)－1811	O	2	H	Ph	H	H	F	H	H	H	H	H	F
(II)－1812	O	2	H	Ph	H	H	H	F	F	H	H	H	H
(II)－1813	O	2	H	Ph	H	H	H	F	H	F	H	H	H
(II)－1814	O	2	H	Ph	H	H	H	F	H	H	F	H	H
(II)－1815	O	2	H	Ph	H	H	H	F	H	H	H	F	H
(II)－1816	O	2	H	Ph	H	H	H	F	H	H	H	H	F
(II)－1817	O	2	H	Ph	H	H	H	H	F	F	H	H	H
(II)－1818	O	2	H	Ph	H	H	H	H	F	H	F	H	H
(II)－1819	O	2	H	Ph	H	H	H	H	F	H	H	F	H
(II)－1820	O	2	H	Ph	H	H	H	H	F	H	H	H	F
(II)－1821	O	2	H	Ph	H	H	H	H	H	F	F	H	H
(II)－1822	O	2	H	Ph	H	H	H	H	H	F	H	F	H
(II)－1823	O	2	H	Ph	H	H	H	H	H	F	H	H	F
(II)－1824	O	2	H	Ph	H	H	H	H	H	H	F	F	H
(II)－1825	O	2	H	Ph	H	H	H	H	H	H	F	H	F
(II)－1826	O	2	H	Ph	H	H	H	H	H	H	H	F	F
(II)－1827	O	2	F	Tol	H	H	H	H	H	H	H	H	H
(II)－1828	O	2	H	Tol	F	H	H	H	H	H	H	H	H
(II)－1829	O	2	H	Tol	H	F	H	H	H	H	H	H	H
(II)－1830	O	2	H	Tol	H	H	F	H	H	H	H	H	H
(II)－1831	O	2	H	Tol	H	H	H	F	H	H	H	H	H
(II)－1832	O	2	H	Tol	H	H	H	H	F	H	H	H	H
(II)－1833	O	2	H	Tol	H	H	H	H	H	F	H	H	H
(II)－1834	O	2	H	Tol	H	H	H	H	H	H	F	H	H
(II)－1835	O	2	H	Tol	H	H	H	H	H	H	H	F	H
(II)－1836	O	2	H	Tol	H	H	H	H	H	H	H	H	F
(II)－1837	O	2	F	Tol	F	H	H	H	H	H	H	H	H
(II)－1838	O	2	F	Tol	H	F	H	H	H	H	H	H	H
(II)－1839	O	2	F	Tol	H	H	F	H	H	H	H	H	H
(II)－1840	O	2	F	Tol	H	H	H	F	H	H	H	H	H
(II)－1841	O	2	F	Tol	H	H	H	H	F	H	H	H	H
(II)－1842	O	2	F	Tol	H	H	H	H	H	F	H	H	H
(II)－1843	O	2	F	Tol	H	H	H	H	H	H	F	H	H
(II)－1844	O	2	F	Tol	H	H	H	H	H	H	H	F	H
(II)－1845	O	2	F	Tol	H	H	H	H	H	H	H	H	F
(II)－1846	O	2	H	Tol	F	F	H	H	H	H	H	H	H
(II)－1847	O	2	H	Tol	F	H	F	H	H	H	H	H	H
(II)－1848	O	2	H	Tol	F	H	H	F	H	H	H	H	H
(II)－1849	O	2	H	Tol	F	H	H	H	F	H	H	H	H
(II)－1850	O	2	H	Tol	F	H	H	H	H	F	H	H	H
(II)－1851	O	2	H	Tol	F	H	H	H	H	H	F	H	H
(II)－1852	O	2	H	Tol	F	H	H	H	H	H	H	F	H
(II)－1853	O	2	H	Tol	F	H	H	H	H	H	H	H	F
(II)－1854	O	2	H	Tol	H	F	F	H	H	H	H	H	H
(II)－1855	O	2	H	Tol	H	F	H	F	H	H	H	H	H
(II)－1856	O	2	H	Tol	H	F	H	H	F	H	H	H	H
(II)－1857	O	2	H	Tol	H	F	H	H	H	F	H	H	H
(II)－1858	O	2	H	Tol	H	F	H	H	H	H	F	H	H
(II)－1859	O	2	H	Tol	H	F	H	H	H	H	H	F	H
(II)－1860	O	2	H	Tol	H	F	H	H	H	H	H	H	F

【表７０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1861	O	2	H	Tol	H	H	F	F	H	H	H	H	H
(II)－1862	O	2	H	Tol	H	H	F	H	F	H	H	H	H
(II)－1863	O	2	H	Tol	H	H	F	H	H	F	H	H	H
(II)－1864	O	2	H	Tol	H	H	F	H	H	H	F	H	H
(II)－1865	O	2	H	Tol	H	H	F	H	H	H	H	F	H
(II)－1866	O	2	H	Tol	H	H	F	H	H	H	H	H	F
(II)－1867	O	2	H	Tol	H	H	H	F	F	H	H	H	H
(II)－1868	O	2	H	Tol	H	H	H	F	H	F	H	H	H
(II)－1869	O	2	H	Tol	H	H	H	F	H	H	F	H	H
(II)－1870	O	2	H	Tol	H	H	H	F	H	H	H	F	H
(II)－1871	O	2	H	Tol	H	H	H	F	H	H	H	H	F
(II)－1872	O	2	H	Tol	H	H	H	H	F	F	H	H	H
(II)－1873	O	2	H	Tol	H	H	H	H	F	H	F	H	H
(II)－1874	O	2	H	Tol	H	H	H	H	F	H	H	F	H
(II)－1875	O	2	H	Tol	H	H	H	H	F	H	H	H	F
(II)－1876	O	2	H	Tol	H	H	H	H	H	F	F	H	H
(II)－1877	O	2	H	Tol	H	H	H	H	H	F	H	F	H
(II)－1878	O	2	H	Tol	H	H	H	H	H	F	H	H	F
(II)－1879	O	2	H	Tol	H	H	H	H	H	H	F	F	H
(II)－1880	O	2	H	Tol	H	H	H	H	H	H	F	H	F
(II)－1881	O	2	H	Tol	H	H	H	H	H	H	H	F	F
(II)－1882	O	2	F	Phen	H	H	H	H	H	H	H	H	H
(II)－1883	O	2	H	Phen	F	H	H	H	H	H	H	H	H
(II)－1884	O	2	H	Phen	H	F	H	H	H	H	H	H	H
(II)－1885	O	2	H	Phen	H	H	F	H	H	H	H	H	H
(II)－1886	O	2	H	Phen	H	H	H	F	H	H	H	H	H
(II)－1887	O	2	H	Phen	H	H	H	H	F	H	H	H	H
(II)－1888	O	2	H	Phen	H	H	H	H	H	F	H	H	H
(II)－1889	O	2	H	Phen	H	H	H	H	H	H	F	H	H
(II)－1890	O	2	H	Phen	H	H	H	H	H	H	H	F	H
(II)－1891	O	2	H	Phen	H	H	H	H	H	H	H	H	F
(II)－1892	O	2	F	Phen	F	H	H	H	H	H	H	H	H
(II)－1893	O	2	F	Phen	H	F	H	H	H	H	H	H	H
(II)－1894	O	2	F	Phen	H	H	F	H	H	H	H	H	H
(II)－1895	O	2	F	Phen	H	H	H	F	H	H	H	H	H
(II)－1896	O	2	F	Phen	H	H	H	H	F	H	H	H	H
(II)－1897	O	2	F	Phen	H	H	H	H	H	F	H	H	H
(II)－1898	O	2	F	Phen	H	H	H	H	H	H	F	H	H
(II)－1899	O	2	F	Phen	H	H	H	H	H	H	H	F	H
(II)－1900	O	2	F	Phen	H	H	H	H	H	H	H	H	F
(II)－1901	O	2	H	Phen	F	F	H	H	H	H	H	H	H
(II)－1902	O	2	H	Phen	F	H	F	H	H	H	H	H	H
(II)－1903	O	2	H	Phen	F	H	H	F	H	H	H	H	H
(II)－1904	O	2	H	Phen	F	H	H	H	F	H	H	H	H
(II)－1905	O	2	H	Phen	F	H	H	H	H	F	H	H	H
(II)－1906	O	2	H	Phen	F	H	H	H	H	H	F	H	H
(II)－1907	O	2	H	Phen	F	H	H	H	H	H	H	F	H
(II)－1908	O	2	H	Phen	F	H	H	H	H	H	H	H	F
(II)－1909	O	2	H	Phen	H	F	F	H	H	H	H	H	H
(II)－1910	O	2	H	Phen	H	F	H	F	H	H	H	H	H
(II)－1911	O	2	H	Phen	H	F	H	H	F	H	H	H	H
(II)－1912	O	2	H	Phen	H	F	H	H	H	F	H	H	H
(II)－1913	O	2	H	Phen	H	F	H	H	H	H	F	H	H
(II)－1914	O	2	H	Phen	H	F	H	H	H	H	H	F	H
(II)－1915	O	2	H	Phen	H	F	H	H	H	H	H	H	F
(II)－1916	O	2	H	Phen	H	H	F	F	H	H	H	H	H
(II)－1917	O	2	H	Phen	H	H	F	H	F	H	H	H	H
(II)－1918	O	2	H	Phen	H	H	F	H	H	F	H	H	H
(II)－1919	O	2	H	Phen	H	H	F	H	H	H	F	H	H
(II)－1920	O	2	H	Phen	H	H	F	H	H	H	H	F	H

【表７１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1921	O	2	H	Phen	H	H	F	H	H	H	H	H	F
(II)－1922	O	2	H	Phen	H	H	H	F	F	H	H	H	H
(II)－1923	O	2	H	Phen	H	H	H	F	H	F	H	H	H
(II)－1924	O	2	H	Phen	H	H	H	F	H	H	F	H	H
(II)－1925	O	2	H	Phen	H	H	H	F	H	H	H	F	H
(II)－1926	O	2	H	Phen	H	H	H	F	H	H	H	H	F
(II)－1927	O	2	H	Phen	H	H	H	H	F	F	H	H	H
(II)－1928	O	2	H	Phen	H	H	H	H	F	H	F	H	H
(II)－1929	O	2	H	Phen	H	H	H	H	F	H	H	F	H
(II)－1930	O	2	H	Phen	H	H	H	H	F	H	H	H	F
(II)－1931	O	2	H	Phen	H	H	H	H	H	F	F	H	H
(II)－1932	O	2	H	Phen	H	H	H	H	H	F	H	F	H
(II)－1933	O	2	H	Phen	H	H	H	H	H	F	H	H	F
(II)－1934	O	2	H	Phen	H	H	H	H	H	H	F	F	H
(II)－1935	O	2	H	Phen	H	H	H	H	H	H	F	H	F
(II)－1936	O	2	H	Phen	H	H	H	H	H	H	H	F	F
(II)－1937	S	2	F	H	H	H	H	H	H	H	H	H	H
(II)－1938	S	2	H	F	H	H	H	H	H	H	H	H	H
(II)－1939	S	2	H	H	F	H	H	H	H	H	H	H	H
(II)－1940	S	2	H	H	H	F	H	H	H	H	H	H	H
(II)－1941	S	2	H	H	H	H	F	H	H	H	H	H	H
(II)－1942	S	2	H	H	H	H	H	F	H	H	H	H	H
(II)－1943	S	2	H	H	H	H	H	H	F	H	H	H	H
(II)－1944	S	2	H	H	H	H	H	H	H	F	H	H	H
(II)－1945	S	2	H	H	H	H	H	H	H	H	F	H	H
(II)－1946	S	2	H	H	H	H	H	H	H	H	H	F	H
(II)－1947	S	2	H	H	H	H	H	H	H	H	H	H	F
(II)－1948	S	2	F	F	H	H	H	H	H	H	H	H	H
(II)－1949	S	2	F	H	F	H	H	H	H	H	H	H	H
(II)－1950	S	2	F	H	H	F	H	H	H	H	H	H	H
(II)－1951	S	2	F	H	H	H	F	H	H	H	H	H	H
(II)－1952	S	2	F	H	H	H	H	F	H	H	H	H	H
(II)－1953	S	2	F	H	H	H	H	H	F	H	H	H	H
(II)－1954	S	2	F	H	H	H	H	H	H	F	H	H	H
(II)－1955	S	2	F	H	H	H	H	H	H	H	F	H	H
(II)－1956	S	2	F	H	H	H	H	H	H	H	H	F	H
(II)－1957	S	2	F	H	H	H	H	H	H	H	H	H	F
(II)－1958	S	2	H	F	F	H	H	H	H	H	H	H	H
(II)－1959	S	2	H	F	H	F	H	H	H	H	H	H	H
(II)－1960	S	2	H	F	H	H	F	H	H	H	H	H	H
(II)－1961	S	2	H	F	H	H	H	F	H	H	H	H	H
(II)－1962	S	2	H	F	H	H	H	H	F	H	H	H	H
(II)－1963	S	2	H	F	H	H	H	H	H	F	H	H	H
(II)－1964	S	2	H	F	H	H	H	H	H	H	F	H	H
(II)－1965	S	2	H	F	H	H	H	H	H	H	H	F	H
(II)－1966	S	2	H	F	H	H	H	H	H	H	H	H	F
(II)－1967	S	2	H	H	F	F	H	H	H	H	H	H	H
(II)－1968	S	2	H	H	F	H	F	H	H	H	H	H	H
(II)－1969	S	2	H	H	F	H	H	F	H	H	H	H	H
(II)－1970	S	2	H	H	F	H	H	H	F	H	H	H	H
(II)－1971	S	2	H	H	F	H	H	H	H	F	H	H	H
(II)－1972	S	2	H	H	F	H	H	H	H	H	F	H	H
(II)－1973	S	2	H	H	F	H	H	H	H	H	H	F	H
(II)－1974	S	2	H	H	F	H	H	H	H	H	H	H	F
(II)－1975	S	2	H	H	H	F	F	H	H	H	H	H	H
(II)－1976	S	2	H	H	H	F	H	F	H	H	H	H	H
(II)－1977	S	2	H	H	H	F	H	H	F	H	H	H	H
(II)－1978	S	2	H	H	H	F	H	H	H	F	H	H	H
(II)－1979	S	2	H	H	H	F	H	H	H	H	F	H	H
(II)－1980	S	2	H	H	H	F	H	H	H	H	H	F	H

【表７２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－1981	S	2	H	H	H	F	H	H	H	H	H	H	F
(II)－1982	S	2	H	H	H	H	F	F	H	H	H	H	H
(II)－1983	S	2	H	H	H	H	F	H	F	H	H	H	H
(II)－1984	S	2	H	H	H	H	F	H	H	F	H	H	H
(II)－1985	S	2	H	H	H	H	F	H	H	H	F	H	H
(II)－1986	S	2	H	H	H	H	F	H	H	H	H	F	H
(II)－1987	S	2	H	H	H	H	F	H	H	H	H	H	F
(II)－1988	S	2	H	H	H	H	H	F	F	H	H	H	H
(II)－1989	S	2	H	H	H	H	H	F	H	F	H	H	H
(II)－1990	S	2	H	H	H	H	H	F	H	H	F	H	H
(II)－1991	S	2	H	H	H	H	H	F	H	H	H	F	H
(II)－1992	S	2	H	H	H	H	H	F	H	H	H	H	F
(II)－1993	S	2	H	H	H	H	H	H	F	F	H	H	H
(II)－1994	S	2	H	H	H	H	H	H	F	H	F	H	H
(II)－1995	S	2	H	H	H	H	H	H	F	H	H	F	H
(II)－1996	S	2	H	H	H	H	H	H	F	H	H	H	F
(II)－1997	S	2	H	H	H	H	H	H	H	F	F	H	H
(II)－1998	S	2	H	H	H	H	H	H	H	F	H	F	H
(II)－1999	S	2	H	H	H	H	H	H	H	F	H	H	F
(II)－2000	S	2	H	H	H	H	H	H	H	H	F	F	H
(II)－2001	S	2	H	H	H	H	H	H	H	H	F	H	F
(II)－2002	S	2	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－2003	S	2	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－2004	S	2	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－2005	S	2	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－2006	S	2	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－2007	S	2	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－2008	S	2	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－2009	S	2	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－2010	S	2	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－2011	S	2	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－2012	S	2	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－2013	S	2	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－2014	S	2	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－2015	S	2	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－2016	S	2	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－2017	S	2	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－2018	S	2	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－2019	S	2	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－2020	S	2	H	CH_3	H	H	H	H	H	H	H	F	H
(II)－2021	S	2	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－2022	S	2	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－2023	S	2	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－2024	S	2	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－2025	S	2	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－2026	S	2	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－2027	S	2	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2028	S	2	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2029	S	2	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－2030	S	2	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－2031	S	2	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－2032	S	2	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－2033	S	2	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－2034	S	2	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－2035	S	2	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－2036	S	2	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－2037	S	2	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－2038	S	2	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－2039	S	2	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－2040	S	2	H	H	H	H	CH_3	H	H	F	H	H	H

【表７３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2041	S	2	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－2042	S	2	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－2043	S	2	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－2044	S	2	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－2045	S	2	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－2046	S	2	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－2047	S	2	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－2048	S	2	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－2049	S	2	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－2050	S	2	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－2051	S	2	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－2052	S	2	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－2053	S	2	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－2054	S	2	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－2055	S	2	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－2056	S	2	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－2057	S	2	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－2058	S	2	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－2059	S	2	H	Ph	H	H	H	H	H	H	H	H	H
(II)－2060	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－2061	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－2062	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－2063	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－2064	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－2065	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－2066	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－2067	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－2068	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－2069	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－2070	S	2	H	Tol	H	H	H	H	H	H	H	H	H
(II)－2071	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－2072	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－2073	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－2074	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－2075	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－2076	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－2077	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－2078	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－2079	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－2080	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3
(II)－2081	S	2	H	Phen	H	H	H	H	H	H	H	H	H
(II)－2082	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－2083	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－2084	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－2085	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－2086	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－2087	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－2088	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－2089	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－2090	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－2091	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－2092	S	2	F	Ph	H	H	H	H	H	H	H	H	H
(II)－2093	S	2	H	Ph	F	H	H	H	H	H	H	H	H
(II)－2094	S	2	H	Ph	H	F	H	H	H	H	H	H	H
(II)－2095	S	2	H	Ph	H	H	F	H	H	H	H	H	H
(II)－2096	S	2	H	Ph	H	H	H	F	H	H	H	H	H
(II)－2097	S	2	H	Ph	H	H	H	H	F	H	H	H	H
(II)－2098	S	2	H	Ph	H	H	H	H	H	F	H	H	H
(II)－2099	S	2	H	Ph	H	H	H	H	H	H	F	H	H
(II)－2100	S	2	H	Ph	H	H	H	H	H	H	H	F	H

【表７４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2101	S	2	H	Ph	H	H	H	H	H	H	H	H	F
(II)－2102	S	2	F	Ph	F	H	H	H	H	H	H	H	H
(II)－2103	S	2	F	Ph	H	F	H	H	H	H	H	H	H
(II)－2104	S	2	F	Ph	H	H	F	H	H	H	H	H	H
(II)－2105	S	2	F	Ph	H	H	H	F	H	H	H	H	H
(II)－2106	S	2	F	Ph	H	H	H	H	F	H	H	H	H
(II)－2107	S	2	F	Ph	H	H	H	H	H	F	H	H	H
(II)－2108	S	2	F	Ph	H	H	H	H	H	H	F	H	H
(II)－2109	S	2	F	Ph	H	H	H	H	H	H	H	F	H
(II)－2110	S	2	F	Ph	H	H	H	H	H	H	H	H	F
(II)－2111	S	2	H	Ph	F	F	H	H	H	H	H	H	H
(II)－2112	S	2	H	Ph	F	H	F	H	H	H	H	H	H
(II)－2113	S	2	H	Ph	F	H	H	F	H	H	H	H	H
(II)－2114	S	2	H	Ph	F	H	H	H	F	H	H	H	H
(II)－2115	S	2	H	Ph	F	H	H	H	H	F	H	H	H
(II)－2116	S	2	H	Ph	F	H	H	H	H	H	F	H	H
(II)－2117	S	2	H	Ph	F	H	H	H	H	H	H	F	H
(II)－2118	S	2	H	Ph	F	H	H	H	H	H	H	H	F
(II)－2119	S	2	H	Ph	H	F	F	H	H	H	H	H	H
(II)－2120	S	2	H	Ph	H	F	H	F	H	H	H	H	H
(II)－2121	S	2	H	Ph	H	F	H	H	F	H	H	H	H
(II)－2122	S	2	H	Ph	H	F	H	H	H	F	H	H	H
(II)－2123	S	2	H	Ph	H	F	H	H	H	H	F	H	H
(II)－2124	S	2	H	Ph	H	F	H	H	H	H	H	F	H
(II)－2125	S	2	H	Ph	H	F	H	H	H	H	H	H	F
(II)－2126	S	2	H	Ph	H	H	F	F	H	H	H	H	H
(II)－2127	S	2	H	Ph	H	H	F	H	F	H	H	H	H
(II)－2128	S	2	H	Ph	H	H	F	H	H	F	H	H	H
(II)－2129	S	2	H	Ph	H	H	F	H	H	H	F	H	H
(II)－2130	S	2	H	Ph	H	H	F	H	H	H	H	F	H
(II)－2131	S	2	H	Ph	H	H	F	H	H	H	H	H	F
(II)－2132	S	2	H	Ph	H	H	H	F	F	H	H	H	H
(II)－2133	S	2	H	Ph	H	H	H	F	H	F	H	H	H
(II)－2134	S	2	H	Ph	H	H	H	F	H	H	F	H	H
(II)－2135	S	2	H	Ph	H	H	H	F	H	H	H	F	H
(II)－2136	S	2	H	Ph	H	H	H	F	H	H	H	H	F
(II)－2137	S	2	H	Ph	H	H	H	H	F	F	H	H	H
(II)－2138	S	2	H	Ph	H	H	H	H	F	H	F	H	H
(II)－2139	S	2	H	Ph	H	H	H	H	F	H	H	F	H
(II)－2140	S	2	H	Ph	H	H	H	H	F	H	H	H	F
(II)－2141	S	2	H	Ph	H	H	H	H	H	F	F	H	H
(II)－2142	S	2	H	Ph	H	H	H	H	H	F	H	F	H
(II)－2143	S	2	H	Ph	H	H	H	H	H	F	H	H	F
(II)－2144	S	2	H	Ph	H	H	H	H	H	H	F	F	H
(II)－2145	S	2	H	Ph	H	H	H	H	H	H	F	H	F
(II)－2146	S	2	H	Ph	H	H	H	H	H	H	H	F	F
(II)－2147	S	2	F	Tol	H	H	H	H	H	H	H	H	H
(II)－2148	S	2	H	Tol	F	H	H	H	H	H	H	H	H
(II)－2149	S	2	H	Tol	H	F	H	H	H	H	H	H	H
(II)－2150	S	2	H	Tol	H	H	F	H	H	H	H	H	H
(II)－2151	S	2	H	Tol	H	H	H	F	H	H	H	H	H
(II)－2152	S	2	H	Tol	H	H	H	H	F	H	H	H	H
(II)－2153	S	2	H	Tol	H	H	H	H	H	F	H	H	H
(II)－2154	S	2	H	Tol	H	H	H	H	H	H	F	H	H
(II)－2155	S	2	H	Tol	H	H	H	H	H	H	H	F	H
(II)－2156	S	2	H	Tol	H	H	H	H	H	H	H	H	F
(II)－2157	S	2	F	Tol	F	H	H	H	H	H	H	H	H
(II)－2158	S	2	F	Tol	H	F	H	H	H	H	H	H	H
(II)－2159	S	2	F	Tol	H	H	F	H	H	H	H	H	H
(II)－2160	S	2	F	Tol	H	H	H	F	H	H	H	H	H

【表７５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2161	S	2	F	Tol	H	H	H	H	F	H	H	H	H
(II)－2162	S	2	F	Tol	H	H	H	H	H	F	H	H	H
(II)－2163	S	2	F	Tol	H	H	H	H	H	H	F	H	H
(II)－2164	S	2	F	Tol	H	H	H	H	H	H	H	F	H
(II)－2165	S	2	F	Tol	H	H	H	H	H	H	H	H	F
(II)－2166	S	2	H	Tol	F	F	H	H	H	H	H	H	H
(II)－2167	S	2	H	Tol	F	H	F	H	H	H	H	H	H
(II)－2168	S	2	H	Tol	F	H	H	F	H	H	H	H	H
(II)－2169	S	2	H	Tol	F	H	H	H	F	H	H	H	H
(II)－2170	S	2	H	Tol	F	H	H	H	H	F	H	H	H
(II)－2171	S	2	H	Tol	F	H	H	H	H	H	F	H	H
(II)－2172	S	2	H	Tol	F	H	H	H	H	H	H	F	H
(II)－2173	S	2	H	Tol	F	H	H	H	H	H	H	H	F
(II)－2174	S	2	H	Tol	H	F	F	H	H	H	H	H	H
(II)－2175	S	2	H	Tol	H	F	H	F	H	H	H	H	H
(II)－2176	S	2	H	Tol	H	F	H	H	F	H	H	H	H
(II)－2177	S	2	H	Tol	H	F	H	H	H	F	H	H	H
(II)－2178	S	2	H	Tol	H	F	H	H	H	H	F	H	H
(II)－2179	S	2	H	Tol	H	F	H	H	H	H	H	F	H
(II)－2180	S	2	H	Tol	H	F	H	H	H	H	H	H	F
(II)－2181	S	2	H	Tol	H	H	F	F	H	H	H	H	H
(II)－2182	S	2	H	Tol	H	H	F	H	F	H	H	H	H
(II)－2183	S	2	H	Tol	H	H	F	H	H	F	H	H	H
(II)－2184	S	2	H	Tol	H	H	F	H	H	H	F	H	H
(II)－2185	S	2	H	Tol	H	H	F	H	H	H	H	F	H
(II)－2186	S	2	H	Tol	H	H	F	H	H	H	H	H	F
(II)－2187	S	2	H	Tol	H	H	H	F	F	H	H	H	H
(II)－2188	S	2	H	Tol	H	H	H	F	H	F	H	H	H
(II)－2189	S	2	H	Tol	H	H	H	F	H	H	F	H	H
(II)－2190	S	2	H	Tol	H	H	H	F	H	H	H	F	H
(II)－2191	S	2	H	Tol	H	H	H	F	H	H	H	H	F
(II)－2192	S	2	H	Tol	H	H	H	H	F	F	H	H	H
(II)－2193	S	2	H	Tol	H	H	H	H	F	H	F	H	H
(II)－2194	S	2	H	Tol	H	H	H	H	F	H	H	F	H
(II)－2195	S	2	H	Tol	H	H	H	H	F	H	H	H	F
(II)－2196	S	2	H	Tol	H	H	H	H	H	F	F	H	H
(II)－2197	S	2	H	Tol	H	H	H	H	H	F	H	F	H
(II)－2198	S	2	H	Tol	H	H	H	H	H	F	H	H	F
(II)－2199	S	2	H	Tol	H	H	H	H	H	H	F	F	H
(II)－2200	S	2	H	Tol	H	H	H	H	H	H	F	H	F
(II)－2201	S	2	H	Tol	H	H	H	H	H	H	H	F	F
(II)－2202	S	2	F	Phen	H	H	H	H	H	H	H	H	H
(II)－2203	S	2	H	Phen	F	H	H	H	H	H	H	H	H
(II)－2204	S	2	H	Phen	H	F	H	H	H	H	H	H	H
(II)－2205	S	2	H	Phen	H	H	F	H	H	H	H	H	H
(II)－2206	S	2	H	Phen	H	H	H	F	H	H	H	H	H
(II)－2207	S	2	H	Phen	H	H	H	H	F	H	H	H	H
(II)－2208	S	2	H	Phen	H	H	H	H	H	F	H	H	H
(II)－2209	S	2	H	Phen	H	H	H	H	H	H	F	H	H
(II)－2210	S	2	H	Phen	H	H	H	H	H	H	H	F	H
(II)－2211	S	2	H	Phen	H	H	H	H	H	H	H	H	F
(II)－2212	S	2	F	Phen	F	H	H	H	H	H	H	H	H
(II)－2213	S	2	F	Phen	H	F	H	H	H	H	H	H	H
(II)－2214	S	2	F	Phen	H	H	F	H	H	H	H	H	H
(II)－2215	S	2	F	Phen	H	H	H	F	H	H	H	H	H
(II)－2216	S	2	F	Phen	H	H	H	H	F	H	H	H	H
(II)－2217	S	2	F	Phen	H	H	H	H	H	F	H	H	H
(II)－2218	S	2	F	Phen	H	H	H	H	H	H	F	H	H
(II)－2219	S	2	F	Phen	H	H	H	H	H	H	H	F	H
(II)－2220	S	2	F	Phen	H	H	H	H	H	H	H	H	F

【表７６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2221	S	2	H	Phen	F	F	H	H	H	H	H	H	H
(II)－2222	S	2	H	Phen	F	H	F	H	H	H	H	H	H
(II)－2223	S	2	H	Phen	F	H	H	F	H	H	H	H	H
(II)－2224	S	2	H	Phen	F	H	H	H	F	H	H	H	H
(II)－2225	S	2	H	Phen	F	H	H	H	H	F	H	H	H
(II)－2226	S	2	H	Phen	F	H	H	H	H	H	F	H	H
(II)－2227	S	2	H	Phen	F	H	H	H	H	H	H	F	H
(II)－2228	S	2	H	Phen	F	H	H	H	H	H	H	H	F
(II)－2229	S	2	H	Phen	H	F	F	H	H	H	H	H	H
(II)－2230	S	2	H	Phen	H	F	H	F	H	H	H	H	H
(II)－2231	S	2	H	Phen	H	F	H	H	F	H	H	H	H
(II)－2232	S	2	H	Phen	H	F	H	H	H	F	H	H	H
(II)－2233	S	2	H	Phen	H	F	H	H	H	H	F	H	H
(II)－2234	S	2	H	Phen	H	F	H	H	H	H	H	F	H
(II)－2235	S	2	H	Phen	H	F	H	H	H	H	H	H	F
(II)－2236	S	2	H	Phen	H	H	F	F	H	H	H	H	H
(II)－2237	S	2	H	Phen	H	H	F	H	F	H	H	H	H
(II)－2238	S	2	H	Phen	H	H	F	H	H	F	H	H	H
(II)－2239	S	2	H	Phen	H	H	F	H	H	H	F	H	H
(II)－2240	S	2	H	Phen	H	H	F	H	H	H	H	F	H
(II)－2241	S	2	H	Phen	H	H	F	H	H	H	H	H	F
(II)－2242	S	2	H	Phen	H	H	H	F	F	H	H	H	H
(II)－2243	S	2	H	Phen	H	H	H	F	H	F	H	H	H
(II)－2244	S	2	H	Phen	H	H	H	F	H	H	F	H	H
(II)－2245	S	2	H	Phen	H	H	H	F	H	H	H	F	H
(II)－2246	S	2	H	Phen	H	H	H	F	H	H	H	H	F
(II)－2247	S	2	H	Phen	H	H	H	H	F	F	H	H	H
(II)－2248	S	2	H	Phen	H	H	H	H	F	H	F	H	H
(II)－2249	S	2	H	Phen	H	H	H	H	F	H	H	F	H
(II)－2250	S	2	H	Phen	H	H	H	H	F	H	H	H	F
(II)－2251	S	2	H	Phen	H	H	H	H	H	F	F	H	H
(II)－2252	S	2	H	Phen	H	H	H	H	H	F	H	F	H
(II)－2253	S	2	H	Phen	H	H	H	H	H	F	H	H	F
(II)－2254	S	2	H	Phen	H	H	H	H	H	H	F	F	H
(II)－2255	S	2	H	Phen	H	H	H	H	H	H	F	H	F
(II)－2256	S	2	H	Phen	H	H	H	H	H	H	H	F	F
(II)－2257	O	3	F	H	H	H	H	H	H	H	H	H	H
(II)－2258	O	3	H	F	H	H	H	H	H	H	H	H	H
(II)－2259	O	3	H	H	F	H	H	H	H	H	H	H	H
(II)－2260	O	3	H	H	H	F	H	H	H	H	H	H	H
(II)－2261	O	3	H	H	H	H	F	H	H	H	H	H	H
(II)－2262	O	3	H	H	H	H	H	F	H	H	H	H	H
(II)－2263	O	3	H	H	H	H	H	H	F	H	H	H	H
(II)－2264	O	3	H	H	H	H	H	H	H	F	H	H	H
(II)－2265	O	3	H	H	H	H	H	H	H	H	F	H	H
(II)－2266	O	3	H	H	H	H	H	H	H	H	H	F	H
(II)－2267	O	3	H	H	H	H	H	H	H	H	H	H	F
(II)－2268	O	3	F	F	H	H	H	H	H	H	H	H	H
(II)－2269	O	3	F	H	F	H	H	H	H	H	H	H	H
(II)－2270	O	3	F	H	H	F	H	H	H	H	H	H	H
(II)－2271	O	3	F	H	H	H	F	H	H	H	H	H	H
(II)－2272	O	3	F	H	H	H	H	F	H	H	H	H	H
(II)－2273	O	3	F	H	H	H	H	H	F	H	H	H	H
(II)－2274	O	3	F	H	H	H	H	H	H	F	H	H	H
(II)－2275	O	3	F	H	H	H	H	H	H	H	F	H	H
(II)－2276	O	3	F	H	H	H	H	H	H	H	H	F	H
(II)－2277	O	3	F	H	H	H	H	H	H	H	H	H	F
(II)－2278	O	3	H	F	F	H	H	H	H	H	H	H	H
(II)－2279	O	3	H	F	H	F	H	H	H	H	H	H	H
(II)－2280	O	3	H	F	H	H	F	H	H	H	H	H	H

【表７７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2281	O	3	H	F	H	H	H	F	H	H	H	H	H
(II)－2282	O	3	H	F	H	H	H	H	F	H	H	H	H
(II)－2283	O	3	H	F	H	H	H	H	H	F	H	H	H
(II)－2284	O	3	H	F	H	H	H	H	H	H	F	H	H
(II)－2285	O	3	H	F	H	H	H	H	H	H	H	F	H
(II)－2286	O	3	H	F	H	H	H	H	H	H	H	H	F
(II)－2287	O	3	H	H	F	F	H	H	H	H	H	H	H
(II)－2288	O	3	H	H	F	H	F	H	H	H	H	H	H
(II)－2289	O	3	H	H	F	H	H	F	H	H	H	H	H
(II)－2290	O	3	H	H	F	H	H	H	F	H	H	H	H
(II)－2291	O	3	H	H	F	H	H	H	H	F	H	H	H
(II)－2292	O	3	H	H	F	H	H	H	H	H	F	H	H
(II)－2293	O	3	H	H	F	H	H	H	H	H	H	F	H
(II)－2294	O	3	H	H	F	H	H	H	H	H	H	H	F
(II)－2295	O	3	H	H	H	F	F	H	H	H	H	H	H
(II)－2296	O	3	H	H	H	F	H	F	H	H	H	H	H
(II)－2297	O	3	H	H	H	F	H	H	F	H	H	H	H
(II)－2298	O	3	H	H	H	F	H	H	H	F	H	H	H
(II)－2299	O	3	H	H	H	F	H	H	H	H	F	H	H
(II)－2300	O	3	H	H	H	F	H	H	H	H	H	F	H
(II)－2301	O	3	H	H	H	F	H	H	H	H	H	H	F
(II)－2302	O	3	H	H	H	H	F	F	H	H	H	H	H
(II)－2303	O	3	H	H	H	H	F	H	F	H	H	H	H
(II)－2304	O	3	H	H	H	H	F	H	H	F	H	H	H
(II)－2305	O	3	H	H	H	H	F	H	H	H	F	H	H
(II)－2306	O	3	H	H	H	H	F	H	H	H	H	F	H
(II)－2307	O	3	H	H	H	H	F	H	H	H	H	H	F
(II)－2308	O	3	H	H	H	H	H	F	F	H	H	H	H
(II)－2309	O	3	H	H	H	H	H	F	H	F	H	H	H
(II)－2310	O	3	H	H	H	H	H	F	H	H	F	H	H
(II)－2311	O	3	H	H	H	H	H	F	H	H	H	F	H
(II)－2312	O	3	H	H	H	H	H	F	H	H	H	H	F
(II)－2313	O	3	H	H	H	H	H	H	F	F	H	H	H
(II)－2314	O	3	H	H	H	H	H	H	F	H	F	H	H
(II)－2315	O	3	H	H	H	H	H	H	F	H	H	F	H
(II)－2316	O	3	H	H	H	H	H	H	F	H	H	H	F
(II)－2317	O	3	H	H	H	H	H	H	H	F	F	H	H
(II)－2318	O	3	H	H	H	H	H	H	H	F	H	F	H
(II)－2319	O	3	H	H	H	H	H	H	H	F	H	H	F
(II)－2320	O	3	H	H	H	H	H	H	H	H	F	F	H
(II)－2321	O	3	H	H	H	H	H	H	H	H	F	H	F
(II)－2322	O	3	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－2323	O	3	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－2324	O	3	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－2325	O	3	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－2326	O	3	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－2327	O	3	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－2328	O	3	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－2329	O	3	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－2330	O	3	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－2331	O	3	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－2332	O	3	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－2333	O	3	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－2334	O	3	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－2335	O	3	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－2336	O	3	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－2337	O	3	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－2338	O	3	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－2339	O	3	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－2340	O	3	H	CH_3	H	H	H	H	H	H	H	F	H

【表７８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2341	O	3	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－2342	O	3	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－2343	O	3	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－2344	O	3	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－2345	O	3	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－2346	O	3	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－2347	O	3	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2348	O	3	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2349	O	3	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－2350	O	3	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－2351	O	3	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－2352	O	3	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－2353	O	3	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－2354	O	3	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－2355	O	3	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－2356	O	3	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－2357	O	3	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－2358	O	3	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－2359	O	3	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－2360	O	3	H	H	H	H	CH_3	H	H	F	H	H	H
(II)－2361	O	3	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－2362	O	3	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－2363	O	3	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－2364	O	3	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－2365	O	3	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－2366	O	3	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－2367	O	3	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－2368	O	3	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－2369	O	3	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－2370	O	3	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－2371	O	3	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－2372	O	3	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－2373	O	3	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－2374	O	3	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－2375	O	3	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－2376	O	3	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－2377	O	3	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－2378	O	3	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－2379	O	3	H	Ph	H	H	H	H	H	H	H	H	H
(II)－2380	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－2381	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－2382	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－2383	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－2384	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－2385	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－2386	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－2387	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－2388	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－2389	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－2390	O	3	H	Tol	H	H	H	H	H	H	H	H	H
(II)－2391	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－2392	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－2393	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－2394	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－2395	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－2396	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－2397	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－2398	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－2399	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－2400	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表７９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2401	O	3	H	Phen	H	H	H	H	H	H	H	H	H
(II)－2402	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－2403	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－2404	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－2405	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－2406	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－2407	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－2408	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－2409	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－2410	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－2411	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－2412	O	3	F	Ph	H	H	H	H	H	H	H	H	H
(II)－2413	O	3	H	Ph	F	H	H	H	H	H	H	H	H
(II)－2414	O	3	H	Ph	H	F	H	H	H	H	H	H	H
(II)－2415	O	3	H	Ph	H	H	F	H	H	H	H	H	H
(II)－2416	O	3	H	Ph	H	H	H	F	H	H	H	H	H
(II)－2417	O	3	H	Ph	H	H	H	H	F	H	H	H	H
(II)－2418	O	3	H	Ph	H	H	H	H	H	F	H	H	H
(II)－2419	O	3	H	Ph	H	H	H	H	H	H	F	H	H
(II)－2420	O	3	H	Ph	H	H	H	H	H	H	H	F	H
(II)－2421	O	3	H	Ph	H	H	H	H	H	H	H	H	F
(II)－2422	O	3	F	Ph	F	H	H	H	H	H	H	H	H
(II)－2423	O	3	F	Ph	H	F	H	H	H	H	H	H	H
(II)－2424	O	3	F	Ph	H	H	F	H	H	H	H	H	H
(II)－2425	O	3	F	Ph	H	H	H	F	H	H	H	H	H
(II)－2426	O	3	F	Ph	H	H	H	H	F	H	H	H	H
(II)－2427	O	3	F	Ph	H	H	H	H	H	F	H	H	H
(II)－2428	O	3	F	Ph	H	H	H	H	H	H	F	H	H
(II)－2429	O	3	F	Ph	H	H	H	H	H	H	H	F	H
(II)－2430	O	3	F	Ph	H	H	H	H	H	H	H	H	F
(II)－2431	O	3	H	Ph	F	F	H	H	H	H	H	H	H
(II)－2432	O	3	H	Ph	F	H	F	H	H	H	H	H	H
(II)－2433	O	3	H	Ph	F	H	H	F	H	H	H	H	H
(II)－2434	O	3	H	Ph	F	H	H	H	F	H	H	H	H
(II)－2435	O	3	H	Ph	F	H	H	H	H	F	H	H	H
(II)－2436	O	3	H	Ph	F	H	H	H	H	H	F	H	H
(II)－2437	O	3	H	Ph	F	H	H	H	H	H	H	F	H
(II)－2438	O	3	H	Ph	F	H	H	H	H	H	H	H	F
(II)－2439	O	3	H	Ph	H	F	F	H	H	H	H	H	H
(II)－2440	O	3	H	Ph	H	F	H	F	H	H	H	H	H
(II)－2441	O	3	H	Ph	H	F	H	H	F	H	H	H	H
(II)－2442	O	3	H	Ph	H	F	H	H	H	F	H	H	H
(II)－2443	O	3	H	Ph	H	F	H	H	H	H	F	H	H
(II)－2444	O	3	H	Ph	H	F	H	H	H	H	H	F	H
(II)－2445	O	3	H	Ph	H	F	H	H	H	H	H	H	F
(II)－2446	O	3	H	Ph	H	H	F	F	H	H	H	H	H
(II)－2447	O	3	H	Ph	H	H	F	H	F	H	H	H	H
(II)－2448	O	3	H	Ph	H	H	F	H	H	F	H	H	H
(II)－2449	O	3	H	Ph	H	H	F	H	H	H	F	H	H
(II)－2450	O	3	H	Ph	H	H	F	H	H	H	H	F	H
(II)－2451	O	3	H	Ph	H	H	F	H	H	H	H	H	F
(II)－2452	O	3	H	Ph	H	H	H	F	F	H	H	H	H
(II)－2453	O	3	H	Ph	H	H	H	F	H	F	H	H	H
(II)－2454	O	3	H	Ph	H	H	H	F	H	H	F	H	H
(II)－2455	O	3	H	Ph	H	H	H	F	H	H	H	F	H
(II)－2456	O	3	H	Ph	H	H	H	F	H	H	H	H	F
(II)－2457	O	3	H	Ph	H	H	H	H	F	F	H	H	H
(II)－2458	O	3	H	Ph	H	H	H	H	F	H	F	H	H
(II)－2459	O	3	H	Ph	H	H	H	H	F	H	H	F	H
(II)－2460	O	3	H	Ph	H	H	H	H	F	H	H	H	F

【表８０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2461	O	3	H	Ph	H	H	H	H	H	F	F	H	H
(II)－2462	O	3	H	Ph	H	H	H	H	H	F	H	F	H
(II)－2463	O	3	H	Ph	H	H	H	H	H	F	H	H	F
(II)－2464	O	3	H	Ph	H	H	H	H	H	H	F	F	H
(II)－2465	O	3	H	Ph	H	H	H	H	H	H	F	H	F
(II)－2466	O	3	H	Ph	H	H	H	H	H	H	H	F	F
(II)－2467	O	3	F	Tol	H	H	H	H	H	H	H	H	H
(II)－2468	O	3	H	Tol	F	H	H	H	H	H	H	H	H
(II)－2469	O	3	H	Tol	H	F	H	H	H	H	H	H	H
(II)－2470	O	3	H	Tol	H	H	F	H	H	H	H	H	H
(II)－2471	O	3	H	Tol	H	H	H	F	H	H	H	H	H
(II)－2472	O	3	H	Tol	H	H	H	H	F	H	H	H	H
(II)－2473	O	3	H	Tol	H	H	H	H	H	F	H	H	H
(II)－2474	O	3	H	Tol	H	H	H	H	H	H	F	H	H
(II)－2475	O	3	H	Tol	H	H	H	H	H	H	H	F	H
(II)－2476	O	3	H	Tol	H	H	H	H	H	H	H	H	F
(II)－2477	O	3	F	Tol	F	H	H	H	H	H	H	H	H
(II)－2478	O	3	F	Tol	H	F	H	H	H	H	H	H	H
(II)－2479	O	3	F	Tol	H	H	F	H	H	H	H	H	H
(II)－2480	O	3	F	Tol	H	H	H	F	H	H	H	H	H
(II)－2481	O	3	F	Tol	H	H	H	H	F	H	H	H	H
(II)－2482	O	3	F	Tol	H	H	H	H	H	F	H	H	H
(II)－2483	O	3	F	Tol	H	H	H	H	H	H	F	H	H
(II)－2484	O	3	F	Tol	H	H	H	H	H	H	H	F	H
(II)－2485	O	3	F	Tol	H	H	H	H	H	H	H	H	F
(II)－2486	O	3	H	Tol	F	F	H	H	H	H	H	H	H
(II)－2487	O	3	H	Tol	F	H	F	H	H	H	H	H	H
(II)－2488	O	3	H	Tol	F	H	H	F	H	H	H	H	H
(II)－2489	O	3	H	Tol	F	H	H	H	F	H	H	H	H
(II)－2490	O	3	H	Tol	F	H	H	H	H	F	H	H	H
(II)－2491	O	3	H	Tol	F	H	H	H	H	H	F	H	H
(II)－2492	O	3	H	Tol	F	H	H	H	H	H	H	F	H
(II)－2493	O	3	H	Tol	F	H	H	H	H	H	H	H	F
(II)－2494	O	3	H	Tol	H	F	F	H	H	H	H	H	H
(II)－2495	O	3	H	Tol	H	F	H	F	H	H	H	H	H
(II)－2496	O	3	H	Tol	H	F	H	H	F	H	H	H	H
(II)－2497	O	3	H	Tol	H	F	H	H	H	F	H	H	H
(II)－2498	O	3	H	Tol	H	F	H	H	H	H	F	H	H
(II)－2499	O	3	H	Tol	H	F	H	H	H	H	H	F	H
(II)－2500	O	3	H	Tol	H	F	H	H	H	H	H	H	F
(II)－2501	O	3	H	Tol	H	H	F	F	H	H	H	H	H
(II)－2502	O	3	H	Tol	H	H	F	H	F	H	H	H	H
(II)－2503	O	3	H	Tol	H	H	F	H	H	F	H	H	H
(II)－2504	O	3	H	Tol	H	H	F	H	H	H	F	H	H
(II)－2505	O	3	H	Tol	H	H	F	H	H	H	H	F	H
(II)－2506	O	3	H	Tol	H	H	F	H	H	H	H	H	F
(II)－2507	O	3	H	Tol	H	H	H	F	F	H	H	H	H
(II)－2508	O	3	H	Tol	H	H	H	F	H	F	H	H	H
(II)－2509	O	3	H	Tol	H	H	H	F	H	H	F	H	H
(II)－2510	O	3	H	Tol	H	H	H	F	H	H	H	F	H
(II)－2511	O	3	H	Tol	H	H	H	F	H	H	H	H	F
(II)－2512	O	3	H	Tol	H	H	H	H	F	F	H	H	H
(II)－2513	O	3	H	Tol	H	H	H	H	F	H	F	H	H
(II)－2514	O	3	H	Tol	H	H	H	H	F	H	H	F	H
(II)－2515	O	3	H	Tol	H	H	H	H	F	H	H	H	F
(II)－2516	O	3	H	Tol	H	H	H	H	H	F	F	H	H
(II)－2517	O	3	H	Tol	H	H	H	H	H	F	H	F	H
(II)－2518	O	3	H	Tol	H	H	H	H	H	F	H	H	F
(II)－2519	O	3	H	Tol	H	H	H	H	H	H	F	F	H
(II)－2520	O	3	H	Tol	H	H	H	H	H	H	F	H	F

【表８１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2521	O	3	H	Tol	H	H	H	H	H	H	H	F	F
(II)－2522	O	3	F	Phen	H	H	H	H	H	H	H	H	H
(II)－2523	O	3	H	Phen	F	H	H	H	H	H	H	H	H
(II)－2524	O	3	H	Phen	H	F	H	H	H	H	H	H	H
(II)－2525	O	3	H	Phen	H	H	F	H	H	H	H	H	H
(II)－2526	O	3	H	Phen	H	H	H	F	H	H	H	H	H
(II)－2527	O	3	H	Phen	H	H	H	H	F	H	H	H	H
(II)－2528	O	3	H	Phen	H	H	H	H	H	F	H	H	H
(II)－2529	O	3	H	Phen	H	H	H	H	H	H	F	H	H
(II)－2530	O	3	H	Phen	H	H	H	H	H	H	H	F	H
(II)－2531	O	3	H	Phen	H	H	H	H	H	H	H	H	F
(II)－2532	O	3	F	Phen	F	H	H	H	H	H	H	H	H
(II)－2533	O	3	F	Phen	H	F	H	H	H	H	H	H	H
(II)－2534	O	3	F	Phen	H	H	F	H	H	H	H	H	H
(II)－2535	O	3	F	Phen	H	H	H	F	H	H	H	H	H
(II)－2536	O	3	F	Phen	H	H	H	H	F	H	H	H	H
(II)－2537	O	3	F	Phen	H	H	H	H	H	F	H	H	H
(II)－2538	O	3	F	Phen	H	H	H	H	H	H	F	H	H
(II)－2539	O	3	F	Phen	H	H	H	H	H	H	H	F	H
(II)－2540	O	3	F	Phen	H	H	H	H	H	H	H	H	F
(II)－2541	O	3	H	Phen	F	F	H	H	H	H	H	H	H
(II)－2542	O	3	H	Phen	F	H	F	H	H	H	H	H	H
(II)－2543	O	3	H	Phen	F	H	H	F	H	H	H	H	H
(II)－2544	O	3	H	Phen	F	H	H	H	F	H	H	H	H
(II)－2545	O	3	H	Phen	F	H	H	H	H	F	H	H	H
(II)－2546	O	3	H	Phen	F	H	H	H	H	H	F	H	H
(II)－2547	O	3	H	Phen	F	H	H	H	H	H	H	F	H
(II)－2548	O	3	H	Phen	F	H	H	H	H	H	H	H	F
(II)－2549	O	3	H	Phen	H	F	F	H	H	H	H	H	H
(II)－2550	O	3	H	Phen	H	F	H	F	H	H	H	H	H
(II)－2551	O	3	H	Phen	H	F	H	H	F	H	H	H	H
(II)－2552	O	3	H	Phen	H	F	H	H	H	F	H	H	H
(II)－2553	O	3	H	Phen	H	F	H	H	H	H	F	H	H
(II)－2554	O	3	H	Phen	H	F	H	H	H	H	H	F	H
(II)－2555	O	3	H	Phen	H	F	H	H	H	H	H	H	F
(II)－2556	O	3	H	Phen	H	H	F	F	H	H	H	H	H
(II)－2557	O	3	H	Phen	H	H	F	H	F	H	H	H	H
(II)－2558	O	3	H	Phen	H	H	F	H	H	F	H	H	H
(II)－2559	O	3	H	Phen	H	H	F	H	H	H	F	H	H
(II)－2560	O	3	H	Phen	H	H	F	H	H	H	H	F	H
(II)－2561	O	3	H	Phen	H	H	F	H	H	H	H	H	F
(II)－2562	O	3	H	Phen	H	H	H	F	F	H	H	H	H
(II)－2563	O	3	H	Phen	H	H	H	F	H	F	H	H	H
(II)－2564	O	3	H	Phen	H	H	H	F	H	H	F	H	H
(II)－2565	O	3	H	Phen	H	H	H	F	H	H	H	F	H
(II)－2566	O	3	H	Phen	H	H	H	F	H	H	H	H	F
(II)－2567	O	3	H	Phen	H	H	H	H	F	F	H	H	H
(II)－2568	O	3	H	Phen	H	H	H	H	F	H	F	H	H
(II)－2569	O	3	H	Phen	H	H	H	H	F	H	H	F	H
(II)－2570	O	3	H	Phen	H	H	H	H	F	H	H	H	F
(II)－2571	O	3	H	Phen	H	H	H	H	H	F	F	H	H
(II)－2572	O	3	H	Phen	H	H	H	H	H	F	H	F	H
(II)－2573	O	3	H	Phen	H	H	H	H	H	F	H	H	F
(II)－2574	O	3	H	Phen	H	H	H	H	H	H	F	F	H
(II)－2575	O	3	H	Phen	H	H	H	H	H	H	F	H	F
(II)－2576	O	3	H	Phen	H	H	H	H	H	H	H	F	F
(II)－2577	S	3	F	H	H	H	H	H	H	H	H	H	H
(II)－2578	S	3	H	F	H	H	H	H	H	H	H	H	H
(II)－2579	S	3	H	H	F	H	H	H	H	H	H	H	H
(II)－2580	S	3	H	H	H	F	H	H	H	H	H	H	H

【表８２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2581	S	3	H	H	H	H	F	H	H	H	H	H	H
(II)－2582	S	3	H	H	H	H	H	F	H	H	H	H	H
(II)－2583	S	3	H	H	H	H	H	H	F	H	H	H	H
(II)－2584	S	3	H	H	H	H	H	H	H	F	H	H	H
(II)－2585	S	3	H	H	H	H	H	H	H	H	F	H	H
(II)－2586	S	3	H	H	H	H	H	H	H	H	H	F	H
(II)－2587	S	3	H	H	H	H	H	H	H	H	H	H	F
(II)－2588	S	3	F	F	H	H	H	H	H	H	H	H	H
(II)－2589	S	3	F	H	F	H	H	H	H	H	H	H	H
(II)－2590	S	3	F	H	H	F	H	H	H	H	H	H	H
(II)－2591	S	3	F	H	H	H	F	H	H	H	H	H	H
(II)－2592	S	3	F	H	H	H	H	F	H	H	H	H	H
(II)－2593	S	3	F	H	H	H	H	H	F	H	H	H	H
(II)－2594	S	3	F	H	H	H	H	H	H	F	H	H	H
(II)－2595	S	3	F	H	H	H	H	H	H	H	F	H	H
(II)－2596	S	3	F	H	H	H	H	H	H	H	H	F	H
(II)－2597	S	3	F	H	H	H	H	H	H	H	H	H	F
(II)－2598	S	3	H	F	F	H	H	H	H	H	H	H	H
(II)－2599	S	3	H	F	H	F	H	H	H	H	H	H	H
(II)－2600	S	3	H	F	H	H	F	H	H	H	H	H	H
(II)－2601	S	3	H	F	H	H	H	F	H	H	H	H	H
(II)－2602	S	3	H	F	H	H	H	H	F	H	H	H	H
(II)－2603	S	3	H	F	H	H	H	H	H	F	H	H	H
(II)－2604	S	3	H	F	H	H	H	H	H	H	F	H	H
(II)－2605	S	3	H	F	H	H	H	H	H	H	H	F	H
(II)－2606	S	3	H	F	H	H	H	H	H	H	H	H	F
(II)－2607	S	3	H	H	F	F	H	H	H	H	H	H	H
(II)－2608	S	3	H	H	F	H	F	H	H	H	H	H	H
(II)－2609	S	3	H	H	F	H	H	F	H	H	H	H	H
(II)－2610	S	3	H	H	F	H	H	H	F	H	H	H	H
(II)－2611	S	3	H	H	F	H	H	H	H	F	H	H	H
(II)－2612	S	3	H	H	F	H	H	H	H	H	F	H	H
(II)－2613	S	3	H	H	F	H	H	H	H	H	H	F	H
(II)－2614	S	3	H	H	F	H	H	H	H	H	H	H	F
(II)－2615	S	3	H	H	H	F	F	H	H	H	H	H	H
(II)－2616	S	3	H	H	H	F	H	F	H	H	H	H	H
(II)－2617	S	3	H	H	H	F	H	H	F	H	H	H	H
(II)－2618	S	3	H	H	H	F	H	H	H	F	H	H	H
(II)－2619	S	3	H	H	H	F	H	H	H	H	F	H	H
(II)－2620	S	3	H	H	H	F	H	H	H	H	H	F	H
(II)－2621	S	3	H	H	H	F	H	H	H	H	H	H	F
(II)－2622	S	3	H	H	H	H	F	F	H	H	H	H	H
(II)－2623	S	3	H	H	H	H	F	H	F	H	H	H	H
(II)－2624	S	3	H	H	H	H	F	H	H	F	H	H	H
(II)－2625	S	3	H	H	H	H	F	H	H	H	F	H	H
(II)－2626	S	3	H	H	H	H	F	H	H	H	H	F	H
(II)－2627	S	3	H	H	H	H	F	H	H	H	H	H	F
(II)－2628	S	3	H	H	H	H	H	F	F	H	H	H	H
(II)－2629	S	3	H	H	H	H	H	F	H	F	H	H	H
(II)－2630	S	3	H	H	H	H	H	F	H	H	F	H	H
(II)－2631	S	3	H	H	H	H	H	F	H	H	H	F	H
(II)－2632	S	3	H	H	H	H	H	F	H	H	H	H	F
(II)－2633	S	3	H	H	H	H	H	H	F	F	H	H	H
(II)－2634	S	3	H	H	H	H	H	H	F	H	F	H	H
(II)－2635	S	3	H	H	H	H	H	H	F	H	H	F	H
(II)－2636	S	3	H	H	H	H	H	H	F	H	H	H	F
(II)－2637	S	3	H	H	H	H	H	H	H	F	F	H	H
(II)－2638	S	3	H	H	H	H	H	H	H	F	H	F	H
(II)－2639	S	3	H	H	H	H	H	H	H	F	H	H	F
(II)－2640	S	3	H	H	H	H	H	H	H	H	F	F	H

【表８３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2641	S	3	H	H	H	H	H	H	H	H	F	H	F
(II)－2642	S	3	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－2643	S	3	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－2644	S	3	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－2645	S	3	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－2646	S	3	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－2647	S	3	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－2648	S	3	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－2649	S	3	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－2650	S	3	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－2651	S	3	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－2652	S	3	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－2653	S	3	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－2654	S	3	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－2655	S	3	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－2656	S	3	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－2657	S	3	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－2658	S	3	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－2659	S	3	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－2660	S	3	H	CH_3	H	H	H	H	H	H	H	F	H
(II)－2661	S	3	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－2662	S	3	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－2663	S	3	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－2664	S	3	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－2665	S	3	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－2666	S	3	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－2667	S	3	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2668	S	3	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2669	S	3	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－2670	S	3	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－2671	S	3	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－2672	S	3	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－2673	S	3	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－2674	S	3	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－2675	S	3	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－2676	S	3	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－2677	S	3	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－2678	S	3	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－2679	S	3	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－2680	S	3	H	H	H	H	CH_3	H	H	F	H	H	H
(II)－2681	S	3	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－2682	S	3	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－2683	S	3	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－2684	S	3	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－2685	S	3	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－2686	S	3	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－2687	S	3	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－2688	S	3	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－2689	S	3	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－2690	S	3	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－2691	S	3	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－2692	S	3	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－2693	S	3	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－2694	S	3	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－2695	S	3	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－2696	S	3	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－2697	S	3	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－2698	S	3	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－2699	S	3	H	Ph	H	H	H	H	H	H	H	H	H
(II)－2700	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H

【表８４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2701	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－2702	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－2703	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－2704	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－2705	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－2706	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－2707	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－2708	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－2709	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－2710	S	3	H	Tol	H	H	H	H	H	H	H	H	H
(II)－2711	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－2712	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－2713	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－2714	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－2715	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－2716	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－2717	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－2718	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－2719	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－2720	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3
(II)－2721	S	3	H	Phen	H	H	H	H	H	H	H	H	H
(II)－2722	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－2723	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－2724	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－2725	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－2726	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－2727	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－2728	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－2729	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－2730	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－2731	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－2732	S	3	F	Ph	H	H	H	H	H	H	H	H	H
(II)－2733	S	3	H	Ph	F	H	H	H	H	H	H	H	H
(II)－2734	S	3	H	Ph	H	F	H	H	H	H	H	H	H
(II)－2735	S	3	H	Ph	H	H	F	H	H	H	H	H	H
(II)－2736	S	3	H	Ph	H	H	H	F	H	H	H	H	H
(II)－2737	S	3	H	Ph	H	H	H	H	F	H	H	H	H
(II)－2738	S	3	H	Ph	H	H	H	H	H	F	H	H	H
(II)－2739	S	3	H	Ph	H	H	H	H	H	H	F	H	H
(II)－2740	S	3	H	Ph	H	H	H	H	H	H	H	F	H
(II)－2741	S	3	H	Ph	H	H	H	H	H	H	H	H	F
(II)－2742	S	3	F	Ph	F	H	H	H	H	H	H	H	H
(II)－2743	S	3	F	Ph	H	F	H	H	H	H	H	H	H
(II)－2744	S	3	F	Ph	H	H	F	H	H	H	H	H	H
(II)－2745	S	3	F	Ph	H	H	H	F	H	H	H	H	H
(II)－2746	S	3	F	Ph	H	H	H	H	F	H	H	H	H
(II)－2747	S	3	F	Ph	H	H	H	H	H	F	H	H	H
(II)－2748	S	3	F	Ph	H	H	H	H	H	H	F	H	H
(II)－2749	S	3	F	Ph	H	H	H	H	H	H	H	F	H
(II)－2750	S	3	F	Ph	H	H	H	H	H	H	H	H	F
(II)－2751	S	3	H	Ph	F	F	H	H	H	H	H	H	H
(II)－2752	S	3	H	Ph	F	H	F	H	H	H	H	H	H
(II)－2753	S	3	H	Ph	F	H	H	F	H	H	H	H	H
(II)－2754	S	3	H	Ph	F	H	H	H	F	H	H	H	H
(II)－2755	S	3	H	Ph	F	H	H	H	H	F	H	H	H
(II)－2756	S	3	H	Ph	F	H	H	H	H	H	F	H	H
(II)－2757	S	3	H	Ph	F	H	H	H	H	H	H	F	H
(II)－2758	S	3	H	Ph	F	H	H	H	H	H	H	H	F
(II)－2759	S	3	H	Ph	H	F	F	H	H	H	H	H	H
(II)－2760	S	3	H	Ph	H	F	H	F	H	H	H	H	H

【表８５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2761	S	3	H	Ph	H	F	H	H	F	H	H	H	H
(II)－2762	S	3	H	Ph	H	F	H	H	H	F	H	H	H
(II)－2763	S	3	H	Ph	H	F	H	H	H	H	F	H	H
(II)－2764	S	3	H	Ph	H	F	H	H	H	H	H	F	H
(II)－2765	S	3	H	Ph	H	F	H	H	H	H	H	H	F
(II)－2766	S	3	H	Ph	H	H	F	F	H	H	H	H	H
(II)－2767	S	3	H	Ph	H	H	F	H	F	H	H	H	H
(II)－2768	S	3	H	Ph	H	H	F	H	H	F	H	H	H
(II)－2769	S	3	H	Ph	H	H	F	H	H	H	F	H	H
(II)－2770	S	3	H	Ph	H	H	F	H	H	H	H	F	H
(II)－2771	S	3	H	Ph	H	H	F	H	H	H	H	H	F
(II)－2772	S	3	H	Ph	H	H	H	F	F	H	H	H	H
(II)－2773	S	3	H	Ph	H	H	H	F	H	F	H	H	H
(II)－2774	S	3	H	Ph	H	H	H	F	H	H	F	H	H
(II)－2775	S	3	H	Ph	H	H	H	F	H	H	H	F	H
(II)－2776	S	3	H	Ph	H	H	H	F	H	H	H	H	F
(II)－2777	S	3	H	Ph	H	H	H	H	F	F	H	H	H
(II)－2778	S	3	H	Ph	H	H	H	H	F	H	F	H	H
(II)－2779	S	3	H	Ph	H	H	H	H	F	H	H	F	H
(II)－2780	S	3	H	Ph	H	H	H	H	F	H	H	H	F
(II)－2781	S	3	H	Ph	H	H	H	H	H	F	F	H	H
(II)－2782	S	3	H	Ph	H	H	H	H	H	F	H	F	H
(II)－2783	S	3	H	Ph	H	H	H	H	H	F	H	H	F
(II)－2784	S	3	H	Ph	H	H	H	H	H	H	F	F	H
(II)－2785	S	3	H	Ph	H	H	H	H	H	H	F	H	F
(II)－2786	S	3	H	Ph	H	H	H	H	H	H	H	F	F
(II)－2787	S	3	F	Tol	H	H	H	H	H	H	H	H	H
(II)－2788	S	3	H	Tol	F	H	H	H	H	H	H	H	H
(II)－2789	S	3	H	Tol	H	F	H	H	H	H	H	H	H
(II)－2790	S	3	H	Tol	H	H	F	H	H	H	H	H	H
(II)－2791	S	3	H	Tol	H	H	H	F	H	H	H	H	H
(II)－2792	S	3	H	Tol	H	H	H	H	F	H	H	H	H
(II)－2793	S	3	H	Tol	H	H	H	H	H	F	H	H	H
(II)－2794	S	3	H	Tol	H	H	H	H	H	H	F	H	H
(II)－2795	S	3	H	Tol	H	H	H	H	H	H	H	F	H
(II)－2796	S	3	H	Tol	H	H	H	H	H	H	H	H	F
(II)－2797	S	3	F	Tol	F	H	H	H	H	H	H	H	H
(II)－2798	S	3	F	Tol	H	F	H	H	H	H	H	H	H
(II)－2799	S	3	F	Tol	H	H	F	H	H	H	H	H	H
(II)－2800	S	3	F	Tol	H	H	H	F	H	H	H	H	H
(II)－2801	S	3	F	Tol	H	H	H	H	F	H	H	H	H
(II)－2802	S	3	F	Tol	H	H	H	H	H	F	H	H	H
(II)－2803	S	3	F	Tol	H	H	H	H	H	H	F	H	H
(II)－2804	S	3	F	Tol	H	H	H	H	H	H	H	F	H
(II)－2805	S	3	F	Tol	H	H	H	H	H	H	H	H	F
(II)－2806	S	3	H	Tol	F	F	H	H	H	H	H	H	H
(II)－2807	S	3	H	Tol	F	H	F	H	H	H	H	H	H
(II)－2808	S	3	H	Tol	F	H	H	F	H	H	H	H	H
(II)－2809	S	3	H	Tol	F	H	H	H	F	H	H	H	H
(II)－2810	S	3	H	Tol	F	H	H	H	H	F	H	H	H
(II)－2811	S	3	H	Tol	F	H	H	H	H	H	F	H	H
(II)－2812	S	3	H	Tol	F	H	H	H	H	H	H	F	H
(II)－2813	S	3	H	Tol	F	H	H	H	H	H	H	H	F
(II)－2814	S	3	H	Tol	H	F	F	H	H	H	H	H	H
(II)－2815	S	3	H	Tol	H	F	H	F	H	H	H	H	H
(II)－2816	S	3	H	Tol	H	F	H	H	F	H	H	H	H
(II)－2817	S	3	H	Tol	H	F	H	H	H	F	H	H	H
(II)－2818	S	3	H	Tol	H	F	H	H	H	H	F	H	H
(II)－2819	S	3	H	Tol	H	F	H	H	H	H	H	F	H
(II)－2820	S	3	H	Tol	H	F	H	H	H	H	H	H	F

【表８６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2821	S	3	H	Tol	H	H	F	F	H	H	H	H	H
(II)－2822	S	3	H	Tol	H	H	F	H	F	H	H	H	H
(II)－2823	S	3	H	Tol	H	H	F	H	H	F	H	H	H
(II)－2824	S	3	H	Tol	H	H	F	H	H	H	F	H	H
(II)－2825	S	3	H	Tol	H	H	F	H	H	H	H	F	H
(II)－2826	S	3	H	Tol	H	H	F	H	H	H	H	H	F
(II)－2827	S	3	H	Tol	H	H	H	F	F	H	H	H	H
(II)－2828	S	3	H	Tol	H	H	H	F	H	F	H	H	H
(II)－2829	S	3	H	Tol	H	H	H	F	H	H	F	H	H
(II)－2830	S	3	H	Tol	H	H	H	F	H	H	H	F	H
(II)－2831	S	3	H	Tol	H	H	H	F	H	H	H	H	F
(II)－2832	S	3	H	Tol	H	H	H	H	F	F	H	H	H
(II)－2833	S	3	H	Tol	H	H	H	H	F	H	F	H	H
(II)－2834	S	3	H	Tol	H	H	H	H	F	H	H	F	H
(II)－2835	S	3	H	Tol	H	H	H	H	F	H	H	H	F
(II)－2836	S	3	H	Tol	H	H	H	H	H	F	F	H	H
(II)－2837	S	3	H	Tol	H	H	H	H	H	F	H	F	H
(II)－2838	S	3	H	Tol	H	H	H	H	H	F	H	H	F
(II)－2839	S	3	H	Tol	H	H	H	H	H	H	F	F	H
(II)－2840	S	3	H	Tol	H	H	H	H	H	H	F	H	F
(II)－2841	S	3	H	Tol	H	H	H	H	H	H	H	F	F
(II)－2842	S	3	F	Phen	H	H	H	H	H	H	H	H	H
(II)－2843	S	3	H	Phen	F	H	H	H	H	H	H	H	H
(II)－2844	S	3	H	Phen	H	F	H	H	H	H	H	H	H
(II)－2845	S	3	H	Phen	H	H	F	H	H	H	H	H	H
(II)－2846	S	3	H	Phen	H	H	H	F	H	H	H	H	H
(II)－2847	S	3	H	Phen	H	H	H	H	F	H	H	H	H
(II)－2848	S	3	H	Phen	H	H	H	H	H	F	H	H	H
(II)－2849	S	3	H	Phen	H	H	H	H	H	H	F	H	H
(II)－2850	S	3	H	Phen	H	H	H	H	H	H	H	F	H
(II)－2851	S	3	H	Phen	H	H	H	H	H	H	H	H	F
(II)－2852	S	3	F	Phen	F	H	H	H	H	H	H	H	H
(II)－2853	S	3	F	Phen	H	F	H	H	H	H	H	H	H
(II)－2854	S	3	F	Phen	H	H	F	H	H	H	H	H	H
(II)－2855	S	3	F	Phen	H	H	H	F	H	H	H	H	H
(II)－2856	S	3	F	Phen	H	H	H	H	F	H	H	H	H
(II)－2857	S	3	F	Phen	H	H	H	H	H	F	H	H	H
(II)－2858	S	3	F	Phen	H	H	H	H	H	H	F	H	H
(II)－2859	S	3	F	Phen	H	H	H	H	H	H	H	F	H
(II)－2860	S	3	F	Phen	H	H	H	H	H	H	H	H	F
(II)－2861	S	3	H	Phen	F	F	H	H	H	H	H	H	H
(II)－2862	S	3	H	Phen	F	H	F	H	H	H	H	H	H
(II)－2863	S	3	H	Phen	F	H	H	F	H	H	H	H	H
(II)－2864	S	3	H	Phen	F	H	H	H	F	H	H	H	H
(II)－2865	S	3	H	Phen	F	H	H	H	H	F	H	H	H
(II)－2866	S	3	H	Phen	F	H	H	H	H	H	F	H	H
(II)－2867	S	3	H	Phen	F	H	H	H	H	H	H	F	H
(II)－2868	S	3	H	Phen	F	H	H	H	H	H	H	H	F
(II)－2869	S	3	H	Phen	H	F	F	H	H	H	H	H	H
(II)－2870	S	3	H	Phen	H	F	H	F	H	H	H	H	H
(II)－2871	S	3	H	Phen	H	F	H	H	F	H	H	H	H
(II)－2872	S	3	H	Phen	H	F	H	H	H	F	H	H	H
(II)－2873	S	3	H	Phen	H	F	H	H	H	H	F	H	H
(II)－2874	S	3	H	Phen	H	F	H	H	H	H	H	F	H
(II)－2875	S	3	H	Phen	H	F	H	H	H	H	H	H	F
(II)－2876	S	3	H	Phen	H	H	F	F	H	H	H	H	H
(II)－2877	S	3	H	Phen	H	H	F	H	F	H	H	H	H
(II)－2878	S	3	H	Phen	H	H	F	H	H	F	H	H	H
(II)－2879	S	3	H	Phen	H	H	F	H	H	H	F	H	H
(II)－2880	S	3	H	Phen	H	H	F	H	H	H	H	F	H

【表８７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2881	S	3	H	Phen	H	H	F	H	H	H	H	H	F
(II)－2882	S	3	H	Phen	H	H	H	F	F	H	H	H	H
(II)－2883	S	3	H	Phen	H	H	H	F	H	F	H	H	H
(II)－2884	S	3	H	Phen	H	H	H	F	H	H	F	H	H
(II)－2885	S	3	H	Phen	H	H	H	F	H	H	H	F	H
(II)－2886	S	3	H	Phen	H	H	H	F	H	H	H	H	F
(II)－2887	S	3	H	Phen	H	H	H	H	F	F	H	H	H
(II)－2888	S	3	H	Phen	H	H	H	H	F	H	F	H	H
(II)－2889	S	3	H	Phen	H	H	H	H	F	H	H	F	H
(II)－2890	S	3	H	Phen	H	H	H	H	F	H	H	H	F
(II)－2891	S	3	H	Phen	H	H	H	H	H	F	F	H	H
(II)－2892	S	3	H	Phen	H	H	H	H	H	F	H	F	H
(II)－2893	S	3	H	Phen	H	H	H	H	H	F	H	H	F
(II)－2894	S	3	H	Phen	H	H	H	H	H	H	F	F	H
(II)－2895	S	3	H	Phen	H	H	H	H	H	H	F	H	F
(II)－2896	S	3	H	Phen	H	H	H	H	H	H	H	F	F
(II)－2897	O	4	F	H	H	H	H	H	H	H	H	H	H
(II)－2898	O	4	H	F	H	H	H	H	H	H	H	H	H
(II)－2899	O	4	H	H	F	H	H	H	H	H	H	H	H
(II)－2900	O	4	H	H	H	F	H	H	H	H	H	H	H
(II)－2901	O	4	H	H	H	H	F	H	H	H	H	H	H
(II)－2902	O	4	H	H	H	H	H	F	H	H	H	H	H
(II)－2903	O	4	H	H	H	H	H	H	F	H	H	H	H
(II)－2904	O	4	H	H	H	H	H	H	H	F	H	H	H
(II)－2905	O	4	H	H	H	H	H	H	H	H	F	H	H
(II)－2906	O	4	H	H	H	H	H	H	H	H	H	F	H
(II)－2907	O	4	H	H	H	H	H	H	H	H	H	H	F
(II)－2908	O	4	F	F	H	H	H	H	H	H	H	H	H
(II)－2909	O	4	F	H	F	H	H	H	H	H	H	H	H
(II)－2910	O	4	F	H	H	F	H	H	H	H	H	H	H
(II)－2911	O	4	F	H	H	H	F	H	H	H	H	H	H
(II)－2912	O	4	F	H	H	H	H	F	H	H	H	H	H
(II)－2913	O	4	F	H	H	H	H	H	F	H	H	H	H
(II)－2914	O	4	F	H	H	H	H	H	H	F	H	H	H
(II)－2915	O	4	F	H	H	H	H	H	H	H	F	H	H
(II)－2916	O	4	F	H	H	H	H	H	H	H	H	F	H
(II)－2917	O	4	F	H	H	H	H	H	H	H	H	H	F
(II)－2918	O	4	H	F	F	H	H	H	H	H	H	H	H
(II)－2919	O	4	H	F	H	F	H	H	H	H	H	H	H
(II)－2920	O	4	H	F	H	H	F	H	H	H	H	H	H
(II)－2921	O	4	H	F	H	H	H	F	H	H	H	H	H
(II)－2922	O	4	H	F	H	H	H	H	F	H	H	H	H
(II)－2923	O	4	H	F	H	H	H	H	H	F	H	H	H
(II)－2924	O	4	H	F	H	H	H	H	H	H	F	H	H
(II)－2925	O	4	H	F	H	H	H	H	H	H	H	F	H
(II)－2926	O	4	H	F	H	H	H	H	H	H	H	H	F
(II)－2927	O	4	H	H	F	F	H	H	H	H	H	H	H
(II)－2928	O	4	H	H	F	H	F	H	H	H	H	H	H
(II)－2929	O	4	H	H	F	H	H	F	H	H	H	H	H
(II)－2930	O	4	H	H	F	H	H	H	F	H	H	H	H
(II)－2931	O	4	H	H	F	H	H	H	H	F	H	H	H
(II)－2932	O	4	H	H	F	H	H	H	H	H	F	H	H
(II)－2933	O	4	H	H	F	H	H	H	H	H	H	F	H
(II)－2934	O	4	H	H	F	H	H	H	H	H	H	H	F
(II)－2935	O	4	H	H	H	F	F	H	H	H	H	H	H
(II)－2936	O	4	H	H	H	F	H	F	H	H	H	H	H
(II)－2937	O	4	H	H	H	F	H	H	F	H	H	H	H
(II)－2938	O	4	H	H	H	F	H	H	H	F	H	H	H
(II)－2939	O	4	H	H	H	F	H	H	H	H	F	H	H
(II)－2940	O	4	H	H	H	F	H	H	H	H	H	F	H

【表８８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－2941	O	4	H	H	H	F	H	H	H	H	H	H	F
(II)－2942	O	4	H	H	H	H	F	F	H	H	H	H	H
(II)－2943	O	4	H	H	H	H	F	H	F	H	H	H	H
(II)－2944	O	4	H	H	H	H	F	H	H	F	H	H	H
(II)－2945	O	4	H	H	H	H	F	H	H	H	F	H	H
(II)－2946	O	4	H	H	H	H	F	H	H	H	H	F	H
(II)－2947	O	4	H	H	H	H	F	H	H	H	H	H	F
(II)－2948	O	4	H	H	H	H	H	F	F	H	H	H	H
(II)－2949	O	4	H	H	H	H	H	F	H	F	H	H	H
(II)－2950	O	4	H	H	H	H	H	F	H	H	F	H	H
(II)－2951	O	4	H	H	H	H	H	F	H	H	H	F	H
(II)－2952	O	4	H	H	H	H	H	F	H	H	H	H	F
(II)－2953	O	4	H	H	H	H	H	H	F	F	H	H	H
(II)－2954	O	4	H	H	H	H	H	H	F	H	F	H	H
(II)－2955	O	4	H	H	H	H	H	H	F	H	H	F	H
(II)－2956	O	4	H	H	H	H	H	H	F	H	H	H	F
(II)－2957	O	4	H	H	H	H	H	H	H	F	F	H	H
(II)－2958	O	4	H	H	H	H	H	H	H	F	H	F	H
(II)－2959	O	4	H	H	H	H	H	H	H	F	H	H	F
(II)－2960	O	4	H	H	H	H	H	H	H	H	F	F	H
(II)－2961	O	4	H	H	H	H	H	H	H	H	F	H	F
(II)－2962	O	4	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－2963	O	4	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－2964	O	4	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－2965	O	4	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－2966	O	4	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－2967	O	4	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－2968	O	4	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－2969	O	4	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－2970	O	4	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－2971	O	4	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－2972	O	4	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－2973	O	4	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－2974	O	4	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－2975	O	4	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－2976	O	4	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－2977	O	4	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－2978	O	4	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－2979	O	4	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－2980	O	4	H	CH_3	H	H	H	H	H	H	H	F	H
(II)－2981	O	4	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－2982	O	4	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－2983	O	4	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－2984	O	4	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－2985	O	4	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－2986	O	4	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－2987	O	4	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2988	O	4	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－2989	O	4	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－2990	O	4	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－2991	O	4	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－2992	O	4	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－2993	O	4	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－2994	O	4	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－2995	O	4	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－2996	O	4	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－2997	O	4	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－2998	O	4	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－2999	O	4	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－3000	O	4	H	H	H	H	CH_3	H	H	F	H	H	H

【表８９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3001	O	4	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－3002	O	4	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－3003	O	4	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－3004	O	4	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－3005	O	4	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－3006	O	4	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－3007	O	4	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－3008	O	4	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－3009	O	4	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－3010	O	4	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－3011	O	4	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－3012	O	4	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－3013	O	4	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－3014	O	4	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－3015	O	4	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－3016	O	4	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－3017	O	4	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－3018	O	4	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－3019	O	4	H	Ph	H	H	H	H	H	H	H	H	H
(II)－3020	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－3021	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－3022	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－3023	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－3024	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－3025	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－3026	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－3027	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－3028	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－3029	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－3030	O	4	H	Tol	H	H	H	H	H	H	H	H	H
(II)－3031	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－3032	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－3033	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－3034	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－3035	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－3036	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－3037	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－3038	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－3039	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－3040	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3
(II)－3041	O	4	H	Phen	H	H	H	H	H	H	H	H	H
(II)－3042	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－3043	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－3044	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－3045	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－3046	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－3047	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－3048	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－3049	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－3050	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－3051	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－3052	O	4	F	Ph	H	H	H	H	H	H	H	H	H
(II)－3053	O	4	H	Ph	F	H	H	H	H	H	H	H	H
(II)－3054	O	4	H	Ph	H	F	H	H	H	H	H	H	H
(II)－3055	O	4	H	Ph	H	H	F	H	H	H	H	H	H
(II)－3056	O	4	H	Ph	H	H	H	F	H	H	H	H	H
(II)－3057	O	4	H	Ph	H	H	H	H	F	H	H	H	H
(II)－3058	O	4	H	Ph	H	H	H	H	H	F	H	H	H
(II)－3059	O	4	H	Ph	H	H	H	H	H	H	F	H	H
(II)－3060	O	4	H	Ph	H	H	H	H	H	H	H	F	H

【表９０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3061	O	4	H	Ph	H	H	H	H	H	H	H	H	F
(II)－3062	O	4	F	Ph	F	H	H	H	H	H	H	H	H
(II)－3063	O	4	F	Ph	H	F	H	H	H	H	H	H	H
(II)－3064	O	4	F	Ph	H	H	F	H	H	H	H	H	H
(II)－3065	O	4	F	Ph	H	H	H	F	H	H	H	H	H
(II)－3066	O	4	F	Ph	H	H	H	H	F	H	H	H	H
(II)－3067	O	4	F	Ph	H	H	H	H	H	F	H	H	H
(II)－3068	O	4	F	Ph	H	H	H	H	H	H	F	H	H
(II)－3069	O	4	F	Ph	H	H	H	H	H	H	H	F	H
(II)－3070	O	4	F	Ph	H	H	H	H	H	H	H	H	F
(II)－3071	O	4	H	Ph	F	F	H	H	H	H	H	H	H
(II)－3072	O	4	H	Ph	F	H	F	H	H	H	H	H	H
(II)－3073	O	4	H	Ph	F	H	H	F	H	H	H	H	H
(II)－3074	O	4	H	Ph	F	H	H	H	F	H	H	H	H
(II)－3075	O	4	H	Ph	F	H	H	H	H	F	H	H	H
(II)－3076	O	4	H	Ph	F	H	H	H	H	H	F	H	H
(II)－3077	O	4	H	Ph	F	H	H	H	H	H	H	F	H
(II)－3078	O	4	H	Ph	F	H	H	H	H	H	H	H	F
(II)－3079	O	4	H	Ph	H	F	F	H	H	H	H	H	H
(II)－3080	O	4	H	Ph	H	F	H	F	H	H	H	H	H
(II)－3081	O	4	H	Ph	H	F	H	H	F	H	H	H	H
(II)－3082	O	4	H	Ph	H	F	H	H	H	F	H	H	H
(II)－3083	O	4	H	Ph	H	F	H	H	H	H	F	H	H
(II)－3084	O	4	H	Ph	H	F	H	H	H	H	H	F	H
(II)－3085	O	4	H	Ph	H	F	H	H	H	H	H	H	F
(II)－3086	O	4	H	Ph	H	H	F	F	H	H	H	H	H
(II)－3087	O	4	H	Ph	H	H	F	H	F	H	H	H	H
(II)－3088	O	4	H	Ph	H	H	F	H	H	F	H	H	H
(II)－3089	O	4	H	Ph	H	H	F	H	H	H	F	H	H
(II)－3090	O	4	H	Ph	H	H	F	H	H	H	H	F	H
(II)－3091	O	4	H	Ph	H	H	F	H	H	H	H	H	F
(II)－3092	O	4	H	Ph	H	H	H	F	F	H	H	H	H
(II)－3093	O	4	H	Ph	H	H	H	F	H	F	H	H	H
(II)－3094	O	4	H	Ph	H	H	H	F	H	H	F	H	H
(II)－3095	O	4	H	Ph	H	H	H	F	H	H	H	F	H
(II)－3096	O	4	H	Ph	H	H	H	F	H	H	H	H	F
(II)－3097	O	4	H	Ph	H	H	H	H	F	F	H	H	H
(II)－3098	O	4	H	Ph	H	H	H	H	F	H	F	H	H
(II)－3099	O	4	H	Ph	H	H	H	H	F	H	H	F	H
(II)－3100	O	4	H	Ph	H	H	H	H	F	H	H	H	F
(II)－3101	O	4	H	Ph	H	H	H	H	H	F	F	H	H
(II)－3102	O	4	H	Ph	H	H	H	H	H	F	H	F	H
(II)－3103	O	4	H	Ph	H	H	H	H	H	F	H	H	F
(II)－3104	O	4	H	Ph	H	H	H	H	H	H	F	F	H
(II)－3105	O	4	H	Ph	H	H	H	H	H	H	F	H	F
(II)－3106	O	4	H	Ph	H	H	H	H	H	H	H	F	F
(II)－3107	O	4	F	Tol	H	H	H	H	H	H	H	H	H
(II)－3108	O	4	H	Tol	F	H	H	H	H	H	H	H	H
(II)－3109	O	4	H	Tol	H	F	H	H	H	H	H	H	H
(II)－3110	O	4	H	Tol	H	H	F	H	H	H	H	H	H
(II)－3111	O	4	H	Tol	H	H	H	F	H	H	H	H	H
(II)－3112	O	4	H	Tol	H	H	H	H	F	H	H	H	H
(II)－3113	O	4	H	Tol	H	H	H	H	H	F	H	H	H
(II)－3114	O	4	H	Tol	H	H	H	H	H	H	F	H	H
(II)－3115	O	4	H	Tol	H	H	H	H	H	H	H	F	H
(II)－3116	O	4	H	Tol	H	H	H	H	H	H	H	H	F
(II)－3117	O	4	F	Tol	F	H	H	H	H	H	H	H	H
(II)－3118	O	4	F	Tol	H	F	H	H	H	H	H	H	H
(II)－3119	O	4	F	Tol	H	H	F	H	H	H	H	H	H
(II)－3120	O	4	F	Tol	H	H	H	F	H	H	H	H	H

【表９１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3121	O	4	F	Tol	H	H	H	H	F	H	H	H	H
(II)－3122	O	4	F	Tol	H	H	H	H	H	F	H	H	H
(II)－3123	O	4	F	Tol	H	H	H	H	H	H	F	H	H
(II)－3124	O	4	F	Tol	H	H	H	H	H	H	H	F	H
(II)－3125	O	4	F	Tol	H	H	H	H	H	H	H	H	F
(II)－3126	O	4	H	Tol	F	F	H	H	H	H	H	H	H
(II)－3127	O	4	H	Tol	F	H	F	H	H	H	H	H	H
(II)－3128	O	4	H	Tol	F	H	H	F	H	H	H	H	H
(II)－3129	O	4	H	Tol	F	H	H	H	F	H	H	H	H
(II)－3130	O	4	H	Tol	F	H	H	H	H	F	H	H	H
(II)－3131	O	4	H	Tol	F	H	H	H	H	H	F	H	H
(II)－3132	O	4	H	Tol	F	H	H	H	H	H	H	F	H
(II)－3133	O	4	H	Tol	F	H	H	H	H	H	H	H	F
(II)－3134	O	4	H	Tol	H	F	F	H	H	H	H	H	H
(II)－3135	O	4	H	Tol	H	F	H	F	H	H	H	H	H
(II)－3136	O	4	H	Tol	H	F	H	H	F	H	H	H	H
(II)－3137	O	4	H	Tol	H	F	H	H	H	F	H	H	H
(II)－3138	O	4	H	Tol	H	F	H	H	H	H	F	H	H
(II)－3139	O	4	H	Tol	H	F	H	H	H	H	H	F	H
(II)－3140	O	4	H	Tol	H	F	H	H	H	H	H	H	F
(II)－3141	O	4	H	Tol	H	H	F	F	H	H	H	H	H
(II)－3142	O	4	H	Tol	H	H	F	H	F	H	H	H	H
(II)－3143	O	4	H	Tol	H	H	F	H	H	F	H	H	H
(II)－3144	O	4	H	Tol	H	H	F	H	H	H	F	H	H
(II)－3145	O	4	H	Tol	H	H	F	H	H	H	H	F	H
(II)－3146	O	4	H	Tol	H	H	F	H	H	H	H	H	F
(II)－3147	O	4	H	Tol	H	H	H	F	F	H	H	H	H
(II)－3148	O	4	H	Tol	H	H	H	F	H	F	H	H	H
(II)－3149	O	4	H	Tol	H	H	H	F	H	H	F	H	H
(II)－3150	O	4	H	Tol	H	H	H	F	H	H	H	F	H
(II)－3151	O	4	H	Tol	H	H	H	F	H	H	H	H	F
(II)－3152	O	4	H	Tol	H	H	H	H	F	F	H	H	H
(II)－3153	O	4	H	Tol	H	H	H	H	F	H	F	H	H
(II)－3154	O	4	H	Tol	H	H	H	H	F	H	H	F	H
(II)－3155	O	4	H	Tol	H	H	H	H	F	H	H	H	F
(II)－3156	O	4	H	Tol	H	H	H	H	H	F	F	H	H
(II)－3157	O	4	H	Tol	H	H	H	H	H	F	H	F	H
(II)－3158	O	4	H	Tol	H	H	H	H	H	F	H	H	F
(II)－3159	O	4	H	Tol	H	H	H	H	H	H	F	F	H
(II)－3160	O	4	H	Tol	H	H	H	H	H	H	F	H	F
(II)－3161	O	4	H	Tol	H	H	H	H	H	H	H	F	F
(II)－3162	O	4	F	Phen	H	H	H	H	H	H	H	H	H
(II)－3163	O	4	H	Phen	F	H	H	H	H	H	H	H	H
(II)－3164	O	4	H	Phen	H	F	H	H	H	H	H	H	H
(II)－3165	O	4	H	Phen	H	H	F	H	H	H	H	H	H
(II)－3166	O	4	H	Phen	H	H	H	F	H	H	H	H	H
(II)－3167	O	4	H	Phen	H	H	H	H	F	H	H	H	H
(II)－3168	O	4	H	Phen	H	H	H	H	H	F	H	H	H
(II)－3169	O	4	H	Phen	H	H	H	H	H	H	F	H	H
(II)－3170	O	4	H	Phen	H	H	H	H	H	H	H	F	H
(II)－3171	O	4	H	Phen	H	H	H	H	H	H	H	H	F
(II)－3172	O	4	F	Phen	F	H	H	H	H	H	H	H	H
(II)－3173	O	4	F	Phen	H	F	H	H	H	H	H	H	H
(II)－3174	O	4	F	Phen	H	H	F	H	H	H	H	H	H
(II)－3175	O	4	F	Phen	H	H	H	F	H	H	H	H	H
(II)－3176	O	4	F	Phen	H	H	H	H	F	H	H	H	H
(II)－3177	O	4	F	Phen	H	H	H	H	H	F	H	H	H
(II)－3178	O	4	F	Phen	H	H	H	H	H	H	F	H	H
(II)－3179	O	4	F	Phen	H	H	H	H	H	H	H	F	H
(II)－3180	O	4	F	Phen	H	H	H	H	H	H	H	H	F

【表９２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3181	O	4	H	Phen	F	F	H	H	H	H	H	H	H
(II)－3182	O	4	H	Phen	F	H	F	H	H	H	H	H	H
(II)－3183	O	4	H	Phen	F	H	H	F	H	H	H	H	H
(II)－3184	O	4	H	Phen	F	H	H	H	F	H	H	H	H
(II)－3185	O	4	H	Phen	F	H	H	H	H	F	H	H	H
(II)－3186	O	4	H	Phen	F	H	H	H	H	H	F	H	H
(II)－3187	O	4	H	Phen	F	H	H	H	H	H	H	F	H
(II)－3188	O	4	H	Phen	F	H	H	H	H	H	H	H	F
(II)－3189	O	4	H	Phen	H	F	F	H	H	H	H	H	H
(II)－3190	O	4	H	Phen	H	F	H	F	H	H	H	H	H
(II)－3191	O	4	H	Phen	H	F	H	H	F	H	H	H	H
(II)－3192	O	4	H	Phen	H	F	H	H	H	F	H	H	H
(II)－3193	O	4	H	Phen	H	F	H	H	H	H	F	H	H
(II)－3194	O	4	H	Phen	H	F	H	H	H	H	H	F	H
(II)－3195	O	4	H	Phen	H	F	H	H	H	H	H	H	F
(II)－3196	O	4	H	Phen	H	H	F	F	H	H	H	H	H
(II)－3197	O	4	H	Phen	H	H	F	H	F	H	H	H	H
(II)－3198	O	4	H	Phen	H	H	F	H	H	F	H	H	H
(II)－3199	O	4	H	Phen	H	H	F	H	H	H	F	H	H
(II)－3200	O	4	H	Phen	H	H	F	H	H	H	H	F	H
(II)－3201	O	4	H	Phen	H	H	F	H	H	H	H	H	F
(II)－3202	O	4	H	Phen	H	H	H	F	F	H	H	H	H
(II)－3203	O	4	H	Phen	H	H	H	F	H	F	H	H	H
(II)－3204	O	4	H	Phen	H	H	H	F	H	H	F	H	H
(II)－3205	O	4	H	Phen	H	H	H	F	H	H	H	F	H
(II)－3206	O	4	H	Phen	H	H	H	F	H	H	H	H	F
(II)－3207	O	4	H	Phen	H	H	H	H	F	F	H	H	H
(II)－3208	O	4	H	Phen	H	H	H	H	F	H	F	H	H
(II)－3209	O	4	H	Phen	H	H	H	H	F	H	H	F	H
(II)－3210	O	4	H	Phen	H	H	H	H	F	H	H	H	F
(II)－3211	O	4	H	Phen	H	H	H	H	H	F	F	H	H
(II)－3212	O	4	H	Phen	H	H	H	H	H	F	H	F	H
(II)－3213	O	4	H	Phen	H	H	H	H	H	F	H	H	F
(II)－3214	O	4	H	Phen	H	H	H	H	H	H	F	F	H
(II)－3215	O	4	H	Phen	H	H	H	H	H	H	F	H	F
(II)－3216	O	4	H	Phen	H	H	H	H	H	H	H	F	F
(II)－3217	S	4	F	H	H	H	H	H	H	H	H	H	H
(II)－3218	S	4	H	F	H	H	H	H	H	H	H	H	H
(II)－3219	S	4	H	H	F	H	H	H	H	H	H	H	H
(II)－3220	S	4	H	H	H	F	H	H	H	H	H	H	H
(II)－3221	S	4	H	H	H	H	F	H	H	H	H	H	H
(II)－3222	S	4	H	H	H	H	H	F	H	H	H	H	H
(II)－3223	S	4	H	H	H	H	H	H	F	H	H	H	H
(II)－3224	S	4	H	H	H	H	H	H	H	F	H	H	H
(II)－3225	S	4	H	H	H	H	H	H	H	H	F	H	H
(II)－3226	S	4	H	H	H	H	H	H	H	H	H	F	H
(II)－3227	S	4	H	H	H	H	H	H	H	H	H	H	F
(II)－3228	S	4	F	F	H	H	H	H	H	H	H	H	H
(II)－3229	S	4	F	H	F	H	H	H	H	H	H	H	H
(II)－3230	S	4	F	H	H	F	H	H	H	H	H	H	H
(II)－3231	S	4	F	H	H	H	F	H	H	H	H	H	H
(II)－3232	S	4	F	H	H	H	H	F	H	H	H	H	H
(II)－3233	S	4	F	H	H	H	H	H	F	H	H	H	H
(II)－3234	S	4	F	H	H	H	H	H	H	F	H	H	H
(II)－3235	S	4	F	H	H	H	H	H	H	H	F	H	H
(II)－3236	S	4	F	H	H	H	H	H	H	H	H	F	H
(II)－3237	S	4	F	H	H	H	H	H	H	H	H	H	F
(II)－3238	S	4	H	F	F	H	H	H	H	H	H	H	H
(II)－3239	S	4	H	F	H	F	H	H	H	H	H	H	H
(II)－3240	S	4	H	F	H	H	F	H	H	H	H	H	H

【表９３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3241	S	4	H	F	H	H	H	F	H	H	H	H	H
(II)－3242	S	4	H	F	H	H	H	H	F	H	H	H	H
(II)－3243	S	4	H	F	H	H	H	H	H	F	H	H	H
(II)－3244	S	4	H	F	H	H	H	H	H	H	F	H	H
(II)－3245	S	4	H	F	H	H	H	H	H	H	H	F	H
(II)－3246	S	4	H	F	H	H	H	H	H	H	H	H	F
(II)－3247	S	4	H	H	F	F	H	H	H	H	H	H	H
(II)－3248	S	4	H	H	F	H	F	H	H	H	H	H	H
(II)－3249	S	4	H	H	F	H	H	F	H	H	H	H	H
(II)－3250	S	4	H	H	F	H	H	H	F	H	H	H	H
(II)－3251	S	4	H	H	F	H	H	H	H	F	H	H	H
(II)－3252	S	4	H	H	F	H	H	H	H	H	F	H	H
(II)－3253	S	4	H	H	F	H	H	H	H	H	H	F	H
(II)－3254	S	4	H	H	F	H	H	H	H	H	H	H	F
(II)－3255	S	4	H	H	H	F	F	H	H	H	H	H	H
(II)－3256	S	4	H	H	H	F	H	F	H	H	H	H	H
(II)－3257	S	4	H	H	H	F	H	H	F	H	H	H	H
(II)－3258	S	4	H	H	H	F	H	H	H	F	H	H	H
(II)－3259	S	4	H	H	H	F	H	H	H	H	F	H	H
(II)－3260	S	4	H	H	H	F	H	H	H	H	H	F	H
(II)－3261	S	4	H	H	H	F	H	H	H	H	H	H	F
(II)－3262	S	4	H	H	H	H	F	F	H	H	H	H	H
(II)－3263	S	4	H	H	H	H	F	H	F	H	H	H	H
(II)－3264	S	4	H	H	H	H	F	H	H	F	H	H	H
(II)－3265	S	4	H	H	H	H	F	H	H	H	F	H	H
(II)－3266	S	4	H	H	H	H	F	H	H	H	H	F	H
(II)－3267	S	4	H	H	H	H	F	H	H	H	H	H	F
(II)－3268	S	4	H	H	H	H	H	F	F	H	H	H	H
(II)－3269	S	4	H	H	H	H	H	F	H	F	H	H	H
(II)－3270	S	4	H	H	H	H	H	F	H	H	F	H	H
(II)－3271	S	4	H	H	H	H	H	F	H	H	H	F	H
(II)－3272	S	4	H	H	H	H	H	F	H	H	H	H	F
(II)－3273	S	4	H	H	H	H	H	H	F	F	H	H	H
(II)－3274	S	4	H	H	H	H	H	H	F	H	F	H	H
(II)－3275	S	4	H	H	H	H	H	H	F	H	H	F	H
(II)－3276	S	4	H	H	H	H	H	H	F	H	H	H	F
(II)－3277	S	4	H	H	H	H	H	H	H	F	F	H	H
(II)－3278	S	4	H	H	H	H	H	H	H	F	H	F	H
(II)－3279	S	4	H	H	H	H	H	H	H	F	H	H	F
(II)－3280	S	4	H	H	H	H	H	H	H	H	F	F	H
(II)－3281	S	4	H	H	H	H	H	H	H	H	F	H	F
(II)－3282	S	4	CH_3	F	H	H	H	H	H	H	H	H	H
(II)－3283	S	4	CH_3	H	F	H	H	H	H	H	H	H	H
(II)－3284	S	4	CH_3	H	H	F	H	H	H	H	H	H	H
(II)－3285	S	4	CH_3	H	H	H	F	H	H	H	H	H	H
(II)－3286	S	4	CH_3	H	H	H	H	F	H	H	H	H	H
(II)－3287	S	4	CH_3	H	H	H	H	H	F	H	H	H	H
(II)－3288	S	4	CH_3	H	H	H	H	H	H	F	H	H	H
(II)－3289	S	4	CH_3	H	H	H	H	H	H	H	F	H	H
(II)－3290	S	4	CH_3	H	H	H	H	H	H	H	H	F	H
(II)－3291	S	4	CH_3	H	H	H	H	H	H	H	H	H	F
(II)－3292	S	4	F	CH_3	H	H	H	H	H	H	H	H	H
(II)－3293	S	4	H	CH_3	F	H	H	H	H	H	H	H	H
(II)－3294	S	4	H	CH_3	H	F	H	H	H	H	H	H	H
(II)－3295	S	4	H	CH_3	H	H	F	H	H	H	H	H	H
(II)－3296	S	4	H	CH_3	H	H	H	F	H	H	H	H	H
(II)－3297	S	4	H	CH_3	H	H	H	H	F	H	H	H	H
(II)－3298	S	4	H	CH_3	H	H	H	H	H	F	H	H	H
(II)－3299	S	4	H	CH_3	H	H	H	H	H	H	F	H	H
(II)－3300	S	4	H	CH_3	H	H	H	H	H	H	H	F	H

【表９４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3301	S	4	H	CH_3	H	H	H	H	H	H	H	H	F
(II)－3302	S	4	H	H	CH_3	F	H	H	H	H	H	H	H
(II)－3303	S	4	H	H	CH_3	H	F	H	H	H	H	H	H
(II)－3304	S	4	H	H	CH_3	H	H	F	H	H	H	H	H
(II)－3305	S	4	H	H	CH_3	H	H	H	F	H	H	H	H
(II)－3306	S	4	H	H	CH_3	H	H	H	H	F	H	H	H
(II)－3307	S	4	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－3308	S	4	H	H	CH_3	H	H	H	H	H	F	H	H
(II)－3309	S	4	H	H	CH_3	H	H	H	H	H	H	F	H
(II)－3310	S	4	H	H	CH_3	H	H	H	H	H	H	H	F
(II)－3311	S	4	H	H	H	CH_3	F	H	H	H	H	H	H
(II)－3312	S	4	H	H	H	CH_3	H	F	H	H	H	H	H
(II)－3313	S	4	H	H	H	CH_3	H	H	F	H	H	H	H
(II)－3314	S	4	H	H	H	CH_3	H	H	H	F	H	H	H
(II)－3315	S	4	H	H	H	CH_3	H	H	H	H	F	H	H
(II)－3316	S	4	H	H	H	CH_3	H	H	H	H	H	F	H
(II)－3317	S	4	H	H	H	CH_3	H	H	H	H	H	H	F
(II)－3318	S	4	H	H	H	H	CH_3	F	H	H	H	H	H
(II)－3319	S	4	H	H	H	H	CH_3	H	F	H	H	H	H
(II)－3320	S	4	H	H	H	H	CH_3	H	H	F	H	H	H
(II)－3321	S	4	H	H	H	H	CH_3	H	H	H	F	H	H
(II)－3322	S	4	H	H	H	H	CH_3	H	H	H	H	F	H
(II)－3323	S	4	H	H	H	H	CH_3	H	H	H	H	H	F
(II)－3324	S	4	H	H	H	H	H	CH_3	F	H	H	H	H
(II)－3325	S	4	H	H	H	H	H	CH_3	H	F	H	H	H
(II)－3326	S	4	H	H	H	H	H	CH_3	H	H	F	H	H
(II)－3327	S	4	H	H	H	H	H	CH_3	H	H	H	F	H
(II)－3328	S	4	H	H	H	H	H	CH_3	H	H	H	H	F
(II)－3329	S	4	H	H	H	H	H	H	CH_3	F	H	H	H
(II)－3330	S	4	H	H	H	H	H	H	CH_3	H	F	H	H
(II)－3331	S	4	H	H	H	H	H	H	CH_3	H	H	F	H
(II)－3332	S	4	H	H	H	H	H	H	CH_3	H	H	H	F
(II)－3333	S	4	H	H	H	H	H	H	H	CH_3	F	H	H
(II)－3334	S	4	H	H	H	H	H	H	H	CH_3	H	F	H
(II)－3335	S	4	H	H	H	H	H	H	H	CH_3	H	H	F
(II)－3336	S	4	H	H	H	H	H	H	H	H	CH_3	F	H
(II)－3337	S	4	H	H	H	H	H	H	H	H	CH_3	H	F
(II)－3338	S	4	H	H	H	H	H	H	H	H	H	CH_3	F
(II)－3339	S	4	H	Ph	H	H	H	H	H	H	H	H	H
(II)－3340	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H
(II)－3341	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H
(II)－3342	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H
(II)－3343	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H
(II)－3344	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H
(II)－3345	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H
(II)－3346	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H
(II)－3347	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H
(II)－3348	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H
(II)－3349	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3
(II)－3350	S	4	H	Tol	H	H	H	H	H	H	H	H	H
(II)－3351	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H
(II)－3352	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H
(II)－3353	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H
(II)－3354	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H
(II)－3355	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H
(II)－3356	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H
(II)－3357	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H
(II)－3358	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H
(II)－3359	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H
(II)－3360	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表９５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3361	S	4	H	Phen	H	H	H	H	H	H	H	H	H
(II)－3362	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H
(II)－3363	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H
(II)－3364	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H
(II)－3365	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H
(II)－3366	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H
(II)－3367	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H
(II)－3368	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H
(II)－3369	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H
(II)－3370	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H
(II)－3371	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3
(II)－3372	S	4	F	Ph	H	H	H	H	H	H	H	H	H
(II)－3373	S	4	H	Ph	F	H	H	H	H	H	H	H	H
(II)－3374	S	4	H	Ph	H	F	H	H	H	H	H	H	H
(II)－3375	S	4	H	Ph	H	H	F	H	H	H	H	H	H
(II)－3376	S	4	H	Ph	H	H	H	F	H	H	H	H	H
(II)－3377	S	4	H	Ph	H	H	H	H	F	H	H	H	H
(II)－3378	S	4	H	Ph	H	H	H	H	H	F	H	H	H
(II)－3379	S	4	H	Ph	H	H	H	H	H	H	F	H	H
(II)－3380	S	4	H	Ph	H	H	H	H	H	H	H	F	H
(II)－3381	S	4	H	Ph	H	H	H	H	H	H	H	H	F
(II)－3382	S	4	F	Ph	F	H	H	H	H	H	H	H	H
(II)－3383	S	4	F	Ph	H	F	H	H	H	H	H	H	H
(II)－3384	S	4	F	Ph	H	H	F	H	H	H	H	H	H
(II)－3385	S	4	F	Ph	H	H	H	F	H	H	H	H	H
(II)－3386	S	4	F	Ph	H	H	H	H	F	H	H	H	H
(II)－3387	S	4	F	Ph	H	H	H	H	H	F	H	H	H
(II)－3388	S	4	F	Ph	H	H	H	H	H	H	F	H	H
(II)－3389	S	4	F	Ph	H	H	H	H	H	H	H	F	H
(II)－3390	S	4	F	Ph	H	H	H	H	H	H	H	H	F
(II)－3391	S	4	H	Ph	F	F	H	H	H	H	H	H	H
(II)－3392	S	4	H	Ph	F	H	F	H	H	H	H	H	H
(II)－3393	S	4	H	Ph	F	H	H	F	H	H	H	H	H
(II)－3394	S	4	H	Ph	F	H	H	H	F	H	H	H	H
(II)－3395	S	4	H	Ph	F	H	H	H	H	F	H	H	H
(II)－3396	S	4	H	Ph	F	H	H	H	H	H	F	H	H
(II)－3397	S	4	H	Ph	F	H	H	H	H	H	H	F	H
(II)－3398	S	4	H	Ph	F	H	H	H	H	H	H	H	F
(II)－3399	S	4	H	Ph	H	F	F	H	H	H	H	H	H
(II)－3400	S	4	H	Ph	H	F	H	F	H	H	H	H	H
(II)－3401	S	4	H	Ph	H	F	H	H	F	H	H	H	H
(II)－3402	S	4	H	Ph	H	F	H	H	H	F	H	H	H
(II)－3403	S	4	H	Ph	H	F	H	H	H	H	F	H	H
(II)－3404	S	4	H	Ph	H	F	H	H	H	H	H	F	H
(II)－3405	S	4	H	Ph	H	F	H	H	H	H	H	H	F
(II)－3406	S	4	H	Ph	H	H	F	F	H	H	H	H	H
(II)－3407	S	4	H	Ph	H	H	F	H	F	H	H	H	H
(II)－3408	S	4	H	Ph	H	H	F	H	H	F	H	H	H
(II)－3409	S	4	H	Ph	H	H	F	H	H	H	F	H	H
(II)－3410	S	4	H	Ph	H	H	F	H	H	H	H	F	H
(II)－3411	S	4	H	Ph	H	H	F	H	H	H	H	H	F
(II)－3412	S	4	H	Ph	H	H	H	F	F	H	H	H	H
(II)－3413	S	4	H	Ph	H	H	H	F	H	F	H	H	H
(II)－3414	S	4	H	Ph	H	H	H	F	H	H	F	H	H
(II)－3415	S	4	H	Ph	H	H	H	F	H	H	H	F	H
(II)－3416	S	4	H	Ph	H	H	H	F	H	H	H	H	F
(II)－3417	S	4	H	Ph	H	H	H	H	F	F	H	H	H
(II)－3418	S	4	H	Ph	H	H	H	H	F	H	F	H	H
(II)－3419	S	4	H	Ph	H	H	H	H	F	H	H	F	H
(II)－3420	S	4	H	Ph	H	H	H	H	F	H	H	H	F

【表９６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3421	S	4	H	Ph	H	H	H	H	H	F	F	H	H
(II)－3422	S	4	H	Ph	H	H	H	H	H	F	H	F	H
(II)－3423	S	4	H	Ph	H	H	H	H	H	F	H	H	F
(II)－3424	S	4	H	Ph	H	H	H	H	H	H	F	F	H
(II)－3425	S	4	H	Ph	H	H	H	H	H	H	F	H	F
(II)－3426	S	4	H	Ph	H	H	H	H	H	H	H	F	F
(II)－3427	S	4	F	Tol	H	H	H	H	H	H	H	H	H
(II)－3428	S	4	H	Tol	F	H	H	H	H	H	H	H	H
(II)－3429	S	4	H	Tol	H	F	H	H	H	H	H	H	H
(II)－3430	S	4	H	Tol	H	H	F	H	H	H	H	H	H
(II)－3431	S	4	H	Tol	H	H	H	F	H	H	H	H	H
(II)－3432	S	4	H	Tol	H	H	H	H	F	H	H	H	H
(II)－3433	S	4	H	Tol	H	H	H	H	H	F	H	H	H
(II)－3434	S	4	H	Tol	H	H	H	H	H	H	F	H	H
(II)－3435	S	4	H	Tol	H	H	H	H	H	H	H	F	H
(II)－3436	S	4	H	Tol	H	H	H	H	H	H	H	H	F
(II)－3437	S	4	F	Tol	F	H	H	H	H	H	H	H	H
(II)－3438	S	4	F	Tol	H	F	H	H	H	H	H	H	H
(II)－3439	S	4	F	Tol	H	H	F	H	H	H	H	H	H
(II)－3440	S	4	F	Tol	H	H	H	F	H	H	H	H	H
(II)－3441	S	4	F	Tol	H	H	H	H	F	H	H	H	H
(II)－3442	S	4	F	Tol	H	H	H	H	H	F	H	H	H
(II)－3443	S	4	F	Tol	H	H	H	H	H	H	F	H	H
(II)－3444	S	4	F	Tol	H	H	H	H	H	H	H	F	H
(II)－3445	S	4	F	Tol	H	H	H	H	H	H	H	H	F
(II)－3446	S	4	H	Tol	F	F	H	H	H	H	H	H	H
(II)－3447	S	4	H	Tol	F	H	F	H	H	H	H	H	H
(II)－3448	S	4	H	Tol	F	H	H	F	H	H	H	H	H
(II)－3449	S	4	H	Tol	F	H	H	H	F	H	H	H	H
(II)－3450	S	4	H	Tol	F	H	H	H	H	F	H	H	H
(II)－3451	S	4	H	Tol	F	H	H	H	H	H	F	H	H
(II)－3452	S	4	H	Tol	F	H	H	H	H	H	H	F	H
(II)－3453	S	4	H	Tol	F	H	H	H	H	H	H	H	F
(II)－3454	S	4	H	Tol	H	F	F	H	H	H	H	H	H
(II)－3455	S	4	H	Tol	H	F	H	F	H	H	H	H	H
(II)－3456	S	4	H	Tol	H	F	H	H	F	H	H	H	H
(II)－3457	S	4	H	Tol	H	F	H	H	H	F	H	H	H
(II)－3458	S	4	H	Tol	H	F	H	H	H	H	F	H	H
(II)－3459	S	4	H	Tol	H	F	H	H	H	H	H	F	H
(II)－3460	S	4	H	Tol	H	F	H	H	H	H	H	H	F
(II)－3461	S	4	H	Tol	H	H	F	F	H	H	H	H	H
(II)－3462	S	4	H	Tol	H	H	F	H	F	H	H	H	H
(II)－3463	S	4	H	Tol	H	H	F	H	H	F	H	H	H
(II)－3464	S	4	H	Tol	H	H	F	H	H	H	F	H	H
(II)－3465	S	4	H	Tol	H	H	F	H	H	H	H	F	H
(II)－3466	S	4	H	Tol	H	H	F	H	H	H	H	H	F
(II)－3467	S	4	H	Tol	H	H	H	F	F	H	H	H	H
(II)－3468	S	4	H	Tol	H	H	H	F	H	F	H	H	H
(II)－3469	S	4	H	Tol	H	H	H	F	H	H	F	H	H
(II)－3470	S	4	H	Tol	H	H	H	F	H	H	H	F	H
(II)－3471	S	4	H	Tol	H	H	H	F	H	H	H	H	F
(II)－3472	S	4	H	Tol	H	H	H	H	F	F	H	H	H
(II)－3473	S	4	H	Tol	H	H	H	H	F	H	F	H	H
(II)－3474	S	4	H	Tol	H	H	H	H	F	H	H	F	H
(II)－3475	S	4	H	Tol	H	H	H	H	F	H	H	H	F
(II)－3476	S	4	H	Tol	H	H	H	H	H	F	F	H	H
(II)－3477	S	4	H	Tol	H	H	H	H	H	F	H	F	H
(II)－3478	S	4	H	Tol	H	H	H	H	H	F	H	H	F
(II)－3479	S	4	H	Tol	H	H	H	H	H	H	F	F	H
(II)－3480	S	4	H	Tol	H	H	H	H	H	H	F	H	F

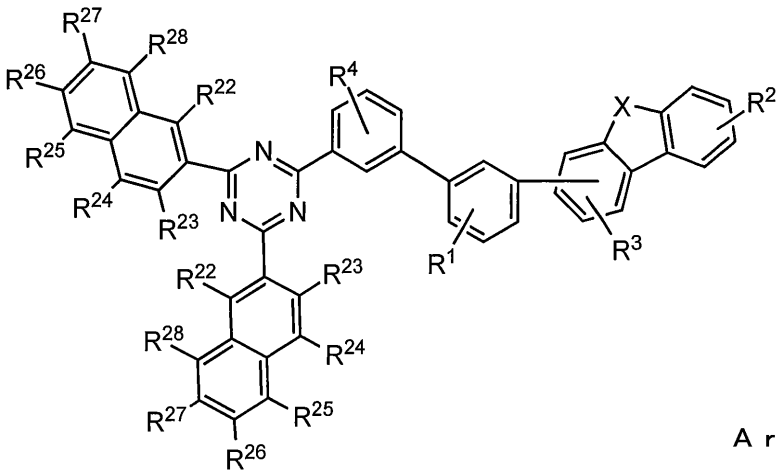
【表９７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{15}	R^{16}	R^{17}	R^{18}	R^{19}	R^{20}	R^{21}
(II)－3481	S	4	H	Tol	H	H	H	H	H	H	H	F	F
(II)－3482	S	4	F	Phen	H	H	H	H	H	H	H	H	H
(II)－3483	S	4	H	Phen	F	H	H	H	H	H	H	H	H
(II)－3484	S	4	H	Phen	H	F	H	H	H	H	H	H	H
(II)－3485	S	4	H	Phen	H	H	F	H	H	H	H	H	H
(II)－3486	S	4	H	Phen	H	H	H	F	H	H	H	H	H
(II)－3487	S	4	H	Phen	H	H	H	H	F	H	H	H	H
(II)－3488	S	4	H	Phen	H	H	H	H	H	F	H	H	H
(II)－3489	S	4	H	Phen	H	H	H	H	H	H	F	H	H
(II)－3490	S	4	H	Phen	H	H	H	H	H	H	H	F	H
(II)－3491	S	4	H	Phen	H	H	H	H	H	H	H	H	F
(II)－3492	S	4	F	Phen	F	H	H	H	H	H	H	H	H
(II)－3493	S	4	F	Phen	H	F	H	H	H	H	H	H	H
(II)－3494	S	4	F	Phen	H	H	F	H	H	H	H	H	H
(II)－3495	S	4	F	Phen	H	H	H	F	H	H	H	H	H
(II)－3496	S	4	F	Phen	H	H	H	H	F	H	H	H	H
(II)－3497	S	4	F	Phen	H	H	H	H	H	F	H	H	H
(II)－3498	S	4	F	Phen	H	H	H	H	H	H	F	H	H
(II)－3499	S	4	F	Phen	H	H	H	H	H	H	H	F	H
(II)－3500	S	4	F	Phen	H	H	H	H	H	H	H	H	F
(II)－3501	S	4	H	Phen	F	F	H	H	H	H	H	H	H
(II)－3502	S	4	H	Phen	F	H	F	H	H	H	H	H	H
(II)－3503	S	4	H	Phen	F	H	H	F	H	H	H	H	H
(II)－3504	S	4	H	Phen	F	H	H	H	F	H	H	H	H
(II)－3505	S	4	H	Phen	F	H	H	H	H	F	H	H	H
(II)－3506	S	4	H	Phen	F	H	H	H	H	H	F	H	H
(II)－3507	S	4	H	Phen	F	H	H	H	H	H	H	F	H
(II)－3508	S	4	H	Phen	F	H	H	H	H	H	H	H	F
(II)－3509	S	4	H	Phen	H	F	F	H	H	H	H	H	H
(II)－3510	S	4	H	Phen	H	F	H	F	H	H	H	H	H
(II)－3511	S	4	H	Phen	H	F	H	H	F	H	H	H	H
(II)－3512	S	4	H	Phen	H	F	H	H	H	F	H	H	H
(II)－3513	S	4	H	Phen	H	F	H	H	H	H	F	H	H
(II)－3514	S	4	H	Phen	H	F	H	H	H	H	H	F	H
(II)－3515	S	4	H	Phen	H	F	H	H	H	H	H	H	F
(II)－3516	S	4	H	Phen	H	H	F	F	H	H	H	H	H
(II)－3517	S	4	H	Phen	H	H	F	H	F	H	H	H	H
(II)－3518	S	4	H	Phen	H	H	F	H	H	F	H	H	H
(II)－3519	S	4	H	Phen	H	H	F	H	H	H	F	H	H
(II)－3520	S	4	H	Phen	H	H	F	H	H	H	H	F	H
(II)－3521	S	4	H	Phen	H	H	F	H	H	H	H	H	F
(II)－3522	S	4	H	Phen	H	H	H	F	F	H	H	H	H
(II)－3523	S	4	H	Phen	H	H	H	F	H	F	H	H	H
(II)－3524	S	4	H	Phen	H	H	H	F	H	H	F	H	H
(II)－3525	S	4	H	Phen	H	H	H	F	H	H	H	F	H
(II)－3526	S	4	H	Phen	H	H	H	F	H	H	H	H	F
(II)－3527	S	4	H	Phen	H	H	H	H	F	F	H	H	H
(II)－3528	S	4	H	Phen	H	H	H	H	F	H	F	H	H
(II)－3529	S	4	H	Phen	H	H	H	H	F	H	H	F	H
(II)－3530	S	4	H	Phen	H	H	H	H	F	H	H	H	F
(II)－3531	S	4	H	Phen	H	H	H	H	H	F	F	H	H
(II)－3532	S	4	H	Phen	H	H	H	H	H	F	H	F	H
(II)－3533	S	4	H	Phen	H	H	H	H	H	F	H	H	F
(II)－3534	S	4	H	Phen	H	H	H	H	H	H	F	F	H
(II)－3535	S	4	H	Phen	H	H	H	H	H	H	F	H	F
(II)－3536	S	4	H	Phen	H	H	H	H	H	H	H	F	F

【００３４】

下記式で表される化合物を表９８～表１５６に示す。式中のＸ、R^1～R^4、R^{22}～R^{28}は、前記一般式〔１〕の場合と同じである。

【化１７】



Ａｒ＝(III)

【００３５】

【表９８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1	O	1	H	H	H	H	H	H	H	H	H	H	H
(III)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－13	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－14	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－15	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－16	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－17	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－18	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－19	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－20	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－21	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－22	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－23	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－24	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－25	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－26	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－27	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－28	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－29	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－30	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－31	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－32	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－33	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－34	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－35	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－36	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－37	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－38	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－39	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－40	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－41	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－42	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－43	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－44	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－45	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－46	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－47	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－48	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－49	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－50	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－51	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－52	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－53	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－54	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－55	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－56	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－57	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－58	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－59	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－60	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表９９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－61	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－62	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－63	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－64	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－65	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－66	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－67	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－68	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－69	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－70	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－71	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－72	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－73	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－74	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－75	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－76	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－77	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－78	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－79	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－80	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－81	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－82	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－83	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－84	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－85	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－86	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－87	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－88	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－89	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－90	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－91	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－92	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－93	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－94	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－95	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－96	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－97	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－98	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－99	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－100	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－101	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－102	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－103	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－104	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－105	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－106	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－107	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－108	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－109	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－110	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－111	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－112	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－113	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－114	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－115	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－116	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－117	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－118	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－119	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－120	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H

【表１００】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－121	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－122	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－123	S	1	H	H	H	H	H	H	H	H	H	H	H
(III)－124	S	1	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－125	S	1	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－126	S	1	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－127	S	1	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－128	S	1	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－129	S	1	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－130	S	1	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－131	S	1	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－132	S	1	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－133	S	1	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－134	S	1	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－135	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－136	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－137	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－138	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－139	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－140	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－141	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－142	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－143	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－144	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－145	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－146	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－147	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－148	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－149	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－150	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－151	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－152	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－153	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－154	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－155	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－156	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－157	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－158	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－159	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－160	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－161	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－162	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－163	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－164	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－165	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－166	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－167	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－168	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－169	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－170	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－171	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－172	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－173	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－174	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－175	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－176	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－177	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－178	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－179	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－180	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H

【表１０１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－181	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－182	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－183	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－184	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－185	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－186	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－187	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－188	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－189	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－190	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－191	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－192	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－193	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－194	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－195	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－196	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－197	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－198	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－199	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－200	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－201	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－202	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－203	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－204	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－205	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－206	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－207	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－208	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－209	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－210	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－211	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－212	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－213	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－214	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－215	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－216	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－217	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－218	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－219	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－220	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－221	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－222	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－223	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－224	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－225	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－226	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－227	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－228	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－229	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－230	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－231	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－232	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－233	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－234	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－235	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－236	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－237	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－238	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－239	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－240	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H

【表１０２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－241	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－242	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－243	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－244	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－245	O	2	H	H	H	H	H	H	H	H	H	H	H
(III)－246	O	2	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－247	O	2	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－248	O	2	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－249	O	2	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－250	O	2	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－251	O	2	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－252	O	2	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－253	O	2	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－254	O	2	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－255	O	2	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－256	O	2	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－257	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－258	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－259	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－260	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－261	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－262	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－263	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－264	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－265	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－266	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－267	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－268	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－269	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－270	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－271	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－272	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－273	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－274	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－275	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－276	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－277	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－278	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－279	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－280	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－281	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－282	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－283	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－284	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－285	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－286	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－287	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－288	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－289	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－290	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－291	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－292	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－293	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－294	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－295	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－296	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－297	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－298	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－299	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－300	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表１０３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－301	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－302	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－303	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－304	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－305	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－306	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－307	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－308	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－309	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－310	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－311	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－312	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－313	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－314	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－315	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－316	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－317	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－318	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－319	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－320	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－321	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－322	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－323	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－324	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－325	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－326	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－327	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－328	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－329	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－330	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－331	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－332	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－333	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－334	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－335	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－336	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－337	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－338	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－339	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－340	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－341	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－342	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－343	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－344	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－345	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－346	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－347	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－348	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－349	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－350	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－351	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－352	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－353	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－354	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－355	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－356	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－357	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－358	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－359	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－360	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3

【表１０４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－361	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－362	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－363	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－364	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－365	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－366	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－367	S	2	H	H	H	H	H	H	H	H	H	H	H
(III)－368	S	2	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－369	S	2	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－370	S	2	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－371	S	2	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－372	S	2	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－373	S	2	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－374	S	2	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－375	S	2	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－376	S	2	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－377	S	2	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－378	S	2	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－379	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－380	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－381	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－382	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－383	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－384	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－385	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－386	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－387	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－388	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－389	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－390	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－391	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－392	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－393	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－394	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－395	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－396	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－397	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－398	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－399	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－400	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－401	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－402	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－403	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－404	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－405	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－406	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－407	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－408	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－409	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－410	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－411	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－412	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－413	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－414	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－415	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－416	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－417	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－418	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－419	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－420	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H

【表１０５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－421	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－422	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－423	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－424	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－425	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－426	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－427	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－428	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－429	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－430	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－431	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－432	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－433	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－434	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－435	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－436	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－437	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－438	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－439	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－440	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－441	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－442	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－443	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－444	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－445	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－446	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－447	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－448	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－449	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－450	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－451	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－452	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－453	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－454	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－455	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－456	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－457	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－458	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－459	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－460	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－461	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－462	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－463	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－464	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－465	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－466	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－467	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－468	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－469	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－470	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－471	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－472	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－473	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－474	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－475	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－476	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－477	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－478	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－479	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－480	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H

【表１０６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－481	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－482	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－483	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－484	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－485	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－486	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－487	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－488	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－489	O	3	H	H	H	H	H	H	H	H	H	H	H
(III)－490	O	3	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－491	O	3	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－492	O	3	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－493	O	3	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－494	O	3	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－495	O	3	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－496	O	3	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－497	O	3	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－498	O	3	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－499	O	3	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－500	O	3	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－501	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－502	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－503	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－504	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－505	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－506	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－507	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－508	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－509	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－510	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－511	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－512	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－513	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－514	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－515	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－516	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－517	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－518	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－519	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－520	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－521	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－522	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－523	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－524	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－525	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－526	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－527	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－528	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－529	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－530	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－531	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－532	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－533	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－534	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－535	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－536	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－537	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－538	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－539	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－540	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H

【表１０７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－541	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－542	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－543	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－544	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－545	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－546	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－547	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－548	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－549	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－550	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－551	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－552	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－553	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－554	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－555	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－556	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－557	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－558	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－559	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－560	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－561	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－562	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－563	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－564	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－565	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－566	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－567	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－568	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－569	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－570	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－571	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－572	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－573	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－574	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－575	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－576	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－577	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－578	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－579	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－580	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－581	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－582	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－583	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－584	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－585	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－586	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－587	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－588	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－589	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－590	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－591	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－592	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－593	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－594	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－595	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－596	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－597	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－598	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－599	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－600	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3

【表１０８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－601	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－602	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－603	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－604	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－605	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－606	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－607	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－608	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－609	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－610	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－611	S	3	H	H	H	H	H	H	H	H	H	H	H
(III)－612	S	3	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－613	S	3	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－614	S	3	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－615	S	3	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－616	S	3	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－617	S	3	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－618	S	3	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－619	S	3	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－620	S	3	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－621	S	3	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－622	S	3	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－623	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－624	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－625	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－626	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－627	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－628	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－629	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－630	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－631	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－632	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－633	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－634	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－635	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－636	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－637	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－638	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－639	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－640	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－641	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－642	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－643	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－644	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－645	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－646	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－647	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－648	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－649	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－650	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－651	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－652	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－653	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－654	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－655	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－656	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－657	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－658	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－659	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－660	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表１０９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－661	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－662	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－663	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－664	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－665	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－666	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－667	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－668	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－669	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－670	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－671	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－672	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－673	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－674	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－675	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－676	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－677	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－678	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－679	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－680	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－681	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－682	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－683	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－684	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－685	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－686	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－687	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－688	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－689	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－690	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－691	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－692	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－693	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－694	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－695	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－696	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－697	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－698	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－699	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－700	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－701	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－702	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－703	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－704	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－705	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－706	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－707	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－708	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－709	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－710	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－711	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－712	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－713	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－714	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－715	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－716	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－717	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－718	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－719	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－720	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H

【表１１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－721	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－722	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－723	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－724	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－725	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－726	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－727	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－728	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－729	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－730	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－731	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－732	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－733	O	4	H	H	H	H	H	H	H	H	H	H	H
(III)－734	O	4	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－735	O	4	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－736	O	4	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－737	O	4	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－738	O	4	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－739	O	4	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－740	O	4	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－741	O	4	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－742	O	4	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－743	O	4	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－744	O	4	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－745	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－746	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－747	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－748	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－749	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－750	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－751	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－752	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－753	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－754	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－755	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－756	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－757	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－758	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－759	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－760	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－761	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－762	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－763	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－764	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－765	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－766	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－767	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－768	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－769	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－770	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－771	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－772	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－773	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－774	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－775	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－776	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－777	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－778	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(III)－779	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－780	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H

【表１１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－781	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－782	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－783	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－784	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－785	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－786	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－787	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－788	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－789	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－790	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－791	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－792	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－793	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－794	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－795	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－796	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－797	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－798	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－799	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－800	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－801	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－802	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－803	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－804	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－805	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－806	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－807	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－808	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－809	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－810	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－811	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－812	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－813	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－814	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－815	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－816	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－817	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－818	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－819	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－820	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－821	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－822	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－823	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－824	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－825	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－826	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－827	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－828	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－829	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－830	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－831	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－832	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－833	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－834	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－835	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－836	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－837	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－838	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(III)－839	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－840	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H

【表１１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－841	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－842	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－843	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－844	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－845	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－846	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－847	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－848	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－849	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－850	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－851	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－852	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－853	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－854	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－855	S	4	H	H	H	H	H	H	H	H	H	H	H
(III)－856	S	4	CH_3	H	H	H	H	H	H	H	H	H	H
(III)－857	S	4	H	CH_3	H	H	H	H	H	H	H	H	H
(III)－858	S	4	H	H	CH_3	H	H	H	H	H	H	H	H
(III)－859	S	4	H	H	H	CH_3	H	H	H	H	H	H	H
(III)－860	S	4	H	H	H	H	CH_3	H	H	H	H	H	H
(III)－861	S	4	H	H	H	H	H	CH_3	H	H	H	H	H
(III)－862	S	4	H	H	H	H	H	H	CH_3	H	H	H	H
(III)－863	S	4	H	H	H	H	H	H	H	CH_3	H	H	H
(III)－864	S	4	H	H	H	H	H	H	H	H	CH_3	H	H
(III)－865	S	4	H	H	H	H	H	H	H	H	H	CH_3	H
(III)－866	S	4	H	H	H	H	H	H	H	H	H	H	CH_3
(III)－867	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H
(III)－868	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H
(III)－869	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H
(III)－870	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H
(III)－871	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H
(III)－872	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H
(III)－873	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H
(III)－874	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H
(III)－875	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H
(III)－876	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H
(III)－877	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5
(III)－878	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H
(III)－879	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H
(III)－880	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H
(III)－881	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H
(III)－882	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H
(III)－883	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H
(III)－884	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H
(III)－885	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H
(III)－886	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H
(III)－887	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H
(III)－888	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7
(III)－889	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H
(III)－890	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H
(III)－891	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H
(III)－892	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H
(III)－893	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H
(III)－894	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H
(III)－895	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H
(III)－896	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H
(III)－897	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H
(III)－898	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H
(III)－899	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9
(III)－900	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H

【表１１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－901	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(III)－902	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(III)－903	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(III)－904	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(III)－905	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(III)－906	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(III)－907	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(III)－908	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(III)－909	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(III)－910	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(III)－911	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(III)－912	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(III)－913	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(III)－914	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(III)－915	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(III)－916	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(III)－917	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(III)－918	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(III)－919	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(III)－920	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(III)－921	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(III)－922	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(III)－923	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(III)－924	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(III)－925	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(III)－926	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(III)－927	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(III)－928	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(III)－929	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(III)－930	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(III)－931	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(III)－932	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(III)－933	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(III)－934	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(III)－935	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(III)－936	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(III)－937	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(III)－938	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(III)－939	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(III)－940	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(III)－941	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(III)－942	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(III)－943	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(III)－944	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(III)－945	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(III)－946	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(III)－947	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(III)－948	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(III)－949	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(III)－950	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(III)－951	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(III)－952	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(III)－953	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(III)－954	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(III)－955	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(III)－956	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(III)－957	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(III)－958	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(III)－959	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(III)－960	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H

【表１１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－961	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(III)－962	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(III)－963	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(III)－964	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(III)－965	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(III)－966	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(III)－967	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(III)－968	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(III)－969	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(III)－970	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(III)－971	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(III)－972	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(III)－973	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(III)－974	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(III)－975	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(III)－976	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(III)－977	O	1	F	H	H	H	H	H	H	H	H	H	H
(III)－978	O	1	H	F	H	H	H	H	H	H	H	H	H
(III)－979	O	1	H	H	F	H	H	H	H	H	H	H	H
(III)－980	O	1	H	H	H	F	H	H	H	H	H	H	H
(III)－981	O	1	H	H	H	H	F	H	H	H	H	H	H
(III)－982	O	1	H	H	H	H	H	F	H	H	H	H	H
(III)－983	O	1	H	H	H	H	H	H	F	H	H	H	H
(III)－984	O	1	H	H	H	H	H	H	H	F	H	H	H
(III)－985	O	1	H	H	H	H	H	H	H	H	F	H	H
(III)－986	O	1	H	H	H	H	H	H	H	H	H	F	H
(III)－987	O	1	H	H	H	H	H	H	H	H	H	H	F
(III)－988	O	1	F	F	H	H	H	H	H	H	H	H	H
(III)－989	O	1	F	H	F	H	H	H	H	H	H	H	H
(III)－990	O	1	F	H	H	F	H	H	H	H	H	H	H
(III)－991	O	1	F	H	H	H	F	H	H	H	H	H	H
(III)－992	O	1	F	H	H	H	H	F	H	H	H	H	H
(III)－993	O	1	F	H	H	H	H	H	F	H	H	H	H
(III)－994	O	1	F	H	H	H	H	H	H	F	H	H	H
(III)－995	O	1	F	H	H	H	H	H	H	H	F	H	H
(III)－996	O	1	F	H	H	H	H	H	H	H	H	F	H
(III)－997	O	1	F	H	H	H	H	H	H	H	H	H	F
(III)－998	O	1	H	F	F	H	H	H	H	H	H	H	H
(III)－999	O	1	H	F	H	F	H	H	H	H	H	H	H
(III)－1000	O	1	H	F	H	H	F	H	H	H	H	H	H
(III)－1001	O	1	H	F	H	H	H	F	H	H	H	H	H
(III)－1002	O	1	H	F	H	H	H	H	F	H	H	H	H
(III)－1003	O	1	H	F	H	H	H	H	H	F	H	H	H
(III)－1004	O	1	H	F	H	H	H	H	H	H	F	H	H
(III)－1005	O	1	H	F	H	H	H	H	H	H	H	F	H
(III)－1006	O	1	H	F	H	H	H	H	H	H	H	H	F
(III)－1007	O	1	H	H	F	F	H	H	H	H	H	H	H
(III)－1008	O	1	H	H	F	H	F	H	H	H	H	H	H
(III)－1009	O	1	H	H	F	H	H	F	H	H	H	H	H
(III)－1010	O	1	H	H	F	H	H	H	F	H	H	H	H
(III)－1011	O	1	H	H	F	H	H	H	H	F	H	H	H
(III)－1012	O	1	H	H	F	H	H	H	H	H	F	H	H
(III)－1013	O	1	H	H	F	H	H	H	H	H	H	F	H
(III)－1014	O	1	H	H	F	H	H	H	H	H	H	H	F
(III)－1015	O	1	H	H	H	F	F	H	H	H	H	H	H
(III)－1016	O	1	H	H	H	F	H	F	H	H	H	H	H
(III)－1017	O	1	H	H	H	F	H	H	F	H	H	H	H
(III)－1018	O	1	H	H	H	F	H	H	H	F	H	H	H
(III)－1019	O	1	H	H	H	F	H	H	H	H	F	H	H
(III)－1020	O	1	H	H	H	F	H	H	H	H	H	F	H

【表１１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1021	O	1	H	H	H	F	H	H	H	H	H	H	F
(III)－1022	O	1	H	H	H	H	F	F	H	H	H	H	H
(III)－1023	O	1	H	H	H	H	F	H	F	H	H	H	H
(III)－1024	O	1	H	H	H	H	F	H	H	F	H	H	H
(III)－1025	O	1	H	H	H	H	F	H	H	H	F	H	H
(III)－1026	O	1	H	H	H	H	F	H	H	H	H	F	H
(III)－1027	O	1	H	H	H	H	F	H	H	H	H	H	F
(III)－1028	O	1	H	H	H	H	H	F	F	H	H	H	H
(III)－1029	O	1	H	H	H	H	H	F	H	F	H	H	H
(III)－1030	O	1	H	H	H	H	H	F	H	H	F	H	H
(III)－1031	O	1	H	H	H	H	H	F	H	H	H	F	H
(III)－1032	O	1	H	H	H	H	H	F	H	H	H	H	F
(III)－1033	O	1	H	H	H	H	H	H	F	F	H	H	H
(III)－1034	O	1	H	H	H	H	H	H	F	H	F	H	H
(III)－1035	O	1	H	H	H	H	H	H	F	H	H	F	H
(III)－1036	O	1	H	H	H	H	H	H	F	H	H	H	F
(III)－1037	O	1	H	H	H	H	H	H	H	F	F	H	H
(III)－1038	O	1	H	H	H	H	H	H	H	F	H	F	H
(III)－1039	O	1	H	H	H	H	H	H	H	F	H	H	F
(III)－1040	O	1	H	H	H	H	H	H	H	H	F	F	H
(III)－1041	O	1	H	H	H	H	H	H	H	H	F	H	F
(III)－1042	O	1	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－1043	O	1	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－1044	O	1	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－1045	O	1	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－1046	O	1	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－1047	O	1	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－1048	O	1	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－1049	O	1	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－1050	O	1	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－1051	O	1	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－1052	O	1	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－1053	O	1	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－1054	O	1	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－1055	O	1	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－1056	O	1	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－1057	O	1	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－1058	O	1	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－1059	O	1	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－1060	O	1	H	CH_3	H	H	H	H	H	H	H	F	H
(III)－1061	O	1	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－1062	O	1	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－1063	O	1	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－1064	O	1	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－1065	O	1	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－1066	O	1	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－1067	O	1	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1068	O	1	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1069	O	1	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－1070	O	1	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－1071	O	1	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－1072	O	1	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－1073	O	1	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－1074	O	1	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－1075	O	1	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－1076	O	1	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－1077	O	1	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－1078	O	1	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－1079	O	1	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－1080	O	1	H	H	H	H	CH_3	H	H	F	H	H	H

【表１１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1081	O	1	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－1082	O	1	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－1083	O	1	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－1084	O	1	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－1085	O	1	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－1086	O	1	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－1087	O	1	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－1088	O	1	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－1089	O	1	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－1090	O	1	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－1091	O	1	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－1092	O	1	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－1093	O	1	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－1094	O	1	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－1095	O	1	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－1096	O	1	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－1097	O	1	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－1098	O	1	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－1099	O	1	H	Ph	H	H	H	H	H	H	H	H	H
(III)－1100	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－1101	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－1102	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－1103	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－1104	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－1105	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－1106	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－1107	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－1108	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－1109	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－1110	O	1	H	Tol	H	H	H	H	H	H	H	H	H
(III)－1111	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－1112	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－1113	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－1114	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－1115	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－1116	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－1117	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－1118	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－1119	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－1120	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3
(III)－1121	O	1	H	Phen	H	H	H	H	H	H	H	H	H
(III)－1122	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－1123	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－1124	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－1125	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－1126	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－1127	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－1128	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－1129	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－1130	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－1131	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－1132	O	1	F	Ph	H	H	H	H	H	H	H	H	H
(III)－1133	O	1	H	Ph	F	H	H	H	H	H	H	H	H
(III)－1134	O	1	H	Ph	H	F	H	H	H	H	H	H	H
(III)－1135	O	1	H	Ph	H	H	F	H	H	H	H	H	H
(III)－1136	O	1	H	Ph	H	H	H	F	H	H	H	H	H
(III)－1137	O	1	H	Ph	H	H	H	H	F	H	H	H	H
(III)－1138	O	1	H	Ph	H	H	H	H	H	F	H	H	H
(III)－1139	O	1	H	Ph	H	H	H	H	H	H	F	H	H
(III)－1140	O	1	H	Ph	H	H	H	H	H	H	H	F	H

【表１１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1141	O	1	H	Ph	H	H	H	H	H	H	H	H	F
(III)－1142	O	1	F	Ph	F	H	H	H	H	H	H	H	H
(III)－1143	O	1	F	Ph	H	F	H	H	H	H	H	H	H
(III)－1144	O	1	F	Ph	H	H	F	H	H	H	H	H	H
(III)－1145	O	1	F	Ph	H	H	H	F	H	H	H	H	H
(III)－1146	O	1	F	Ph	H	H	H	H	F	H	H	H	H
(III)－1147	O	1	F	Ph	H	H	H	H	H	F	H	H	H
(III)－1148	O	1	F	Ph	H	H	H	H	H	H	F	H	H
(III)－1149	O	1	F	Ph	H	H	H	H	H	H	H	F	H
(III)－1150	O	1	F	Ph	H	H	H	H	H	H	H	H	F
(III)－1151	O	1	H	Ph	F	F	H	H	H	H	H	H	H
(III)－1152	O	1	H	Ph	F	H	F	H	H	H	H	H	H
(III)－1153	O	1	H	Ph	F	H	H	F	H	H	H	H	H
(III)－1154	O	1	H	Ph	F	H	H	H	F	H	H	H	H
(III)－1155	O	1	H	Ph	F	H	H	H	H	F	H	H	H
(III)－1156	O	1	H	Ph	F	H	H	H	H	H	F	H	H
(III)－1157	O	1	H	Ph	F	H	H	H	H	H	H	F	H
(III)－1158	O	1	H	Ph	F	H	H	H	H	H	H	H	F
(III)－1159	O	1	H	Ph	H	F	F	H	H	H	H	H	H
(III)－1160	O	1	H	Ph	H	F	H	F	H	H	H	H	H
(III)－1161	O	1	H	Ph	H	F	H	H	F	H	H	H	H
(III)－1162	O	1	H	Ph	H	F	H	H	H	F	H	H	H
(III)－1163	O	1	H	Ph	H	F	H	H	H	H	F	H	H
(III)－1164	O	1	H	Ph	H	F	H	H	H	H	H	F	H
(III)－1165	O	1	H	Ph	H	F	H	H	H	H	H	H	F
(III)－1166	O	1	H	Ph	H	H	F	F	H	H	H	H	H
(III)－1167	O	1	H	Ph	H	H	F	H	F	H	H	H	H
(III)－1168	O	1	H	Ph	H	H	F	H	H	F	H	H	H
(III)－1169	O	1	H	Ph	H	H	F	H	H	H	F	H	H
(III)－1170	O	1	H	Ph	H	H	F	H	H	H	H	F	H
(III)－1171	O	1	H	Ph	H	H	F	H	H	H	H	H	F
(III)－1172	O	1	H	Ph	H	H	H	F	F	H	H	H	H
(III)－1173	O	1	H	Ph	H	H	H	F	H	F	H	H	H
(III)－1174	O	1	H	Ph	H	H	H	F	H	H	F	H	H
(III)－1175	O	1	H	Ph	H	H	H	F	H	H	H	F	H
(III)－1176	O	1	H	Ph	H	H	H	F	H	H	H	H	F
(III)－1177	O	1	H	Ph	H	H	H	H	F	F	H	H	H
(III)－1178	O	1	H	Ph	H	H	H	H	F	H	F	H	H
(III)－1179	O	1	H	Ph	H	H	H	H	F	H	H	F	H
(III)－1180	O	1	H	Ph	H	H	H	H	F	H	H	H	F
(III)－1181	O	1	H	Ph	H	H	H	H	H	F	F	H	H
(III)－1182	O	1	H	Ph	H	H	H	H	H	F	H	F	H
(III)－1183	O	1	H	Ph	H	H	H	H	H	F	H	H	F
(III)－1184	O	1	H	Ph	H	H	H	H	H	H	F	F	H
(III)－1185	O	1	H	Ph	H	H	H	H	H	H	F	H	F
(III)－1186	O	1	H	Ph	H	H	H	H	H	H	H	F	F
(III)－1187	O	1	F	Tol	H	H	H	H	H	H	H	H	H
(III)－1188	O	1	H	Tol	F	H	H	H	H	H	H	H	H
(III)－1189	O	1	H	Tol	H	F	H	H	H	H	H	H	H
(III)－1190	O	1	H	Tol	H	H	F	H	H	H	H	H	H
(III)－1191	O	1	H	Tol	H	H	H	F	H	H	H	H	H
(III)－1192	O	1	H	Tol	H	H	H	H	F	H	H	H	H
(III)－1193	O	1	H	Tol	H	H	H	H	H	F	H	H	H
(III)－1194	O	1	H	Tol	H	H	H	H	H	H	F	H	H
(III)－1195	O	1	H	Tol	H	H	H	H	H	H	H	F	H
(III)－1196	O	1	H	Tol	H	H	H	H	H	H	H	H	F
(III)－1197	O	1	F	Tol	F	H	H	H	H	H	H	H	H
(III)－1198	O	1	F	Tol	H	F	H	H	H	H	H	H	H
(III)－1199	O	1	F	Tol	H	H	F	H	H	H	H	H	H
(III)－1200	O	1	F	Tol	H	H	H	F	H	H	H	H	H

【表１１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1201	O	1	F	Tol	H	H	H	H	F	H	H	H	H
(III)－1202	O	1	F	Tol	H	H	H	H	H	F	H	H	H
(III)－1203	O	1	F	Tol	H	H	H	H	H	H	F	H	H
(III)－1204	O	1	F	Tol	H	H	H	H	H	H	H	F	H
(III)－1205	O	1	F	Tol	H	H	H	H	H	H	H	H	F
(III)－1206	O	1	H	Tol	F	F	H	H	H	H	H	H	H
(III)－1207	O	1	H	Tol	F	H	F	H	H	H	H	H	H
(III)－1208	O	1	H	Tol	F	H	H	F	H	H	H	H	H
(III)－1209	O	1	H	Tol	F	H	H	H	F	H	H	H	H
(III)－1210	O	1	H	Tol	F	H	H	H	H	F	H	H	H
(III)－1211	O	1	H	Tol	F	H	H	H	H	H	F	H	H
(III)－1212	O	1	H	Tol	F	H	H	H	H	H	H	F	H
(III)－1213	O	1	H	Tol	F	H	H	H	H	H	H	H	F
(III)－1214	O	1	H	Tol	H	F	F	H	H	H	H	H	H
(III)－1215	O	1	H	Tol	H	F	H	F	H	H	H	H	H
(III)－1216	O	1	H	Tol	H	F	H	H	F	H	H	H	H
(III)－1217	O	1	H	Tol	H	F	H	H	H	F	H	H	H
(III)－1218	O	1	H	Tol	H	F	H	H	H	H	F	H	H
(III)－1219	O	1	H	Tol	H	F	H	H	H	H	H	F	H
(III)－1220	O	1	H	Tol	H	F	H	H	H	H	H	H	F
(III)－1221	O	1	H	Tol	H	H	F	F	H	H	H	H	H
(III)－1222	O	1	H	Tol	H	H	F	H	F	H	H	H	H
(III)－1223	O	1	H	Tol	H	H	F	H	H	F	H	H	H
(III)－1224	O	1	H	Tol	H	H	F	H	H	H	F	H	H
(III)－1225	O	1	H	Tol	H	H	F	H	H	H	H	F	H
(III)－1226	O	1	H	Tol	H	H	F	H	H	H	H	H	F
(III)－1227	O	1	H	Tol	H	H	H	F	F	H	H	H	H
(III)－1228	O	1	H	Tol	H	H	H	F	H	F	H	H	H
(III)－1229	O	1	H	Tol	H	H	H	F	H	H	F	H	H
(III)－1230	O	1	H	Tol	H	H	H	F	H	H	H	F	H
(III)－1231	O	1	H	Tol	H	H	H	F	H	H	H	H	F
(III)－1232	O	1	H	Tol	H	H	H	H	F	F	H	H	H
(III)－1233	O	1	H	Tol	H	H	H	H	F	H	F	H	H
(III)－1234	O	1	H	Tol	H	H	H	H	F	H	H	F	H
(III)－1235	O	1	H	Tol	H	H	H	H	F	H	H	H	F
(III)－1236	O	1	H	Tol	H	H	H	H	H	F	F	H	H
(III)－1237	O	1	H	Tol	H	H	H	H	H	F	H	F	H
(III)－1238	O	1	H	Tol	H	H	H	H	H	F	H	H	F
(III)－1239	O	1	H	Tol	H	H	H	H	H	H	F	F	H
(III)－1240	O	1	H	Tol	H	H	H	H	H	H	F	H	F
(III)－1241	O	1	H	Tol	H	H	H	H	H	H	H	F	F
(III)－1242	O	1	F	Phen	H	H	H	H	H	H	H	H	H
(III)－1243	O	1	H	Phen	F	H	H	H	H	H	H	H	H
(III)－1244	O	1	H	Phen	H	F	H	H	H	H	H	H	H
(III)－1245	O	1	H	Phen	H	H	F	H	H	H	H	H	H
(III)－1246	O	1	H	Phen	H	H	H	F	H	H	H	H	H
(III)－1247	O	1	H	Phen	H	H	H	H	F	H	H	H	H
(III)－1248	O	1	H	Phen	H	H	H	H	H	F	H	H	H
(III)－1249	O	1	H	Phen	H	H	H	H	H	H	F	H	H
(III)－1250	O	1	H	Phen	H	H	H	H	H	H	H	F	H
(III)－1251	O	1	H	Phen	H	H	H	H	H	H	H	H	F
(III)－1252	O	1	F	Phen	F	H	H	H	H	H	H	H	H
(III)－1253	O	1	F	Phen	H	F	H	H	H	H	H	H	H
(III)－1254	O	1	F	Phen	H	H	F	H	H	H	H	H	H
(III)－1255	O	1	F	Phen	H	H	H	F	H	H	H	H	H
(III)－1256	O	1	F	Phen	H	H	H	H	F	H	H	H	H
(III)－1257	O	1	F	Phen	H	H	H	H	H	F	H	H	H
(III)－1258	O	1	F	Phen	H	H	H	H	H	H	F	H	H
(III)－1259	O	1	F	Phen	H	H	H	H	H	H	H	F	H
(III)－1260	O	1	F	Phen	H	H	H	H	H	H	H	H	F

【表１１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1261	O	1	H	Phen	F	F	H	H	H	H	H	H	H
(III)－1262	O	1	H	Phen	F	H	F	H	H	H	H	H	H
(III)－1263	O	1	H	Phen	F	H	H	F	H	H	H	H	H
(III)－1264	O	1	H	Phen	F	H	H	H	F	H	H	H	H
(III)－1265	O	1	H	Phen	F	H	H	H	H	F	H	H	H
(III)－1266	O	1	H	Phen	F	H	H	H	H	H	F	H	H
(III)－1267	O	1	H	Phen	F	H	H	H	H	H	H	F	H
(III)－1268	O	1	H	Phen	F	H	H	H	H	H	H	H	F
(III)－1269	O	1	H	Phen	H	F	F	H	H	H	H	H	H
(III)－1270	O	1	H	Phen	H	F	H	F	H	H	H	H	H
(III)－1271	O	1	H	Phen	H	F	H	H	F	H	H	H	H
(III)－1272	O	1	H	Phen	H	F	H	H	H	F	H	H	H
(III)－1273	O	1	H	Phen	H	F	H	H	H	H	F	H	H
(III)－1274	O	1	H	Phen	H	F	H	H	H	H	H	F	H
(III)－1275	O	1	H	Phen	H	F	H	H	H	H	H	H	F
(III)－1276	O	1	H	Phen	H	H	F	F	H	H	H	H	H
(III)－1277	O	1	H	Phen	H	H	F	H	F	H	H	H	H
(III)－1278	O	1	H	Phen	H	H	F	H	H	F	H	H	H
(III)－1279	O	1	H	Phen	H	H	F	H	H	H	F	H	H
(III)－1280	O	1	H	Phen	H	H	F	H	H	H	H	F	H
(III)－1281	O	1	H	Phen	H	H	F	H	H	H	H	H	F
(III)－1282	O	1	H	Phen	H	H	H	F	F	H	H	H	H
(III)－1283	O	1	H	Phen	H	H	H	F	H	F	H	H	H
(III)－1284	O	1	H	Phen	H	H	H	F	H	H	F	H	H
(III)－1285	O	1	H	Phen	H	H	H	F	H	H	H	F	H
(III)－1286	O	1	H	Phen	H	H	H	F	H	H	H	H	F
(III)－1287	O	1	H	Phen	H	H	H	H	F	F	H	H	H
(III)－1288	O	1	H	Phen	H	H	H	H	F	H	F	H	H
(III)－1289	O	1	H	Phen	H	H	H	H	F	H	H	F	H
(III)－1290	O	1	H	Phen	H	H	H	H	F	H	H	H	F
(III)－1291	O	1	H	Phen	H	H	H	H	H	F	F	H	H
(III)－1292	O	1	H	Phen	H	H	H	H	H	F	H	F	H
(III)－1293	O	1	H	Phen	H	H	H	H	H	F	H	H	F
(III)－1294	O	1	H	Phen	H	H	H	H	H	H	F	F	H
(III)－1295	O	1	H	Phen	H	H	H	H	H	H	F	H	F
(III)－1296	O	1	H	Phen	H	H	H	H	H	H	H	F	F
(III)－1297	S	1	F	H	H	H	H	H	H	H	H	H	H
(III)－1298	S	1	H	F	H	H	H	H	H	H	H	H	H
(III)－1299	S	1	H	H	F	H	H	H	H	H	H	H	H
(III)－1300	S	1	H	H	H	F	H	H	H	H	H	H	H
(III)－1301	S	1	H	H	H	H	F	H	H	H	H	H	H
(III)－1302	S	1	H	H	H	H	H	F	H	H	H	H	H
(III)－1303	S	1	H	H	H	H	H	H	F	H	H	H	H
(III)－1304	S	1	H	H	H	H	H	H	H	F	H	H	H
(III)－1305	S	1	H	H	H	H	H	H	H	H	F	H	H
(III)－1306	S	1	H	H	H	H	H	H	H	H	H	F	H
(III)－1307	S	1	H	H	H	H	H	H	H	H	H	H	F
(III)－1308	S	1	F	F	H	H	H	H	H	H	H	H	H
(III)－1309	S	1	F	H	F	H	H	H	H	H	H	H	H
(III)－1310	S	1	F	H	H	F	H	H	H	H	H	H	H
(III)－1311	S	1	F	H	H	H	F	H	H	H	H	H	H
(III)－1312	S	1	F	H	H	H	H	F	H	H	H	H	H
(III)－1313	S	1	F	H	H	H	H	H	F	H	H	H	H
(III)－1314	S	1	F	H	H	H	H	H	H	F	H	H	H
(III)－1315	S	1	F	H	H	H	H	H	H	H	F	H	H
(III)－1316	S	1	F	H	H	H	H	H	H	H	H	F	H
(III)－1317	S	1	F	H	H	H	H	H	H	H	H	H	F
(III)－1318	S	1	H	F	F	H	H	H	H	H	H	H	H
(III)－1319	S	1	H	F	H	F	H	H	H	H	H	H	H
(III)－1320	S	1	H	F	H	H	F	H	H	H	H	H	H

【表１２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1321	S	1	H	F	H	H	H	F	H	H	H	H	H
(III)－1322	S	1	H	F	H	H	H	H	F	H	H	H	H
(III)－1323	S	1	H	F	H	H	H	H	H	F	H	H	H
(III)－1324	S	1	H	F	H	H	H	H	H	H	F	H	H
(III)－1325	S	1	H	F	H	H	H	H	H	H	H	F	H
(III)－1326	S	1	H	F	H	H	H	H	H	H	H	H	F
(III)－1327	S	1	H	H	F	F	H	H	H	H	H	H	H
(III)－1328	S	1	H	H	F	H	F	H	H	H	H	H	H
(III)－1329	S	1	H	H	F	H	H	F	H	H	H	H	H
(III)－1330	S	1	H	H	F	H	H	H	F	H	H	H	H
(III)－1331	S	1	H	H	F	H	H	H	H	F	H	H	H
(III)－1332	S	1	H	H	F	H	H	H	H	H	F	H	H
(III)－1333	S	1	H	H	F	H	H	H	H	H	H	F	H
(III)－1334	S	1	H	H	F	H	H	H	H	H	H	H	F
(III)－1335	S	1	H	H	H	F	F	H	H	H	H	H	H
(III)－1336	S	1	H	H	H	F	H	F	H	H	H	H	H
(III)－1337	S	1	H	H	H	F	H	H	F	H	H	H	H
(III)－1338	S	1	H	H	H	F	H	H	H	F	H	H	H
(III)－1339	S	1	H	H	H	F	H	H	H	H	F	H	H
(III)－1340	S	1	H	H	H	F	H	H	H	H	H	F	H
(III)－1341	S	1	H	H	H	F	H	H	H	H	H	H	F
(III)－1342	S	1	H	H	H	H	F	F	H	H	H	H	H
(III)－1343	S	1	H	H	H	H	F	H	F	H	H	H	H
(III)－1344	S	1	H	H	H	H	F	H	H	F	H	H	H
(III)－1345	S	1	H	H	H	H	F	H	H	H	F	H	H
(III)－1346	S	1	H	H	H	H	F	H	H	H	H	F	H
(III)－1347	S	1	H	H	H	H	F	H	H	H	H	H	F
(III)－1348	S	1	H	H	H	H	H	F	F	H	H	H	H
(III)－1349	S	1	H	H	H	H	H	F	H	F	H	H	H
(III)－1350	S	1	H	H	H	H	H	F	H	H	F	H	H
(III)－1351	S	1	H	H	H	H	H	F	H	H	H	F	H
(III)－1352	S	1	H	H	H	H	H	F	H	H	H	H	F
(III)－1353	S	1	H	H	H	H	H	H	F	F	H	H	H
(III)－1354	S	1	H	H	H	H	H	H	F	H	F	H	H
(III)－1355	S	1	H	H	H	H	H	H	F	H	H	F	H
(III)－1356	S	1	H	H	H	H	H	H	F	H	H	H	F
(III)－1357	S	1	H	H	H	H	H	H	H	F	F	H	H
(III)－1358	S	1	H	H	H	H	H	H	H	F	H	F	H
(III)－1359	S	1	H	H	H	H	H	H	H	F	H	H	F
(III)－1360	S	1	H	H	H	H	H	H	H	H	F	F	H
(III)－1361	S	1	H	H	H	H	H	H	H	H	F	H	F
(III)－1362	S	1	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－1363	S	1	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－1364	S	1	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－1365	S	1	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－1366	S	1	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－1367	S	1	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－1368	S	1	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－1369	S	1	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－1370	S	1	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－1371	S	1	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－1372	S	1	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－1373	S	1	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－1374	S	1	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－1375	S	1	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－1376	S	1	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－1377	S	1	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－1378	S	1	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－1379	S	1	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－1380	S	1	H	CH_3	H	H	H	H	H	H	H	F	H

【表１２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1381	S	1	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－1382	S	1	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－1383	S	1	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－1384	S	1	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－1385	S	1	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－1386	S	1	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－1387	S	1	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1388	S	1	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1389	S	1	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－1390	S	1	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－1391	S	1	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－1392	S	1	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－1393	S	1	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－1394	S	1	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－1395	S	1	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－1396	S	1	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－1397	S	1	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－1398	S	1	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－1399	S	1	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－1400	S	1	H	H	H	H	CH_3	H	H	F	H	H	H
(III)－1401	S	1	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－1402	S	1	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－1403	S	1	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－1404	S	1	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－1405	S	1	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－1406	S	1	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－1407	S	1	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－1408	S	1	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－1409	S	1	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－1410	S	1	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－1411	S	1	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－1412	S	1	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－1413	S	1	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－1414	S	1	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－1415	S	1	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－1416	S	1	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－1417	S	1	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－1418	S	1	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－1419	S	1	H	Ph	H	H	H	H	H	H	H	H	H
(III)－1420	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－1421	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－1422	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－1423	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－1424	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－1425	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－1426	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－1427	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－1428	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－1429	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－1430	S	1	H	Tol	H	H	H	H	H	H	H	H	H
(III)－1431	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－1432	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－1433	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－1434	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－1435	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－1436	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－1437	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－1438	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－1439	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－1440	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表１２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1441	S	1	H	Phen	H	H	H	H	H	H	H	H	H
(III)－1442	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－1443	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－1444	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－1445	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－1446	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－1447	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－1448	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－1449	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－1450	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－1451	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－1452	S	1	F	Ph	H	H	H	H	H	H	H	H	H
(III)－1453	S	1	H	Ph	F	H	H	H	H	H	H	H	H
(III)－1454	S	1	H	Ph	H	F	H	H	H	H	H	H	H
(III)－1455	S	1	H	Ph	H	H	F	H	H	H	H	H	H
(III)－1456	S	1	H	Ph	H	H	H	F	H	H	H	H	H
(III)－1457	S	1	H	Ph	H	H	H	H	F	H	H	H	H
(III)－1458	S	1	H	Ph	H	H	H	H	H	F	H	H	H
(III)－1459	S	1	H	Ph	H	H	H	H	H	H	F	H	H
(III)－1460	S	1	H	Ph	H	H	H	H	H	H	H	F	H
(III)－1461	S	1	H	Ph	H	H	H	H	H	H	H	H	F
(III)－1462	S	1	F	Ph	F	H	H	H	H	H	H	H	H
(III)－1463	S	1	F	Ph	H	F	H	H	H	H	H	H	H
(III)－1464	S	1	F	Ph	H	H	F	H	H	H	H	H	H
(III)－1465	S	1	F	Ph	H	H	H	F	H	H	H	H	H
(III)－1466	S	1	F	Ph	H	H	H	H	F	H	H	H	H
(III)－1467	S	1	F	Ph	H	H	H	H	H	F	H	H	H
(III)－1468	S	1	F	Ph	H	H	H	H	H	H	F	H	H
(III)－1469	S	1	F	Ph	H	H	H	H	H	H	H	F	H
(III)－1470	S	1	F	Ph	H	H	H	H	H	H	H	H	F
(III)－1471	S	1	H	Ph	F	F	H	H	H	H	H	H	H
(III)－1472	S	1	H	Ph	F	H	F	H	H	H	H	H	H
(III)－1473	S	1	H	Ph	F	H	H	F	H	H	H	H	H
(III)－1474	S	1	H	Ph	F	H	H	H	F	H	H	H	H
(III)－1475	S	1	H	Ph	F	H	H	H	H	F	H	H	H
(III)－1476	S	1	H	Ph	F	H	H	H	H	H	F	H	H
(III)－1477	S	1	H	Ph	F	H	H	H	H	H	H	F	H
(III)－1478	S	1	H	Ph	F	H	H	H	H	H	H	H	F
(III)－1479	S	1	H	Ph	H	F	F	H	H	H	H	H	H
(III)－1480	S	1	H	Ph	H	F	H	F	H	H	H	H	H
(III)－1481	S	1	H	Ph	H	F	H	H	F	H	H	H	H
(III)－1482	S	1	H	Ph	H	F	H	H	H	F	H	H	H
(III)－1483	S	1	H	Ph	H	F	H	H	H	H	F	H	H
(III)－1484	S	1	H	Ph	H	F	H	H	H	H	H	F	H
(III)－1485	S	1	H	Ph	H	F	H	H	H	H	H	H	F
(III)－1486	S	1	H	Ph	H	H	F	F	H	H	H	H	H
(III)－1487	S	1	H	Ph	H	H	F	H	F	H	H	H	H
(III)－1488	S	1	H	Ph	H	H	F	H	H	F	H	H	H
(III)－1489	S	1	H	Ph	H	H	F	H	H	H	F	H	H
(III)－1490	S	1	H	Ph	H	H	F	H	H	H	H	F	H
(III)－1491	S	1	H	Ph	H	H	F	H	H	H	H	H	F
(III)－1492	S	1	H	Ph	H	H	H	F	F	H	H	H	H
(III)－1493	S	1	H	Ph	H	H	H	F	H	F	H	H	H
(III)－1494	S	1	H	Ph	H	H	H	F	H	H	F	H	H
(III)－1495	S	1	H	Ph	H	H	H	F	H	H	H	F	H
(III)－1496	S	1	H	Ph	H	H	H	F	H	H	H	H	F
(III)－1497	S	1	H	Ph	H	H	H	H	F	F	H	H	H
(III)－1498	S	1	H	Ph	H	H	H	H	F	H	F	H	H
(III)－1499	S	1	H	Ph	H	H	H	H	F	H	H	F	H
(III)－1500	S	1	H	Ph	H	H	H	H	F	H	H	H	F

【表１２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1501	S	1	H	Ph	H	H	H	H	H	F	F	H	H
(III)－1502	S	1	H	Ph	H	H	H	H	H	F	H	F	H
(III)－1503	S	1	H	Ph	H	H	H	H	H	F	H	H	F
(III)－1504	S	1	H	Ph	H	H	H	H	H	H	F	F	H
(III)－1505	S	1	H	Ph	H	H	H	H	H	H	F	H	F
(III)－1506	S	1	H	Ph	H	H	H	H	H	H	H	F	F
(III)－1507	S	1	F	Tol	H	H	H	H	H	H	H	H	H
(III)－1508	S	1	H	Tol	F	H	H	H	H	H	H	H	H
(III)－1509	S	1	H	Tol	H	F	H	H	H	H	H	H	H
(III)－1510	S	1	H	Tol	H	H	F	H	H	H	H	H	H
(III)－1511	S	1	H	Tol	H	H	H	F	H	H	H	H	H
(III)－1512	S	1	H	Tol	H	H	H	H	F	H	H	H	H
(III)－1513	S	1	H	Tol	H	H	H	H	H	F	H	H	H
(III)－1514	S	1	H	Tol	H	H	H	H	H	H	F	H	H
(III)－1515	S	1	H	Tol	H	H	H	H	H	H	H	F	H
(III)－1516	S	1	H	Tol	H	H	H	H	H	H	H	H	F
(III)－1517	S	1	F	Tol	F	H	H	H	H	H	H	H	H
(III)－1518	S	1	F	Tol	H	F	H	H	H	H	H	H	H
(III)－1519	S	1	F	Tol	H	H	F	H	H	H	H	H	H
(III)－1520	S	1	F	Tol	H	H	H	F	H	H	H	H	H
(III)－1521	S	1	F	Tol	H	H	H	H	F	H	H	H	H
(III)－1522	S	1	F	Tol	H	H	H	H	H	F	H	H	H
(III)－1523	S	1	F	Tol	H	H	H	H	H	H	F	H	H
(III)－1524	S	1	F	Tol	H	H	H	H	H	H	H	F	H
(III)－1525	S	1	F	Tol	H	H	H	H	H	H	H	H	F
(III)－1526	S	1	H	Tol	F	F	H	H	H	H	H	H	H
(III)－1527	S	1	H	Tol	F	H	F	H	H	H	H	H	H
(III)－1528	S	1	H	Tol	F	H	H	F	H	H	H	H	H
(III)－1529	S	1	H	Tol	F	H	H	H	F	H	H	H	H
(III)－1530	S	1	H	Tol	F	H	H	H	H	F	H	H	H
(III)－1531	S	1	H	Tol	F	H	H	H	H	H	F	H	H
(III)－1532	S	1	H	Tol	F	H	H	H	H	H	H	F	H
(III)－1533	S	1	H	Tol	F	H	H	H	H	H	H	H	F
(III)－1534	S	1	H	Tol	H	F	F	H	H	H	H	H	H
(III)－1535	S	1	H	Tol	H	F	H	F	H	H	H	H	H
(III)－1536	S	1	H	Tol	H	F	H	H	F	H	H	H	H
(III)－1537	S	1	H	Tol	H	F	H	H	H	F	H	H	H
(III)－1538	S	1	H	Tol	H	F	H	H	H	H	F	H	H
(III)－1539	S	1	H	Tol	H	F	H	H	H	H	H	F	H
(III)－1540	S	1	H	Tol	H	F	H	H	H	H	H	H	F
(III)－1541	S	1	H	Tol	H	H	F	F	H	H	H	H	H
(III)－1542	S	1	H	Tol	H	H	F	H	F	H	H	H	H
(III)－1543	S	1	H	Tol	H	H	F	H	H	F	H	H	H
(III)－1544	S	1	H	Tol	H	H	F	H	H	H	F	H	H
(III)－1545	S	1	H	Tol	H	H	F	H	H	H	H	F	H
(III)－1546	S	1	H	Tol	H	H	F	H	H	H	H	H	F
(III)－1547	S	1	H	Tol	H	H	H	F	F	H	H	H	H
(III)－1548	S	1	H	Tol	H	H	H	F	H	F	H	H	H
(III)－1549	S	1	H	Tol	H	H	H	F	H	H	F	H	H
(III)－1550	S	1	H	Tol	H	H	H	F	H	H	H	F	H
(III)－1551	S	1	H	Tol	H	H	H	F	H	H	H	H	F
(III)－1552	S	1	H	Tol	H	H	H	H	F	F	H	H	H
(III)－1553	S	1	H	Tol	H	H	H	H	F	H	F	H	H
(III)－1554	S	1	H	Tol	H	H	H	H	F	H	H	F	H
(III)－1555	S	1	H	Tol	H	H	H	H	F	H	H	H	F
(III)－1556	S	1	H	Tol	H	H	H	H	H	F	F	H	H
(III)－1557	S	1	H	Tol	H	H	H	H	H	F	H	F	H
(III)－1558	S	1	H	Tol	H	H	H	H	H	F	H	H	F
(III)－1559	S	1	H	Tol	H	H	H	H	H	H	F	F	H
(III)－1560	S	1	H	Tol	H	H	H	H	H	H	F	H	F

【表１２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1561	S	1	H	Tol	H	H	H	H	H	H	H	F	F
(III)－1562	S	1	F	Phen	H	H	H	H	H	H	H	H	H
(III)－1563	S	1	H	Phen	F	H	H	H	H	H	H	H	H
(III)－1564	S	1	H	Phen	H	F	H	H	H	H	H	H	H
(III)－1565	S	1	H	Phen	H	H	F	H	H	H	H	H	H
(III)－1566	S	1	H	Phen	H	H	H	F	H	H	H	H	H
(III)－1567	S	1	H	Phen	H	H	H	H	F	H	H	H	H
(III)－1568	S	1	H	Phen	H	H	H	H	H	F	H	H	H
(III)－1569	S	1	H	Phen	H	H	H	H	H	H	F	H	H
(III)－1570	S	1	H	Phen	H	H	H	H	H	H	H	F	H
(III)－1571	S	1	H	Phen	H	H	H	H	H	H	H	H	F
(III)－1572	S	1	F	Phen	F	H	H	H	H	H	H	H	H
(III)－1573	S	1	F	Phen	H	F	H	H	H	H	H	H	H
(III)－1574	S	1	F	Phen	H	H	F	H	H	H	H	H	H
(III)－1575	S	1	F	Phen	H	H	H	F	H	H	H	H	H
(III)－1576	S	1	F	Phen	H	H	H	H	F	H	H	H	H
(III)－1577	S	1	F	Phen	H	H	H	H	H	F	H	H	H
(III)－1578	S	1	F	Phen	H	H	H	H	H	H	F	H	H
(III)－1579	S	1	F	Phen	H	H	H	H	H	H	H	F	H
(III)－1580	S	1	F	Phen	H	H	H	H	H	H	H	H	F
(III)－1581	S	1	H	Phen	F	F	H	H	H	H	H	H	H
(III)－1582	S	1	H	Phen	F	H	F	H	H	H	H	H	H
(III)－1583	S	1	H	Phen	F	H	H	F	H	H	H	H	H
(III)－1584	S	1	H	Phen	F	H	H	H	F	H	H	H	H
(III)－1585	S	1	H	Phen	F	H	H	H	H	F	H	H	H
(III)－1586	S	1	H	Phen	F	H	H	H	H	H	F	H	H
(III)－1587	S	1	H	Phen	F	H	H	H	H	H	H	F	H
(III)－1588	S	1	H	Phen	F	H	H	H	H	H	H	H	F
(III)－1589	S	1	H	Phen	H	F	F	H	H	H	H	H	H
(III)－1590	S	1	H	Phen	H	F	H	F	H	H	H	H	H
(III)－1591	S	1	H	Phen	H	F	H	H	F	H	H	H	H
(III)－1592	S	1	H	Phen	H	F	H	H	H	F	H	H	H
(III)－1593	S	1	H	Phen	H	F	H	H	H	H	F	H	H
(III)－1594	S	1	H	Phen	H	F	H	H	H	H	H	F	H
(III)－1595	S	1	H	Phen	H	F	H	H	H	H	H	H	F
(III)－1596	S	1	H	Phen	H	H	F	F	H	H	H	H	H
(III)－1597	S	1	H	Phen	H	H	F	H	F	H	H	H	H
(III)－1598	S	1	H	Phen	H	H	F	H	H	F	H	H	H
(III)－1599	S	1	H	Phen	H	H	F	H	H	H	F	H	H
(III)－1600	S	1	H	Phen	H	H	F	H	H	H	H	F	H
(III)－1601	S	1	H	Phen	H	H	F	H	H	H	H	H	F
(III)－1602	S	1	H	Phen	H	H	H	F	F	H	H	H	H
(III)－1603	S	1	H	Phen	H	H	H	F	H	F	H	H	H
(III)－1604	S	1	H	Phen	H	H	H	F	H	H	F	H	H
(III)－1605	S	1	H	Phen	H	H	H	F	H	H	H	F	H
(III)－1606	S	1	H	Phen	H	H	H	F	H	H	H	H	F
(III)－1607	S	1	H	Phen	H	H	H	H	F	F	H	H	H
(III)－1608	S	1	H	Phen	H	H	H	H	F	H	F	H	H
(III)－1609	S	1	H	Phen	H	H	H	H	F	H	H	F	H
(III)－1610	S	1	H	Phen	H	H	H	H	F	H	H	H	F
(III)－1611	S	1	H	Phen	H	H	H	H	H	F	F	H	H
(III)－1612	S	1	H	Phen	H	H	H	H	H	F	H	F	H
(III)－1613	S	1	H	Phen	H	H	H	H	H	F	H	H	F
(III)－1614	S	1	H	Phen	H	H	H	H	H	H	F	F	H
(III)－1615	S	1	H	Phen	H	H	H	H	H	H	F	H	F
(III)－1616	S	1	H	Phen	H	H	H	H	H	H	H	F	F
(III)－1617	O	2	F	H	H	H	H	H	H	H	H	H	H
(III)－1618	O	2	H	F	H	H	H	H	H	H	H	H	H
(III)－1619	O	2	H	H	F	H	H	H	H	H	H	H	H
(III)－1620	O	2	H	H	H	F	H	H	H	H	H	H	H

【表１２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1621	O	2	H	H	H	H	F	H	H	H	H	H	H
(III)－1622	O	2	H	H	H	H	H	F	H	H	H	H	H
(III)－1623	O	2	H	H	H	H	H	H	F	H	H	H	H
(III)－1624	O	2	H	H	H	H	H	H	H	F	H	H	H
(III)－1625	O	2	H	H	H	H	H	H	H	H	F	H	H
(III)－1626	O	2	H	H	H	H	H	H	H	H	H	F	H
(III)－1627	O	2	H	H	H	H	H	H	H	H	H	H	F
(III)－1628	O	2	F	F	H	H	H	H	H	H	H	H	H
(III)－1629	O	2	F	H	F	H	H	H	H	H	H	H	H
(III)－1630	O	2	F	H	H	F	H	H	H	H	H	H	H
(III)－1631	O	2	F	H	H	H	F	H	H	H	H	H	H
(III)－1632	O	2	F	H	H	H	H	F	H	H	H	H	H
(III)－1633	O	2	F	H	H	H	H	H	F	H	H	H	H
(III)－1634	O	2	F	H	H	H	H	H	H	F	H	H	H
(III)－1635	O	2	F	H	H	H	H	H	H	H	F	H	H
(III)－1636	O	2	F	H	H	H	H	H	H	H	H	F	H
(III)－1637	O	2	F	H	H	H	H	H	H	H	H	H	F
(III)－1638	O	2	H	F	F	H	H	H	H	H	H	H	H
(III)－1639	O	2	H	F	H	F	H	H	H	H	H	H	H
(III)－1640	O	2	H	F	H	H	F	H	H	H	H	H	H
(III)－1641	O	2	H	F	H	H	H	F	H	H	H	H	H
(III)－1642	O	2	H	F	H	H	H	H	F	H	H	H	H
(III)－1643	O	2	H	F	H	H	H	H	H	F	H	H	H
(III)－1644	O	2	H	F	H	H	H	H	H	H	F	H	H
(III)－1645	O	2	H	F	H	H	H	H	H	H	H	F	H
(III)－1646	O	2	H	F	H	H	H	H	H	H	H	H	F
(III)－1647	O	2	H	H	F	F	H	H	H	H	H	H	H
(III)－1648	O	2	H	H	F	H	F	H	H	H	H	H	H
(III)－1649	O	2	H	H	F	H	H	F	H	H	H	H	H
(III)－1650	O	2	H	H	F	H	H	H	F	H	H	H	H
(III)－1651	O	2	H	H	F	H	H	H	H	F	H	H	H
(III)－1652	O	2	H	H	F	H	H	H	H	H	F	H	H
(III)－1653	O	2	H	H	F	H	H	H	H	H	H	F	H
(III)－1654	O	2	H	H	F	H	H	H	H	H	H	H	F
(III)－1655	O	2	H	H	H	F	F	H	H	H	H	H	H
(III)－1656	O	2	H	H	H	F	H	F	H	H	H	H	H
(III)－1657	O	2	H	H	H	F	H	H	F	H	H	H	H
(III)－1658	O	2	H	H	H	F	H	H	H	F	H	H	H
(III)－1659	O	2	H	H	H	F	H	H	H	H	F	H	H
(III)－1660	O	2	H	H	H	F	H	H	H	H	H	F	H
(III)－1661	O	2	H	H	H	F	H	H	H	H	H	H	F
(III)－1662	O	2	H	H	H	H	F	F	H	H	H	H	H
(III)－1663	O	2	H	H	H	H	F	H	F	H	H	H	H
(III)－1664	O	2	H	H	H	H	F	H	H	F	H	H	H
(III)－1665	O	2	H	H	H	H	F	H	H	H	F	H	H
(III)－1666	O	2	H	H	H	H	F	H	H	H	H	F	H
(III)－1667	O	2	H	H	H	H	F	H	H	H	H	H	F
(III)－1668	O	2	H	H	H	H	H	F	F	H	H	H	H
(III)－1669	O	2	H	H	H	H	H	F	H	F	H	H	H
(III)－1670	O	2	H	H	H	H	H	F	H	H	F	H	H
(III)－1671	O	2	H	H	H	H	H	F	H	H	H	F	H
(III)－1672	O	2	H	H	H	H	H	F	H	H	H	H	F
(III)－1673	O	2	H	H	H	H	H	H	F	F	H	H	H
(III)－1674	O	2	H	H	H	H	H	H	F	H	F	H	H
(III)－1675	O	2	H	H	H	H	H	H	F	H	H	F	H
(III)－1676	O	2	H	H	H	H	H	H	F	H	H	H	F
(III)－1677	O	2	H	H	H	H	H	H	H	F	F	H	H
(III)－1678	O	2	H	H	H	H	H	H	H	F	H	F	H
(III)－1679	O	2	H	H	H	H	H	H	H	F	H	H	F
(III)－1680	O	2	H	H	H	H	H	H	H	H	F	F	H

【表１２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1681	O	2	H	H	H	H	H	H	H	H	F	H	F
(III)－1682	O	2	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－1683	O	2	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－1684	O	2	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－1685	O	2	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－1686	O	2	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－1687	O	2	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－1688	O	2	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－1689	O	2	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－1690	O	2	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－1691	O	2	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－1692	O	2	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－1693	O	2	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－1694	O	2	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－1695	O	2	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－1696	O	2	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－1697	O	2	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－1698	O	2	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－1699	O	2	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－1700	O	2	H	CH_3	H	H	H	H	H	H	H	F	H
(III)－1701	O	2	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－1702	O	2	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－1703	O	2	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－1704	O	2	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－1705	O	2	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－1706	O	2	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－1707	O	2	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1708	O	2	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－1709	O	2	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－1710	O	2	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－1711	O	2	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－1712	O	2	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－1713	O	2	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－1714	O	2	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－1715	O	2	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－1716	O	2	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－1717	O	2	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－1718	O	2	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－1719	O	2	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－1720	O	2	H	H	H	H	CH_3	H	H	F	H	H	H
(III)－1721	O	2	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－1722	O	2	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－1723	O	2	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－1724	O	2	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－1725	O	2	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－1726	O	2	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－1727	O	2	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－1728	O	2	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－1729	O	2	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－1730	O	2	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－1731	O	2	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－1732	O	2	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－1733	O	2	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－1734	O	2	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－1735	O	2	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－1736	O	2	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－1737	O	2	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－1738	O	2	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－1739	O	2	H	Ph	H	H	H	H	H	H	H	H	H
(III)－1740	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H

【表１２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1741	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－1742	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－1743	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－1744	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－1745	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－1746	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－1747	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－1748	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－1749	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－1750	O	2	H	Tol	H	H	H	H	H	H	H	H	H
(III)－1751	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－1752	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－1753	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－1754	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－1755	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－1756	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－1757	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－1758	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－1759	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－1760	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3
(III)－1761	O	2	H	Phen	H	H	H	H	H	H	H	H	H
(III)－1762	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－1763	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－1764	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－1765	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－1766	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－1767	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－1768	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－1769	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－1770	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－1771	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－1772	O	2	F	Ph	H	H	H	H	H	H	H	H	H
(III)－1773	O	2	H	Ph	F	H	H	H	H	H	H	H	H
(III)－1774	O	2	H	Ph	H	F	H	H	H	H	H	H	H
(III)－1775	O	2	H	Ph	H	H	F	H	H	H	H	H	H
(III)－1776	O	2	H	Ph	H	H	H	F	H	H	H	H	H
(III)－1777	O	2	H	Ph	H	H	H	H	F	H	H	H	H
(III)－1778	O	2	H	Ph	H	H	H	H	H	F	H	H	H
(III)－1779	O	2	H	Ph	H	H	H	H	H	H	F	H	H
(III)－1780	O	2	H	Ph	H	H	H	H	H	H	H	F	H
(III)－1781	O	2	H	Ph	H	H	H	H	H	H	H	H	F
(III)－1782	O	2	F	Ph	F	H	H	H	H	H	H	H	H
(III)－1783	O	2	F	Ph	H	F	H	H	H	H	H	H	H
(III)－1784	O	2	F	Ph	H	H	F	H	H	H	H	H	H
(III)－1785	O	2	F	Ph	H	H	H	F	H	H	H	H	H
(III)－1786	O	2	F	Ph	H	H	H	H	F	H	H	H	H
(III)－1787	O	2	F	Ph	H	H	H	H	H	F	H	H	H
(III)－1788	O	2	F	Ph	H	H	H	H	H	H	F	H	H
(III)－1789	O	2	F	Ph	H	H	H	H	H	H	H	F	H
(III)－1790	O	2	F	Ph	H	H	H	H	H	H	H	H	F
(III)－1791	O	2	H	Ph	F	F	H	H	H	H	H	H	H
(III)－1792	O	2	H	Ph	F	H	F	H	H	H	H	H	H
(III)－1793	O	2	H	Ph	F	H	H	F	H	H	H	H	H
(III)－1794	O	2	H	Ph	F	H	H	H	F	H	H	H	H
(III)－1795	O	2	H	Ph	F	H	H	H	H	F	H	H	H
(III)－1796	O	2	H	Ph	F	H	H	H	H	H	F	H	H
(III)－1797	O	2	H	Ph	F	H	H	H	H	H	H	F	H
(III)－1798	O	2	H	Ph	F	H	H	H	H	H	H	H	F
(III)－1799	O	2	H	Ph	H	F	F	H	H	H	H	H	H
(III)－1800	O	2	H	Ph	H	F	H	F	H	H	H	H	H

【表１２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1801	O	2	H	Ph	H	F	H	H	F	H	H	H	H
(III)－1802	O	2	H	Ph	H	F	H	H	H	F	H	H	H
(III)－1803	O	2	H	Ph	H	F	H	H	H	H	F	H	H
(III)－1804	O	2	H	Ph	H	F	H	H	H	H	H	F	H
(III)－1805	O	2	H	Ph	H	F	H	H	H	H	H	H	F
(III)－1806	O	2	H	Ph	H	H	F	F	H	H	H	H	H
(III)－1807	O	2	H	Ph	H	H	F	H	F	H	H	H	H
(III)－1808	O	2	H	Ph	H	H	F	H	H	F	H	H	H
(III)－1809	O	2	H	Ph	H	H	F	H	H	H	F	H	H
(III)－1810	O	2	H	Ph	H	H	F	H	H	H	H	F	H
(III)－1811	O	2	H	Ph	H	H	F	H	H	H	H	H	F
(III)－1812	O	2	H	Ph	H	H	H	F	F	H	H	H	H
(III)－1813	O	2	H	Ph	H	H	H	F	H	F	H	H	H
(III)－1814	O	2	H	Ph	H	H	H	F	H	H	F	H	H
(III)－1815	O	2	H	Ph	H	H	H	F	H	H	H	F	H
(III)－1816	O	2	H	Ph	H	H	H	F	H	H	H	H	F
(III)－1817	O	2	H	Ph	H	H	H	H	F	F	H	H	H
(III)－1818	O	2	H	Ph	H	H	H	H	F	H	F	H	H
(III)－1819	O	2	H	Ph	H	H	H	H	F	H	H	F	H
(III)－1820	O	2	H	Ph	H	H	H	H	F	H	H	H	F
(III)－1821	O	2	H	Ph	H	H	H	H	H	F	F	H	H
(III)－1822	O	2	H	Ph	H	H	H	H	H	F	H	F	H
(III)－1823	O	2	H	Ph	H	H	H	H	H	F	H	H	F
(III)－1824	O	2	H	Ph	H	H	H	H	H	H	F	F	H
(III)－1825	O	2	H	Ph	H	H	H	H	H	H	F	H	F
(III)－1826	O	2	H	Ph	H	H	H	H	H	H	H	F	F
(III)－1827	O	2	F	Tol	H	H	H	H	H	H	H	H	H
(III)－1828	O	2	H	Tol	F	H	H	H	H	H	H	H	H
(III)－1829	O	2	H	Tol	H	F	H	H	H	H	H	H	H
(III)－1830	O	2	H	Tol	H	H	F	H	H	H	H	H	H
(III)－1831	O	2	H	Tol	H	H	H	F	H	H	H	H	H
(III)－1832	O	2	H	Tol	H	H	H	H	F	H	H	H	H
(III)－1833	O	2	H	Tol	H	H	H	H	H	F	H	H	H
(III)－1834	O	2	H	Tol	H	H	H	H	H	H	F	H	H
(III)－1835	O	2	H	Tol	H	H	H	H	H	H	H	F	H
(III)－1836	O	2	H	Tol	H	H	H	H	H	H	H	H	F
(III)－1837	O	2	F	Tol	F	H	H	H	H	H	H	H	H
(III)－1838	O	2	F	Tol	H	F	H	H	H	H	H	H	H
(III)－1839	O	2	F	Tol	H	H	F	H	H	H	H	H	H
(III)－1840	O	2	F	Tol	H	H	H	F	H	H	H	H	H
(III)－1841	O	2	F	Tol	H	H	H	H	F	H	H	H	H
(III)－1842	O	2	F	Tol	H	H	H	H	H	F	H	H	H
(III)－1843	O	2	F	Tol	H	H	H	H	H	H	F	H	H
(III)－1844	O	2	F	Tol	H	H	H	H	H	H	H	F	H
(III)－1845	O	2	F	Tol	H	H	H	H	H	H	H	H	F
(III)－1846	O	2	H	Tol	F	F	H	H	H	H	H	H	H
(III)－1847	O	2	H	Tol	F	H	F	H	H	H	H	H	H
(III)－1848	O	2	H	Tol	F	H	H	F	H	H	H	H	H
(III)－1849	O	2	H	Tol	F	H	H	H	F	H	H	H	H
(III)－1850	O	2	H	Tol	F	H	H	H	H	F	H	H	H
(III)－1851	O	2	H	Tol	F	H	H	H	H	H	F	H	H
(III)－1852	O	2	H	Tol	F	H	H	H	H	H	H	F	H
(III)－1853	O	2	H	Tol	F	H	H	H	H	H	H	H	F
(III)－1854	O	2	H	Tol	H	F	F	H	H	H	H	H	H
(III)－1855	O	2	H	Tol	H	F	H	F	H	H	H	H	H
(III)－1856	O	2	H	Tol	H	F	H	H	F	H	H	H	H
(III)－1857	O	2	H	Tol	H	F	H	H	H	F	H	H	H
(III)－1858	O	2	H	Tol	H	F	H	H	H	H	F	H	H
(III)－1859	O	2	H	Tol	H	F	H	H	H	H	H	F	H
(III)－1860	O	2	H	Tol	H	F	H	H	H	H	H	H	F

【表１２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1861	O	2	H	Tol	H	H	F	F	H	H	H	H	H
(III)－1862	O	2	H	Tol	H	H	F	H	F	H	H	H	H
(III)－1863	O	2	H	Tol	H	H	F	H	H	F	H	H	H
(III)－1864	O	2	H	Tol	H	H	F	H	H	H	F	H	H
(III)－1865	O	2	H	Tol	H	H	F	H	H	H	H	F	H
(III)－1866	O	2	H	Tol	H	H	F	H	H	H	H	H	F
(III)－1867	O	2	H	Tol	H	H	H	F	F	H	H	H	H
(III)－1868	O	2	H	Tol	H	H	H	F	H	F	H	H	H
(III)－1869	O	2	H	Tol	H	H	H	F	H	H	F	H	H
(III)－1870	O	2	H	Tol	H	H	H	F	H	H	H	F	H
(III)－1871	O	2	H	Tol	H	H	H	F	H	H	H	H	F
(III)－1872	O	2	H	Tol	H	H	H	H	F	F	H	H	H
(III)－1873	O	2	H	Tol	H	H	H	H	F	H	F	H	H
(III)－1874	O	2	H	Tol	H	H	H	H	F	H	H	F	H
(III)－1875	O	2	H	Tol	H	H	H	H	F	H	H	H	F
(III)－1876	O	2	H	Tol	H	H	H	H	H	F	F	H	H
(III)－1877	O	2	H	Tol	H	H	H	H	H	F	H	F	H
(III)－1878	O	2	H	Tol	H	H	H	H	H	F	H	H	F
(III)－1879	O	2	H	Tol	H	H	H	H	H	H	F	F	H
(III)－1880	O	2	H	Tol	H	H	H	H	H	H	F	H	F
(III)－1881	O	2	H	Tol	H	H	H	H	H	H	H	F	F
(III)－1882	O	2	F	Phen	H	H	H	H	H	H	H	H	H
(III)－1883	O	2	H	Phen	F	H	H	H	H	H	H	H	H
(III)－1884	O	2	H	Phen	H	F	H	H	H	H	H	H	H
(III)－1885	O	2	H	Phen	H	H	F	H	H	H	H	H	H
(III)－1886	O	2	H	Phen	H	H	H	F	H	H	H	H	H
(III)－1887	O	2	H	Phen	H	H	H	H	F	H	H	H	H
(III)－1888	O	2	H	Phen	H	H	H	H	H	F	H	H	H
(III)－1889	O	2	H	Phen	H	H	H	H	H	H	F	H	H
(III)－1890	O	2	H	Phen	H	H	H	H	H	H	H	F	H
(III)－1891	O	2	H	Phen	H	H	H	H	H	H	H	H	F
(III)－1892	O	2	F	Phen	F	H	H	H	H	H	H	H	H
(III)－1893	O	2	F	Phen	H	F	H	H	H	H	H	H	H
(III)－1894	O	2	F	Phen	H	H	F	H	H	H	H	H	H
(III)－1895	O	2	F	Phen	H	H	H	F	H	H	H	H	H
(III)－1896	O	2	F	Phen	H	H	H	H	F	H	H	H	H
(III)－1897	O	2	F	Phen	H	H	H	H	H	F	H	H	H
(III)－1898	O	2	F	Phen	H	H	H	H	H	H	F	H	H
(III)－1899	O	2	F	Phen	H	H	H	H	H	H	H	F	H
(III)－1900	O	2	F	Phen	H	H	H	H	H	H	H	H	F
(III)－1901	O	2	H	Phen	F	F	H	H	H	H	H	H	H
(III)－1902	O	2	H	Phen	F	H	F	H	H	H	H	H	H
(III)－1903	O	2	H	Phen	F	H	H	F	H	H	H	H	H
(III)－1904	O	2	H	Phen	F	H	H	H	F	H	H	H	H
(III)－1905	O	2	H	Phen	F	H	H	H	H	F	H	H	H
(III)－1906	O	2	H	Phen	F	H	H	H	H	H	F	H	H
(III)－1907	O	2	H	Phen	F	H	H	H	H	H	H	F	H
(III)－1908	O	2	H	Phen	F	H	H	H	H	H	H	H	F
(III)－1909	O	2	H	Phen	H	F	F	H	H	H	H	H	H
(III)－1910	O	2	H	Phen	H	F	H	F	H	H	H	H	H
(III)－1911	O	2	H	Phen	H	F	H	H	F	H	H	H	H
(III)－1912	O	2	H	Phen	H	F	H	H	H	F	H	H	H
(III)－1913	O	2	H	Phen	H	F	H	H	H	H	F	H	H
(III)－1914	O	2	H	Phen	H	F	H	H	H	H	H	F	H
(III)－1915	O	2	H	Phen	H	F	H	H	H	H	H	H	F
(III)－1916	O	2	H	Phen	H	H	F	F	H	H	H	H	H
(III)－1917	O	2	H	Phen	H	H	F	H	F	H	H	H	H
(III)－1918	O	2	H	Phen	H	H	F	H	H	F	H	H	H
(III)－1919	O	2	H	Phen	H	H	F	H	H	H	F	H	H
(III)－1920	O	2	H	Phen	H	H	F	H	H	H	H	F	H

【表１３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1921	O	2	H	Phen	H	H	F	H	H	H	H	H	F
(III)－1922	O	2	H	Phen	H	H	H	F	F	H	H	H	H
(III)－1923	O	2	H	Phen	H	H	H	F	H	F	H	H	H
(III)－1924	O	2	H	Phen	H	H	H	F	H	H	F	H	H
(III)－1925	O	2	H	Phen	H	H	H	F	H	H	H	F	H
(III)－1926	O	2	H	Phen	H	H	H	F	H	H	H	H	F
(III)－1927	O	2	H	Phen	H	H	H	H	F	F	H	H	H
(III)－1928	O	2	H	Phen	H	H	H	H	F	H	F	H	H
(III)－1929	O	2	H	Phen	H	H	H	H	F	H	H	F	H
(III)－1930	O	2	H	Phen	H	H	H	H	F	H	H	H	F
(III)－1931	O	2	H	Phen	H	H	H	H	H	F	F	H	H
(III)－1932	O	2	H	Phen	H	H	H	H	H	F	H	F	H
(III)－1933	O	2	H	Phen	H	H	H	H	H	F	H	H	F
(III)－1934	O	2	H	Phen	H	H	H	H	H	H	F	F	H
(III)－1935	O	2	H	Phen	H	H	H	H	H	H	F	H	F
(III)－1936	O	2	H	Phen	H	H	H	H	H	H	H	F	F
(III)－1937	S	2	F	H	H	H	H	H	H	H	H	H	H
(III)－1938	S	2	H	F	H	H	H	H	H	H	H	H	H
(III)－1939	S	2	H	H	F	H	H	H	H	H	H	H	H
(III)－1940	S	2	H	H	H	F	H	H	H	H	H	H	H
(III)－1941	S	2	H	H	H	H	F	H	H	H	H	H	H
(III)－1942	S	2	H	H	H	H	H	F	H	H	H	H	H
(III)－1943	S	2	H	H	H	H	H	H	F	H	H	H	H
(III)－1944	S	2	H	H	H	H	H	H	H	F	H	H	H
(III)－1945	S	2	H	H	H	H	H	H	H	H	F	H	H
(III)－1946	S	2	H	H	H	H	H	H	H	H	H	F	H
(III)－1947	S	2	H	H	H	H	H	H	H	H	H	H	F
(III)－1948	S	2	F	F	H	H	H	H	H	H	H	H	H
(III)－1949	S	2	F	H	F	H	H	H	H	H	H	H	H
(III)－1950	S	2	F	H	H	F	H	H	H	H	H	H	H
(III)－1951	S	2	F	H	H	H	F	H	H	H	H	H	H
(III)－1952	S	2	F	H	H	H	H	F	H	H	H	H	H
(III)－1953	S	2	F	H	H	H	H	H	F	H	H	H	H
(III)－1954	S	2	F	H	H	H	H	H	H	F	H	H	H
(III)－1955	S	2	F	H	H	H	H	H	H	H	F	H	H
(III)－1956	S	2	F	H	H	H	H	H	H	H	H	F	H
(III)－1957	S	2	F	H	H	H	H	H	H	H	H	H	F
(III)－1958	S	2	H	F	F	H	H	H	H	H	H	H	H
(III)－1959	S	2	H	F	H	F	H	H	H	H	H	H	H
(III)－1960	S	2	H	F	H	H	F	H	H	H	H	H	H
(III)－1961	S	2	H	F	H	H	H	F	H	H	H	H	H
(III)－1962	S	2	H	F	H	H	H	H	F	H	H	H	H
(III)－1963	S	2	H	F	H	H	H	H	H	F	H	H	H
(III)－1964	S	2	H	F	H	H	H	H	H	H	F	H	H
(III)－1965	S	2	H	F	H	H	H	H	H	H	H	F	H
(III)－1966	S	2	H	F	H	H	H	H	H	H	H	H	F
(III)－1967	S	2	H	H	F	F	H	H	H	H	H	H	H
(III)－1968	S	2	H	H	F	H	F	H	H	H	H	H	H
(III)－1969	S	2	H	H	F	H	H	F	H	H	H	H	H
(III)－1970	S	2	H	H	F	H	H	H	F	H	H	H	H
(III)－1971	S	2	H	H	F	H	H	H	H	F	H	H	H
(III)－1972	S	2	H	H	F	H	H	H	H	H	F	H	H
(III)－1973	S	2	H	H	F	H	H	H	H	H	H	F	H
(III)－1974	S	2	H	H	F	H	H	H	H	H	H	H	F
(III)－1975	S	2	H	H	H	F	F	H	H	H	H	H	H
(III)－1976	S	2	H	H	H	F	H	F	H	H	H	H	H
(III)－1977	S	2	H	H	H	F	H	H	F	H	H	H	H
(III)－1978	S	2	H	H	H	F	H	H	H	F	H	H	H
(III)－1979	S	2	H	H	H	F	H	H	H	H	F	H	H
(III)－1980	S	2	H	H	H	F	H	H	H	H	H	F	H

【表１３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－1981	S	2	H	H	H	F	H	H	H	H	H	H	F
(III)－1982	S	2	H	H	H	H	F	F	H	H	H	H	H
(III)－1983	S	2	H	H	H	H	F	H	F	H	H	H	H
(III)－1984	S	2	H	H	H	H	F	H	H	F	H	H	H
(III)－1985	S	2	H	H	H	H	F	H	H	H	F	H	H
(III)－1986	S	2	H	H	H	H	F	H	H	H	H	F	H
(III)－1987	S	2	H	H	H	H	F	H	H	H	H	H	F
(III)－1988	S	2	H	H	H	H	H	F	F	H	H	H	H
(III)－1989	S	2	H	H	H	H	H	F	H	F	H	H	H
(III)－1990	S	2	H	H	H	H	H	F	H	H	F	H	H
(III)－1991	S	2	H	H	H	H	H	F	H	H	H	F	H
(III)－1992	S	2	H	H	H	H	H	F	H	H	H	H	F
(III)－1993	S	2	H	H	H	H	H	H	F	F	H	H	H
(III)－1994	S	2	H	H	H	H	H	H	F	H	F	H	H
(III)－1995	S	2	H	H	H	H	H	H	F	H	H	F	H
(III)－1996	S	2	H	H	H	H	H	H	F	H	H	H	F
(III)－1997	S	2	H	H	H	H	H	H	H	F	F	H	H
(III)－1998	S	2	H	H	H	H	H	H	H	F	H	F	H
(III)－1999	S	2	H	H	H	H	H	H	H	F	H	H	F
(III)－2000	S	2	H	H	H	H	H	H	H	H	F	F	H
(III)－2001	S	2	H	H	H	H	H	H	H	H	F	H	F
(III)－2002	S	2	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－2003	S	2	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－2004	S	2	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－2005	S	2	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－2006	S	2	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－2007	S	2	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－2008	S	2	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－2009	S	2	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－2010	S	2	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－2011	S	2	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－2012	S	2	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－2013	S	2	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－2014	S	2	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－2015	S	2	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－2016	S	2	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－2017	S	2	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－2018	S	2	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－2019	S	2	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－2020	S	2	H	CH_3	H	H	H	H	H	H	H	F	H
(III)－2021	S	2	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－2022	S	2	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－2023	S	2	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－2024	S	2	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－2025	S	2	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－2026	S	2	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－2027	S	2	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2028	S	2	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2029	S	2	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－2030	S	2	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－2031	S	2	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－2032	S	2	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－2033	S	2	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－2034	S	2	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－2035	S	2	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－2036	S	2	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－2037	S	2	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－2038	S	2	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－2039	S	2	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－2040	S	2	H	H	H	H	CH_3	H	H	F	H	H	H

【表１３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2041	S	2	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－2042	S	2	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－2043	S	2	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－2044	S	2	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－2045	S	2	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－2046	S	2	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－2047	S	2	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－2048	S	2	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－2049	S	2	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－2050	S	2	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－2051	S	2	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－2052	S	2	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－2053	S	2	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－2054	S	2	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－2055	S	2	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－2056	S	2	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－2057	S	2	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－2058	S	2	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－2059	S	2	H	Ph	H	H	H	H	H	H	H	H	H
(III)－2060	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－2061	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－2062	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－2063	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－2064	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－2065	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－2066	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－2067	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－2068	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－2069	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－2070	S	2	H	Tol	H	H	H	H	H	H	H	H	H
(III)－2071	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－2072	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－2073	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－2074	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－2075	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－2076	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－2077	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－2078	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－2079	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－2080	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3
(III)－2081	S	2	H	Phen	H	H	H	H	H	H	H	H	H
(III)－2082	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－2083	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－2084	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－2085	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－2086	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－2087	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－2088	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－2089	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－2090	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－2091	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－2092	S	2	F	Ph	H	H	H	H	H	H	H	H	H
(III)－2093	S	2	H	Ph	F	H	H	H	H	H	H	H	H
(III)－2094	S	2	H	Ph	H	F	H	H	H	H	H	H	H
(III)－2095	S	2	H	Ph	H	H	F	H	H	H	H	H	H
(III)－2096	S	2	H	Ph	H	H	H	F	H	H	H	H	H
(III)－2097	S	2	H	Ph	H	H	H	H	F	H	H	H	H
(III)－2098	S	2	H	Ph	H	H	H	H	H	F	H	H	H
(III)－2099	S	2	H	Ph	H	H	H	H	H	H	F	H	H
(III)－2100	S	2	H	Ph	H	H	H	H	H	H	H	F	H

【表１３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2101	S	2	H	Ph	H	H	H	H	H	H	H	H	F
(III)－2102	S	2	F	Ph	F	H	H	H	H	H	H	H	H
(III)－2103	S	2	F	Ph	H	F	H	H	H	H	H	H	H
(III)－2104	S	2	F	Ph	H	H	F	H	H	H	H	H	H
(III)－2105	S	2	F	Ph	H	H	H	F	H	H	H	H	H
(III)－2106	S	2	F	Ph	H	H	H	H	F	H	H	H	H
(III)－2107	S	2	F	Ph	H	H	H	H	H	F	H	H	H
(III)－2108	S	2	F	Ph	H	H	H	H	H	H	F	H	H
(III)－2109	S	2	F	Ph	H	H	H	H	H	H	H	F	H
(III)－2110	S	2	F	Ph	H	H	H	H	H	H	H	H	F
(III)－2111	S	2	H	Ph	F	F	H	H	H	H	H	H	H
(III)－2112	S	2	H	Ph	F	H	F	H	H	H	H	H	H
(III)－2113	S	2	H	Ph	F	H	H	F	H	H	H	H	H
(III)－2114	S	2	H	Ph	F	H	H	H	F	H	H	H	H
(III)－2115	S	2	H	Ph	F	H	H	H	H	F	H	H	H
(III)－2116	S	2	H	Ph	F	H	H	H	H	H	F	H	H
(III)－2117	S	2	H	Ph	F	H	H	H	H	H	H	F	H
(III)－2118	S	2	H	Ph	F	H	H	H	H	H	H	H	F
(III)－2119	S	2	H	Ph	H	F	F	H	H	H	H	H	H
(III)－2120	S	2	H	Ph	H	F	H	F	H	H	H	H	H
(III)－2121	S	2	H	Ph	H	F	H	H	F	H	H	H	H
(III)－2122	S	2	H	Ph	H	F	H	H	H	F	H	H	H
(III)－2123	S	2	H	Ph	H	F	H	H	H	H	F	H	H
(III)－2124	S	2	H	Ph	H	F	H	H	H	H	H	F	H
(III)－2125	S	2	H	Ph	H	F	H	H	H	H	H	H	F
(III)－2126	S	2	H	Ph	H	H	F	F	H	H	H	H	H
(III)－2127	S	2	H	Ph	H	H	F	H	F	H	H	H	H
(III)－2128	S	2	H	Ph	H	H	F	H	H	F	H	H	H
(III)－2129	S	2	H	Ph	H	H	F	H	H	H	F	H	H
(III)－2130	S	2	H	Ph	H	H	F	H	H	H	H	F	H
(III)－2131	S	2	H	Ph	H	H	F	H	H	H	H	H	F
(III)－2132	S	2	H	Ph	H	H	H	F	F	H	H	H	H
(III)－2133	S	2	H	Ph	H	H	H	F	H	F	H	H	H
(III)－2134	S	2	H	Ph	H	H	H	F	H	H	F	H	H
(III)－2135	S	2	H	Ph	H	H	H	F	H	H	H	F	H
(III)－2136	S	2	H	Ph	H	H	H	F	H	H	H	H	F
(III)－2137	S	2	H	Ph	H	H	H	H	F	F	H	H	H
(III)－2138	S	2	H	Ph	H	H	H	H	F	H	F	H	H
(III)－2139	S	2	H	Ph	H	H	H	H	F	H	H	F	H
(III)－2140	S	2	H	Ph	H	H	H	H	F	H	H	H	F
(III)－2141	S	2	H	Ph	H	H	H	H	H	F	F	H	H
(III)－2142	S	2	H	Ph	H	H	H	H	H	F	H	F	H
(III)－2143	S	2	H	Ph	H	H	H	H	H	F	H	H	F
(III)－2144	S	2	H	Ph	H	H	H	H	H	H	F	F	H
(III)－2145	S	2	H	Ph	H	H	H	H	H	H	F	H	F
(III)－2146	S	2	H	Ph	H	H	H	H	H	H	H	F	F
(III)－2147	S	2	F	Tol	H	H	H	H	H	H	H	H	H
(III)－2148	S	2	H	Tol	F	H	H	H	H	H	H	H	H
(III)－2149	S	2	H	Tol	H	F	H	H	H	H	H	H	H
(III)－2150	S	2	H	Tol	H	H	F	H	H	H	H	H	H
(III)－2151	S	2	H	Tol	H	H	H	F	H	H	H	H	H
(III)－2152	S	2	H	Tol	H	H	H	H	F	H	H	H	H
(III)－2153	S	2	H	Tol	H	H	H	H	H	F	H	H	H
(III)－2154	S	2	H	Tol	H	H	H	H	H	H	F	H	H
(III)－2155	S	2	H	Tol	H	H	H	H	H	H	H	F	H
(III)－2156	S	2	H	Tol	H	H	H	H	H	H	H	H	F
(III)－2157	S	2	F	Tol	F	H	H	H	H	H	H	H	H
(III)－2158	S	2	F	Tol	H	F	H	H	H	H	H	H	H
(III)－2159	S	2	F	Tol	H	H	F	H	H	H	H	H	H
(III)－2160	S	2	F	Tol	H	H	H	F	H	H	H	H	H

【表１３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2161	S	2	F	Tol	H	H	H	H	F	H	H	H	H
(III)－2162	S	2	F	Tol	H	H	H	H	H	F	H	H	H
(III)－2163	S	2	F	Tol	H	H	H	H	H	H	F	H	H
(III)－2164	S	2	F	Tol	H	H	H	H	H	H	H	F	H
(III)－2165	S	2	F	Tol	H	H	H	H	H	H	H	H	F
(III)－2166	S	2	H	Tol	F	F	H	H	H	H	H	H	H
(III)－2167	S	2	H	Tol	F	H	F	H	H	H	H	H	H
(III)－2168	S	2	H	Tol	F	H	H	F	H	H	H	H	H
(III)－2169	S	2	H	Tol	F	H	H	H	F	H	H	H	H
(III)－2170	S	2	H	Tol	F	H	H	H	H	F	H	H	H
(III)－2171	S	2	H	Tol	F	H	H	H	H	H	F	H	H
(III)－2172	S	2	H	Tol	F	H	H	H	H	H	H	F	H
(III)－2173	S	2	H	Tol	F	H	H	H	H	H	H	H	F
(III)－2174	S	2	H	Tol	H	F	F	H	H	H	H	H	H
(III)－2175	S	2	H	Tol	H	F	H	F	H	H	H	H	H
(III)－2176	S	2	H	Tol	H	F	H	H	F	H	H	H	H
(III)－2177	S	2	H	Tol	H	F	H	H	H	F	H	H	H
(III)－2178	S	2	H	Tol	H	F	H	H	H	H	F	H	H
(III)－2179	S	2	H	Tol	H	F	H	H	H	H	H	F	H
(III)－2180	S	2	H	Tol	H	F	H	H	H	H	H	H	F
(III)－2181	S	2	H	Tol	H	H	F	F	H	H	H	H	H
(III)－2182	S	2	H	Tol	H	H	F	H	F	H	H	H	H
(III)－2183	S	2	H	Tol	H	H	F	H	H	F	H	H	H
(III)－2184	S	2	H	Tol	H	H	F	H	H	H	F	H	H
(III)－2185	S	2	H	Tol	H	H	F	H	H	H	H	F	H
(III)－2186	S	2	H	Tol	H	H	F	H	H	H	H	H	F
(III)－2187	S	2	H	Tol	H	H	H	F	F	H	H	H	H
(III)－2188	S	2	H	Tol	H	H	H	F	H	F	H	H	H
(III)－2189	S	2	H	Tol	H	H	H	F	H	H	F	H	H
(III)－2190	S	2	H	Tol	H	H	H	F	H	H	H	F	H
(III)－2191	S	2	H	Tol	H	H	H	F	H	H	H	H	F
(III)－2192	S	2	H	Tol	H	H	H	H	F	F	H	H	H
(III)－2193	S	2	H	Tol	H	H	H	H	F	H	F	H	H
(III)－2194	S	2	H	Tol	H	H	H	H	F	H	H	F	H
(III)－2195	S	2	H	Tol	H	H	H	H	F	H	H	H	F
(III)－2196	S	2	H	Tol	H	H	H	H	H	F	F	H	H
(III)－2197	S	2	H	Tol	H	H	H	H	H	F	H	F	H
(III)－2198	S	2	H	Tol	H	H	H	H	H	F	H	H	F
(III)－2199	S	2	H	Tol	H	H	H	H	H	H	F	F	H
(III)－2200	S	2	H	Tol	H	H	H	H	H	H	F	H	F
(III)－2201	S	2	H	Tol	H	H	H	H	H	H	H	F	F
(III)－2202	S	2	F	Phen	H	H	H	H	H	H	H	H	H
(III)－2203	S	2	H	Phen	F	H	H	H	H	H	H	H	H
(III)－2204	S	2	H	Phen	H	F	H	H	H	H	H	H	H
(III)－2205	S	2	H	Phen	H	H	F	H	H	H	H	H	H
(III)－2206	S	2	H	Phen	H	H	H	F	H	H	H	H	H
(III)－2207	S	2	H	Phen	H	H	H	H	F	H	H	H	H
(III)－2208	S	2	H	Phen	H	H	H	H	H	F	H	H	H
(III)－2209	S	2	H	Phen	H	H	H	H	H	H	F	H	H
(III)－2210	S	2	H	Phen	H	H	H	H	H	H	H	F	H
(III)－2211	S	2	H	Phen	H	H	H	H	H	H	H	H	F
(III)－2212	S	2	F	Phen	F	H	H	H	H	H	H	H	H
(III)－2213	S	2	F	Phen	H	F	H	H	H	H	H	H	H
(III)－2214	S	2	F	Phen	H	H	F	H	H	H	H	H	H
(III)－2215	S	2	F	Phen	H	H	H	F	H	H	H	H	H
(III)－2216	S	2	F	Phen	H	H	H	H	F	H	H	H	H
(III)－2217	S	2	F	Phen	H	H	H	H	H	F	H	H	H
(III)－2218	S	2	F	Phen	H	H	H	H	H	H	F	H	H
(III)－2219	S	2	F	Phen	H	H	H	H	H	H	H	F	H
(III)－2220	S	2	F	Phen	H	H	H	H	H	H	H	H	F

【表１３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2221	S	2	H	Phen	F	F	H	H	H	H	H	H	H
(III)－2222	S	2	H	Phen	F	H	F	H	H	H	H	H	H
(III)－2223	S	2	H	Phen	F	H	H	F	H	H	H	H	H
(III)－2224	S	2	H	Phen	F	H	H	H	F	H	H	H	H
(III)－2225	S	2	H	Phen	F	H	H	H	H	F	H	H	H
(III)－2226	S	2	H	Phen	F	H	H	H	H	H	F	H	H
(III)－2227	S	2	H	Phen	F	H	H	H	H	H	H	F	H
(III)－2228	S	2	H	Phen	F	H	H	H	H	H	H	H	F
(III)－2229	S	2	H	Phen	H	F	F	H	H	H	H	H	H
(III)－2230	S	2	H	Phen	H	F	H	F	H	H	H	H	H
(III)－2231	S	2	H	Phen	H	F	H	H	F	H	H	H	H
(III)－2232	S	2	H	Phen	H	F	H	H	H	F	H	H	H
(III)－2233	S	2	H	Phen	H	F	H	H	H	H	F	H	H
(III)－2234	S	2	H	Phen	H	F	H	H	H	H	H	F	H
(III)－2235	S	2	H	Phen	H	F	H	H	H	H	H	H	F
(III)－2236	S	2	H	Phen	H	H	F	F	H	H	H	H	H
(III)－2237	S	2	H	Phen	H	H	F	H	F	H	H	H	H
(III)－2238	S	2	H	Phen	H	H	F	H	H	F	H	H	H
(III)－2239	S	2	H	Phen	H	H	F	H	H	H	F	H	H
(III)－2240	S	2	H	Phen	H	H	F	H	H	H	H	F	H
(III)－2241	S	2	H	Phen	H	H	F	H	H	H	H	H	F
(III)－2242	S	2	H	Phen	H	H	H	F	F	H	H	H	H
(III)－2243	S	2	H	Phen	H	H	H	F	H	F	H	H	H
(III)－2244	S	2	H	Phen	H	H	H	F	H	H	F	H	H
(III)－2245	S	2	H	Phen	H	H	H	F	H	H	H	F	H
(III)－2246	S	2	H	Phen	H	H	H	F	H	H	H	H	F
(III)－2247	S	2	H	Phen	H	H	H	H	F	F	H	H	H
(III)－2248	S	2	H	Phen	H	H	H	H	F	H	F	H	H
(III)－2249	S	2	H	Phen	H	H	H	H	F	H	H	F	H
(III)－2250	S	2	H	Phen	H	H	H	H	F	H	H	H	F
(III)－2251	S	2	H	Phen	H	H	H	H	H	F	F	H	H
(III)－2252	S	2	H	Phen	H	H	H	H	H	F	H	F	H
(III)－2253	S	2	H	Phen	H	H	H	H	H	F	H	H	F
(III)－2254	S	2	H	Phen	H	H	H	H	H	H	F	F	H
(III)－2255	S	2	H	Phen	H	H	H	H	H	H	F	H	F
(III)－2256	S	2	H	Phen	H	H	H	H	H	H	H	F	F
(III)－2257	O	3	F	H	H	H	H	H	H	H	H	H	H
(III)－2258	O	3	H	F	H	H	H	H	H	H	H	H	H
(III)－2259	O	3	H	H	F	H	H	H	H	H	H	H	H
(III)－2260	O	3	H	H	H	F	H	H	H	H	H	H	H
(III)－2261	O	3	H	H	H	H	F	H	H	H	H	H	H
(III)－2262	O	3	H	H	H	H	H	F	H	H	H	H	H
(III)－2263	O	3	H	H	H	H	H	H	F	H	H	H	H
(III)－2264	O	3	H	H	H	H	H	H	H	F	H	H	H
(III)－2265	O	3	H	H	H	H	H	H	H	H	F	H	H
(III)－2266	O	3	H	H	H	H	H	H	H	H	H	F	H
(III)－2267	O	3	H	H	H	H	H	H	H	H	H	H	F
(III)－2268	O	3	F	F	H	H	H	H	H	H	H	H	H
(III)－2269	O	3	F	H	F	H	H	H	H	H	H	H	H
(III)－2270	O	3	F	H	H	F	H	H	H	H	H	H	H
(III)－2271	O	3	F	H	H	H	F	H	H	H	H	H	H
(III)－2272	O	3	F	H	H	H	H	F	H	H	H	H	H
(III)－2273	O	3	F	H	H	H	H	H	F	H	H	H	H
(III)－2274	O	3	F	H	H	H	H	H	H	F	H	H	H
(III)－2275	O	3	F	H	H	H	H	H	H	H	F	H	H
(III)－2276	O	3	F	H	H	H	H	H	H	H	H	F	H
(III)－2277	O	3	F	H	H	H	H	H	H	H	H	H	F
(III)－2278	O	3	H	F	F	H	H	H	H	H	H	H	H
(III)－2279	O	3	H	F	H	F	H	H	H	H	H	H	H
(III)－2280	O	3	H	F	H	H	F	H	H	H	H	H	H

【表１３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2281	O	3	H	F	H	H	H	F	H	H	H	H	H
(III)－2282	O	3	H	F	H	H	H	H	F	H	H	H	H
(III)－2283	O	3	H	F	H	H	H	H	H	F	H	H	H
(III)－2284	O	3	H	F	H	H	H	H	H	H	F	H	H
(III)－2285	O	3	H	F	H	H	H	H	H	H	H	F	H
(III)－2286	O	3	H	F	H	H	H	H	H	H	H	H	F
(III)－2287	O	3	H	H	F	F	H	H	H	H	H	H	H
(III)－2288	O	3	H	H	F	H	F	H	H	H	H	H	H
(III)－2289	O	3	H	H	F	H	H	F	H	H	H	H	H
(III)－2290	O	3	H	H	F	H	H	H	F	H	H	H	H
(III)－2291	O	3	H	H	F	H	H	H	H	F	H	H	H
(III)－2292	O	3	H	H	F	H	H	H	H	H	F	H	H
(III)－2293	O	3	H	H	F	H	H	H	H	H	H	F	H
(III)－2294	O	3	H	H	F	H	H	H	H	H	H	H	F
(III)－2295	O	3	H	H	H	F	F	H	H	H	H	H	H
(III)－2296	O	3	H	H	H	F	H	F	H	H	H	H	H
(III)－2297	O	3	H	H	H	F	H	H	F	H	H	H	H
(III)－2298	O	3	H	H	H	F	H	H	H	F	H	H	H
(III)－2299	O	3	H	H	H	F	H	H	H	H	F	H	H
(III)－2300	O	3	H	H	H	F	H	H	H	H	H	F	H
(III)－2301	O	3	H	H	H	F	H	H	H	H	H	H	F
(III)－2302	O	3	H	H	H	H	F	F	H	H	H	H	H
(III)－2303	O	3	H	H	H	H	F	H	F	H	H	H	H
(III)－2304	O	3	H	H	H	H	F	H	H	F	H	H	H
(III)－2305	O	3	H	H	H	H	F	H	H	H	F	H	H
(III)－2306	O	3	H	H	H	H	F	H	H	H	H	F	H
(III)－2307	O	3	H	H	H	H	F	H	H	H	H	H	F
(III)－2308	O	3	H	H	H	H	H	F	F	H	H	H	H
(III)－2309	O	3	H	H	H	H	H	F	H	F	H	H	H
(III)－2310	O	3	H	H	H	H	H	F	H	H	F	H	H
(III)－2311	O	3	H	H	H	H	H	F	H	H	H	F	H
(III)－2312	O	3	H	H	H	H	H	F	H	H	H	H	F
(III)－2313	O	3	H	H	H	H	H	H	F	F	H	H	H
(III)－2314	O	3	H	H	H	H	H	H	F	H	F	H	H
(III)－2315	O	3	H	H	H	H	H	H	F	H	H	F	H
(III)－2316	O	3	H	H	H	H	H	H	F	H	H	H	F
(III)－2317	O	3	H	H	H	H	H	H	H	F	F	H	H
(III)－2318	O	3	H	H	H	H	H	H	H	F	H	F	H
(III)－2319	O	3	H	H	H	H	H	H	H	F	H	H	F
(III)－2320	O	3	H	H	H	H	H	H	H	H	F	F	H
(III)－2321	O	3	H	H	H	H	H	H	H	H	F	H	F
(III)－2322	O	3	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－2323	O	3	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－2324	O	3	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－2325	O	3	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－2326	O	3	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－2327	O	3	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－2328	O	3	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－2329	O	3	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－2330	O	3	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－2331	O	3	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－2332	O	3	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－2333	O	3	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－2334	O	3	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－2335	O	3	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－2336	O	3	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－2337	O	3	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－2338	O	3	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－2339	O	3	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－2340	O	3	H	CH_3	H	H	H	H	H	H	H	F	H

【表１３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2341	O	3	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－2342	O	3	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－2343	O	3	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－2344	O	3	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－2345	O	3	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－2346	O	3	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－2347	O	3	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2348	O	3	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2349	O	3	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－2350	O	3	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－2351	O	3	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－2352	O	3	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－2353	O	3	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－2354	O	3	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－2355	O	3	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－2356	O	3	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－2357	O	3	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－2358	O	3	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－2359	O	3	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－2360	O	3	H	H	H	H	CH_3	H	H	F	H	H	H
(III)－2361	O	3	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－2362	O	3	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－2363	O	3	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－2364	O	3	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－2365	O	3	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－2366	O	3	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－2367	O	3	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－2368	O	3	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－2369	O	3	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－2370	O	3	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－2371	O	3	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－2372	O	3	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－2373	O	3	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－2374	O	3	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－2375	O	3	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－2376	O	3	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－2377	O	3	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－2378	O	3	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－2379	O	3	H	Ph	H	H	H	H	H	H	H	H	H
(III)－2380	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－2381	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－2382	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－2383	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－2384	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－2385	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－2386	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－2387	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－2388	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－2389	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－2390	O	3	H	Tol	H	H	H	H	H	H	H	H	H
(III)－2391	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－2392	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－2393	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－2394	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－2395	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－2396	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－2397	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－2398	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－2399	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－2400	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表１３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2401	O	3	H	Phen	H	H	H	H	H	H	H	H	H
(III)－2402	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－2403	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－2404	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－2405	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－2406	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－2407	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－2408	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－2409	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－2410	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－2411	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－2412	O	3	F	Ph	H	H	H	H	H	H	H	H	H
(III)－2413	O	3	H	Ph	F	H	H	H	H	H	H	H	H
(III)－2414	O	3	H	Ph	H	F	H	H	H	H	H	H	H
(III)－2415	O	3	H	Ph	H	H	F	H	H	H	H	H	H
(III)－2416	O	3	H	Ph	H	H	H	F	H	H	H	H	H
(III)－2417	O	3	H	Ph	H	H	H	H	F	H	H	H	H
(III)－2418	O	3	H	Ph	H	H	H	H	H	F	H	H	H
(III)－2419	O	3	H	Ph	H	H	H	H	H	H	F	H	H
(III)－2420	O	3	H	Ph	H	H	H	H	H	H	H	F	H
(III)－2421	O	3	H	Ph	H	H	H	H	H	H	H	H	F
(III)－2422	O	3	F	Ph	F	H	H	H	H	H	H	H	H
(III)－2423	O	3	F	Ph	H	F	H	H	H	H	H	H	H
(III)－2424	O	3	F	Ph	H	H	F	H	H	H	H	H	H
(III)－2425	O	3	F	Ph	H	H	H	F	H	H	H	H	H
(III)－2426	O	3	F	Ph	H	H	H	H	F	H	H	H	H
(III)－2427	O	3	F	Ph	H	H	H	H	H	F	H	H	H
(III)－2428	O	3	F	Ph	H	H	H	H	H	H	F	H	H
(III)－2429	O	3	F	Ph	H	H	H	H	H	H	H	F	H
(III)－2430	O	3	F	Ph	H	H	H	H	H	H	H	H	F
(III)－2431	O	3	H	Ph	F	F	H	H	H	H	H	H	H
(III)－2432	O	3	H	Ph	F	H	F	H	H	H	H	H	H
(III)－2433	O	3	H	Ph	F	H	H	F	H	H	H	H	H
(III)－2434	O	3	H	Ph	F	H	H	H	F	H	H	H	H
(III)－2435	O	3	H	Ph	F	H	H	H	H	F	H	H	H
(III)－2436	O	3	H	Ph	F	H	H	H	H	H	F	H	H
(III)－2437	O	3	H	Ph	F	H	H	H	H	H	H	F	H
(III)－2438	O	3	H	Ph	F	H	H	H	H	H	H	H	F
(III)－2439	O	3	H	Ph	H	F	F	H	H	H	H	H	H
(III)－2440	O	3	H	Ph	H	F	H	F	H	H	H	H	H
(III)－2441	O	3	H	Ph	H	F	H	H	F	H	H	H	H
(III)－2442	O	3	H	Ph	H	F	H	H	H	F	H	H	H
(III)－2443	O	3	H	Ph	H	F	H	H	H	H	F	H	H
(III)－2444	O	3	H	Ph	H	F	H	H	H	H	H	F	H
(III)－2445	O	3	H	Ph	H	F	H	H	H	H	H	H	F
(III)－2446	O	3	H	Ph	H	H	F	F	H	H	H	H	H
(III)－2447	O	3	H	Ph	H	H	F	H	F	H	H	H	H
(III)－2448	O	3	H	Ph	H	H	F	H	H	F	H	H	H
(III)－2449	O	3	H	Ph	H	H	F	H	H	H	F	H	H
(III)－2450	O	3	H	Ph	H	H	F	H	H	H	H	F	H
(III)－2451	O	3	H	Ph	H	H	F	H	H	H	H	H	F
(III)－2452	O	3	H	Ph	H	H	H	F	F	H	H	H	H
(III)－2453	O	3	H	Ph	H	H	H	F	H	F	H	H	H
(III)－2454	O	3	H	Ph	H	H	H	F	H	H	F	H	H
(III)－2455	O	3	H	Ph	H	H	H	F	H	H	H	F	H
(III)－2456	O	3	H	Ph	H	H	H	F	H	H	H	H	F
(III)－2457	O	3	H	Ph	H	H	H	H	F	F	H	H	H
(III)－2458	O	3	H	Ph	H	H	H	H	F	H	F	H	H
(III)－2459	O	3	H	Ph	H	H	H	H	F	H	H	F	H
(III)－2460	O	3	H	Ph	H	H	H	H	F	H	H	H	F

【表１３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2461	O	3	H	Ph	H	H	H	H	H	F	F	H	H
(III)－2462	O	3	H	Ph	H	H	H	H	H	F	H	F	H
(III)－2463	O	3	H	Ph	H	H	H	H	H	F	H	H	F
(III)－2464	O	3	H	Ph	H	H	H	H	H	H	F	F	H
(III)－2465	O	3	H	Ph	H	H	H	H	H	H	F	H	F
(III)－2466	O	3	H	Ph	H	H	H	H	H	H	H	F	F
(III)－2467	O	3	F	Tol	H	H	H	H	H	H	H	H	H
(III)－2468	O	3	H	Tol	F	H	H	H	H	H	H	H	H
(III)－2469	O	3	H	Tol	H	F	H	H	H	H	H	H	H
(III)－2470	O	3	H	Tol	H	H	F	H	H	H	H	H	H
(III)－2471	O	3	H	Tol	H	H	H	F	H	H	H	H	H
(III)－2472	O	3	H	Tol	H	H	H	H	F	H	H	H	H
(III)－2473	O	3	H	Tol	H	H	H	H	H	F	H	H	H
(III)－2474	O	3	H	Tol	H	H	H	H	H	H	F	H	H
(III)－2475	O	3	H	Tol	H	H	H	H	H	H	H	F	H
(III)－2476	O	3	H	Tol	H	H	H	H	H	H	H	H	F
(III)－2477	O	3	F	Tol	F	H	H	H	H	H	H	H	H
(III)－2478	O	3	F	Tol	H	F	H	H	H	H	H	H	H
(III)－2479	O	3	F	Tol	H	H	F	H	H	H	H	H	H
(III)－2480	O	3	F	Tol	H	H	H	F	H	H	H	H	H
(III)－2481	O	3	F	Tol	H	H	H	H	F	H	H	H	H
(III)－2482	O	3	F	Tol	H	H	H	H	H	F	H	H	H
(III)－2483	O	3	F	Tol	H	H	H	H	H	H	F	H	H
(III)－2484	O	3	F	Tol	H	H	H	H	H	H	H	F	H
(III)－2485	O	3	F	Tol	H	H	H	H	H	H	H	H	F
(III)－2486	O	3	H	Tol	F	F	H	H	H	H	H	H	H
(III)－2487	O	3	H	Tol	F	H	F	H	H	H	H	H	H
(III)－2488	O	3	H	Tol	F	H	H	F	H	H	H	H	H
(III)－2489	O	3	H	Tol	F	H	H	H	F	H	H	H	H
(III)－2490	O	3	H	Tol	F	H	H	H	H	F	H	H	H
(III)－2491	O	3	H	Tol	F	H	H	H	H	H	F	H	H
(III)－2492	O	3	H	Tol	F	H	H	H	H	H	H	F	H
(III)－2493	O	3	H	Tol	F	H	H	H	H	H	H	H	F
(III)－2494	O	3	H	Tol	H	F	F	H	H	H	H	H	H
(III)－2495	O	3	H	Tol	H	F	H	F	H	H	H	H	H
(III)－2496	O	3	H	Tol	H	F	H	H	F	H	H	H	H
(III)－2497	O	3	H	Tol	H	F	H	H	H	F	H	H	H
(III)－2498	O	3	H	Tol	H	F	H	H	H	H	F	H	H
(III)－2499	O	3	H	Tol	H	F	H	H	H	H	H	F	H
(III)－2500	O	3	H	Tol	H	F	H	H	H	H	H	H	F
(III)－2501	O	3	H	Tol	H	H	F	F	H	H	H	H	H
(III)－2502	O	3	H	Tol	H	H	F	H	F	H	H	H	H
(III)－2503	O	3	H	Tol	H	H	F	H	H	F	H	H	H
(III)－2504	O	3	H	Tol	H	H	F	H	H	H	F	H	H
(III)－2505	O	3	H	Tol	H	H	F	H	H	H	H	F	H
(III)－2506	O	3	H	Tol	H	H	F	H	H	H	H	H	F
(III)－2507	O	3	H	Tol	H	H	H	F	F	H	H	H	H
(III)－2508	O	3	H	Tol	H	H	H	F	H	F	H	H	H
(III)－2509	O	3	H	Tol	H	H	H	F	H	H	F	H	H
(III)－2510	O	3	H	Tol	H	H	H	F	H	H	H	F	H
(III)－2511	O	3	H	Tol	H	H	H	F	H	H	H	H	F
(III)－2512	O	3	H	Tol	H	H	H	H	F	F	H	H	H
(III)－2513	O	3	H	Tol	H	H	H	H	F	H	F	H	H
(III)－2514	O	3	H	Tol	H	H	H	H	F	H	H	F	H
(III)－2515	O	3	H	Tol	H	H	H	H	F	H	H	H	F
(III)－2516	O	3	H	Tol	H	H	H	H	H	F	F	H	H
(III)－2517	O	3	H	Tol	H	H	H	H	H	F	H	F	H
(III)－2518	O	3	H	Tol	H	H	H	H	H	F	H	H	F
(III)－2519	O	3	H	Tol	H	H	H	H	H	H	F	F	H
(III)－2520	O	3	H	Tol	H	H	H	H	H	H	F	H	F

【表１４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2521	O	3	H	Tol	H	H	H	H	H	H	H	F	F
(III)－2522	O	3	F	Phen	H	H	H	H	H	H	H	H	H
(III)－2523	O	3	H	Phen	F	H	H	H	H	H	H	H	H
(III)－2524	O	3	H	Phen	H	F	H	H	H	H	H	H	H
(III)－2525	O	3	H	Phen	H	H	F	H	H	H	H	H	H
(III)－2526	O	3	H	Phen	H	H	H	F	H	H	H	H	H
(III)－2527	O	3	H	Phen	H	H	H	H	F	H	H	H	H
(III)－2528	O	3	H	Phen	H	H	H	H	H	F	H	H	H
(III)－2529	O	3	H	Phen	H	H	H	H	H	H	F	H	H
(III)－2530	O	3	H	Phen	H	H	H	H	H	H	H	F	H
(III)－2531	O	3	H	Phen	H	H	H	H	H	H	H	H	F
(III)－2532	O	3	F	Phen	F	H	H	H	H	H	H	H	H
(III)－2533	O	3	F	Phen	H	F	H	H	H	H	H	H	H
(III)－2534	O	3	F	Phen	H	H	F	H	H	H	H	H	H
(III)－2535	O	3	F	Phen	H	H	H	F	H	H	H	H	H
(III)－2536	O	3	F	Phen	H	H	H	H	F	H	H	H	H
(III)－2537	O	3	F	Phen	H	H	H	H	H	F	H	H	H
(III)－2538	O	3	F	Phen	H	H	H	H	H	H	F	H	H
(III)－2539	O	3	F	Phen	H	H	H	H	H	H	H	F	H
(III)－2540	O	3	F	Phen	H	H	H	H	H	H	H	H	F
(III)－2541	O	3	H	Phen	F	F	H	H	H	H	H	H	H
(III)－2542	O	3	H	Phen	F	H	F	H	H	H	H	H	H
(III)－2543	O	3	H	Phen	F	H	H	F	H	H	H	H	H
(III)－2544	O	3	H	Phen	F	H	H	H	F	H	H	H	H
(III)－2545	O	3	H	Phen	F	H	H	H	H	F	H	H	H
(III)－2546	O	3	H	Phen	F	H	H	H	H	H	F	H	H
(III)－2547	O	3	H	Phen	F	H	H	H	H	H	H	F	H
(III)－2548	O	3	H	Phen	F	H	H	H	H	H	H	H	F
(III)－2549	O	3	H	Phen	H	F	F	H	H	H	H	H	H
(III)－2550	O	3	H	Phen	H	F	H	F	H	H	H	H	H
(III)－2551	O	3	H	Phen	H	F	H	H	F	H	H	H	H
(III)－2552	O	3	H	Phen	H	F	H	H	H	F	H	H	H
(III)－2553	O	3	H	Phen	H	F	H	H	H	H	F	H	H
(III)－2554	O	3	H	Phen	H	F	H	H	H	H	H	F	H
(III)－2555	O	3	H	Phen	H	F	H	H	H	H	H	H	F
(III)－2556	O	3	H	Phen	H	H	F	F	H	H	H	H	H
(III)－2557	O	3	H	Phen	H	H	F	H	F	H	H	H	H
(III)－2558	O	3	H	Phen	H	H	F	H	H	F	H	H	H
(III)－2559	O	3	H	Phen	H	H	F	H	H	H	F	H	H
(III)－2560	O	3	H	Phen	H	H	F	H	H	H	H	F	H
(III)－2561	O	3	H	Phen	H	H	F	H	H	H	H	H	F
(III)－2562	O	3	H	Phen	H	H	H	F	F	H	H	H	H
(III)－2563	O	3	H	Phen	H	H	H	F	H	F	H	H	H
(III)－2564	O	3	H	Phen	H	H	H	F	H	H	F	H	H
(III)－2565	O	3	H	Phen	H	H	H	F	H	H	H	F	H
(III)－2566	O	3	H	Phen	H	H	H	F	H	H	H	H	F
(III)－2567	O	3	H	Phen	H	H	H	H	F	F	H	H	H
(III)－2568	O	3	H	Phen	H	H	H	H	F	H	F	H	H
(III)－2569	O	3	H	Phen	H	H	H	H	F	H	H	F	H
(III)－2570	O	3	H	Phen	H	H	H	H	F	H	H	H	F
(III)－2571	O	3	H	Phen	H	H	H	H	H	F	F	H	H
(III)－2572	O	3	H	Phen	H	H	H	H	H	F	H	F	H
(III)－2573	O	3	H	Phen	H	H	H	H	H	F	H	H	F
(III)－2574	O	3	H	Phen	H	H	H	H	H	H	F	F	H
(III)－2575	O	3	H	Phen	H	H	H	H	H	H	F	H	F
(III)－2576	O	3	H	Phen	H	H	H	H	H	H	H	F	F
(III)－2577	S	3	F	H	H	H	H	H	H	H	H	H	H
(III)－2578	S	3	H	F	H	H	H	H	H	H	H	H	H
(III)－2579	S	3	H	H	F	H	H	H	H	H	H	H	H
(III)－2580	S	3	H	H	H	F	H	H	H	H	H	H	H

【表１４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2581	S	3	H	H	H	H	F	H	H	H	H	H	H
(III)－2582	S	3	H	H	H	H	H	F	H	H	H	H	H
(III)－2583	S	3	H	H	H	H	H	H	F	H	H	H	H
(III)－2584	S	3	H	H	H	H	H	H	H	F	H	H	H
(III)－2585	S	3	H	H	H	H	H	H	H	H	F	H	H
(III)－2586	S	3	H	H	H	H	H	H	H	H	H	F	H
(III)－2587	S	3	H	H	H	H	H	H	H	H	H	H	F
(III)－2588	S	3	F	F	H	H	H	H	H	H	H	H	H
(III)－2589	S	3	F	H	F	H	H	H	H	H	H	H	H
(III)－2590	S	3	F	H	H	F	H	H	H	H	H	H	H
(III)－2591	S	3	F	H	H	H	F	H	H	H	H	H	H
(III)－2592	S	3	F	H	H	H	H	F	H	H	H	H	H
(III)－2593	S	3	F	H	H	H	H	H	F	H	H	H	H
(III)－2594	S	3	F	H	H	H	H	H	H	F	H	H	H
(III)－2595	S	3	F	H	H	H	H	H	H	H	F	H	H
(III)－2596	S	3	F	H	H	H	H	H	H	H	H	F	H
(III)－2597	S	3	F	H	H	H	H	H	H	H	H	H	F
(III)－2598	S	3	H	F	F	H	H	H	H	H	H	H	H
(III)－2599	S	3	H	F	H	F	H	H	H	H	H	H	H
(III)－2600	S	3	H	F	H	H	F	H	H	H	H	H	H
(III)－2601	S	3	H	F	H	H	H	F	H	H	H	H	H
(III)－2602	S	3	H	F	H	H	H	H	F	H	H	H	H
(III)－2603	S	3	H	F	H	H	H	H	H	F	H	H	H
(III)－2604	S	3	H	F	H	H	H	H	H	H	F	H	H
(III)－2605	S	3	H	F	H	H	H	H	H	H	H	F	H
(III)－2606	S	3	H	F	H	H	H	H	H	H	H	H	F
(III)－2607	S	3	H	H	F	F	H	H	H	H	H	H	H
(III)－2608	S	3	H	H	F	H	F	H	H	H	H	H	H
(III)－2609	S	3	H	H	F	H	H	F	H	H	H	H	H
(III)－2610	S	3	H	H	F	H	H	H	F	H	H	H	H
(III)－2611	S	3	H	H	F	H	H	H	H	F	H	H	H
(III)－2612	S	3	H	H	F	H	H	H	H	H	F	H	H
(III)－2613	S	3	H	H	F	H	H	H	H	H	H	F	H
(III)－2614	S	3	H	H	F	H	H	H	H	H	H	H	F
(III)－2615	S	3	H	H	H	F	F	H	H	H	H	H	H
(III)－2616	S	3	H	H	H	F	H	F	H	H	H	H	H
(III)－2617	S	3	H	H	H	F	H	H	F	H	H	H	H
(III)－2618	S	3	H	H	H	F	H	H	H	F	H	H	H
(III)－2619	S	3	H	H	H	F	H	H	H	H	F	H	H
(III)－2620	S	3	H	H	H	F	H	H	H	H	H	F	H
(III)－2621	S	3	H	H	H	F	H	H	H	H	H	H	F
(III)－2622	S	3	H	H	H	H	F	F	H	H	H	H	H
(III)－2623	S	3	H	H	H	H	F	H	F	H	H	H	H
(III)－2624	S	3	H	H	H	H	F	H	H	F	H	H	H
(III)－2625	S	3	H	H	H	H	F	H	H	H	F	H	H
(III)－2626	S	3	H	H	H	H	F	H	H	H	H	F	H
(III)－2627	S	3	H	H	H	H	F	H	H	H	H	H	F
(III)－2628	S	3	H	H	H	H	H	F	F	H	H	H	H
(III)－2629	S	3	H	H	H	H	H	F	H	F	H	H	H
(III)－2630	S	3	H	H	H	H	H	F	H	H	F	H	H
(III)－2631	S	3	H	H	H	H	H	F	H	H	H	F	H
(III)－2632	S	3	H	H	H	H	H	F	H	H	H	H	F
(III)－2633	S	3	H	H	H	H	H	H	F	F	H	H	H
(III)－2634	S	3	H	H	H	H	H	H	F	H	F	H	H
(III)－2635	S	3	H	H	H	H	H	H	F	H	H	F	H
(III)－2636	S	3	H	H	H	H	H	H	F	H	H	H	F
(III)－2637	S	3	H	H	H	H	H	H	H	F	F	H	H
(III)－2638	S	3	H	H	H	H	H	H	H	F	H	F	H
(III)－2639	S	3	H	H	H	H	H	H	H	F	H	H	F
(III)－2640	S	3	H	H	H	H	H	H	H	H	F	F	H

【表１４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2641	S	3	H	H	H	H	H	H	H	H	F	H	F
(III)－2642	S	3	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－2643	S	3	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－2644	S	3	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－2645	S	3	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－2646	S	3	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－2647	S	3	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－2648	S	3	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－2649	S	3	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－2650	S	3	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－2651	S	3	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－2652	S	3	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－2653	S	3	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－2654	S	3	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－2655	S	3	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－2656	S	3	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－2657	S	3	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－2658	S	3	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－2659	S	3	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－2660	S	3	H	CH_3	H	H	H	H	H	H	H	F	H
(III)－2661	S	3	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－2662	S	3	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－2663	S	3	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－2664	S	3	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－2665	S	3	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－2666	S	3	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－2667	S	3	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2668	S	3	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2669	S	3	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－2670	S	3	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－2671	S	3	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－2672	S	3	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－2673	S	3	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－2674	S	3	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－2675	S	3	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－2676	S	3	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－2677	S	3	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－2678	S	3	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－2679	S	3	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－2680	S	3	H	H	H	H	CH_3	H	H	F	H	H	H
(III)－2681	S	3	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－2682	S	3	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－2683	S	3	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－2684	S	3	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－2685	S	3	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－2686	S	3	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－2687	S	3	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－2688	S	3	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－2689	S	3	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－2690	S	3	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－2691	S	3	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－2692	S	3	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－2693	S	3	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－2694	S	3	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－2695	S	3	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－2696	S	3	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－2697	S	3	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－2698	S	3	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－2699	S	3	H	Ph	H	H	H	H	H	H	H	H	H
(III)－2700	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H

【表１４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2701	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－2702	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－2703	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－2704	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－2705	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－2706	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－2707	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－2708	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－2709	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－2710	S	3	H	Tol	H	H	H	H	H	H	H	H	H
(III)－2711	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－2712	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－2713	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－2714	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－2715	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－2716	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－2717	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－2718	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－2719	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－2720	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3
(III)－2721	S	3	H	Phen	H	H	H	H	H	H	H	H	H
(III)－2722	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－2723	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－2724	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－2725	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－2726	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－2727	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－2728	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－2729	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－2730	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－2731	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－2732	S	3	F	Ph	H	H	H	H	H	H	H	H	H
(III)－2733	S	3	H	Ph	F	H	H	H	H	H	H	H	H
(III)－2734	S	3	H	Ph	H	F	H	H	H	H	H	H	H
(III)－2735	S	3	H	Ph	H	H	F	H	H	H	H	H	H
(III)－2736	S	3	H	Ph	H	H	H	F	H	H	H	H	H
(III)－2737	S	3	H	Ph	H	H	H	H	F	H	H	H	H
(III)－2738	S	3	H	Ph	H	H	H	H	H	F	H	H	H
(III)－2739	S	3	H	Ph	H	H	H	H	H	H	F	H	H
(III)－2740	S	3	H	Ph	H	H	H	H	H	H	H	F	H
(III)－2741	S	3	H	Ph	H	H	H	H	H	H	H	H	F
(III)－2742	S	3	F	Ph	F	H	H	H	H	H	H	H	H
(III)－2743	S	3	F	Ph	H	F	H	H	H	H	H	H	H
(III)－2744	S	3	F	Ph	H	H	F	H	H	H	H	H	H
(III)－2745	S	3	F	Ph	H	H	H	F	H	H	H	H	H
(III)－2746	S	3	F	Ph	H	H	H	H	F	H	H	H	H
(III)－2747	S	3	F	Ph	H	H	H	H	H	F	H	H	H
(III)－2748	S	3	F	Ph	H	H	H	H	H	H	F	H	H
(III)－2749	S	3	F	Ph	H	H	H	H	H	H	H	F	H
(III)－2750	S	3	F	Ph	H	H	H	H	H	H	H	H	F
(III)－2751	S	3	H	Ph	F	F	H	H	H	H	H	H	H
(III)－2752	S	3	H	Ph	F	H	F	H	H	H	H	H	H
(III)－2753	S	3	H	Ph	F	H	H	F	H	H	H	H	H
(III)－2754	S	3	H	Ph	F	H	H	H	F	H	H	H	H
(III)－2755	S	3	H	Ph	F	H	H	H	H	F	H	H	H
(III)－2756	S	3	H	Ph	F	H	H	H	H	H	F	H	H
(III)－2757	S	3	H	Ph	F	H	H	H	H	H	H	F	H
(III)－2758	S	3	H	Ph	F	H	H	H	H	H	H	H	F
(III)－2759	S	3	H	Ph	H	F	F	H	H	H	H	H	H
(III)－2760	S	3	H	Ph	H	F	H	F	H	H	H	H	H

【表１４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2761	S	3	H	Ph	H	F	H	H	F	H	H	H	H
(III)－2762	S	3	H	Ph	H	F	H	H	H	F	H	H	H
(III)－2763	S	3	H	Ph	H	F	H	H	H	H	F	H	H
(III)－2764	S	3	H	Ph	H	F	H	H	H	H	H	F	H
(III)－2765	S	3	H	Ph	H	F	H	H	H	H	H	H	F
(III)－2766	S	3	H	Ph	H	H	F	F	H	H	H	H	H
(III)－2767	S	3	H	Ph	H	H	F	H	F	H	H	H	H
(III)－2768	S	3	H	Ph	H	H	F	H	H	F	H	H	H
(III)－2769	S	3	H	Ph	H	H	F	H	H	H	F	H	H
(III)－2770	S	3	H	Ph	H	H	F	H	H	H	H	F	H
(III)－2771	S	3	H	Ph	H	H	F	H	H	H	H	H	F
(III)－2772	S	3	H	Ph	H	H	H	F	F	H	H	H	H
(III)－2773	S	3	H	Ph	H	H	H	F	H	F	H	H	H
(III)－2774	S	3	H	Ph	H	H	H	F	H	H	F	H	H
(III)－2775	S	3	H	Ph	H	H	H	F	H	H	H	F	H
(III)－2776	S	3	H	Ph	H	H	H	F	H	H	H	H	F
(III)－2777	S	3	H	Ph	H	H	H	H	F	F	H	H	H
(III)－2778	S	3	H	Ph	H	H	H	H	F	H	F	H	H
(III)－2779	S	3	H	Ph	H	H	H	H	F	H	H	F	H
(III)－2780	S	3	H	Ph	H	H	H	H	F	H	H	H	F
(III)－2781	S	3	H	Ph	H	H	H	H	H	F	F	H	H
(III)－2782	S	3	H	Ph	H	H	H	H	H	F	H	F	H
(III)－2783	S	3	H	Ph	H	H	H	H	H	F	H	H	F
(III)－2784	S	3	H	Ph	H	H	H	H	H	H	F	F	H
(III)－2785	S	3	H	Ph	H	H	H	H	H	H	F	H	F
(III)－2786	S	3	H	Ph	H	H	H	H	H	H	H	F	F
(III)－2787	S	3	F	Tol	H	H	H	H	H	H	H	H	H
(III)－2788	S	3	H	Tol	F	H	H	H	H	H	H	H	H
(III)－2789	S	3	H	Tol	H	F	H	H	H	H	H	H	H
(III)－2790	S	3	H	Tol	H	H	F	H	H	H	H	H	H
(III)－2791	S	3	H	Tol	H	H	H	F	H	H	H	H	H
(III)－2792	S	3	H	Tol	H	H	H	H	F	H	H	H	H
(III)－2793	S	3	H	Tol	H	H	H	H	H	F	H	H	H
(III)－2794	S	3	H	Tol	H	H	H	H	H	H	F	H	H
(III)－2795	S	3	H	Tol	H	H	H	H	H	H	H	F	H
(III)－2796	S	3	H	Tol	H	H	H	H	H	H	H	H	F
(III)－2797	S	3	F	Tol	F	H	H	H	H	H	H	H	H
(III)－2798	S	3	F	Tol	H	F	H	H	H	H	H	H	H
(III)－2799	S	3	F	Tol	H	H	F	H	H	H	H	H	H
(III)－2800	S	3	F	Tol	H	H	H	F	H	H	H	H	H
(III)－2801	S	3	F	Tol	H	H	H	H	F	H	H	H	H
(III)－2802	S	3	F	Tol	H	H	H	H	H	F	H	H	H
(III)－2803	S	3	F	Tol	H	H	H	H	H	H	F	H	H
(III)－2804	S	3	F	Tol	H	H	H	H	H	H	H	F	H
(III)－2805	S	3	F	Tol	H	H	H	H	H	H	H	H	F
(III)－2806	S	3	H	Tol	F	F	H	H	H	H	H	H	H
(III)－2807	S	3	H	Tol	F	H	F	H	H	H	H	H	H
(III)－2808	S	3	H	Tol	F	H	H	F	H	H	H	H	H
(III)－2809	S	3	H	Tol	F	H	H	H	F	H	H	H	H
(III)－2810	S	3	H	Tol	F	H	H	H	H	F	H	H	H
(III)－2811	S	3	H	Tol	F	H	H	H	H	H	F	H	H
(III)－2812	S	3	H	Tol	F	H	H	H	H	H	H	F	H
(III)－2813	S	3	H	Tol	F	H	H	H	H	H	H	H	F
(III)－2814	S	3	H	Tol	H	F	F	H	H	H	H	H	H
(III)－2815	S	3	H	Tol	H	F	H	F	H	H	H	H	H
(III)－2816	S	3	H	Tol	H	F	H	H	F	H	H	H	H
(III)－2817	S	3	H	Tol	H	F	H	H	H	F	H	H	H
(III)－2818	S	3	H	Tol	H	F	H	H	H	H	F	H	H
(III)－2819	S	3	H	Tol	H	F	H	H	H	H	H	F	H
(III)－2820	S	3	H	Tol	H	F	H	H	H	H	H	H	F

【表１４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2821	S	3	H	Tol	H	H	F	F	H	H	H	H	H
(III)－2822	S	3	H	Tol	H	H	F	H	F	H	H	H	H
(III)－2823	S	3	H	Tol	H	H	F	H	H	F	H	H	H
(III)－2824	S	3	H	Tol	H	H	F	H	H	H	F	H	H
(III)－2825	S	3	H	Tol	H	H	F	H	H	H	H	F	H
(III)－2826	S	3	H	Tol	H	H	F	H	H	H	H	H	F
(III)－2827	S	3	H	Tol	H	H	H	F	F	H	H	H	H
(III)－2828	S	3	H	Tol	H	H	H	F	H	F	H	H	H
(III)－2829	S	3	H	Tol	H	H	H	F	H	H	F	H	H
(III)－2830	S	3	H	Tol	H	H	H	F	H	H	H	F	H
(III)－2831	S	3	H	Tol	H	H	H	F	H	H	H	H	F
(III)－2832	S	3	H	Tol	H	H	H	H	F	F	H	H	H
(III)－2833	S	3	H	Tol	H	H	H	H	F	H	F	H	H
(III)－2834	S	3	H	Tol	H	H	H	H	F	H	H	F	H
(III)－2835	S	3	H	Tol	H	H	H	H	F	H	H	H	F
(III)－2836	S	3	H	Tol	H	H	H	H	H	F	F	H	H
(III)－2837	S	3	H	Tol	H	H	H	H	H	F	H	F	H
(III)－2838	S	3	H	Tol	H	H	H	H	H	F	H	H	F
(III)－2839	S	3	H	Tol	H	H	H	H	H	H	F	F	H
(III)－2840	S	3	H	Tol	H	H	H	H	H	H	F	H	F
(III)－2841	S	3	H	Tol	H	H	H	H	H	H	H	F	F
(III)－2842	S	3	F	Phen	H	H	H	H	H	H	H	H	H
(III)－2843	S	3	H	Phen	F	H	H	H	H	H	H	H	H
(III)－2844	S	3	H	Phen	H	F	H	H	H	H	H	H	H
(III)－2845	S	3	H	Phen	H	H	F	H	H	H	H	H	H
(III)－2846	S	3	H	Phen	H	H	H	F	H	H	H	H	H
(III)－2847	S	3	H	Phen	H	H	H	H	F	H	H	H	H
(III)－2848	S	3	H	Phen	H	H	H	H	H	F	H	H	H
(III)－2849	S	3	H	Phen	H	H	H	H	H	H	F	H	H
(III)－2850	S	3	H	Phen	H	H	H	H	H	H	H	F	H
(III)－2851	S	3	H	Phen	H	H	H	H	H	H	H	H	F
(III)－2852	S	3	F	Phen	F	H	H	H	H	H	H	H	H
(III)－2853	S	3	F	Phen	H	F	H	H	H	H	H	H	H
(III)－2854	S	3	F	Phen	H	H	F	H	H	H	H	H	H
(III)－2855	S	3	F	Phen	H	H	H	F	H	H	H	H	H
(III)－2856	S	3	F	Phen	H	H	H	H	F	H	H	H	H
(III)－2857	S	3	F	Phen	H	H	H	H	H	F	H	H	H
(III)－2858	S	3	F	Phen	H	H	H	H	H	H	F	H	H
(III)－2859	S	3	F	Phen	H	H	H	H	H	H	H	F	H
(III)－2860	S	3	F	Phen	H	H	H	H	H	H	H	H	F
(III)－2861	S	3	H	Phen	F	F	H	H	H	H	H	H	H
(III)－2862	S	3	H	Phen	F	H	F	H	H	H	H	H	H
(III)－2863	S	3	H	Phen	F	H	H	F	H	H	H	H	H
(III)－2864	S	3	H	Phen	F	H	H	H	F	H	H	H	H
(III)－2865	S	3	H	Phen	F	H	H	H	H	F	H	H	H
(III)－2866	S	3	H	Phen	F	H	H	H	H	H	F	H	H
(III)－2867	S	3	H	Phen	F	H	H	H	H	H	H	F	H
(III)－2868	S	3	H	Phen	F	H	H	H	H	H	H	H	F
(III)－2869	S	3	H	Phen	H	F	F	H	H	H	H	H	H
(III)－2870	S	3	H	Phen	H	F	H	F	H	H	H	H	H
(III)－2871	S	3	H	Phen	H	F	H	H	F	H	H	H	H
(III)－2872	S	3	H	Phen	H	F	H	H	H	F	H	H	H
(III)－2873	S	3	H	Phen	H	F	H	H	H	H	F	H	H
(III)－2874	S	3	H	Phen	H	F	H	H	H	H	H	F	H
(III)－2875	S	3	H	Phen	H	F	H	H	H	H	H	H	F
(III)－2876	S	3	H	Phen	H	H	F	F	H	H	H	H	H
(III)－2877	S	3	H	Phen	H	H	F	H	F	H	H	H	H
(III)－2878	S	3	H	Phen	H	H	F	H	H	F	H	H	H
(III)－2879	S	3	H	Phen	H	H	F	H	H	H	F	H	H
(III)－2880	S	3	H	Phen	H	H	F	H	H	H	H	F	H

【表１４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2881	S	3	H	Phen	H	H	F	H	H	H	H	H	F
(III)－2882	S	3	H	Phen	H	H	H	F	F	H	H	H	H
(III)－2883	S	3	H	Phen	H	H	H	F	H	F	H	H	H
(III)－2884	S	3	H	Phen	H	H	H	F	H	H	F	H	H
(III)－2885	S	3	H	Phen	H	H	H	F	H	H	H	F	H
(III)－2886	S	3	H	Phen	H	H	H	F	H	H	H	H	F
(III)－2887	S	3	H	Phen	H	H	H	H	F	F	H	H	H
(III)－2888	S	3	H	Phen	H	H	H	H	F	H	F	H	H
(III)－2889	S	3	H	Phen	H	H	H	H	F	H	H	F	H
(III)－2890	S	3	H	Phen	H	H	H	H	F	H	H	H	F
(III)－2891	S	3	H	Phen	H	H	H	H	H	F	F	H	H
(III)－2892	S	3	H	Phen	H	H	H	H	H	F	H	F	H
(III)－2893	S	3	H	Phen	H	H	H	H	H	F	H	H	F
(III)－2894	S	3	H	Phen	H	H	H	H	H	H	F	F	H
(III)－2895	S	3	H	Phen	H	H	H	H	H	H	F	H	F
(III)－2896	S	3	H	Phen	H	H	H	H	H	H	H	F	F
(III)－2897	O	4	F	H	H	H	H	H	H	H	H	H	H
(III)－2898	O	4	H	F	H	H	H	H	H	H	H	H	H
(III)－2899	O	4	H	H	F	H	H	H	H	H	H	H	H
(III)－2900	O	4	H	H	H	F	H	H	H	H	H	H	H
(III)－2901	O	4	H	H	H	H	F	H	H	H	H	H	H
(III)－2902	O	4	H	H	H	H	H	F	H	H	H	H	H
(III)－2903	O	4	H	H	H	H	H	H	F	H	H	H	H
(III)－2904	O	4	H	H	H	H	H	H	H	F	H	H	H
(III)－2905	O	4	H	H	H	H	H	H	H	H	F	H	H
(III)－2906	O	4	H	H	H	H	H	H	H	H	H	F	H
(III)－2907	O	4	H	H	H	H	H	H	H	H	H	H	F
(III)－2908	O	4	F	F	H	H	H	H	H	H	H	H	H
(III)－2909	O	4	F	H	F	H	H	H	H	H	H	H	H
(III)－2910	O	4	F	H	H	F	H	H	H	H	H	H	H
(III)－2911	O	4	F	H	H	H	F	H	H	H	H	H	H
(III)－2912	O	4	F	H	H	H	H	F	H	H	H	H	H
(III)－2913	O	4	F	H	H	H	H	H	F	H	H	H	H
(III)－2914	O	4	F	H	H	H	H	H	H	F	H	H	H
(III)－2915	O	4	F	H	H	H	H	H	H	H	F	H	H
(III)－2916	O	4	F	H	H	H	H	H	H	H	H	F	H
(III)－2917	O	4	F	H	H	H	H	H	H	H	H	H	F
(III)－2918	O	4	H	F	F	H	H	H	H	H	H	H	H
(III)－2919	O	4	H	F	H	F	H	H	H	H	H	H	H
(III)－2920	O	4	H	F	H	H	F	H	H	H	H	H	H
(III)－2921	O	4	H	F	H	H	H	F	H	H	H	H	H
(III)－2922	O	4	H	F	H	H	H	H	F	H	H	H	H
(III)－2923	O	4	H	F	H	H	H	H	H	F	H	H	H
(III)－2924	O	4	H	F	H	H	H	H	H	H	F	H	H
(III)－2925	O	4	H	F	H	H	H	H	H	H	H	F	H
(III)－2926	O	4	H	F	H	H	H	H	H	H	H	H	F
(III)－2927	O	4	H	H	F	F	H	H	H	H	H	H	H
(III)－2928	O	4	H	H	F	H	F	H	H	H	H	H	H
(III)－2929	O	4	H	H	F	H	H	F	H	H	H	H	H
(III)－2930	O	4	H	H	F	H	H	H	F	H	H	H	H
(III)－2931	O	4	H	H	F	H	H	H	H	F	H	H	H
(III)－2932	O	4	H	H	F	H	H	H	H	H	F	H	H
(III)－2933	O	4	H	H	F	H	H	H	H	H	H	F	H
(III)－2934	O	4	H	H	F	H	H	H	H	H	H	H	F
(III)－2935	O	4	H	H	H	F	F	H	H	H	H	H	H
(III)－2936	O	4	H	H	H	F	H	F	H	H	H	H	H
(III)－2937	O	4	H	H	H	F	H	H	F	H	H	H	H
(III)－2938	O	4	H	H	H	F	H	H	H	F	H	H	H
(III)－2939	O	4	H	H	H	F	H	H	H	H	F	H	H
(III)－2940	O	4	H	H	H	F	H	H	H	H	H	F	H

【表１４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－2941	O	4	H	H	H	F	H	H	H	H	H	H	F
(III)－2942	O	4	H	H	H	H	F	F	H	H	H	H	H
(III)－2943	O	4	H	H	H	H	F	H	F	H	H	H	H
(III)－2944	O	4	H	H	H	H	F	H	H	F	H	H	H
(III)－2945	O	4	H	H	H	H	F	H	H	H	F	H	H
(III)－2946	O	4	H	H	H	H	F	H	H	H	H	F	H
(III)－2947	O	4	H	H	H	H	F	H	H	H	H	H	F
(III)－2948	O	4	H	H	H	H	H	F	F	H	H	H	H
(III)－2949	O	4	H	H	H	H	H	F	H	F	H	H	H
(III)－2950	O	4	H	H	H	H	H	F	H	H	F	H	H
(III)－2951	O	4	H	H	H	H	H	F	H	H	H	F	H
(III)－2952	O	4	H	H	H	H	H	F	H	H	H	H	F
(III)－2953	O	4	H	H	H	H	H	H	F	F	H	H	H
(III)－2954	O	4	H	H	H	H	H	H	F	H	F	H	H
(III)－2955	O	4	H	H	H	H	H	H	F	H	H	F	H
(III)－2956	O	4	H	H	H	H	H	H	F	H	H	H	F
(III)－2957	O	4	H	H	H	H	H	H	H	F	F	H	H
(III)－2958	O	4	H	H	H	H	H	H	H	F	H	F	H
(III)－2959	O	4	H	H	H	H	H	H	H	F	H	H	F
(III)－2960	O	4	H	H	H	H	H	H	H	H	F	F	H
(III)－2961	O	4	H	H	H	H	H	H	H	H	F	H	F
(III)－2962	O	4	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－2963	O	4	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－2964	O	4	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－2965	O	4	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－2966	O	4	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－2967	O	4	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－2968	O	4	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－2969	O	4	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－2970	O	4	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－2971	O	4	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－2972	O	4	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－2973	O	4	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－2974	O	4	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－2975	O	4	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－2976	O	4	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－2977	O	4	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－2978	O	4	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－2979	O	4	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－2980	O	4	H	CH_3	H	H	H	H	H	H	H	F	H
(III)－2981	O	4	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－2982	O	4	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－2983	O	4	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－2984	O	4	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－2985	O	4	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－2986	O	4	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－2987	O	4	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2988	O	4	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－2989	O	4	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－2990	O	4	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－2991	O	4	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－2992	O	4	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－2993	O	4	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－2994	O	4	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－2995	O	4	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－2996	O	4	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－2997	O	4	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－2998	O	4	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－2999	O	4	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－3000	O	4	H	H	H	H	CH_3	H	H	F	H	H	H

【表１４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3001	O	4	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－3002	O	4	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－3003	O	4	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－3004	O	4	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－3005	O	4	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－3006	O	4	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－3007	O	4	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－3008	O	4	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－3009	O	4	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－3010	O	4	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－3011	O	4	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－3012	O	4	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－3013	O	4	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－3014	O	4	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－3015	O	4	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－3016	O	4	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－3017	O	4	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－3018	O	4	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－3019	O	4	H	Ph	H	H	H	H	H	H	H	H	H
(III)－3020	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－3021	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－3022	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－3023	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－3024	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－3025	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－3026	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－3027	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－3028	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－3029	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－3030	O	4	H	Tol	H	H	H	H	H	H	H	H	H
(III)－3031	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－3032	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－3033	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－3034	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－3035	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－3036	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－3037	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－3038	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－3039	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－3040	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3
(III)－3041	O	4	H	Phen	H	H	H	H	H	H	H	H	H
(III)－3042	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－3043	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－3044	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－3045	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－3046	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－3047	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－3048	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－3049	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－3050	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－3051	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－3052	O	4	F	Ph	H	H	H	H	H	H	H	H	H
(III)－3053	O	4	H	Ph	F	H	H	H	H	H	H	H	H
(III)－3054	O	4	H	Ph	H	F	H	H	H	H	H	H	H
(III)－3055	O	4	H	Ph	H	H	F	H	H	H	H	H	H
(III)－3056	O	4	H	Ph	H	H	H	F	H	H	H	H	H
(III)－3057	O	4	H	Ph	H	H	H	H	F	H	H	H	H
(III)－3058	O	4	H	Ph	H	H	H	H	H	F	H	H	H
(III)－3059	O	4	H	Ph	H	H	H	H	H	H	F	H	H
(III)－3060	O	4	H	Ph	H	H	H	H	H	H	H	F	H

【表１４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3061	O	4	H	Ph	H	H	H	H	H	H	H	H	F
(III)－3062	O	4	F	Ph	F	H	H	H	H	H	H	H	H
(III)－3063	O	4	F	Ph	H	F	H	H	H	H	H	H	H
(III)－3064	O	4	F	Ph	H	H	F	H	H	H	H	H	H
(III)－3065	O	4	F	Ph	H	H	H	F	H	H	H	H	H
(III)－3066	O	4	F	Ph	H	H	H	H	F	H	H	H	H
(III)－3067	O	4	F	Ph	H	H	H	H	H	F	H	H	H
(III)－3068	O	4	F	Ph	H	H	H	H	H	H	F	H	H
(III)－3069	O	4	F	Ph	H	H	H	H	H	H	H	F	H
(III)－3070	O	4	F	Ph	H	H	H	H	H	H	H	H	F
(III)－3071	O	4	H	Ph	F	F	H	H	H	H	H	H	H
(III)－3072	O	4	H	Ph	F	H	F	H	H	H	H	H	H
(III)－3073	O	4	H	Ph	F	H	H	F	H	H	H	H	H
(III)－3074	O	4	H	Ph	F	H	H	H	F	H	H	H	H
(III)－3075	O	4	H	Ph	F	H	H	H	H	F	H	H	H
(III)－3076	O	4	H	Ph	F	H	H	H	H	H	F	H	H
(III)－3077	O	4	H	Ph	F	H	H	H	H	H	H	F	H
(III)－3078	O	4	H	Ph	F	H	H	H	H	H	H	H	F
(III)－3079	O	4	H	Ph	H	F	F	H	H	H	H	H	H
(III)－3080	O	4	H	Ph	H	F	H	F	H	H	H	H	H
(III)－3081	O	4	H	Ph	H	F	H	H	F	H	H	H	H
(III)－3082	O	4	H	Ph	H	F	H	H	H	F	H	H	H
(III)－3083	O	4	H	Ph	H	F	H	H	H	H	F	H	H
(III)－3084	O	4	H	Ph	H	F	H	H	H	H	H	F	H
(III)－3085	O	4	H	Ph	H	F	H	H	H	H	H	H	F
(III)－3086	O	4	H	Ph	H	H	F	F	H	H	H	H	H
(III)－3087	O	4	H	Ph	H	H	F	H	F	H	H	H	H
(III)－3088	O	4	H	Ph	H	H	F	H	H	F	H	H	H
(III)－3089	O	4	H	Ph	H	H	F	H	H	H	F	H	H
(III)－3090	O	4	H	Ph	H	H	F	H	H	H	H	F	H
(III)－3091	O	4	H	Ph	H	H	F	H	H	H	H	H	F
(III)－3092	O	4	H	Ph	H	H	H	F	F	H	H	H	H
(III)－3093	O	4	H	Ph	H	H	H	F	H	F	H	H	H
(III)－3094	O	4	H	Ph	H	H	H	F	H	H	F	H	H
(III)－3095	O	4	H	Ph	H	H	H	F	H	H	H	F	H
(III)－3096	O	4	H	Ph	H	H	H	F	H	H	H	H	F
(III)－3097	O	4	H	Ph	H	H	H	H	F	F	H	H	H
(III)－3098	O	4	H	Ph	H	H	H	H	F	H	F	H	H
(III)－3099	O	4	H	Ph	H	H	H	H	F	H	H	F	H
(III)－3100	O	4	H	Ph	H	H	H	H	F	H	H	H	F
(III)－3101	O	4	H	Ph	H	H	H	H	H	F	F	H	H
(III)－3102	O	4	H	Ph	H	H	H	H	H	F	H	F	H
(III)－3103	O	4	H	Ph	H	H	H	H	H	F	H	H	F
(III)－3104	O	4	H	Ph	H	H	H	H	H	H	F	F	H
(III)－3105	O	4	H	Ph	H	H	H	H	H	H	F	H	F
(III)－3106	O	4	H	Ph	H	H	H	H	H	H	H	F	F
(III)－3107	O	4	F	Tol	H	H	H	H	H	H	H	H	H
(III)－3108	O	4	H	Tol	F	H	H	H	H	H	H	H	H
(III)－3109	O	4	H	Tol	H	F	H	H	H	H	H	H	H
(III)－3110	O	4	H	Tol	H	H	F	H	H	H	H	H	H
(III)－3111	O	4	H	Tol	H	H	H	F	H	H	H	H	H
(III)－3112	O	4	H	Tol	H	H	H	H	F	H	H	H	H
(III)－3113	O	4	H	Tol	H	H	H	H	H	F	H	H	H
(III)－3114	O	4	H	Tol	H	H	H	H	H	H	F	H	H
(III)－3115	O	4	H	Tol	H	H	H	H	H	H	H	F	H
(III)－3116	O	4	H	Tol	H	H	H	H	H	H	H	H	F
(III)－3117	O	4	F	Tol	F	H	H	H	H	H	H	H	H
(III)－3118	O	4	F	Tol	H	F	H	H	H	H	H	H	H
(III)－3119	O	4	F	Tol	H	H	F	H	H	H	H	H	H
(III)－3120	O	4	F	Tol	H	H	H	F	H	H	H	H	H

【表１５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3121	O	4	F	Tol	H	H	H	H	F	H	H	H	H
(III)－3122	O	4	F	Tol	H	H	H	H	H	F	H	H	H
(III)－3123	O	4	F	Tol	H	H	H	H	H	H	F	H	H
(III)－3124	O	4	F	Tol	H	H	H	H	H	H	H	F	H
(III)－3125	O	4	F	Tol	H	H	H	H	H	H	H	H	F
(III)－3126	O	4	H	Tol	F	F	H	H	H	H	H	H	H
(III)－3127	O	4	H	Tol	F	H	F	H	H	H	H	H	H
(III)－3128	O	4	H	Tol	F	H	H	F	H	H	H	H	H
(III)－3129	O	4	H	Tol	F	H	H	H	F	H	H	H	H
(III)－3130	O	4	H	Tol	F	H	H	H	H	F	H	H	H
(III)－3131	O	4	H	Tol	F	H	H	H	H	H	F	H	H
(III)－3132	O	4	H	Tol	F	H	H	H	H	H	H	F	H
(III)－3133	O	4	H	Tol	F	H	H	H	H	H	H	H	F
(III)－3134	O	4	H	Tol	H	F	F	H	H	H	H	H	H
(III)－3135	O	4	H	Tol	H	F	H	F	H	H	H	H	H
(III)－3136	O	4	H	Tol	H	F	H	H	F	H	H	H	H
(III)－3137	O	4	H	Tol	H	F	H	H	H	F	H	H	H
(III)－3138	O	4	H	Tol	H	F	H	H	H	H	F	H	H
(III)－3139	O	4	H	Tol	H	F	H	H	H	H	H	F	H
(III)－3140	O	4	H	Tol	H	F	H	H	H	H	H	H	F
(III)－3141	O	4	H	Tol	H	H	F	F	H	H	H	H	H
(III)－3142	O	4	H	Tol	H	H	F	H	F	H	H	H	H
(III)－3143	O	4	H	Tol	H	H	F	H	H	F	H	H	H
(III)－3144	O	4	H	Tol	H	H	F	H	H	H	F	H	H
(III)－3145	O	4	H	Tol	H	H	F	H	H	H	H	F	H
(III)－3146	O	4	H	Tol	H	H	F	H	H	H	H	H	F
(III)－3147	O	4	H	Tol	H	H	H	F	F	H	H	H	H
(III)－3148	O	4	H	Tol	H	H	H	F	H	F	H	H	H
(III)－3149	O	4	H	Tol	H	H	H	F	H	H	F	H	H
(III)－3150	O	4	H	Tol	H	H	H	F	H	H	H	F	H
(III)－3151	O	4	H	Tol	H	H	H	F	H	H	H	H	F
(III)－3152	O	4	H	Tol	H	H	H	H	F	F	H	H	H
(III)－3153	O	4	H	Tol	H	H	H	H	F	H	F	H	H
(III)－3154	O	4	H	Tol	H	H	H	H	F	H	H	F	H
(III)－3155	O	4	H	Tol	H	H	H	H	F	H	H	H	F
(III)－3156	O	4	H	Tol	H	H	H	H	H	F	F	H	H
(III)－3157	O	4	H	Tol	H	H	H	H	H	F	H	F	H
(III)－3158	O	4	H	Tol	H	H	H	H	H	F	H	H	F
(III)－3159	O	4	H	Tol	H	H	H	H	H	H	F	F	H
(III)－3160	O	4	H	Tol	H	H	H	H	H	H	F	H	F
(III)－3161	O	4	H	Tol	H	H	H	H	H	H	H	F	F
(III)－3162	O	4	F	Phen	H	H	H	H	H	H	H	H	H
(III)－3163	O	4	H	Phen	F	H	H	H	H	H	H	H	H
(III)－3164	O	4	H	Phen	H	F	H	H	H	H	H	H	H
(III)－3165	O	4	H	Phen	H	H	F	H	H	H	H	H	H
(III)－3166	O	4	H	Phen	H	H	H	F	H	H	H	H	H
(III)－3167	O	4	H	Phen	H	H	H	H	F	H	H	H	H
(III)－3168	O	4	H	Phen	H	H	H	H	H	F	H	H	H
(III)－3169	O	4	H	Phen	H	H	H	H	H	H	F	H	H
(III)－3170	O	4	H	Phen	H	H	H	H	H	H	H	F	H
(III)－3171	O	4	H	Phen	H	H	H	H	H	H	H	H	F
(III)－3172	O	4	F	Phen	F	H	H	H	H	H	H	H	H
(III)－3173	O	4	F	Phen	H	F	H	H	H	H	H	H	H
(III)－3174	O	4	F	Phen	H	H	F	H	H	H	H	H	H
(III)－3175	O	4	F	Phen	H	H	H	F	H	H	H	H	H
(III)－3176	O	4	F	Phen	H	H	H	H	F	H	H	H	H
(III)－3177	O	4	F	Phen	H	H	H	H	H	F	H	H	H
(III)－3178	O	4	F	Phen	H	H	H	H	H	H	F	H	H
(III)－3179	O	4	F	Phen	H	H	H	H	H	H	H	F	H
(III)－3180	O	4	F	Phen	H	H	H	H	H	H	H	H	F

【表１５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3181	O	4	H	Phen	F	F	H	H	H	H	H	H	H
(III)－3182	O	4	H	Phen	F	H	F	H	H	H	H	H	H
(III)－3183	O	4	H	Phen	F	H	H	F	H	H	H	H	H
(III)－3184	O	4	H	Phen	F	H	H	H	F	H	H	H	H
(III)－3185	O	4	H	Phen	F	H	H	H	H	F	H	H	H
(III)－3186	O	4	H	Phen	F	H	H	H	H	H	F	H	H
(III)－3187	O	4	H	Phen	F	H	H	H	H	H	H	F	H
(III)－3188	O	4	H	Phen	F	H	H	H	H	H	H	H	F
(III)－3189	O	4	H	Phen	H	F	F	H	H	H	H	H	H
(III)－3190	O	4	H	Phen	H	F	H	F	H	H	H	H	H
(III)－3191	O	4	H	Phen	H	F	H	H	F	H	H	H	H
(III)－3192	O	4	H	Phen	H	F	H	H	H	F	H	H	H
(III)－3193	O	4	H	Phen	H	F	H	H	H	H	F	H	H
(III)－3194	O	4	H	Phen	H	F	H	H	H	H	H	F	H
(III)－3195	O	4	H	Phen	H	F	H	H	H	H	H	H	F
(III)－3196	O	4	H	Phen	H	H	F	F	H	H	H	H	H
(III)－3197	O	4	H	Phen	H	H	F	H	F	H	H	H	H
(III)－3198	O	4	H	Phen	H	H	F	H	H	F	H	H	H
(III)－3199	O	4	H	Phen	H	H	F	H	H	H	F	H	H
(III)－3200	O	4	H	Phen	H	H	F	H	H	H	H	F	H
(III)－3201	O	4	H	Phen	H	H	F	H	H	H	H	H	F
(III)－3202	O	4	H	Phen	H	H	H	F	F	H	H	H	H
(III)－3203	O	4	H	Phen	H	H	H	F	H	F	H	H	H
(III)－3204	O	4	H	Phen	H	H	H	F	H	H	F	H	H
(III)－3205	O	4	H	Phen	H	H	H	F	H	H	H	F	H
(III)－3206	O	4	H	Phen	H	H	H	F	H	H	H	H	F
(III)－3207	O	4	H	Phen	H	H	H	H	F	F	H	H	H
(III)－3208	O	4	H	Phen	H	H	H	H	F	H	F	H	H
(III)－3209	O	4	H	Phen	H	H	H	H	F	H	H	F	H
(III)－3210	O	4	H	Phen	H	H	H	H	F	H	H	H	F
(III)－3211	O	4	H	Phen	H	H	H	H	H	F	F	H	H
(III)－3212	O	4	H	Phen	H	H	H	H	H	F	H	F	H
(III)－3213	O	4	H	Phen	H	H	H	H	H	F	H	H	F
(III)－3214	O	4	H	Phen	H	H	H	H	H	H	F	F	H
(III)－3215	O	4	H	Phen	H	H	H	H	H	H	F	H	F
(III)－3216	O	4	H	Phen	H	H	H	H	H	H	H	F	F
(III)－3217	S	4	F	H	H	H	H	H	H	H	H	H	H
(III)－3218	S	4	H	F	H	H	H	H	H	H	H	H	H
(III)－3219	S	4	H	H	F	H	H	H	H	H	H	H	H
(III)－3220	S	4	H	H	H	F	H	H	H	H	H	H	H
(III)－3221	S	4	H	H	H	H	F	H	H	H	H	H	H
(III)－3222	S	4	H	H	H	H	H	F	H	H	H	H	H
(III)－3223	S	4	H	H	H	H	H	H	F	H	H	H	H
(III)－3224	S	4	H	H	H	H	H	H	H	F	H	H	H
(III)－3225	S	4	H	H	H	H	H	H	H	H	F	H	H
(III)－3226	S	4	H	H	H	H	H	H	H	H	H	F	H
(III)－3227	S	4	H	H	H	H	H	H	H	H	H	H	F
(III)－3228	S	4	F	F	H	H	H	H	H	H	H	H	H
(III)－3229	S	4	F	H	F	H	H	H	H	H	H	H	H
(III)－3230	S	4	F	H	H	F	H	H	H	H	H	H	H
(III)－3231	S	4	F	H	H	H	F	H	H	H	H	H	H
(III)－3232	S	4	F	H	H	H	H	F	H	H	H	H	H
(III)－3233	S	4	F	H	H	H	H	H	F	H	H	H	H
(III)－3234	S	4	F	H	H	H	H	H	H	F	H	H	H
(III)－3235	S	4	F	H	H	H	H	H	H	H	F	H	H
(III)－3236	S	4	F	H	H	H	H	H	H	H	H	F	H
(III)－3237	S	4	F	H	H	H	H	H	H	H	H	H	F
(III)－3238	S	4	H	F	F	H	H	H	H	H	H	H	H
(III)－3239	S	4	H	F	H	F	H	H	H	H	H	H	H
(III)－3240	S	4	H	F	H	H	F	H	H	H	H	H	H

【表１５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3241	S	4	H	F	H	H	H	F	H	H	H	H	H
(III)－3242	S	4	H	F	H	H	H	H	F	H	H	H	H
(III)－3243	S	4	H	F	H	H	H	H	H	F	H	H	H
(III)－3244	S	4	H	F	H	H	H	H	H	H	F	H	H
(III)－3245	S	4	H	F	H	H	H	H	H	H	H	F	H
(III)－3246	S	4	H	F	H	H	H	H	H	H	H	H	F
(III)－3247	S	4	H	H	F	F	H	H	H	H	H	H	H
(III)－3248	S	4	H	H	F	H	F	H	H	H	H	H	H
(III)－3249	S	4	H	H	F	H	H	F	H	H	H	H	H
(III)－3250	S	4	H	H	F	H	H	H	F	H	H	H	H
(III)－3251	S	4	H	H	F	H	H	H	H	F	H	H	H
(III)－3252	S	4	H	H	F	H	H	H	H	H	F	H	H
(III)－3253	S	4	H	H	F	H	H	H	H	H	H	F	H
(III)－3254	S	4	H	H	F	H	H	H	H	H	H	H	F
(III)－3255	S	4	H	H	H	F	F	H	H	H	H	H	H
(III)－3256	S	4	H	H	H	F	H	F	H	H	H	H	H
(III)－3257	S	4	H	H	H	F	H	H	F	H	H	H	H
(III)－3258	S	4	H	H	H	F	H	H	H	F	H	H	H
(III)－3259	S	4	H	H	H	F	H	H	H	H	F	H	H
(III)－3260	S	4	H	H	H	F	H	H	H	H	H	F	H
(III)－3261	S	4	H	H	H	F	H	H	H	H	H	H	F
(III)－3262	S	4	H	H	H	H	F	F	H	H	H	H	H
(III)－3263	S	4	H	H	H	H	F	H	F	H	H	H	H
(III)－3264	S	4	H	H	H	H	F	H	H	F	H	H	H
(III)－3265	S	4	H	H	H	H	F	H	H	H	F	H	H
(III)－3266	S	4	H	H	H	H	F	H	H	H	H	F	H
(III)－3267	S	4	H	H	H	H	F	H	H	H	H	H	F
(III)－3268	S	4	H	H	H	H	H	F	F	H	H	H	H
(III)－3269	S	4	H	H	H	H	H	F	H	F	H	H	H
(III)－3270	S	4	H	H	H	H	H	F	H	H	F	H	H
(III)－3271	S	4	H	H	H	H	H	F	H	H	H	F	H
(III)－3272	S	4	H	H	H	H	H	F	H	H	H	H	F
(III)－3273	S	4	H	H	H	H	H	H	F	F	H	H	H
(III)－3274	S	4	H	H	H	H	H	H	F	H	F	H	H
(III)－3275	S	4	H	H	H	H	H	H	F	H	H	F	H
(III)－3276	S	4	H	H	H	H	H	H	F	H	H	H	F
(III)－3277	S	4	H	H	H	H	H	H	H	F	F	H	H
(III)－3278	S	4	H	H	H	H	H	H	H	F	H	F	H
(III)－3279	S	4	H	H	H	H	H	H	H	F	H	H	F
(III)－3280	S	4	H	H	H	H	H	H	H	H	F	F	H
(III)－3281	S	4	H	H	H	H	H	H	H	H	F	H	F
(III)－3282	S	4	CH_3	F	H	H	H	H	H	H	H	H	H
(III)－3283	S	4	CH_3	H	F	H	H	H	H	H	H	H	H
(III)－3284	S	4	CH_3	H	H	F	H	H	H	H	H	H	H
(III)－3285	S	4	CH_3	H	H	H	F	H	H	H	H	H	H
(III)－3286	S	4	CH_3	H	H	H	H	F	H	H	H	H	H
(III)－3287	S	4	CH_3	H	H	H	H	H	F	H	H	H	H
(III)－3288	S	4	CH_3	H	H	H	H	H	H	F	H	H	H
(III)－3289	S	4	CH_3	H	H	H	H	H	H	H	F	H	H
(III)－3290	S	4	CH_3	H	H	H	H	H	H	H	H	F	H
(III)－3291	S	4	CH_3	H	H	H	H	H	H	H	H	H	F
(III)－3292	S	4	F	CH_3	H	H	H	H	H	H	H	H	H
(III)－3293	S	4	H	CH_3	F	H	H	H	H	H	H	H	H
(III)－3294	S	4	H	CH_3	H	F	H	H	H	H	H	H	H
(III)－3295	S	4	H	CH_3	H	H	F	H	H	H	H	H	H
(III)－3296	S	4	H	CH_3	H	H	H	F	H	H	H	H	H
(III)－3297	S	4	H	CH_3	H	H	H	H	F	H	H	H	H
(III)－3298	S	4	H	CH_3	H	H	H	H	H	F	H	H	H
(III)－3299	S	4	H	CH_3	H	H	H	H	H	H	F	H	H
(III)－3300	S	4	H	CH_3	H	H	H	H	H	H	H	F	H

【表１５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3301	S	4	H	CH_3	H	H	H	H	H	H	H	H	F
(III)－3302	S	4	H	H	CH_3	F	H	H	H	H	H	H	H
(III)－3303	S	4	H	H	CH_3	H	F	H	H	H	H	H	H
(III)－3304	S	4	H	H	CH_3	H	H	F	H	H	H	H	H
(III)－3305	S	4	H	H	CH_3	H	H	H	F	H	H	H	H
(III)－3306	S	4	H	H	CH_3	H	H	H	H	F	H	H	H
(III)－3307	S	4	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－3308	S	4	H	H	CH_3	H	H	H	H	H	F	H	H
(III)－3309	S	4	H	H	CH_3	H	H	H	H	H	H	F	H
(III)－3310	S	4	H	H	CH_3	H	H	H	H	H	H	H	F
(III)－3311	S	4	H	H	H	CH_3	F	H	H	H	H	H	H
(III)－3312	S	4	H	H	H	CH_3	H	F	H	H	H	H	H
(III)－3313	S	4	H	H	H	CH_3	H	H	F	H	H	H	H
(III)－3314	S	4	H	H	H	CH_3	H	H	H	F	H	H	H
(III)－3315	S	4	H	H	H	CH_3	H	H	H	H	F	H	H
(III)－3316	S	4	H	H	H	CH_3	H	H	H	H	H	F	H
(III)－3317	S	4	H	H	H	CH_3	H	H	H	H	H	H	F
(III)－3318	S	4	H	H	H	H	CH_3	F	H	H	H	H	H
(III)－3319	S	4	H	H	H	H	CH_3	H	F	H	H	H	H
(III)－3320	S	4	H	H	H	H	CH_3	H	H	F	H	H	H
(III)－3321	S	4	H	H	H	H	CH_3	H	H	H	F	H	H
(III)－3322	S	4	H	H	H	H	CH_3	H	H	H	H	F	H
(III)－3323	S	4	H	H	H	H	CH_3	H	H	H	H	H	F
(III)－3324	S	4	H	H	H	H	H	CH_3	F	H	H	H	H
(III)－3325	S	4	H	H	H	H	H	CH_3	H	F	H	H	H
(III)－3326	S	4	H	H	H	H	H	CH_3	H	H	F	H	H
(III)－3327	S	4	H	H	H	H	H	CH_3	H	H	H	F	H
(III)－3328	S	4	H	H	H	H	H	CH_3	H	H	H	H	F
(III)－3329	S	4	H	H	H	H	H	H	CH_3	F	H	H	H
(III)－3330	S	4	H	H	H	H	H	H	CH_3	H	F	H	H
(III)－3331	S	4	H	H	H	H	H	H	CH_3	H	H	F	H
(III)－3332	S	4	H	H	H	H	H	H	CH_3	H	H	H	F
(III)－3333	S	4	H	H	H	H	H	H	H	CH_3	F	H	H
(III)－3334	S	4	H	H	H	H	H	H	H	CH_3	H	F	H
(III)－3335	S	4	H	H	H	H	H	H	H	CH_3	H	H	F
(III)－3336	S	4	H	H	H	H	H	H	H	H	CH_3	F	H
(III)－3337	S	4	H	H	H	H	H	H	H	H	CH_3	H	F
(III)－3338	S	4	H	H	H	H	H	H	H	H	H	CH_3	F
(III)－3339	S	4	H	Ph	H	H	H	H	H	H	H	H	H
(III)－3340	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H
(III)－3341	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H
(III)－3342	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H
(III)－3343	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H
(III)－3344	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H
(III)－3345	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H
(III)－3346	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H
(III)－3347	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H
(III)－3348	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H
(III)－3349	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3
(III)－3350	S	4	H	Tol	H	H	H	H	H	H	H	H	H
(III)－3351	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H
(III)－3352	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H
(III)－3353	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H
(III)－3354	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H
(III)－3355	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H
(III)－3356	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H
(III)－3357	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H
(III)－3358	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H
(III)－3359	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H
(III)－3360	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3

【表１５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3361	S	4	H	Phen	H	H	H	H	H	H	H	H	H
(III)－3362	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H
(III)－3363	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H
(III)－3364	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H
(III)－3365	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H
(III)－3366	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H
(III)－3367	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H
(III)－3368	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H
(III)－3369	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H
(III)－3370	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H
(III)－3371	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3
(III)－3372	S	4	F	Ph	H	H	H	H	H	H	H	H	H
(III)－3373	S	4	H	Ph	F	H	H	H	H	H	H	H	H
(III)－3374	S	4	H	Ph	H	F	H	H	H	H	H	H	H
(III)－3375	S	4	H	Ph	H	H	F	H	H	H	H	H	H
(III)－3376	S	4	H	Ph	H	H	H	F	H	H	H	H	H
(III)－3377	S	4	H	Ph	H	H	H	H	F	H	H	H	H
(III)－3378	S	4	H	Ph	H	H	H	H	H	F	H	H	H
(III)－3379	S	4	H	Ph	H	H	H	H	H	H	F	H	H
(III)－3380	S	4	H	Ph	H	H	H	H	H	H	H	F	H
(III)－3381	S	4	H	Ph	H	H	H	H	H	H	H	H	F
(III)－3382	S	4	F	Ph	F	H	H	H	H	H	H	H	H
(III)－3383	S	4	F	Ph	H	F	H	H	H	H	H	H	H
(III)－3384	S	4	F	Ph	H	H	F	H	H	H	H	H	H
(III)－3385	S	4	F	Ph	H	H	H	F	H	H	H	H	H
(III)－3386	S	4	F	Ph	H	H	H	H	F	H	H	H	H
(III)－3387	S	4	F	Ph	H	H	H	H	H	F	H	H	H
(III)－3388	S	4	F	Ph	H	H	H	H	H	H	F	H	H
(III)－3389	S	4	F	Ph	H	H	H	H	H	H	H	F	H
(III)－3390	S	4	F	Ph	H	H	H	H	H	H	H	H	F
(III)－3391	S	4	H	Ph	F	F	H	H	H	H	H	H	H
(III)－3392	S	4	H	Ph	F	H	F	H	H	H	H	H	H
(III)－3393	S	4	H	Ph	F	H	H	F	H	H	H	H	H
(III)－3394	S	4	H	Ph	F	H	H	H	F	H	H	H	H
(III)－3395	S	4	H	Ph	F	H	H	H	H	F	H	H	H
(III)－3396	S	4	H	Ph	F	H	H	H	H	H	F	H	H
(III)－3397	S	4	H	Ph	F	H	H	H	H	H	H	F	H
(III)－3398	S	4	H	Ph	F	H	H	H	H	H	H	H	F
(III)－3399	S	4	H	Ph	H	F	F	H	H	H	H	H	H
(III)－3400	S	4	H	Ph	H	F	H	F	H	H	H	H	H
(III)－3401	S	4	H	Ph	H	F	H	H	F	H	H	H	H
(III)－3402	S	4	H	Ph	H	F	H	H	H	F	H	H	H
(III)－3403	S	4	H	Ph	H	F	H	H	H	H	F	H	H
(III)－3404	S	4	H	Ph	H	F	H	H	H	H	H	F	H
(III)－3405	S	4	H	Ph	H	F	H	H	H	H	H	H	F
(III)－3406	S	4	H	Ph	H	H	F	F	H	H	H	H	H
(III)－3407	S	4	H	Ph	H	H	F	H	F	H	H	H	H
(III)－3408	S	4	H	Ph	H	H	F	H	H	F	H	H	H
(III)－3409	S	4	H	Ph	H	H	F	H	H	H	F	H	H
(III)－3410	S	4	H	Ph	H	H	F	H	H	H	H	F	H
(III)－3411	S	4	H	Ph	H	H	F	H	H	H	H	H	F
(III)－3412	S	4	H	Ph	H	H	H	F	F	H	H	H	H
(III)－3413	S	4	H	Ph	H	H	H	F	H	F	H	H	H
(III)－3414	S	4	H	Ph	H	H	H	F	H	H	F	H	H
(III)－3415	S	4	H	Ph	H	H	H	F	H	H	H	F	H
(III)－3416	S	4	H	Ph	H	H	H	F	H	H	H	H	F
(III)－3417	S	4	H	Ph	H	H	H	H	F	F	H	H	H
(III)－3418	S	4	H	Ph	H	H	H	H	F	H	F	H	H
(III)－3419	S	4	H	Ph	H	H	H	H	F	H	H	F	H
(III)－3420	S	4	H	Ph	H	H	H	H	F	H	H	H	F

【表１５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3421	S	4	H	Ph	H	H	H	H	H	F	F	H	H
(III)－3422	S	4	H	Ph	H	H	H	H	H	F	H	F	H
(III)－3423	S	4	H	Ph	H	H	H	H	H	F	H	H	F
(III)－3424	S	4	H	Ph	H	H	H	H	H	H	F	F	H
(III)－3425	S	4	H	Ph	H	H	H	H	H	H	F	H	F
(III)－3426	S	4	H	Ph	H	H	H	H	H	H	H	F	F
(III)－3427	S	4	F	Tol	H	H	H	H	H	H	H	H	H
(III)－3428	S	4	H	Tol	F	H	H	H	H	H	H	H	H
(III)－3429	S	4	H	Tol	H	F	H	H	H	H	H	H	H
(III)－3430	S	4	H	Tol	H	H	F	H	H	H	H	H	H
(III)－3431	S	4	H	Tol	H	H	H	F	H	H	H	H	H
(III)－3432	S	4	H	Tol	H	H	H	H	F	H	H	H	H
(III)－3433	S	4	H	Tol	H	H	H	H	H	F	H	H	H
(III)－3434	S	4	H	Tol	H	H	H	H	H	H	F	H	H
(III)－3435	S	4	H	Tol	H	H	H	H	H	H	H	F	H
(III)－3436	S	4	H	Tol	H	H	H	H	H	H	H	H	F
(III)－3437	S	4	F	Tol	F	H	H	H	H	H	H	H	H
(III)－3438	S	4	F	Tol	H	F	H	H	H	H	H	H	H
(III)－3439	S	4	F	Tol	H	H	F	H	H	H	H	H	H
(III)－3440	S	4	F	Tol	H	H	H	F	H	H	H	H	H
(III)－3441	S	4	F	Tol	H	H	H	H	F	H	H	H	H
(III)－3442	S	4	F	Tol	H	H	H	H	H	F	H	H	H
(III)－3443	S	4	F	Tol	H	H	H	H	H	H	F	H	H
(III)－3444	S	4	F	Tol	H	H	H	H	H	H	H	F	H
(III)－3445	S	4	F	Tol	H	H	H	H	H	H	H	H	F
(III)－3446	S	4	H	Tol	F	F	H	H	H	H	H	H	H
(III)－3447	S	4	H	Tol	F	H	F	H	H	H	H	H	H
(III)－3448	S	4	H	Tol	F	H	H	F	H	H	H	H	H
(III)－3449	S	4	H	Tol	F	H	H	H	F	H	H	H	H
(III)－3450	S	4	H	Tol	F	H	H	H	H	F	H	H	H
(III)－3451	S	4	H	Tol	F	H	H	H	H	H	F	H	H
(III)－3452	S	4	H	Tol	F	H	H	H	H	H	H	F	H
(III)－3453	S	4	H	Tol	F	H	H	H	H	H	H	H	F
(III)－3454	S	4	H	Tol	H	F	F	H	H	H	H	H	H
(III)－3455	S	4	H	Tol	H	F	H	F	H	H	H	H	H
(III)－3456	S	4	H	Tol	H	F	H	H	F	H	H	H	H
(III)－3457	S	4	H	Tol	H	F	H	H	H	F	H	H	H
(III)－3458	S	4	H	Tol	H	F	H	H	H	H	F	H	H
(III)－3459	S	4	H	Tol	H	F	H	H	H	H	H	F	H
(III)－3460	S	4	H	Tol	H	F	H	H	H	H	H	H	F
(III)－3461	S	4	H	Tol	H	H	F	F	H	H	H	H	H
(III)－3462	S	4	H	Tol	H	H	F	H	F	H	H	H	H
(III)－3463	S	4	H	Tol	H	H	F	H	H	F	H	H	H
(III)－3464	S	4	H	Tol	H	H	F	H	H	H	F	H	H
(III)－3465	S	4	H	Tol	H	H	F	H	H	H	H	F	H
(III)－3466	S	4	H	Tol	H	H	F	H	H	H	H	H	F
(III)－3467	S	4	H	Tol	H	H	H	F	F	H	H	H	H
(III)－3468	S	4	H	Tol	H	H	H	F	H	F	H	H	H
(III)－3469	S	4	H	Tol	H	H	H	F	H	H	F	H	H
(III)－3470	S	4	H	Tol	H	H	H	F	H	H	H	F	H
(III)－3471	S	4	H	Tol	H	H	H	F	H	H	H	H	F
(III)－3472	S	4	H	Tol	H	H	H	H	F	F	H	H	H
(III)－3473	S	4	H	Tol	H	H	H	H	F	H	F	H	H
(III)－3474	S	4	H	Tol	H	H	H	H	F	H	H	F	H
(III)－3475	S	4	H	Tol	H	H	H	H	F	H	H	H	F
(III)－3476	S	4	H	Tol	H	H	H	H	H	F	F	H	H
(III)－3477	S	4	H	Tol	H	H	H	H	H	F	H	F	H
(III)－3478	S	4	H	Tol	H	H	H	H	H	F	H	H	F
(III)－3479	S	4	H	Tol	H	H	H	H	H	H	F	F	H
(III)－3480	S	4	H	Tol	H	H	H	H	H	H	F	H	F

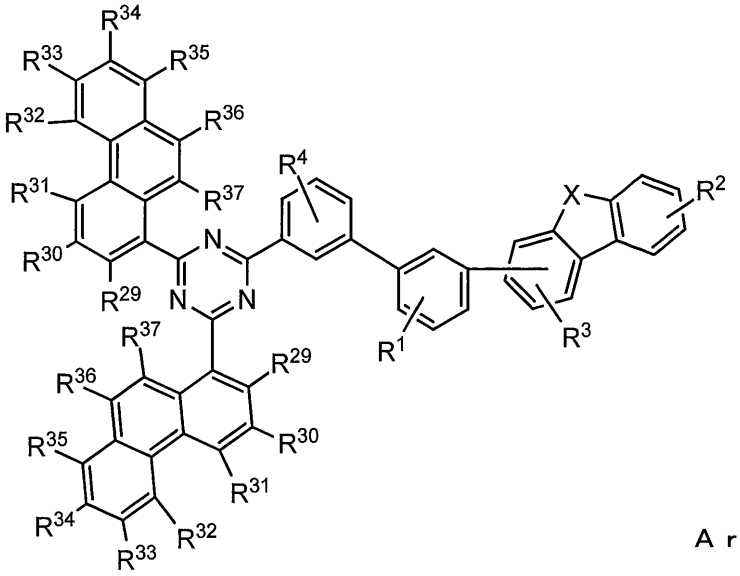
【表１５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{22}	R^{23}	R^{24}	R^{25}	R^{26}	R^{27}	R^{28}
(III)－3481	S	4	H	Tol	H	H	H	H	H	H	H	F	F
(III)－3482	S	4	F	Phen	H	H	H	H	H	H	H	H	H
(III)－3483	S	4	H	Phen	F	H	H	H	H	H	H	H	H
(III)－3484	S	4	H	Phen	H	F	H	H	H	H	H	H	H
(III)－3485	S	4	H	Phen	H	H	F	H	H	H	H	H	H
(III)－3486	S	4	H	Phen	H	H	H	F	H	H	H	H	H
(III)－3487	S	4	H	Phen	H	H	H	H	F	H	H	H	H
(III)－3488	S	4	H	Phen	H	H	H	H	H	F	H	H	H
(III)－3489	S	4	H	Phen	H	H	H	H	H	H	F	H	H
(III)－3490	S	4	H	Phen	H	H	H	H	H	H	H	F	H
(III)－3491	S	4	H	Phen	H	H	H	H	H	H	H	H	F
(III)－3492	S	4	F	Phen	F	H	H	H	H	H	H	H	H
(III)－3493	S	4	F	Phen	H	F	H	H	H	H	H	H	H
(III)－3494	S	4	F	Phen	H	H	F	H	H	H	H	H	H
(III)－3495	S	4	F	Phen	H	H	H	F	H	H	H	H	H
(III)－3496	S	4	F	Phen	H	H	H	H	F	H	H	H	H
(III)－3497	S	4	F	Phen	H	H	H	H	H	F	H	H	H
(III)－3498	S	4	F	Phen	H	H	H	H	H	H	F	H	H
(III)－3499	S	4	F	Phen	H	H	H	H	H	H	H	F	H
(III)－3500	S	4	F	Phen	H	H	H	H	H	H	H	H	F
(III)－3501	S	4	H	Phen	F	F	H	H	H	H	H	H	H
(III)－3502	S	4	H	Phen	F	H	F	H	H	H	H	H	H
(III)－3503	S	4	H	Phen	F	H	H	F	H	H	H	H	H
(III)－3504	S	4	H	Phen	F	H	H	H	F	H	H	H	H
(III)－3505	S	4	H	Phen	F	H	H	H	H	F	H	H	H
(III)－3506	S	4	H	Phen	F	H	H	H	H	H	F	H	H
(III)－3507	S	4	H	Phen	F	H	H	H	H	H	H	F	H
(III)－3508	S	4	H	Phen	F	H	H	H	H	H	H	H	F
(III)－3509	S	4	H	Phen	H	F	F	H	H	H	H	H	H
(III)－3510	S	4	H	Phen	H	F	H	F	H	H	H	H	H
(III)－3511	S	4	H	Phen	H	F	H	H	F	H	H	H	H
(III)－3512	S	4	H	Phen	H	F	H	H	H	F	H	H	H
(III)－3513	S	4	H	Phen	H	F	H	H	H	H	F	H	H
(III)－3514	S	4	H	Phen	H	F	H	H	H	H	H	F	H
(III)－3515	S	4	H	Phen	H	F	H	H	H	H	H	H	F
(III)－3516	S	4	H	Phen	H	H	F	F	H	H	H	H	H
(III)－3517	S	4	H	Phen	H	H	F	H	F	H	H	H	H
(III)－3518	S	4	H	Phen	H	H	F	H	H	F	H	H	H
(III)－3519	S	4	H	Phen	H	H	F	H	H	H	F	H	H
(III)－3520	S	4	H	Phen	H	H	F	H	H	H	H	F	H
(III)－3521	S	4	H	Phen	H	H	F	H	H	H	H	H	F
(III)－3522	S	4	H	Phen	H	H	H	F	F	H	H	H	H
(III)－3523	S	4	H	Phen	H	H	H	F	H	F	H	H	H
(III)－3524	S	4	H	Phen	H	H	H	F	H	H	F	H	H
(III)－3525	S	4	H	Phen	H	H	H	F	H	H	H	F	H
(III)－3526	S	4	H	Phen	H	H	H	F	H	H	H	H	F
(III)－3527	S	4	H	Phen	H	H	H	H	F	F	H	H	H
(III)－3528	S	4	H	Phen	H	H	H	H	F	H	F	H	H
(III)－3529	S	4	H	Phen	H	H	H	H	F	H	H	F	H
(III)－3530	S	4	H	Phen	H	H	H	H	F	H	H	H	F
(III)－3531	S	4	H	Phen	H	H	H	H	H	F	F	H	H
(III)－3532	S	4	H	Phen	H	H	H	H	H	F	H	F	H
(III)－3533	S	4	H	Phen	H	H	H	H	H	F	H	H	F
(III)－3534	S	4	H	Phen	H	H	H	H	H	H	F	F	H
(III)－3535	S	4	H	Phen	H	H	H	H	H	H	F	H	F
(III)－3536	S	4	H	Phen	H	H	H	H	H	H	H	F	F

【００３６】

下記式で表される化合物を表１５７～表２３６に示す。式中のX、R^1～R^4、R^{29}～R^{37}は、前記一般式〔１〕の場合と同じである。

【化１８】



Ａｒ＝(IV)

【００３７】

【表１５７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1	O	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－13	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－14	O	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－15	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－16	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－17	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－18	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－19	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－20	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－21	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－22	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－23	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－24	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－25	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－26	O	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－27	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－28	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－29	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－30	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－31	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－32	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－33	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－34	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－35	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－36	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－37	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－38	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－39	O	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－40	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－41	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－42	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－43	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－44	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－45	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－46	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－47	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－48	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－49	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－50	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－51	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－52	O	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－53	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－54	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－55	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－56	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－57	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－58	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－59	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－60	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表１５８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－61	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－62	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－63	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－64	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－65	O	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－66	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－67	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－68	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－69	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－70	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－71	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－72	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－73	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－74	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－75	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－76	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－77	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－78	O	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－79	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－80	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－81	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－82	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－83	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－84	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－85	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－86	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－87	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－88	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－89	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－90	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－91	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－92	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－93	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－94	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－95	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－96	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－97	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－98	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－99	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－100	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－101	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－102	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－103	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－104	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－105	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－106	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－107	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－108	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－109	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－110	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－111	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－112	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－113	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－114	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－115	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－116	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－117	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－118	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－119	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－120	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H

【表１５９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－121	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－122	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－123	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－124	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－125	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－126	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－127	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－128	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－129	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－130	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－131	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－132	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－133	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－134	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－135	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－136	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－137	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－138	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－139	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－140	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－141	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－142	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－143	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－144	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－145	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－146	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－147	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－148	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－149	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－150	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－151	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－152	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－153	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－154	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－155	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－156	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－157	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－158	O	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－159	O	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－160	O	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－161	O	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－162	O	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－163	O	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－164	O	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－165	O	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－166	O	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－167	O	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－168	O	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－169	O	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－170	O	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－171	O	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－172	O	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－173	O	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－174	O	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－175	O	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－176	O	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－177	O	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－178	O	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－179	O	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－180	O	1	F	H	H	H	H	H	H	H	H	H	F	H	H

【表１６０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－181	O	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－182	O	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－183	O	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－184	O	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－185	O	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－186	O	1	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－187	O	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－188	O	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－189	O	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－190	O	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－191	O	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－192	O	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－193	O	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－194	O	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－195	O	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－196	O	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－197	O	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－198	O	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－199	O	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－200	O	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－201	O	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－202	O	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－203	O	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－204	O	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－205	O	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－206	O	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－207	O	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－208	O	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－209	O	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－210	O	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－211	O	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－212	O	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－213	O	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－214	O	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－215	O	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－216	O	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－217	O	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－218	O	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－219	O	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－220	O	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－221	O	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－222	O	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－223	O	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－224	O	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－225	O	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－226	O	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－227	O	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－228	O	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－229	O	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－230	O	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－231	O	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－232	O	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－233	O	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－234	O	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－235	O	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－236	O	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－237	O	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－238	O	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－239	O	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－240	O	1	H	H	H	H	H	H	H	H	F	H	H	H	F

【表１６１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－241	O	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－242	O	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－243	O	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－244	O	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－245	O	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－246	O	1	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－247	O	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－248	O	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－249	O	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－250	O	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－251	O	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－252	O	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－253	O	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－254	O	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－255	O	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－256	O	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－257	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－258	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－259	O	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－260	O	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－261	O	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－262	O	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－263	O	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－264	O	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－265	O	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－266	O	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－267	O	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－268	O	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－269	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－270	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－271	O	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－272	O	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－273	O	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－274	O	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－275	O	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－276	O	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－277	O	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－278	O	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－279	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－280	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－281	O	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－282	O	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－283	O	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－284	O	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－285	O	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－286	O	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－287	O	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－288	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－289	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－290	O	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－291	O	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－292	O	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－293	O	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－294	O	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－295	O	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－296	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－297	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－298	O	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－299	O	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－300	O	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H

【表１６２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－301	O	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－302	O	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－303	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－304	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－305	O	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－306	O	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－307	O	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－308	O	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－309	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－310	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－311	O	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－312	O	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－313	O	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－314	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－315	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－316	O	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－317	O	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－318	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－319	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－320	O	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－321	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－322	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－323	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－324	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－325	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－326	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－327	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－328	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－329	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－330	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－331	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－332	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－333	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－334	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－335	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－336	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－337	O	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－338	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－339	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－340	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－341	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－342	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－343	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－344	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－345	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－346	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－347	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－348	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－349	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－350	O	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－351	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－352	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－353	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－354	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－355	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－356	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－357	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－358	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－359	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－360	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H

【表１６３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－361	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－362	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－363	O	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－364	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－365	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－366	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－367	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－368	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－369	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－370	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－371	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－372	O	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－373	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－374	O	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－375	O	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－376	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－377	O	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－378	O	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－379	O	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－380	O	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－381	O	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－382	O	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－383	O	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－384	O	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－385	O	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－386	O	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－387	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－388	O	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－389	O	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－390	O	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－391	O	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－392	O	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－393	O	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－394	O	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－395	O	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－396	O	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－397	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－398	O	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－399	O	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－400	O	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－401	O	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－402	O	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－403	O	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－404	O	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－405	O	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－406	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－407	O	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－408	O	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－409	O	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－410	O	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－411	O	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－412	O	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－413	O	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－414	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－415	O	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－416	O	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－417	O	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－418	O	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－419	O	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－420	O	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H

【表１６４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－421	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－422	O	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－423	O	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－424	O	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－425	O	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－426	O	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－427	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－428	O	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－429	O	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－430	O	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－431	O	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－432	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－433	O	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－434	O	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－435	O	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－436	O	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－437	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－438	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－439	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－440	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－441	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－442	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－443	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－444	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－445	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－446	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－447	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－448	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－449	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－450	O	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－451	O	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－452	O	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－453	O	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－454	O	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－455	O	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－456	O	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－457	O	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－458	O	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－459	O	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－460	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－461	O	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－462	O	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－463	O	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－464	O	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－465	O	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－466	O	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－467	O	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－468	O	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－469	O	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－470	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－471	O	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－472	O	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－473	O	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－474	O	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－475	O	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－476	O	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－477	O	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－478	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－479	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－480	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H

【表１６５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－481	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－482	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－483	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－484	O	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－485	O	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－486	O	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－487	O	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－488	O	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－489	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－490	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－491	O	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－492	O	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－493	O	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－494	O	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－495	O	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－496	O	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－497	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－498	O	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－499	O	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－500	O	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－501	O	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－502	O	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－503	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－504	O	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－505	O	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－506	O	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－507	O	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－508	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－509	O	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－510	O	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－511	O	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－512	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－513	O	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－514	O	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－515	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－516	O	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－517	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－518	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－519	O	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－520	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－521	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－522	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－523	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－524	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－525	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－526	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－527	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－528	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－529	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－530	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－531	O	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－532	O	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－533	O	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－534	O	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－535	O	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－536	O	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－537	O	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－538	O	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－539	O	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－540	O	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H

【表１６６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－541	O	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－542	O	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－543	O	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－544	O	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－545	O	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－546	O	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－547	O	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－548	O	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－549	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－550	O	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－551	O	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－552	O	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－553	O	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－554	O	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－555	O	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－556	O	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－557	O	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－558	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－559	O	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－560	O	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－561	O	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－562	O	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－563	O	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－564	O	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－565	O	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－566	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－567	O	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－568	O	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－569	O	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－570	O	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－571	O	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－572	O	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－573	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－574	O	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－575	O	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－576	O	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－577	O	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－578	O	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－579	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－580	O	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－581	O	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－582	O	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－583	O	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－584	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－585	O	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－586	O	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－587	O	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－588	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－589	O	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－590	O	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－591	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－592	O	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－593	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－594	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－595	S	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－596	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－597	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－598	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－599	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－600	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H

【表１６７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－601	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－602	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－603	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－604	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－605	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－606	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－607	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－608	S	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－609	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－610	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－611	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－612	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－613	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－614	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－615	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－616	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－617	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－618	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－619	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－620	S	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－621	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－622	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－623	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－624	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－625	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－626	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－627	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－628	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－629	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－630	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－631	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－632	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－633	S	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－634	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－635	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－636	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－637	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－638	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－639	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－640	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－641	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－642	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－643	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－644	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－645	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－646	S	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－647	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－648	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－649	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－650	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－651	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－652	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－653	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－654	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－655	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－656	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－657	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－658	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－659	S	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－660	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表１６８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－661	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－662	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－663	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－664	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－665	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－666	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－667	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－668	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－669	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－670	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－671	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－672	S	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－673	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－674	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－675	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－676	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－677	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－678	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－679	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－680	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－681	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－682	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－683	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－684	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－685	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－686	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－687	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－688	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－689	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－690	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－691	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－692	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－693	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－694	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－695	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－696	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－697	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－698	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－699	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－700	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－701	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－702	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－703	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－704	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－705	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－706	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－707	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－708	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－709	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－710	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－711	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－712	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－713	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－714	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－715	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－716	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－717	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－718	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－719	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－720	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H

【表１６９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－721	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－722	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－723	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－724	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－725	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－726	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－727	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－728	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－729	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－730	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－731	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－732	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－733	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－734	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－735	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－736	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－737	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－738	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－739	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－740	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－741	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－742	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－743	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－744	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－745	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－746	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－747	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－748	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－749	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－750	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－751	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－752	S	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－753	S	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－754	S	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－755	S	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－756	S	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－757	S	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－758	S	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－759	S	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－760	S	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－761	S	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－762	S	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－763	S	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－764	S	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－765	S	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－766	S	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－767	S	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－768	S	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－769	S	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－770	S	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－771	S	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－772	S	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－773	S	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－774	S	1	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－775	S	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－776	S	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－777	S	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－778	S	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－779	S	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－780	S	1	H	F	H	H	H	F	H	H	H	H	H	H	H

【表１７０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－781	S	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－782	S	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－783	S	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－784	S	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－785	S	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－786	S	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－787	S	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－788	S	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－789	S	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－790	S	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－791	S	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－792	S	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－793	S	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－794	S	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－795	S	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－796	S	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－797	S	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－798	S	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－799	S	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－800	S	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－801	S	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－802	S	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－803	S	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－804	S	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－805	S	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－806	S	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－807	S	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－808	S	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－809	S	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－810	S	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－811	S	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－812	S	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－813	S	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－814	S	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－815	S	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－816	S	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－817	S	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－818	S	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－819	S	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－820	S	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－821	S	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－822	S	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－823	S	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－824	S	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－825	S	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－826	S	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－827	S	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－828	S	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－829	S	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－830	S	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－831	S	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－832	S	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－833	S	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－834	S	1	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－835	S	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－836	S	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－837	S	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－838	S	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－839	S	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－840	S	1	H	H	H	H	H	H	H	H	H	H	H	F	F

【表１７１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－841	S	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－842	S	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－843	S	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－844	S	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－845	S	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－846	S	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－847	S	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－848	S	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－849	S	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－850	S	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－851	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－852	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－853	S	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－854	S	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－855	S	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－856	S	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－857	S	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－858	S	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－859	S	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－860	S	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－861	S	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－862	S	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－863	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－864	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－865	S	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－866	S	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－867	S	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－868	S	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－869	S	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－870	S	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－871	S	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－872	S	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－873	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－874	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－875	S	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－876	S	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－877	S	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－878	S	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－879	S	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－880	S	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－881	S	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－882	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－883	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－884	S	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－885	S	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－886	S	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－887	S	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－888	S	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－889	S	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－890	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－891	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－892	S	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－893	S	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－894	S	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－895	S	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－896	S	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－897	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－898	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－899	S	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－900	S	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H

【表１７２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－901	S	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－902	S	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－903	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－904	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－905	S	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－906	S	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－907	S	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－908	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－909	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－910	S	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－911	S	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－912	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－913	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－914	S	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－915	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－916	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－917	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－918	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－919	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－920	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－921	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－922	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－923	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－924	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－925	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－926	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－927	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－928	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－929	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－930	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－931	S	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－932	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－933	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－934	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－935	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－936	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－937	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－938	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－939	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－940	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－941	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－942	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－943	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－944	S	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－945	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－946	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－947	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－948	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－949	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－950	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－951	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－952	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－953	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－954	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－955	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－956	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－957	S	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－958	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－959	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－960	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H

【表１７３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－961	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－962	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－963	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－964	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－965	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－966	S	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－967	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－968	S	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－969	S	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－970	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－971	S	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－972	S	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－973	S	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－974	S	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－975	S	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－976	S	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－977	S	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－978	S	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－979	S	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－980	S	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－981	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－982	S	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－983	S	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－984	S	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－985	S	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－986	S	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－987	S	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－988	S	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－989	S	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－990	S	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－991	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－992	S	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－993	S	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－994	S	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－995	S	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－996	S	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－997	S	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－998	S	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－999	S	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－1000	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－1001	S	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－1002	S	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－1003	S	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－1004	S	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－1005	S	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－1006	S	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－1007	S	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－1008	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－1009	S	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－1010	S	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－1011	S	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－1012	S	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－1013	S	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－1014	S	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－1015	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－1016	S	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－1017	S	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－1018	S	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－1019	S	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－1020	S	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H

【表１７４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1021	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－1022	S	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－1023	S	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－1024	S	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－1025	S	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－1026	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－1027	S	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－1028	S	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－1029	S	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－1030	S	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－1031	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－1032	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－1033	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－1034	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－1035	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1036	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－1037	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－1038	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－1039	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－1040	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－1041	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－1042	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－1043	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－1044	S	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－1045	S	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－1046	S	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1047	S	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－1048	S	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－1049	S	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－1050	S	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－1051	S	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－1052	S	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－1053	S	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－1054	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－1055	S	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－1056	S	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－1057	S	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－1058	S	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－1059	S	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－1060	S	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－1061	S	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－1062	S	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－1063	S	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－1064	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－1065	S	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－1066	S	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－1067	S	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－1068	S	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－1069	S	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－1070	S	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－1071	S	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－1072	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－1073	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－1074	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－1075	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－1076	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－1077	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－1078	S	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－1079	S	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－1080	S	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H

【表１７５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1081	S	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－1082	S	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－1083	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1084	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1085	S	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－1086	S	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－1087	S	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－1088	S	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－1089	S	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－1090	S	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－1091	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－1092	S	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－1093	S	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－1094	S	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－1095	S	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－1096	S	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－1097	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－1098	S	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－1099	S	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－1100	S	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－1101	S	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－1102	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－1103	S	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－1104	S	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－1105	S	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－1106	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－1107	S	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－1108	S	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－1109	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－1110	S	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－1111	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－1112	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－1113	S	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－1114	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－1115	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－1116	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－1117	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－1118	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－1119	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－1120	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－1121	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－1122	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－1123	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－1124	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－1125	S	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－1126	S	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－1127	S	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－1128	S	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－1129	S	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－1130	S	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－1131	S	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－1132	S	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－1133	S	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－1134	S	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－1135	S	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－1136	S	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－1137	S	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－1138	S	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－1139	S	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－1140	S	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H

【表１７６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1141	S	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－1142	S	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－1143	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－1144	S	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－1145	S	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－1146	S	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－1147	S	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－1148	S	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－1149	S	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－1150	S	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－1151	S	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－1152	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－1153	S	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－1154	S	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－1155	S	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－1156	S	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－1157	S	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－1158	S	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－1159	S	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－1160	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－1161	S	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－1162	S	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－1163	S	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－1164	S	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－1165	S	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－1166	S	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－1167	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－1168	S	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－1169	S	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－1170	S	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－1171	S	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－1172	S	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－1173	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－1174	S	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－1175	S	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－1176	S	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－1177	S	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－1178	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－1179	S	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－1180	S	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－1181	S	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－1182	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－1183	S	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－1184	S	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－1185	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－1186	S	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－1187	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－1188	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－1189	O	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1190	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1191	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－1192	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1193	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1194	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1195	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1196	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1197	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1198	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1199	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1200	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H

【表１７７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1201	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1202	O	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1203	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1204	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－1205	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－1206	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－1207	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－1208	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－1209	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－1210	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－1211	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－1212	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－1213	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－1214	O	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－1215	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－1216	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1217	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－1218	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－1219	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－1220	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－1221	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－1222	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－1223	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－1224	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－1225	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－1226	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－1227	O	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－1228	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－1229	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1230	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－1231	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－1232	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－1233	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－1234	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－1235	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－1236	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－1237	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－1238	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－1239	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－1240	O	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－1241	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－1242	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1243	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－1244	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－1245	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－1246	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－1247	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－1248	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－1249	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－1250	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－1251	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－1252	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－1253	O	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－1254	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－1255	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1256	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－1257	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－1258	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－1259	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－1260	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表１７８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1261	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－1262	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－1263	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－1264	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－1265	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－1266	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－1267	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－1268	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－1269	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1270	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1271	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1272	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1273	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1274	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1275	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1276	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1277	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1278	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1279	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1280	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1281	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1282	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1283	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1284	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1285	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1286	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1287	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1288	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1289	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1290	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1291	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1292	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1293	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1294	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1295	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1296	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1297	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1298	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1299	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1300	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1301	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－1302	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－1303	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－1304	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－1305	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－1306	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－1307	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－1308	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－1309	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－1310	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－1311	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－1312	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－1313	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－1314	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－1315	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－1316	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－1317	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－1318	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－1319	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－1320	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H

【表１７９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1321	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－1322	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－1323	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－1324	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－1325	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－1326	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－1327	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－1328	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－1329	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－1330	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－1331	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－1332	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－1333	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－1334	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－1335	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－1336	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－1337	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－1338	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－1339	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－1340	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－1341	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－1342	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－1343	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－1344	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－1345	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－1346	O	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1347	O	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－1348	O	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－1349	O	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－1350	O	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－1351	O	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－1352	O	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－1353	O	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－1354	O	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－1355	O	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－1356	O	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－1357	O	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－1358	O	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－1359	O	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－1360	O	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－1361	O	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－1362	O	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－1363	O	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－1364	O	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－1365	O	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－1366	O	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－1367	O	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－1368	O	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－1369	O	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－1370	O	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－1371	O	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－1372	O	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－1373	O	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－1374	O	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－1375	O	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－1376	O	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－1377	O	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－1378	O	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－1379	O	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－1380	O	2	H	F	H	H	H	H	H	H	H	H	H	F	H

【表１８０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1381	O	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－1382	O	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－1383	O	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－1384	O	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－1385	O	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－1386	O	2	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－1387	O	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－1388	O	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－1389	O	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－1390	O	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－1391	O	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－1392	O	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－1393	O	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－1394	O	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－1395	O	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－1396	O	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－1397	O	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－1398	O	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－1399	O	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－1400	O	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－1401	O	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－1402	O	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－1403	O	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－1404	O	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－1405	O	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－1406	O	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－1407	O	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－1408	O	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－1409	O	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－1410	O	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－1411	O	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－1412	O	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－1413	O	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－1414	O	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－1415	O	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－1416	O	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－1417	O	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－1418	O	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－1419	O	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－1420	O	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－1421	O	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－1422	O	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－1423	O	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－1424	O	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－1425	O	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－1426	O	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－1427	O	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－1428	O	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－1429	O	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－1430	O	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－1431	O	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－1432	O	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－1433	O	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－1434	O	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－1435	O	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－1436	O	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－1437	O	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－1438	O	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－1439	O	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－1440	O	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H

【表１８１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1441	O	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－1442	O	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－1443	O	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－1444	O	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－1445	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－1446	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－1447	O	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－1448	O	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－1449	O	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－1450	O	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－1451	O	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－1452	O	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－1453	O	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－1454	O	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－1455	O	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－1456	O	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－1457	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－1458	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－1459	O	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－1460	O	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－1461	O	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－1462	O	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－1463	O	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－1464	O	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－1465	O	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－1466	O	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－1467	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－1468	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－1469	O	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－1470	O	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－1471	O	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－1472	O	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－1473	O	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－1474	O	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－1475	O	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－1476	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－1477	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－1478	O	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－1479	O	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－1480	O	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－1481	O	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－1482	O	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－1483	O	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－1484	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－1485	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－1486	O	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－1487	O	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－1488	O	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－1489	O	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－1490	O	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－1491	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－1492	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－1493	O	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－1494	O	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－1495	O	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－1496	O	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－1497	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－1498	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－1499	O	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－1500	O	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H

【表１８２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1501	O	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－1502	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－1503	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－1504	O	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－1505	O	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－1506	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－1507	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－1508	O	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－1509	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－1510	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－1511	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－1512	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－1513	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－1514	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－1515	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－1516	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1517	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1518	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1519	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1520	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1521	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1522	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1523	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1524	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1525	O	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1526	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1527	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－1528	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－1529	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1530	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1531	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1532	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1533	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1534	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1535	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1536	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1537	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1538	O	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1539	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1540	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－1541	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－1542	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1543	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1544	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1545	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1546	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1547	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1548	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1549	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1550	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1551	O	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1552	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1553	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－1554	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－1555	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－1556	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－1557	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－1558	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－1559	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－1560	O	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H

【表１８３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1561	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－1562	O	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－1563	O	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－1564	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－1565	O	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－1566	O	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－1567	O	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－1568	O	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－1569	O	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－1570	O	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－1571	O	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－1572	O	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－1573	O	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－1574	O	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－1575	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－1576	O	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－1577	O	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－1578	O	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－1579	O	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－1580	O	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－1581	O	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－1582	O	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－1583	O	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－1584	O	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－1585	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－1586	O	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－1587	O	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－1588	O	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－1589	O	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－1590	O	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－1591	O	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－1592	O	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－1593	O	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－1594	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－1595	O	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－1596	O	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－1597	O	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－1598	O	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－1599	O	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－1600	O	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－1601	O	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－1602	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－1603	O	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－1604	O	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－1605	O	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－1606	O	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－1607	O	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－1608	O	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－1609	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－1610	O	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－1611	O	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－1612	O	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－1613	O	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－1614	O	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－1615	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－1616	O	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－1617	O	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－1618	O	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－1619	O	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－1620	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F

【表１８４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1621	O	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－1622	O	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－1623	O	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－1624	O	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－1625	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－1626	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－1627	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－1628	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－1629	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1630	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－1631	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－1632	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－1633	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－1634	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－1635	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－1636	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－1637	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－1638	O	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－1639	O	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－1640	O	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1641	O	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－1642	O	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－1643	O	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－1644	O	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－1645	O	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－1646	O	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－1647	O	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－1648	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－1649	O	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－1650	O	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－1651	O	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－1652	O	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－1653	O	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－1654	O	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－1655	O	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－1656	O	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－1657	O	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－1658	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－1659	O	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－1660	O	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－1661	O	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－1662	O	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－1663	O	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－1664	O	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－1665	O	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－1666	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－1667	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－1668	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－1669	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－1670	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－1671	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－1672	O	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－1673	O	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－1674	O	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－1675	O	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－1676	O	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－1677	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1678	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－1679	O	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－1680	O	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H

【表１８５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1681	O	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－1682	O	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－1683	O	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－1684	O	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－1685	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－1686	O	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－1687	O	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－1688	O	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－1689	O	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－1690	O	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－1691	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－1692	O	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－1693	O	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－1694	O	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－1695	O	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－1696	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－1697	O	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－1698	O	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－1699	O	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－1700	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－1701	O	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－1702	O	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－1703	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－1704	O	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－1705	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－1706	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－1707	O	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－1708	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－1709	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－1710	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－1711	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－1712	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－1713	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－1714	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－1715	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－1716	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－1717	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－1718	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－1719	O	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－1720	O	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－1721	O	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－1722	O	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－1723	O	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－1724	O	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－1725	O	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－1726	O	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－1727	O	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－1728	O	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－1729	O	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－1730	O	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－1731	O	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－1732	O	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－1733	O	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－1734	O	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－1735	O	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－1736	O	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－1737	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－1738	O	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－1739	O	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－1740	O	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H

【表１８６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1741	O	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－1742	O	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－1743	O	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－1744	O	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－1745	O	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－1746	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－1747	O	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－1748	O	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－1749	O	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－1750	O	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－1751	O	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－1752	O	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－1753	O	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－1754	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－1755	O	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－1756	O	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－1757	O	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－1758	O	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－1759	O	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－1760	O	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－1761	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－1762	O	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－1763	O	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－1764	O	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－1765	O	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－1766	O	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－1767	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－1768	O	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－1769	O	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－1770	O	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－1771	O	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－1772	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－1773	O	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－1774	O	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－1775	O	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－1776	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－1777	O	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－1778	O	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－1779	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－1780	O	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－1781	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－1782	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－1783	S	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1784	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1785	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－1786	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1787	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1788	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1789	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1790	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1791	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1792	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1793	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1794	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1795	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1796	S	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1797	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1798	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－1799	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－1800	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H

【表１８７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1801	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－1802	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－1803	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－1804	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－1805	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－1806	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－1807	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－1808	S	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－1809	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－1810	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1811	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－1812	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－1813	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－1814	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－1815	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－1816	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－1817	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－1818	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－1819	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－1820	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－1821	S	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－1822	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－1823	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1824	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－1825	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－1826	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－1827	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－1828	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－1829	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－1830	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－1831	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－1832	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－1833	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－1834	S	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－1835	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－1836	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1837	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－1838	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－1839	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－1840	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－1841	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－1842	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－1843	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－1844	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－1845	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－1846	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－1847	S	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－1848	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－1849	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1850	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－1851	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－1852	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－1853	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－1854	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－1855	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－1856	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－1857	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－1858	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－1859	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－1860	S	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H

【表１８８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1861	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－1862	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－1863	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1864	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1865	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1866	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1867	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1868	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1869	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1870	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1871	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1872	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1873	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1874	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－1875	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1876	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1877	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1878	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1879	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1880	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1881	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1882	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1883	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1884	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1885	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－1886	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－1887	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－1888	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－1889	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－1890	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－1891	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－1892	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－1893	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－1894	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－1895	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－1896	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－1897	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－1898	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－1899	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－1900	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－1901	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－1902	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－1903	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－1904	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－1905	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－1906	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－1907	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－1908	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－1909	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－1910	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－1911	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－1912	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－1913	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－1914	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－1915	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－1916	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－1917	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－1918	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－1919	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－1920	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H

【表１８９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1921	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－1922	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－1923	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－1924	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－1925	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－1926	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－1927	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－1928	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－1929	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－1930	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－1931	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－1932	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－1933	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－1934	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－1935	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－1936	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－1937	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－1938	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－1939	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－1940	S	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－1941	S	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－1942	S	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－1943	S	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－1944	S	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－1945	S	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－1946	S	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－1947	S	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－1948	S	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－1949	S	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－1950	S	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－1951	S	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－1952	S	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－1953	S	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－1954	S	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－1955	S	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－1956	S	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－1957	S	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－1958	S	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－1959	S	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－1960	S	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－1961	S	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－1962	S	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－1963	S	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－1964	S	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－1965	S	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－1966	S	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－1967	S	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－1968	S	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－1969	S	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－1970	S	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－1971	S	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－1972	S	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－1973	S	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－1974	S	2	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－1975	S	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－1976	S	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－1977	S	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－1978	S	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－1979	S	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－1980	S	2	H	H	F	H	H	H	H	F	H	H	H	H	H

【表１９０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－1981	S	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－1982	S	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－1983	S	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－1984	S	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－1985	S	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－1986	S	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－1987	S	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－1988	S	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－1989	S	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－1990	S	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－1991	S	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－1992	S	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－1993	S	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－1994	S	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－1995	S	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－1996	S	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－1997	S	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－1998	S	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－1999	S	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－2000	S	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－2001	S	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－2002	S	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－2003	S	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－2004	S	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－2005	S	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－2006	S	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－2007	S	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－2008	S	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－2009	S	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－2010	S	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－2011	S	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－2012	S	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－2013	S	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－2014	S	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－2015	S	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－2016	S	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－2017	S	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－2018	S	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－2019	S	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－2020	S	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－2021	S	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－2022	S	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－2023	S	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－2024	S	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－2025	S	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－2026	S	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－2027	S	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－2028	S	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－2029	S	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－2030	S	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－2031	S	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－2032	S	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－2033	S	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－2034	S	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－2035	S	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－2036	S	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－2037	S	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－2038	S	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－2039	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－2040	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F

【表１９１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2041	S	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－2042	S	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－2043	S	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－2044	S	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－2045	S	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－2046	S	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－2047	S	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－2048	S	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－2049	S	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－2050	S	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－2051	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－2052	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－2053	S	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－2054	S	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－2055	S	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－2056	S	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－2057	S	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－2058	S	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－2059	S	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－2060	S	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－2061	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－2062	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－2063	S	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－2064	S	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－2065	S	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－2066	S	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－2067	S	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－2068	S	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－2069	S	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－2070	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－2071	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－2072	S	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－2073	S	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－2074	S	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－2075	S	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－2076	S	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－2077	S	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－2078	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－2079	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－2080	S	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－2081	S	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－2082	S	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－2083	S	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－2084	S	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－2085	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－2086	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－2087	S	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－2088	S	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－2089	S	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－2090	S	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－2091	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－2092	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－2093	S	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－2094	S	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－2095	S	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－2096	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－2097	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－2098	S	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－2099	S	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－2100	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H

【表１９２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2101	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－2102	S	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－2103	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－2104	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－2105	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－2106	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－2107	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－2108	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2109	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2110	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2111	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2112	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2113	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2114	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2115	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2116	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2117	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2118	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2119	S	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2120	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2121	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－2122	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－2123	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2124	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2125	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2126	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2127	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2128	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2129	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2130	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2131	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2132	S	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2133	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2134	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2135	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2136	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2137	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2138	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2139	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2140	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2141	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2142	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2143	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2144	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2145	S	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2146	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2147	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2148	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－2149	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－2150	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－2151	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－2152	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－2153	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－2154	S	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－2155	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－2156	S	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－2157	S	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－2158	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－2159	S	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－2160	S	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H

【表１９３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2161	S	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－2162	S	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－2163	S	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－2164	S	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－2165	S	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－2166	S	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－2167	S	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－2168	S	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－2169	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－2170	S	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－2171	S	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－2172	S	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－2173	S	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－2174	S	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－2175	S	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－2176	S	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－2177	S	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－2178	S	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－2179	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－2180	S	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－2181	S	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－2182	S	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－2183	S	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－2184	S	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－2185	S	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－2186	S	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－2187	S	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－2188	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－2189	S	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－2190	S	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－2191	S	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－2192	S	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－2193	S	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－2194	S	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－2195	S	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－2196	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－2197	S	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－2198	S	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－2199	S	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－2200	S	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－2201	S	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－2202	S	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－2203	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－2204	S	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－2205	S	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－2206	S	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－2207	S	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－2208	S	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－2209	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－2210	S	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－2211	S	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－2212	S	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－2213	S	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－2214	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－2215	S	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－2216	S	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－2217	S	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－2218	S	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－2219	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－2220	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H

【表１９４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2221	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－2222	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－2223	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2224	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－2225	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－2226	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－2227	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－2228	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－2229	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－2230	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－2231	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－2232	S	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－2233	S	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－2234	S	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2235	S	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－2236	S	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－2237	S	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－2238	S	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－2239	S	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－2240	S	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－2241	S	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－2242	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－2243	S	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－2244	S	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－2245	S	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－2246	S	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－2247	S	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－2248	S	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－2249	S	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－2250	S	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－2251	S	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－2252	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－2253	S	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－2254	S	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－2255	S	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－2256	S	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－2257	S	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－2258	S	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－2259	S	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－2260	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－2261	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－2262	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－2263	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－2264	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－2265	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－2266	S	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－2267	S	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－2268	S	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－2269	S	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－2270	S	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－2271	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2272	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2273	S	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－2274	S	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－2275	S	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－2276	S	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－2277	S	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－2278	S	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－2279	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－2280	S	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H

【表１９５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2281	S	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－2282	S	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－2283	S	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－2284	S	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－2285	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－2286	S	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－2287	S	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－2288	S	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－2289	S	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－2290	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－2291	S	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－2292	S	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－2293	S	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－2294	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－2295	S	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－2296	S	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－2297	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－2298	S	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－2299	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－2300	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－2301	S	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2302	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－2303	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－2304	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－2305	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－2306	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－2307	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－2308	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－2309	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－2310	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－2311	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－2312	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－2313	S	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－2314	S	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－2315	S	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－2316	S	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－2317	S	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－2318	S	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－2319	S	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－2320	S	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－2321	S	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－2322	S	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－2323	S	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－2324	S	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－2325	S	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－2326	S	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－2327	S	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－2328	S	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－2329	S	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－2330	S	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－2331	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－2332	S	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－2333	S	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－2334	S	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－2335	S	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－2336	S	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－2337	S	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－2338	S	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－2339	S	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－2340	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F

【表１９６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2341	S	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－2342	S	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－2343	S	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－2344	S	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－2345	S	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－2346	S	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－2347	S	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－2348	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－2349	S	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－2350	S	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－2351	S	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－2352	S	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－2353	S	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－2354	S	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－2355	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－2356	S	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－2357	S	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－2358	S	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－2359	S	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－2360	S	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－2361	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－2362	S	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－2363	S	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－2364	S	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－2365	S	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－2366	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－2367	S	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－2368	S	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－2369	S	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－2370	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－2371	S	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－2372	S	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－2373	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－2374	S	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－2375	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－2376	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－2377	O	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2378	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2379	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－2380	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2381	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2382	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2383	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2384	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2385	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2386	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2387	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2388	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2389	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2390	O	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2391	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2392	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－2393	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－2394	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－2395	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－2396	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－2397	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－2398	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－2399	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－2400	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H

【表１９７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2401	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－2402	O	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－2403	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－2404	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2405	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－2406	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－2407	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－2408	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－2409	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－2410	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－2411	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－2412	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－2413	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－2414	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－2415	O	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－2416	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－2417	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2418	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－2419	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－2420	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－2421	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－2422	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－2423	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－2424	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－2425	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－2426	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－2427	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－2428	O	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－2429	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－2430	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2431	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－2432	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－2433	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－2434	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－2435	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－2436	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－2437	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－2438	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－2439	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－2440	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－2441	O	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－2442	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－2443	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2444	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－2445	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－2446	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－2447	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－2448	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－2449	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－2450	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－2451	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－2452	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－2453	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－2454	O	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－2455	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－2456	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－2457	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2458	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2459	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2460	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H

【表１９８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2461	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2462	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2463	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2464	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2465	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2466	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2467	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2468	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2469	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2470	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2471	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2472	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2473	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2474	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2475	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2476	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2477	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2478	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2479	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2480	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2481	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2482	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2483	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2484	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2485	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2486	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2487	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2488	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2489	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－2490	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－2491	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－2492	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－2493	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－2494	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－2495	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－2496	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－2497	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－2498	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－2499	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－2500	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－2501	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－2502	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－2503	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－2504	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－2505	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－2506	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－2507	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－2508	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－2509	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－2510	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－2511	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－2512	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－2513	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－2514	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－2515	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－2516	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－2517	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－2518	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－2519	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－2520	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H

【表１９９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2521	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－2522	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－2523	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－2524	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－2525	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－2526	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－2527	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－2528	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－2529	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－2530	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－2531	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－2532	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－2533	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－2534	O	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2535	O	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－2536	O	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－2537	O	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－2538	O	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－2539	O	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－2540	O	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－2541	O	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－2542	O	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－2543	O	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－2544	O	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－2545	O	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－2546	O	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－2547	O	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－2548	O	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－2549	O	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－2550	O	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－2551	O	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－2552	O	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－2553	O	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－2554	O	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－2555	O	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－2556	O	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－2557	O	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－2558	O	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－2559	O	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－2560	O	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－2561	O	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－2562	O	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－2563	O	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－2564	O	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－2565	O	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－2566	O	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－2567	O	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－2568	O	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－2569	O	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－2570	O	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－2571	O	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－2572	O	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－2573	O	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－2574	O	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－2575	O	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－2576	O	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－2577	O	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－2578	O	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－2579	O	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－2580	O	3	H	H	H	F	F	H	H	H	H	H	H	H	H

【表２００】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2581	O	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－2582	O	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－2583	O	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－2584	O	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－2585	O	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－2586	O	3	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－2587	O	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－2588	O	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－2589	O	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－2590	O	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－2591	O	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－2592	O	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－2593	O	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－2594	O	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－2595	O	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－2596	O	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－2597	O	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－2598	O	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－2599	O	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－2600	O	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－2601	O	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－2602	O	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－2603	O	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－2604	O	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－2605	O	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－2606	O	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－2607	O	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－2608	O	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－2609	O	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－2610	O	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－2611	O	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－2612	O	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－2613	O	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－2614	O	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－2615	O	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－2616	O	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－2617	O	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－2618	O	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－2619	O	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－2620	O	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－2621	O	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－2622	O	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－2623	O	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－2624	O	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－2625	O	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－2626	O	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－2627	O	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－2628	O	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－2629	O	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－2630	O	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－2631	O	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－2632	O	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－2633	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－2634	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－2635	O	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－2636	O	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－2637	O	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－2638	O	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－2639	O	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－2640	O	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H

【表２０１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2641	O	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－2642	O	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－2643	O	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－2644	O	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－2645	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－2646	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－2647	O	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－2648	O	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－2649	O	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－2650	O	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－2651	O	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－2652	O	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－2653	O	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－2654	O	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－2655	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－2656	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－2657	O	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－2658	O	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－2659	O	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－2660	O	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－2661	O	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－2662	O	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－2663	O	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－2664	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－2665	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－2666	O	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－2667	O	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－2668	O	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－2669	O	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－2670	O	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－2671	O	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－2672	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－2673	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－2674	O	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－2675	O	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－2676	O	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－2677	O	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－2678	O	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－2679	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－2680	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－2681	O	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－2682	O	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－2683	O	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－2684	O	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－2685	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－2686	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－2687	O	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－2688	O	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－2689	O	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－2690	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－2691	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－2692	O	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－2693	O	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－2694	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－2695	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－2696	O	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－2697	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－2698	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－2699	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－2700	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F

【表２０２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2701	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－2702	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2703	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2704	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2705	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2706	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2707	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2708	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2709	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2710	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2711	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2712	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2713	O	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2714	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2715	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－2716	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－2717	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2718	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2719	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2720	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2721	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2722	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2723	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2724	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2725	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2726	O	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2727	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2728	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2729	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2730	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2731	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2732	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2733	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2734	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2735	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2736	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2737	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2738	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2739	O	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2740	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2741	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－2742	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－2743	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－2744	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－2745	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－2746	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－2747	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－2748	O	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－2749	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－2750	O	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－2751	O	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－2752	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－2753	O	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－2754	O	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－2755	O	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－2756	O	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－2757	O	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－2758	O	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－2759	O	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－2760	O	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H

【表２０３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2761	O	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－2762	O	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－2763	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－2764	O	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－2765	O	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－2766	O	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－2767	O	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－2768	O	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－2769	O	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－2770	O	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－2771	O	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－2772	O	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－2773	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－2774	O	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－2775	O	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－2776	O	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－2777	O	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－2778	O	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－2779	O	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－2780	O	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－2781	O	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－2782	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－2783	O	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－2784	O	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－2785	O	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－2786	O	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－2787	O	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－2788	O	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－2789	O	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－2790	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－2791	O	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－2792	O	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－2793	O	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－2794	O	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－2795	O	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－2796	O	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－2797	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－2798	O	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－2799	O	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－2800	O	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－2801	O	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－2802	O	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－2803	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－2804	O	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－2805	O	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－2806	O	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－2807	O	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－2808	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－2809	O	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－2810	O	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－2811	O	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－2812	O	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－2813	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－2814	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－2815	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－2816	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－2817	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2818	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－2819	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－2820	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H

【表２０４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2821	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－2822	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－2823	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－2824	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－2825	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－2826	O	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－2827	O	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－2828	O	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2829	O	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－2830	O	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－2831	O	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－2832	O	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－2833	O	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－2834	O	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－2835	O	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－2836	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－2837	O	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－2838	O	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－2839	O	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－2840	O	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－2841	O	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－2842	O	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－2843	O	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－2844	O	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－2845	O	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－2846	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－2847	O	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－2848	O	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－2849	O	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－2850	O	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－2851	O	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－2852	O	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－2853	O	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－2854	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－2855	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－2856	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－2857	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－2858	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－2859	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－2860	O	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－2861	O	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－2862	O	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－2863	O	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－2864	O	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－2865	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2866	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－2867	O	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－2868	O	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－2869	O	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－2870	O	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－2871	O	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－2872	O	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－2873	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－2874	O	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－2875	O	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－2876	O	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－2877	O	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－2878	O	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－2879	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－2880	O	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H

【表２０５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2881	O	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－2882	O	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－2883	O	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－2884	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－2885	O	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－2886	O	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－2887	O	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－2888	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－2889	O	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－2890	O	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－2891	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－2892	O	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－2893	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－2894	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－2895	O	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－2896	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－2897	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－2898	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－2899	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－2900	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－2901	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－2902	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－2903	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－2904	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－2905	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－2906	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－2907	O	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－2908	O	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－2909	O	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－2910	O	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－2911	O	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－2912	O	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－2913	O	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－2914	O	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－2915	O	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－2916	O	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－2917	O	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－2918	O	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－2919	O	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－2920	O	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－2921	O	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－2922	O	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－2923	O	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－2924	O	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－2925	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－2926	O	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－2927	O	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－2928	O	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－2929	O	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－2930	O	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－2931	O	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－2932	O	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－2933	O	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－2934	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－2935	O	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－2936	O	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－2937	O	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－2938	O	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－2939	O	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－2940	O	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H

【表２０６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－2941	O	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－2942	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－2943	O	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－2944	O	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－2945	O	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－2946	O	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－2947	O	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－2948	O	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－2949	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－2950	O	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－2951	O	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－2952	O	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－2953	O	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－2954	O	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－2955	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－2956	O	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－2957	O	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－2958	O	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－2959	O	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－2960	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－2961	O	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－2962	O	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－2963	O	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－2964	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－2965	O	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－2966	O	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－2967	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－2968	O	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－2969	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－2970	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－2971	S	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2972	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2973	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－2974	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－2975	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－2976	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－2977	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－2978	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－2979	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－2980	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－2981	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－2982	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－2983	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－2984	S	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－2985	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2986	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－2987	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－2988	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－2989	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－2990	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－2991	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－2992	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－2993	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－2994	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－2995	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－2996	S	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－2997	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－2998	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－2999	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－3000	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H

【表２０７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3001	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－3002	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－3003	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－3004	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－3005	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－3006	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－3007	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－3008	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－3009	S	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－3010	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－3011	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3012	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－3013	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－3014	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－3015	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－3016	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－3017	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－3018	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－3019	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－3020	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－3021	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－3022	S	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－3023	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－3024	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3025	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－3026	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－3027	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－3028	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－3029	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－3030	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－3031	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－3032	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－3033	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－3034	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－3035	S	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－3036	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－3037	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3038	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－3039	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－3040	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－3041	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－3042	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－3043	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－3044	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－3045	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－3046	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－3047	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－3048	S	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－3049	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－3050	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－3051	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3052	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3053	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3054	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3055	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3056	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3057	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3058	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3059	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3060	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H

【表２０８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3061	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3062	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3063	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3064	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3065	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3066	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3067	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3068	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3069	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3070	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3071	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3072	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3073	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3074	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3075	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3076	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3077	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3078	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3079	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3080	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3081	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3082	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3083	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－3084	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－3085	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－3086	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－3087	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－3088	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－3089	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－3090	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－3091	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－3092	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－3093	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－3094	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－3095	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－3096	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－3097	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－3098	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－3099	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－3100	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－3101	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－3102	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－3103	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－3104	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－3105	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－3106	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－3107	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－3108	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－3109	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－3110	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－3111	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－3112	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－3113	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－3114	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－3115	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－3116	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－3117	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－3118	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－3119	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－3120	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H

【表２０９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3121	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－3122	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－3123	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－3124	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－3125	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－3126	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－3127	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－3128	S	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3129	S	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3130	S	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3131	S	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3132	S	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3133	S	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3134	S	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3135	S	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3136	S	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3137	S	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3138	S	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3139	S	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3140	S	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3141	S	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3142	S	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3143	S	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3144	S	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3145	S	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3146	S	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3147	S	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3148	S	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3149	S	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3150	S	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3151	S	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3152	S	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3153	S	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－3154	S	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－3155	S	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－3156	S	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－3157	S	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－3158	S	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－3159	S	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－3160	S	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－3161	S	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－3162	S	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－3163	S	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－3164	S	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－3165	S	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－3166	S	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－3167	S	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－3168	S	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－3169	S	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－3170	S	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－3171	S	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－3172	S	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－3173	S	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－3174	S	3	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－3175	S	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－3176	S	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－3177	S	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－3178	S	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－3179	S	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－3180	S	3	H	H	H	F	H	H	H	H	H	H	F	H	H

【表２１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3181	S	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－3182	S	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－3183	S	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－3184	S	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－3185	S	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－3186	S	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－3187	S	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－3188	S	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－3189	S	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－3190	S	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－3191	S	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－3192	S	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－3193	S	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－3194	S	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－3195	S	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－3196	S	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－3197	S	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－3198	S	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－3199	S	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－3200	S	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－3201	S	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－3202	S	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－3203	S	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－3204	S	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－3205	S	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－3206	S	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－3207	S	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－3208	S	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－3209	S	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－3210	S	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－3211	S	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－3212	S	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－3213	S	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－3214	S	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－3215	S	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－3216	S	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－3217	S	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3218	S	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3219	S	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3220	S	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3221	S	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3222	S	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3223	S	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3224	S	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3225	S	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3226	S	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3227	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3228	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3229	S	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－3230	S	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－3231	S	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－3232	S	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－3233	S	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－3234	S	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－3235	S	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－3236	S	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－3237	S	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－3238	S	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－3239	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－3240	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F

【表２１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3241	S	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－3242	S	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－3243	S	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－3244	S	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－3245	S	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－3246	S	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－3247	S	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－3248	S	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－3249	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－3250	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－3251	S	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－3252	S	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－3253	S	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－3254	S	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－3255	S	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－3256	S	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－3257	S	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－3258	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－3259	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－3260	S	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－3261	S	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－3262	S	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－3263	S	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－3264	S	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－3265	S	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－3266	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－3267	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－3268	S	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－3269	S	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－3270	S	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－3271	S	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－3272	S	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－3273	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－3274	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－3275	S	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－3276	S	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－3277	S	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－3278	S	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－3279	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－3280	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－3281	S	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－3282	S	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－3283	S	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－3284	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－3285	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－3286	S	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－3287	S	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－3288	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－3289	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－3290	S	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－3291	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－3292	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－3293	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－3294	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－3295	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－3296	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3297	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3298	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3299	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3300	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H

【表２１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3301	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3302	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3303	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3304	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3305	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3306	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3307	S	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3308	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3309	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－3310	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－3311	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3312	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3313	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3314	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3315	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3316	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3317	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3318	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3319	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3320	S	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3321	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3322	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－3323	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－3324	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3325	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3326	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3327	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3328	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3329	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3330	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3331	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3332	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3333	S	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3334	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3335	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3336	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－3337	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－3338	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－3339	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－3340	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－3341	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－3342	S	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－3343	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－3344	S	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－3345	S	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－3346	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－3347	S	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－3348	S	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－3349	S	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－3350	S	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－3351	S	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－3352	S	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－3353	S	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－3354	S	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－3355	S	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－3356	S	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－3357	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－3358	S	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－3359	S	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－3360	S	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H

【表２１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3361	S	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－3362	S	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－3363	S	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－3364	S	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－3365	S	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－3366	S	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－3367	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－3368	S	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－3369	S	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－3370	S	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－3371	S	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－3372	S	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－3373	S	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－3374	S	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－3375	S	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－3376	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－3377	S	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－3378	S	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－3379	S	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－3380	S	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－3381	S	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－3382	S	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－3383	S	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－3384	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－3385	S	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－3386	S	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－3387	S	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－3388	S	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－3389	S	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－3390	S	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－3391	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－3392	S	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－3393	S	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－3394	S	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－3395	S	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－3396	S	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－3397	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－3398	S	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－3399	S	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－3400	S	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－3401	S	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－3402	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－3403	S	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－3404	S	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－3405	S	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－3406	S	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－3407	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－3408	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－3409	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－3410	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－3411	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－3412	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－3413	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－3414	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－3415	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－3416	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－3417	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－3418	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－3419	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－3420	S	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H

【表２１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3421	S	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－3422	S	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－3423	S	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－3424	S	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－3425	S	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－3426	S	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－3427	S	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－3428	S	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－3429	S	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－3430	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－3431	S	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－3432	S	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－3433	S	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－3434	S	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－3435	S	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－3436	S	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－3437	S	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－3438	S	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－3439	S	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－3440	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－3441	S	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－3442	S	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－3443	S	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－3444	S	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－3445	S	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－3446	S	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－3447	S	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－3448	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－3449	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－3450	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－3451	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－3452	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－3453	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－3454	S	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－3455	S	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－3456	S	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－3457	S	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－3458	S	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－3459	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－3460	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－3461	S	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－3462	S	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－3463	S	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－3464	S	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－3465	S	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－3466	S	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－3467	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－3468	S	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－3469	S	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－3470	S	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－3471	S	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－3472	S	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－3473	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－3474	S	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－3475	S	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－3476	S	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－3477	S	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－3478	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－3479	S	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－3480	S	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H

【表２１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3481	S	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－3482	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－3483	S	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－3484	S	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－3485	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－3486	S	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－3487	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－3488	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－3489	S	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－3490	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－3491	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－3492	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－3493	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－3494	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－3495	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－3496	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－3497	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－3498	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－3499	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－3500	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－3501	S	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－3502	S	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－3503	S	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－3504	S	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－3505	S	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－3506	S	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－3507	S	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－3508	S	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－3509	S	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－3510	S	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－3511	S	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－3512	S	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－3513	S	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－3514	S	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－3515	S	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－3516	S	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－3517	S	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－3518	S	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－3519	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－3520	S	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－3521	S	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－3522	S	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－3523	S	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－3524	S	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－3525	S	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－3526	S	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－3527	S	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－3528	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－3529	S	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－3530	S	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－3531	S	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－3532	S	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－3533	S	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－3534	S	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－3535	S	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－3536	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－3537	S	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－3538	S	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－3539	S	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－3540	S	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H

【表２１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3541	S	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－3542	S	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－3543	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－3544	S	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－3545	S	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－3546	S	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－3547	S	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－3548	S	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－3549	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－3550	S	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－3551	S	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－3552	S	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－3553	S	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－3554	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－3555	S	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－3556	S	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－3557	S	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－3558	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－3559	S	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－3560	S	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－3561	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－3562	S	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－3563	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－3564	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－3565	O	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3566	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3567	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－3568	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3569	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3570	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3571	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3572	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3573	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3574	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3575	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3576	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3577	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3578	O	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3579	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3580	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－3581	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－3582	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－3583	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－3584	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－3585	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－3586	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－3587	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－3588	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－3589	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－3590	O	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－3591	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－3592	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3593	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－3594	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－3595	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－3596	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－3597	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－3598	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－3599	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－3600	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H

【表２１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3601	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－3602	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－3603	O	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－3604	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－3605	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3606	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(IV)－3607	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－3608	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－3609	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－3610	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－3611	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－3612	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－3613	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－3614	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－3615	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－3616	O	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－3617	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－3618	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3619	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－3620	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－3621	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－3622	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－3623	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－3624	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－3625	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－3626	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－3627	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－3628	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－3629	O	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－3630	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－3631	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3632	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－3633	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－3634	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－3635	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－3636	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－3637	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－3638	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－3639	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－3640	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－3641	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－3642	O	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－3643	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－3644	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－3645	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3646	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3647	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3648	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3649	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3650	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3651	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3652	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3653	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3654	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3655	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3656	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3657	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3658	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3659	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3660	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H

【表２１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)−3661	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)−3662	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)−3663	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)−3664	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)−3665	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)−3666	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)−3667	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)−3668	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)−3669	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)−3670	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)−3671	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)−3672	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)−3673	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)−3674	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)−3675	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)−3676	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)−3677	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)−3678	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)−3679	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)−3680	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)−3681	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)−3682	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)−3683	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)−3684	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)−3685	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)−3686	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)−3687	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)−3688	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)−3689	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)−3690	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)−3691	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)−3692	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)−3693	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)−3694	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)−3695	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)−3696	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)−3697	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)−3698	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)−3699	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)−3700	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)−3701	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)−3702	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)−3703	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)−3704	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)−3705	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)−3706	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)−3707	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)−3708	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)−3709	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)−3710	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)−3711	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)−3712	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)−3713	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)−3714	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)−3715	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)−3716	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)−3717	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)−3718	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)−3719	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)−3720	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3

【表２１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3721	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－3722	O	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－3723	O	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3724	O	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3725	O	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3726	O	4	H	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3727	O	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3728	O	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3729	O	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3730	O	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3731	O	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3732	O	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3733	O	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3734	O	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3735	O	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3736	O	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3737	O	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3738	O	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3739	O	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3740	O	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3741	O	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3742	O	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3743	O	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3744	O	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3745	O	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3746	O	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3747	O	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－3748	O	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－3749	O	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－3750	O	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－3751	O	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－3752	O	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－3753	O	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－3754	O	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－3755	O	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－3756	O	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－3757	O	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－3758	O	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－3759	O	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－3760	O	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－3761	O	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－3762	O	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－3763	O	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－3764	O	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－3765	O	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－3766	O	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－3767	O	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－3768	O	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－3769	O	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－3770	O	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－3771	O	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－3772	O	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－3773	O	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－3774	O	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－3775	O	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－3776	O	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－3777	O	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－3778	O	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－3779	O	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－3780	O	4	H	H	H	H	F	H	H	H	F	H	H	H	H

【表２２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3781	O	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－3782	O	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－3783	O	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－3784	O	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－3785	O	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－3786	O	4	H	H	H	H	H	F	H	F	H	H	H	H	H
(IV)－3787	O	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－3788	O	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－3789	O	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－3790	O	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－3791	O	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－3792	O	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－3793	O	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－3794	O	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－3795	O	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－3796	O	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－3797	O	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－3798	O	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－3799	O	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－3800	O	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－3801	O	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－3802	O	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－3803	O	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－3804	O	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－3805	O	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－3806	O	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－3807	O	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－3808	O	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－3809	O	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－3810	O	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－3811	O	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－3812	O	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－3813	O	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－3814	O	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－3815	O	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－3816	O	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－3817	O	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－3818	O	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－3819	O	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－3820	O	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－3821	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－3822	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－3823	O	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－3824	O	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－3825	O	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－3826	O	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－3827	O	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－3828	O	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－3829	O	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－3830	O	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－3831	O	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－3832	O	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－3833	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－3834	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－3835	O	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－3836	O	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－3837	O	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－3838	O	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－3839	O	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－3840	O	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H

【表２２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3841	O	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－3842	O	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－3843	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－3844	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－3845	O	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－3846	O	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(IV)－3847	O	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－3848	O	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－3849	O	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－3850	O	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－3851	O	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－3852	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－3853	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－3854	O	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－3855	O	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－3856	O	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－3857	O	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－3858	O	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－3859	O	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－3860	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－3861	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－3862	O	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－3863	O	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－3864	O	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－3865	O	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－3866	O	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－3867	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－3868	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－3869	O	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－3870	O	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－3871	O	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－3872	O	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－3873	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－3874	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－3875	O	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－3876	O	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－3877	O	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－3878	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－3879	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－3880	O	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－3881	O	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－3882	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－3883	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－3884	O	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－3885	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－3886	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－3887	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－3888	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－3889	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－3890	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3891	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3892	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3893	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3894	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3895	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3896	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3897	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3898	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3899	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3900	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H

【表２２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3901	O	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3902	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3903	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－3904	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－3905	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3906	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3907	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3908	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3909	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3910	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3911	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3912	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3913	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3914	O	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3915	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3916	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－3917	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－3918	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－3919	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－3920	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－3921	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－3922	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－3923	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－3924	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－3925	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－3926	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－3927	O	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－3928	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－3929	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－3930	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－3931	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－3932	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－3933	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－3934	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－3935	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－3936	O	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－3937	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－3938	O	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－3939	O	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－3940	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－3941	O	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－3942	O	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－3943	O	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－3944	O	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－3945	O	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－3946	O	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－3947	O	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－3948	O	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－3949	O	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－3950	O	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－3951	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－3952	O	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－3953	O	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－3954	O	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－3955	O	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－3956	O	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－3957	O	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－3958	O	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－3959	O	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－3960	O	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H

【表２２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－3961	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－3962	O	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－3963	O	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－3964	O	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－3965	O	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－3966	O	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(IV)－3967	O	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－3968	O	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－3969	O	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－3970	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－3971	O	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－3972	O	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－3973	O	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－3974	O	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－3975	O	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－3976	O	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－3977	O	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－3978	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－3979	O	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－3980	O	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－3981	O	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－3982	O	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－3983	O	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－3984	O	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－3985	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－3986	O	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－3987	O	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－3988	O	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－3989	O	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－3990	O	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－3991	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－3992	O	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－3993	O	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－3994	O	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－3995	O	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－3996	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－3997	O	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－3998	O	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－3999	O	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－4000	O	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－4001	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－4002	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－4003	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－4004	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－4005	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4006	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－4007	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－4008	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－4009	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－4010	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－4011	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－4012	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－4013	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－4014	O	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－4015	O	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－4016	O	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4017	O	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－4018	O	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－4019	O	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－4020	O	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H

【表２２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4021	O	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－4022	O	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－4023	O	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－4024	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－4025	O	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－4026	O	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(IV)－4027	O	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－4028	O	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－4029	O	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－4030	O	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－4031	O	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－4032	O	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－4033	O	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－4034	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－4035	O	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－4036	O	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－4037	O	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－4038	O	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－4039	O	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－4040	O	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－4041	O	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－4042	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－4043	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－4044	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－4045	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－4046	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－4047	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－4048	O	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－4049	O	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－4050	O	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－4051	O	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－4052	O	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－4053	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4054	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4055	O	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－4056	O	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－4057	O	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－4058	O	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－4059	O	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－4060	O	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－4061	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－4062	O	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－4063	O	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－4064	O	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－4065	O	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－4066	O	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－4067	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－4068	O	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－4069	O	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－4070	O	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－4071	O	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－4072	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－4073	O	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－4074	O	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－4075	O	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－4076	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－4077	O	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－4078	O	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－4079	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－4080	O	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H

【表２２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4081	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－4082	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－4083	O	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－4084	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－4085	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－4086	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－4087	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－4088	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－4089	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－4090	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－4091	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－4092	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－4093	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－4094	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－4095	O	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－4096	O	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－4097	O	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－4098	O	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－4099	O	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－4100	O	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－4101	O	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－4102	O	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－4103	O	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－4104	O	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－4105	O	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－4106	O	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－4107	O	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－4108	O	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－4109	O	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－4110	O	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－4111	O	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－4112	O	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－4113	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－4114	O	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－4115	O	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－4116	O	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－4117	O	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－4118	O	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－4119	O	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－4120	O	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－4121	O	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－4122	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－4123	O	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－4124	O	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－4125	O	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－4126	O	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－4127	O	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－4128	O	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－4129	O	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－4130	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－4131	O	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－4132	O	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－4133	O	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－4134	O	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－4135	O	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－4136	O	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－4137	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－4138	O	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－4139	O	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－4140	O	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H

【表２２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4141	O	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－4142	O	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－4143	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－4144	O	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－4145	O	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－4146	O	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(IV)－4147	O	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－4148	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－4149	O	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－4150	O	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－4151	O	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－4152	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－4153	O	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－4154	O	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－4155	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－4156	O	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－4157	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－4158	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(IV)－4159	S	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4160	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4161	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－4162	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4163	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4164	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4165	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4166	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4167	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4168	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4169	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4170	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4171	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4172	S	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4173	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4174	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(IV)－4175	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(IV)－4176	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(IV)－4177	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(IV)－4178	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(IV)－4179	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(IV)－4180	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(IV)－4181	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(IV)－4182	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(IV)－4183	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(IV)－4184	S	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(IV)－4185	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(IV)－4186	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4187	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(IV)－4188	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(IV)－4189	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(IV)－4190	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(IV)－4191	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(IV)－4192	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(IV)－4193	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(IV)－4194	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(IV)－4195	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(IV)－4196	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(IV)－4197	S	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(IV)－4198	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(IV)－4199	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4200	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H

【表２２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4201	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(IV)－4202	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(IV)－4203	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(IV)－4204	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(IV)－4205	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(IV)－4206	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(IV)－4207	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(IV)－4208	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(IV)－4209	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(IV)－4210	S	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(IV)－4211	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(IV)－4212	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4213	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(IV)－4214	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(IV)－4215	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(IV)－4216	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(IV)－4217	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(IV)－4218	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(IV)－4219	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(IV)－4220	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(IV)－4221	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(IV)－4222	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(IV)－4223	S	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(IV)－4224	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(IV)－4225	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4226	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(IV)－4227	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(IV)－4228	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(IV)－4229	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(IV)－4230	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(IV)－4231	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(IV)－4232	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(IV)－4233	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(IV)－4234	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(IV)－4235	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(IV)－4236	S	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(IV)－4237	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(IV)－4238	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－4239	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4240	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4241	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4242	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4243	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4244	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4245	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4246	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4247	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4248	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4249	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4250	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4251	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4252	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4253	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4254	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4255	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4256	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4257	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4258	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4259	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4260	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3

【表２２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4261	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4262	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4263	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4264	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4265	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4266	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4267	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4268	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4269	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4270	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4271	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(IV)－4272	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(IV)－4273	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(IV)－4274	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(IV)－4275	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(IV)－4276	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(IV)－4277	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(IV)－4278	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(IV)－4279	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(IV)－4280	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(IV)－4281	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(IV)－4282	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(IV)－4283	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(IV)－4284	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(IV)－4285	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(IV)－4286	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(IV)－4287	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(IV)－4288	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(IV)－4289	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(IV)－4290	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(IV)－4291	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(IV)－4292	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(IV)－4293	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(IV)－4294	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(IV)－4295	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(IV)－4296	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(IV)－4297	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(IV)－4298	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(IV)－4299	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(IV)－4300	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(IV)－4301	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(IV)－4302	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(IV)－4303	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(IV)－4304	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(IV)－4305	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(IV)－4306	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(IV)－4307	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(IV)－4308	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(IV)－4309	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(IV)－4310	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(IV)－4311	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(IV)－4312	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(IV)－4313	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(IV)－4314	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(IV)－4315	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(IV)－4316	S	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(IV)－4317	S	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－4318	S	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－4319	S	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－4320	S	4	H	H	H	H	F	H	H	H	H	H	H	H	H

【表２２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4321	S	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－4322	S	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－4323	S	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－4324	S	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－4325	S	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－4326	S	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－4327	S	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－4328	S	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－4329	S	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－4330	S	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－4331	S	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－4332	S	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－4333	S	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－4334	S	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－4335	S	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－4336	S	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－4337	S	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－4338	S	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－4339	S	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－4340	S	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－4341	S	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(IV)－4342	S	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(IV)－4343	S	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(IV)－4344	S	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(IV)－4345	S	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(IV)－4346	S	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(IV)－4347	S	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(IV)－4348	S	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(IV)－4349	S	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(IV)－4350	S	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(IV)－4351	S	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(IV)－4352	S	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(IV)－4353	S	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(IV)－4354	S	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(IV)－4355	S	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(IV)－4356	S	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(IV)－4357	S	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(IV)－4358	S	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(IV)－4359	S	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(IV)－4360	S	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(IV)－4361	S	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(IV)－4362	S	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(IV)－4363	S	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(IV)－4364	S	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(IV)－4365	S	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(IV)－4366	S	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(IV)－4367	S	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(IV)－4368	S	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(IV)－4369	S	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(IV)－4370	S	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(IV)－4371	S	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(IV)－4372	S	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(IV)－4373	S	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(IV)－4374	S	4	H	H	H	H	F	H	H	H	F	H	H	H	H
(IV)－4375	S	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(IV)－4376	S	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(IV)－4377	S	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(IV)－4378	S	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(IV)－4379	S	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(IV)－4380	S	4	H	H	H	H	H	F	H	F	H	H	H	H	H

【表２３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4381	S	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(IV)－4382	S	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(IV)－4383	S	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(IV)－4384	S	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(IV)－4385	S	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(IV)－4386	S	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(IV)－4387	S	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(IV)－4388	S	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(IV)－4389	S	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(IV)－4390	S	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(IV)－4391	S	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(IV)－4392	S	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(IV)－4393	S	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(IV)－4394	S	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(IV)－4395	S	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(IV)－4396	S	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(IV)－4397	S	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(IV)－4398	S	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(IV)－4399	S	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(IV)－4400	S	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(IV)－4401	S	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(IV)－4402	S	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(IV)－4403	S	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(IV)－4404	S	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(IV)－4405	S	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(IV)－4406	S	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(IV)－4407	S	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(IV)－4408	S	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(IV)－4409	S	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(IV)－4410	S	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(IV)－4411	S	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(IV)－4412	S	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(IV)－4413	S	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(IV)－4414	S	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(IV)－4415	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(IV)－4416	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(IV)－4417	S	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(IV)－4418	S	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(IV)－4419	S	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(IV)－4420	S	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(IV)－4421	S	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(IV)－4422	S	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(IV)－4423	S	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(IV)－4424	S	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(IV)－4425	S	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(IV)－4426	S	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(IV)－4427	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(IV)－4428	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(IV)－4429	S	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(IV)－4430	S	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(IV)－4431	S	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(IV)－4432	S	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(IV)－4433	S	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(IV)－4434	S	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(IV)－4435	S	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(IV)－4436	S	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(IV)－4437	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(IV)－4438	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(IV)－4439	S	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(IV)－4440	S	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H

【表２３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4441	S	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(IV)－4442	S	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(IV)－4443	S	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(IV)－4444	S	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(IV)－4445	S	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(IV)－4446	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(IV)－4447	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(IV)－4448	S	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(IV)－4449	S	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(IV)－4450	S	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(IV)－4451	S	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(IV)－4452	S	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(IV)－4453	S	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(IV)－4454	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(IV)－4455	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(IV)－4456	S	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(IV)－4457	S	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(IV)－4458	S	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(IV)－4459	S	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(IV)－4460	S	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(IV)－4461	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(IV)－4462	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(IV)－4463	S	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(IV)－4464	S	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(IV)－4465	S	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(IV)－4466	S	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(IV)－4467	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(IV)－4468	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(IV)－4469	S	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(IV)－4470	S	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(IV)－4471	S	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(IV)－4472	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(IV)－4473	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(IV)－4474	S	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(IV)－4475	S	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(IV)－4476	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(IV)－4477	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(IV)－4478	S	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(IV)－4479	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(IV)－4480	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(IV)－4481	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(IV)－4482	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(IV)－4483	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(IV)－4484	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－4485	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－4486	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4487	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4488	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4489	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4490	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4491	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4492	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4493	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4494	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4495	S	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4496	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4497	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－4498	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－4499	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4500	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H

【表２３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4501	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4502	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4503	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4504	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4505	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4506	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4507	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4508	S	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4509	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4510	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－4511	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－4512	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(IV)－4513	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(IV)－4514	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(IV)－4515	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(IV)－4516	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(IV)－4517	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(IV)－4518	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(IV)－4519	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(IV)－4520	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(IV)－4521	S	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(IV)－4522	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(IV)－4523	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(IV)－4524	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－4525	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－4526	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－4527	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－4528	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－4529	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－4530	S	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－4531	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－4532	S	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－4533	S	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－4534	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－4535	S	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(IV)－4536	S	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(IV)－4537	S	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(IV)－4538	S	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(IV)－4539	S	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(IV)－4540	S	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(IV)－4541	S	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(IV)－4542	S	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(IV)－4543	S	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(IV)－4544	S	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(IV)－4545	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(IV)－4546	S	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(IV)－4547	S	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(IV)－4548	S	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(IV)－4549	S	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(IV)－4550	S	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(IV)－4551	S	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(IV)－4552	S	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(IV)－4553	S	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(IV)－4554	S	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(IV)－4555	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(IV)－4556	S	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(IV)－4557	S	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(IV)－4558	S	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(IV)－4559	S	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(IV)－4560	S	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H

【表２３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4561	S	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(IV)－4562	S	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(IV)－4563	S	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(IV)－4564	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(IV)－4565	S	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(IV)－4566	S	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(IV)－4567	S	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(IV)－4568	S	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(IV)－4569	S	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(IV)－4570	S	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(IV)－4571	S	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(IV)－4572	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(IV)－4573	S	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(IV)－4574	S	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(IV)－4575	S	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(IV)－4576	S	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(IV)－4577	S	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(IV)－4578	S	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(IV)－4579	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(IV)－4580	S	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(IV)－4581	S	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(IV)－4582	S	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(IV)－4583	S	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(IV)－4584	S	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(IV)－4585	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(IV)－4586	S	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(IV)－4587	S	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(IV)－4588	S	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(IV)－4589	S	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(IV)－4590	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(IV)－4591	S	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(IV)－4592	S	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(IV)－4593	S	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(IV)－4594	S	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(IV)－4595	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(IV)－4596	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(IV)－4597	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－4598	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－4599	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4600	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－4601	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－4602	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－4603	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－4604	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－4605	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－4606	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－4607	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－4608	S	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(IV)－4609	S	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(IV)－4610	S	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4611	S	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(IV)－4612	S	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(IV)－4613	S	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(IV)－4614	S	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(IV)－4615	S	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(IV)－4616	S	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(IV)－4617	S	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(IV)－4618	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(IV)－4619	S	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(IV)－4620	S	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H

【表２３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4621	S	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(IV)－4622	S	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(IV)－4623	S	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(IV)－4624	S	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(IV)－4625	S	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(IV)－4626	S	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(IV)－4627	S	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(IV)－4628	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(IV)－4629	S	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(IV)－4630	S	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(IV)－4631	S	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(IV)－4632	S	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(IV)－4633	S	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(IV)－4634	S	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(IV)－4635	S	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(IV)－4636	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－4637	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－4638	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－4639	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(IV)－4640	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(IV)－4641	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(IV)－4642	S	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(IV)－4643	S	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(IV)－4644	S	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(IV)－4645	S	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(IV)－4646	S	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(IV)－4647	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4648	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(IV)－4649	S	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(IV)－4650	S	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(IV)－4651	S	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(IV)－4652	S	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(IV)－4653	S	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(IV)－4654	S	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(IV)－4655	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(IV)－4656	S	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(IV)－4657	S	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(IV)－4658	S	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(IV)－4659	S	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(IV)－4660	S	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(IV)－4661	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(IV)－4662	S	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(IV)－4663	S	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(IV)－4664	S	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(IV)－4665	S	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(IV)－4666	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(IV)－4667	S	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(IV)－4668	S	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(IV)－4669	S	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(IV)－4670	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(IV)－4671	S	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(IV)－4672	S	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(IV)－4673	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(IV)－4674	S	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(IV)－4675	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(IV)－4676	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(IV)－4677	S	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(IV)－4678	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－4679	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－4680	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H

【表２３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4681	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－4682	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－4683	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－4684	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－4685	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－4686	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－4687	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(IV)－4688	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(IV)－4689	S	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(IV)－4690	S	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(IV)－4691	S	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(IV)－4692	S	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(IV)－4693	S	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(IV)－4694	S	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(IV)－4695	S	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(IV)－4696	S	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(IV)－4697	S	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(IV)－4698	S	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(IV)－4699	S	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(IV)－4700	S	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(IV)－4701	S	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(IV)－4702	S	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(IV)－4703	S	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(IV)－4704	S	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(IV)－4705	S	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(IV)－4706	S	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(IV)－4707	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(IV)－4708	S	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(IV)－4709	S	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(IV)－4710	S	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(IV)－4711	S	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(IV)－4712	S	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(IV)－4713	S	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(IV)－4714	S	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(IV)－4715	S	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(IV)－4716	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(IV)－4717	S	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(IV)－4718	S	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(IV)－4719	S	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(IV)－4720	S	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(IV)－4721	S	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(IV)－4722	S	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(IV)－4723	S	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(IV)－4724	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(IV)－4725	S	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(IV)－4726	S	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(IV)－4727	S	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(IV)－4728	S	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(IV)－4729	S	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(IV)－4730	S	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(IV)－4731	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(IV)－4732	S	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(IV)－4733	S	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(IV)－4734	S	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(IV)－4735	S	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(IV)－4736	S	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(IV)－4737	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(IV)－4738	S	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(IV)－4739	S	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(IV)－4740	S	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H

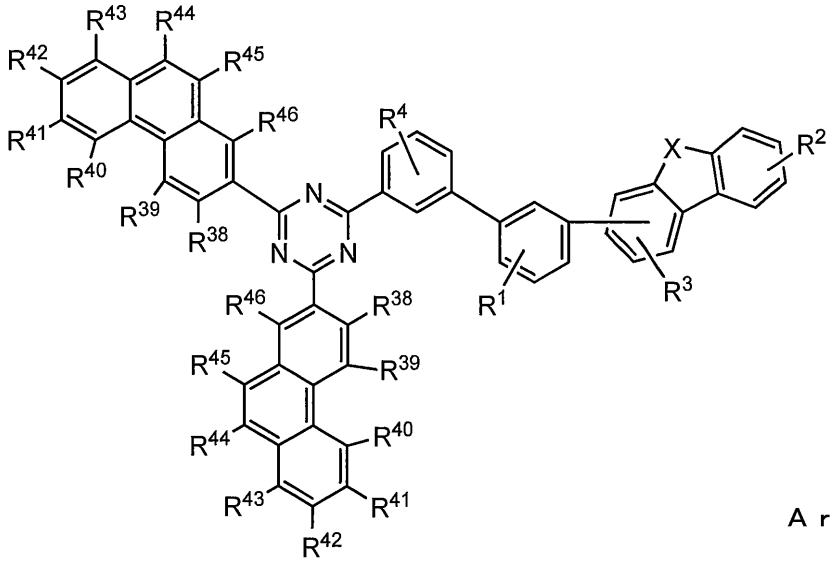
【表２３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{29}	R^{30}	R^{31}	R^{32}	R^{33}	R^{34}	R^{35}	R^{36}	R^{37}
(IV)－4741	S	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(IV)－4742	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(IV)－4743	S	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(IV)－4744	S	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(IV)－4745	S	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(IV)－4746	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(IV)－4747	S	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(IV)－4748	S	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(IV)－4749	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(IV)－4750	S	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(IV)－4751	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(IV)－4752	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F

【００３８】

下記式で表される化合物を表２３７～表３１６に示す。式中のＸ、Ｒ^{1}～Ｒ^{4}、Ｒ^{38}～Ｒ^{46}は、前記一般式〔１〕の場合と同じである。

【化１９】



Ａｒ＝(Ｖ)

【００３９】

【表２３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1	O	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－13	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－14	O	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－15	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－16	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－17	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－18	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－19	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－20	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－21	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－22	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－23	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－24	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－25	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－26	O	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－27	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－28	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－29	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－30	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－31	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－32	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－33	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－34	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－35	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－36	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－37	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－38	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－39	O	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－40	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－41	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－42	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－43	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－44	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－45	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－46	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－47	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－48	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－49	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－50	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－51	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－52	O	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－53	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－54	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－55	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－56	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－57	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－58	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－59	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－60	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表２３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－61	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－62	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－63	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－64	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－65	O	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－66	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－67	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－68	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－69	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－70	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－71	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－72	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－73	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－74	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－75	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－76	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－77	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－78	O	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－79	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－80	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－81	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－82	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－83	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－84	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－85	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－86	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－87	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－88	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－89	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－90	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－91	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－92	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－93	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－94	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－95	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－96	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－97	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－98	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－99	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－100	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－101	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－102	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－103	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－104	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－105	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－106	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－107	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－108	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－109	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－110	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－111	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－112	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－113	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－114	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－115	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－116	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－117	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－118	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－119	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－120	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H

【表２３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－121	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－122	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－123	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－124	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－125	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－126	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－127	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－128	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－129	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－130	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－131	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－132	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－133	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－134	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－135	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－136	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－137	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－138	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－139	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－140	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－141	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－142	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－143	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－144	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－145	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－146	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－147	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－148	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－149	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－150	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－151	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－152	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－153	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－154	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－155	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－156	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－157	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－158	O	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－159	O	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－160	O	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－161	O	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－162	O	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－163	O	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－164	O	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－165	O	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－166	O	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－167	O	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－168	O	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－169	O	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－170	O	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－171	O	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－172	O	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－173	O	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－174	O	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－175	O	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－176	O	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－177	O	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－178	O	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－179	O	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－180	O	1	F	H	H	H	H	H	H	H	H	H	F	H	H

【表２４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－181	O	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－182	O	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－183	O	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－184	O	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－185	O	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－186	O	1	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－187	O	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－188	O	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－189	O	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－190	O	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－191	O	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－192	O	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－193	O	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－194	O	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－195	O	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－196	O	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－197	O	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－198	O	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－199	O	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－200	O	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－201	O	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－202	O	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－203	O	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－204	O	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－205	O	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－206	O	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－207	O	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－208	O	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－209	O	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－210	O	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－211	O	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－212	O	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－213	O	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－214	O	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－215	O	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－216	O	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－217	O	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－218	O	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－219	O	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－220	O	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－221	O	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－222	O	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－223	O	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－224	O	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－225	O	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－226	O	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－227	O	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－228	O	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－229	O	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－230	O	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－231	O	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－232	O	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－233	O	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－234	O	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－235	O	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－236	O	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－237	O	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－238	O	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－239	O	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－240	O	1	H	H	H	H	H	H	H	H	F	H	H	H	F

【表２４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－241	O	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－242	O	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－243	O	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－244	O	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－245	O	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－246	O	1	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－247	O	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－248	O	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－249	O	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－250	O	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－251	O	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－252	O	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－253	O	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－254	O	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－255	O	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－256	O	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－257	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－258	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－259	O	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－260	O	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－261	O	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－262	O	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－263	O	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－264	O	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－265	O	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－266	O	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－267	O	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－268	O	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－269	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－270	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－271	O	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－272	O	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－273	O	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－274	O	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－275	O	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－276	O	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－277	O	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－278	O	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－279	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－280	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－281	O	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－282	O	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－283	O	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－284	O	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－285	O	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－286	O	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－287	O	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－288	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－289	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－290	O	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－291	O	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－292	O	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－293	O	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－294	O	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－295	O	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－296	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－297	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－298	O	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－299	O	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－300	O	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H

【表２４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－301	O	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－302	O	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－303	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－304	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－305	O	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－306	O	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－307	O	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－308	O	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－309	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－310	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－311	O	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－312	O	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－313	O	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－314	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－315	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－316	O	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－317	O	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－318	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－319	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－320	O	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－321	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－322	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－323	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－324	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－325	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－326	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－327	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－328	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－329	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－330	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－331	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－332	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－333	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－334	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－335	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－336	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－337	O	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－338	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－339	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－340	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－341	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－342	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－343	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－344	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－345	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－346	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－347	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－348	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－349	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－350	O	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－351	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－352	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－353	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－354	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－355	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－356	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－357	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－358	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－359	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－360	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H

【表２４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－361	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－362	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－363	O	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－364	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－365	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－366	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－367	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－368	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－369	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－370	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－371	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－372	O	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－373	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－374	O	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－375	O	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－376	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－377	O	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－378	O	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－379	O	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－380	O	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－381	O	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－382	O	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－383	O	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－384	O	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－385	O	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－386	O	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－387	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－388	O	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－389	O	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－390	O	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－391	O	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－392	O	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－393	O	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－394	O	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－395	O	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－396	O	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－397	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－398	O	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－399	O	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－400	O	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－401	O	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－402	O	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－403	O	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－404	O	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－405	O	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－406	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－407	O	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－408	O	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－409	O	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－410	O	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－411	O	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－412	O	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－413	O	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－414	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－415	O	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－416	O	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－417	O	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－418	O	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－419	O	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－420	O	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H

【表２４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－421	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－422	O	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－423	O	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－424	O	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－425	O	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－426	O	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－427	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－428	O	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－429	O	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－430	O	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－431	O	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－432	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－433	O	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－434	O	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－435	O	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－436	O	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－437	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－438	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－439	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－440	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－441	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－442	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－443	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－444	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－445	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－446	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－447	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－448	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－449	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－450	O	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－451	O	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－452	O	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－453	O	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－454	O	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－455	O	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－456	O	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－457	O	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－458	O	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－459	O	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－460	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－461	O	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－462	O	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－463	O	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－464	O	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－465	O	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－466	O	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－467	O	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－468	O	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－469	O	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－470	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－471	O	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－472	O	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－473	O	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－474	O	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－475	O	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－476	O	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－477	O	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－478	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－479	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－480	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H

【表２４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－481	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－482	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－483	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－484	O	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－485	O	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－486	O	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－487	O	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－488	O	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－489	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－490	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－491	O	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－492	O	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－493	O	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－494	O	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－495	O	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－496	O	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－497	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－498	O	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－499	O	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－500	O	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－501	O	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－502	O	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－503	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－504	O	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－505	O	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－506	O	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－507	O	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－508	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－509	O	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－510	O	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－511	O	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－512	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－513	O	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－514	O	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－515	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－516	O	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－517	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－518	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－519	O	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－520	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－521	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－522	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－523	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－524	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－525	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－526	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－527	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－528	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－529	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－530	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－531	O	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－532	O	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－533	O	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－534	O	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－535	O	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－536	O	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－537	O	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－538	O	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－539	O	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－540	O	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H

【表２４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－541	O	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－542	O	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－543	O	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－544	O	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－545	O	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－546	O	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－547	O	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－548	O	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－549	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－550	O	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－551	O	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－552	O	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－553	O	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－554	O	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－555	O	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－556	O	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－557	O	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－558	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－559	O	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－560	O	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－561	O	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－562	O	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－563	O	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－564	O	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－565	O	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－566	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－567	O	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－568	O	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－569	O	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－570	O	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－571	O	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－572	O	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－573	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－574	O	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－575	O	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－576	O	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－577	O	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－578	O	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－579	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－580	O	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－581	O	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－582	O	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－583	O	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－584	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－585	O	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－586	O	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－587	O	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－588	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－589	O	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－590	O	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－591	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－592	O	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－593	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－594	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－595	S	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－596	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－597	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－598	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－599	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－600	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H

【表２４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－601	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－602	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－603	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－604	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－605	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－606	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－607	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－608	S	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－609	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－610	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－611	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－612	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－613	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－614	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－615	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－616	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－617	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－618	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－619	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－620	S	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－621	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－622	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－623	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－624	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－625	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－626	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－627	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－628	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－629	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－630	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－631	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－632	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－633	S	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－634	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－635	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－636	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－637	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－638	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－639	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－640	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－641	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－642	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－643	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－644	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－645	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－646	S	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－647	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－648	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－649	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－650	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－651	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－652	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－653	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－654	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－655	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－656	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－657	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－658	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－659	S	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－660	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表２４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－661	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－662	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－663	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－664	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－665	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－666	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－667	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－668	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－669	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－670	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－671	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－672	S	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－673	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－674	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－675	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－676	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－677	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－678	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－679	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－680	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－681	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－682	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－683	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－684	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－685	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－686	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－687	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－688	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－689	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－690	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－691	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－692	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－693	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－694	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－695	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－696	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－697	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－698	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－699	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－700	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－701	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－702	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－703	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－704	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－705	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－706	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－707	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－708	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－709	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－710	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－711	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－712	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－713	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－714	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－715	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－716	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－717	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－718	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－719	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－720	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H

【表２４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－721	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－722	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－723	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－724	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－725	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－726	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－727	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－728	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－729	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－730	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－731	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－732	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－733	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－734	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－735	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－736	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－737	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－738	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－739	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－740	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－741	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－742	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－743	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－744	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－745	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－746	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－747	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－748	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－749	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－750	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－751	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－752	S	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－753	S	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－754	S	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－755	S	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－756	S	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－757	S	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－758	S	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－759	S	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－760	S	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－761	S	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－762	S	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－763	S	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－764	S	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－765	S	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－766	S	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－767	S	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－768	S	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－769	S	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－770	S	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－771	S	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－772	S	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－773	S	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－774	S	1	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－775	S	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－776	S	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－777	S	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－778	S	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－779	S	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－780	S	1	H	F	H	H	H	F	H	H	H	H	H	H	H

【表２５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－781	S	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－782	S	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－783	S	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－784	S	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－785	S	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－786	S	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－787	S	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－788	S	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－789	S	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－790	S	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－791	S	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－792	S	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－793	S	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－794	S	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－795	S	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－796	S	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－797	S	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－798	S	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－799	S	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－800	S	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－801	S	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－802	S	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－803	S	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－804	S	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－805	S	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－806	S	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－807	S	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－808	S	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－809	S	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－810	S	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－811	S	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－812	S	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－813	S	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－814	S	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－815	S	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－816	S	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－817	S	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－818	S	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－819	S	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－820	S	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－821	S	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－822	S	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－823	S	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－824	S	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－825	S	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－826	S	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－827	S	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－828	S	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－829	S	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－830	S	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－831	S	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－832	S	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－833	S	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－834	S	1	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－835	S	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－836	S	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－837	S	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－838	S	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－839	S	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－840	S	1	H	H	H	H	H	H	H	H	H	H	H	F	F

【表２５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－841	S	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－842	S	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－843	S	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－844	S	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－845	S	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－846	S	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－847	S	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－848	S	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－849	S	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－850	S	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－851	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－852	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－853	S	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－854	S	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－855	S	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－856	S	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－857	S	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－858	S	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－859	S	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－860	S	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－861	S	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－862	S	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－863	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－864	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－865	S	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－866	S	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－867	S	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－868	S	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－869	S	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－870	S	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－871	S	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－872	S	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－873	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－874	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－875	S	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－876	S	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－877	S	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－878	S	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－879	S	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－880	S	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－881	S	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－882	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－883	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－884	S	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－885	S	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－886	S	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－887	S	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－888	S	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－889	S	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－890	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－891	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－892	S	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－893	S	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－894	S	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－895	S	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－896	S	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－897	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－898	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－899	S	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－900	S	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H

【表２５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－901	S	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－902	S	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－903	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－904	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－905	S	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－906	S	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－907	S	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－908	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－909	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－910	S	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－911	S	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－912	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－913	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－914	S	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－915	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－916	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－917	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－918	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－919	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－920	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－921	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－922	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－923	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－924	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－925	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－926	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－927	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－928	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－929	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－930	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－931	S	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－932	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－933	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－934	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－935	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－936	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－937	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－938	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－939	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－940	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－941	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－942	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－943	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－944	S	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－945	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－946	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－947	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－948	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－949	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－950	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－951	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－952	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－953	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－954	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－955	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－956	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－957	S	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－958	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－959	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－960	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H

【表２５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－961	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－962	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－963	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－964	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－965	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－966	S	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－967	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－968	S	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－969	S	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－970	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－971	S	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－972	S	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－973	S	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－974	S	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－975	S	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－976	S	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－977	S	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－978	S	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－979	S	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－980	S	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－981	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－982	S	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－983	S	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－984	S	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－985	S	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－986	S	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－987	S	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－988	S	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－989	S	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－990	S	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－991	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－992	S	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－993	S	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－994	S	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－995	S	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－996	S	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－997	S	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－998	S	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－999	S	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－1000	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－1001	S	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－1002	S	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－1003	S	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－1004	S	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－1005	S	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－1006	S	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－1007	S	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－1008	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－1009	S	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－1010	S	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－1011	S	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－1012	S	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－1013	S	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－1014	S	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－1015	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－1016	S	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－1017	S	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－1018	S	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－1019	S	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－1020	S	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H

【表２５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1021	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－1022	S	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－1023	S	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－1024	S	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－1025	S	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－1026	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－1027	S	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－1028	S	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－1029	S	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－1030	S	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－1031	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－1032	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－1033	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－1034	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－1035	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1036	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－1037	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－1038	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－1039	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－1040	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－1041	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－1042	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－1043	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－1044	S	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－1045	S	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－1046	S	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1047	S	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－1048	S	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－1049	S	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－1050	S	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－1051	S	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－1052	S	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－1053	S	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－1054	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－1055	S	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－1056	S	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－1057	S	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－1058	S	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－1059	S	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－1060	S	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－1061	S	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－1062	S	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－1063	S	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－1064	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－1065	S	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－1066	S	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－1067	S	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－1068	S	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－1069	S	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－1070	S	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－1071	S	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－1072	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－1073	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－1074	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－1075	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－1076	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－1077	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－1078	S	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－1079	S	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－1080	S	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H

【表２５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1081	S	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－1082	S	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－1083	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1084	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1085	S	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－1086	S	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－1087	S	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－1088	S	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－1089	S	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－1090	S	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－1091	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－1092	S	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－1093	S	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－1094	S	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－1095	S	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－1096	S	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－1097	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－1098	S	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－1099	S	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－1100	S	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－1101	S	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－1102	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－1103	S	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－1104	S	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－1105	S	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－1106	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－1107	S	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－1108	S	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－1109	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－1110	S	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－1111	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－1112	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－1113	S	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－1114	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－1115	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－1116	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－1117	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－1118	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－1119	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－1120	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－1121	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－1122	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－1123	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－1124	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－1125	S	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－1126	S	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－1127	S	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－1128	S	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－1129	S	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－1130	S	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－1131	S	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－1132	S	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－1133	S	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－1134	S	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－1135	S	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－1136	S	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－1137	S	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－1138	S	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－1139	S	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－1140	S	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H

【表２５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1141	S	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－1142	S	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－1143	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－1144	S	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－1145	S	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－1146	S	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－1147	S	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－1148	S	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－1149	S	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－1150	S	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－1151	S	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－1152	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－1153	S	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－1154	S	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－1155	S	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－1156	S	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－1157	S	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－1158	S	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－1159	S	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－1160	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－1161	S	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－1162	S	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－1163	S	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－1164	S	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－1165	S	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－1166	S	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－1167	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－1168	S	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－1169	S	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－1170	S	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－1171	S	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－1172	S	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－1173	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－1174	S	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－1175	S	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－1176	S	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－1177	S	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－1178	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－1179	S	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－1180	S	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－1181	S	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－1182	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－1183	S	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－1184	S	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－1185	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－1186	S	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－1187	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－1188	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－1189	O	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1190	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1191	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－1192	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1193	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1194	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1195	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1196	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1197	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1198	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1199	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1200	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H

【表２５７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1201	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1202	O	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1203	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1204	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－1205	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－1206	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－1207	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－1208	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－1209	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－1210	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－1211	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－1212	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－1213	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－1214	O	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－1215	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－1216	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1217	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－1218	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－1219	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－1220	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－1221	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－1222	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－1223	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－1224	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－1225	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－1226	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－1227	O	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－1228	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－1229	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1230	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－1231	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－1232	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－1233	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－1234	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－1235	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－1236	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－1237	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－1238	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－1239	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－1240	O	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－1241	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－1242	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1243	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－1244	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－1245	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－1246	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－1247	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－1248	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－1249	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－1250	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－1251	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－1252	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－1253	O	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－1254	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－1255	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1256	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－1257	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－1258	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－1259	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－1260	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表２５８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1261	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－1262	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－1263	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－1264	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－1265	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－1266	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－1267	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－1268	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－1269	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1270	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1271	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1272	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1273	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1274	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1275	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1276	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1277	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1278	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1279	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1280	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1281	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1282	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1283	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1284	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1285	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1286	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1287	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1288	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1289	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1290	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1291	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－1292	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－1293	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－1294	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－1295	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－1296	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－1297	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－1298	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－1299	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－1300	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－1301	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－1302	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－1303	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－1304	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－1305	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－1306	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－1307	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－1308	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－1309	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－1310	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－1311	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－1312	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－1313	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－1314	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－1315	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－1316	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－1317	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－1318	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－1319	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－1320	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H

【表２５９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1321	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－1322	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－1323	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－1324	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－1325	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－1326	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－1327	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－1328	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－1329	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－1330	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－1331	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－1332	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－1333	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－1334	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－1335	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－1336	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－1337	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－1338	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－1339	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－1340	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－1341	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－1342	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－1343	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－1344	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－1345	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－1346	O	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1347	O	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－1348	O	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－1349	O	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－1350	O	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－1351	O	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－1352	O	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－1353	O	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－1354	O	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－1355	O	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－1356	O	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－1357	O	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－1358	O	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－1359	O	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－1360	O	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－1361	O	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－1362	O	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－1363	O	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－1364	O	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－1365	O	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－1366	O	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－1367	O	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－1368	O	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－1369	O	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－1370	O	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－1371	O	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－1372	O	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－1373	O	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－1374	O	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－1375	O	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－1376	O	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－1377	O	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－1378	O	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－1379	O	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－1380	O	2	H	F	H	H	H	H	H	H	H	H	H	F	H

【表２６０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1381	O	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－1382	O	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－1383	O	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－1384	O	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－1385	O	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－1386	O	2	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－1387	O	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－1388	O	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－1389	O	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－1390	O	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－1391	O	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－1392	O	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－1393	O	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－1394	O	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－1395	O	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－1396	O	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－1397	O	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－1398	O	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－1399	O	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－1400	O	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－1401	O	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－1402	O	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－1403	O	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－1404	O	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－1405	O	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－1406	O	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－1407	O	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－1408	O	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－1409	O	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－1410	O	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－1411	O	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－1412	O	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－1413	O	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－1414	O	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－1415	O	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－1416	O	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－1417	O	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－1418	O	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－1419	O	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－1420	O	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－1421	O	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－1422	O	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－1423	O	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－1424	O	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－1425	O	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－1426	O	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－1427	O	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－1428	O	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－1429	O	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－1430	O	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－1431	O	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－1432	O	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－1433	O	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－1434	O	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－1435	O	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－1436	O	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－1437	O	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－1438	O	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－1439	O	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－1440	O	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H

【表２６１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1441	O	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－1442	O	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－1443	O	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－1444	O	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－1445	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－1446	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－1447	O	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－1448	O	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－1449	O	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－1450	O	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－1451	O	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－1452	O	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－1453	O	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－1454	O	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－1455	O	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－1456	O	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－1457	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－1458	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－1459	O	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－1460	O	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－1461	O	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－1462	O	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－1463	O	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－1464	O	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－1465	O	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－1466	O	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－1467	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－1468	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－1469	O	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－1470	O	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－1471	O	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－1472	O	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－1473	O	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－1474	O	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－1475	O	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－1476	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－1477	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－1478	O	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－1479	O	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－1480	O	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－1481	O	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－1482	O	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－1483	O	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－1484	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－1485	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－1486	O	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－1487	O	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－1488	O	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－1489	O	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－1490	O	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－1491	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－1492	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－1493	O	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－1494	O	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－1495	O	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－1496	O	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－1497	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－1498	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－1499	O	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－1500	O	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H

【表２６２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1501	O	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－1502	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－1503	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－1504	O	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－1505	O	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－1506	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－1507	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－1508	O	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－1509	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－1510	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－1511	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－1512	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－1513	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－1514	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－1515	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－1516	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1517	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1518	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1519	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1520	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1521	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1522	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1523	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1524	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1525	O	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1526	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1527	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－1528	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－1529	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1530	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1531	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1532	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1533	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1534	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1535	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1536	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1537	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1538	O	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1539	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1540	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－1541	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－1542	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1543	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1544	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1545	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1546	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1547	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1548	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1549	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1550	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1551	O	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1552	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1553	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－1554	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－1555	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－1556	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－1557	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－1558	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－1559	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－1560	O	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H

【表２６３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1561	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－1562	O	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－1563	O	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－1564	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－1565	O	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－1566	O	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－1567	O	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－1568	O	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－1569	O	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－1570	O	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－1571	O	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－1572	O	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－1573	O	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－1574	O	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－1575	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－1576	O	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－1577	O	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－1578	O	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－1579	O	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－1580	O	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－1581	O	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－1582	O	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－1583	O	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－1584	O	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－1585	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－1586	O	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－1587	O	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－1588	O	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－1589	O	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－1590	O	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－1591	O	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－1592	O	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－1593	O	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－1594	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－1595	O	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－1596	O	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－1597	O	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－1598	O	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－1599	O	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－1600	O	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－1601	O	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－1602	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－1603	O	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－1604	O	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－1605	O	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－1606	O	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－1607	O	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－1608	O	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－1609	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－1610	O	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－1611	O	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－1612	O	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－1613	O	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－1614	O	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－1615	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－1616	O	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－1617	O	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－1618	O	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－1619	O	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－1620	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F

【表２６４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1621	O	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－1622	O	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－1623	O	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－1624	O	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－1625	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－1626	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－1627	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－1628	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－1629	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1630	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－1631	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－1632	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－1633	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－1634	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－1635	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－1636	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－1637	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－1638	O	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－1639	O	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－1640	O	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1641	O	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－1642	O	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－1643	O	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－1644	O	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－1645	O	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－1646	O	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－1647	O	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－1648	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－1649	O	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－1650	O	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－1651	O	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－1652	O	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－1653	O	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－1654	O	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－1655	O	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－1656	O	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－1657	O	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－1658	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－1659	O	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－1660	O	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－1661	O	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－1662	O	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－1663	O	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－1664	O	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－1665	O	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－1666	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－1667	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－1668	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－1669	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－1670	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－1671	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－1672	O	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－1673	O	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－1674	O	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－1675	O	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－1676	O	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－1677	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1678	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－1679	O	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－1680	O	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H

【表２６５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1681	O	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－1682	O	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－1683	O	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－1684	O	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－1685	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－1686	O	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－1687	O	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－1688	O	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－1689	O	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－1690	O	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－1691	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－1692	O	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－1693	O	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－1694	O	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－1695	O	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－1696	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－1697	O	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－1698	O	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－1699	O	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－1700	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－1701	O	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－1702	O	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－1703	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－1704	O	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－1705	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－1706	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－1707	O	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－1708	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－1709	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－1710	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－1711	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－1712	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－1713	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－1714	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－1715	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－1716	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－1717	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－1718	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－1719	O	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－1720	O	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－1721	O	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－1722	O	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－1723	O	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－1724	O	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－1725	O	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－1726	O	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－1727	O	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－1728	O	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－1729	O	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－1730	O	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－1731	O	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－1732	O	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－1733	O	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－1734	O	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－1735	O	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－1736	O	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－1737	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－1738	O	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－1739	O	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－1740	O	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H

【表２６６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1741	O	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－1742	O	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－1743	O	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－1744	O	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－1745	O	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－1746	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－1747	O	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－1748	O	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－1749	O	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－1750	O	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－1751	O	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－1752	O	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－1753	O	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－1754	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－1755	O	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－1756	O	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－1757	O	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－1758	O	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－1759	O	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－1760	O	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－1761	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－1762	O	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－1763	O	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－1764	O	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－1765	O	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－1766	O	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－1767	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－1768	O	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－1769	O	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－1770	O	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－1771	O	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－1772	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－1773	O	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－1774	O	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－1775	O	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－1776	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－1777	O	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－1778	O	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－1779	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－1780	O	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－1781	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－1782	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－1783	S	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1784	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1785	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－1786	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1787	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1788	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1789	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1790	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1791	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1792	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1793	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1794	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1795	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1796	S	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1797	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1798	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－1799	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－1800	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H

【表２６７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1801	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－1802	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－1803	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－1804	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－1805	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－1806	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－1807	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－1808	S	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－1809	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－1810	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1811	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－1812	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－1813	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－1814	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－1815	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－1816	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－1817	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－1818	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－1819	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－1820	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－1821	S	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－1822	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－1823	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1824	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－1825	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－1826	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－1827	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－1828	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－1829	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－1830	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－1831	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－1832	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－1833	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－1834	S	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－1835	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－1836	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1837	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－1838	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－1839	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－1840	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－1841	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－1842	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－1843	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－1844	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－1845	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－1846	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－1847	S	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－1848	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－1849	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1850	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－1851	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－1852	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－1853	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－1854	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－1855	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－1856	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－1857	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－1858	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－1859	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－1860	S	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H

【表２６８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1861	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－1862	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－1863	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1864	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1865	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1866	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1867	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1868	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1869	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1870	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1871	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1872	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1873	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1874	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－1875	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－1876	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－1877	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－1878	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－1879	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－1880	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－1881	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－1882	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－1883	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－1884	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－1885	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－1886	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－1887	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－1888	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－1889	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－1890	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－1891	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－1892	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－1893	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－1894	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－1895	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－1896	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－1897	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－1898	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－1899	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－1900	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－1901	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－1902	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－1903	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－1904	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－1905	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－1906	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－1907	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－1908	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－1909	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－1910	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－1911	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－1912	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－1913	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－1914	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－1915	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－1916	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－1917	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－1918	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－1919	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－1920	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H

【表２６９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1921	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－1922	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－1923	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－1924	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－1925	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－1926	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－1927	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－1928	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－1929	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－1930	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－1931	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－1932	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－1933	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－1934	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－1935	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－1936	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－1937	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－1938	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－1939	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－1940	S	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－1941	S	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－1942	S	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－1943	S	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－1944	S	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－1945	S	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－1946	S	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－1947	S	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－1948	S	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－1949	S	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－1950	S	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－1951	S	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－1952	S	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－1953	S	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－1954	S	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－1955	S	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－1956	S	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－1957	S	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－1958	S	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－1959	S	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－1960	S	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－1961	S	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－1962	S	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－1963	S	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－1964	S	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－1965	S	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－1966	S	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－1967	S	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－1968	S	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－1969	S	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－1970	S	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－1971	S	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－1972	S	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－1973	S	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－1974	S	2	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－1975	S	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－1976	S	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－1977	S	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－1978	S	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－1979	S	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－1980	S	2	H	H	F	H	H	H	H	F	H	H	H	H	H

【表２７０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－1981	S	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－1982	S	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－1983	S	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－1984	S	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－1985	S	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－1986	S	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－1987	S	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－1988	S	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－1989	S	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－1990	S	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－1991	S	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－1992	S	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－1993	S	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－1994	S	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－1995	S	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－1996	S	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－1997	S	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－1998	S	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－1999	S	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－2000	S	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－2001	S	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－2002	S	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－2003	S	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－2004	S	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－2005	S	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－2006	S	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－2007	S	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－2008	S	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－2009	S	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－2010	S	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－2011	S	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－2012	S	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－2013	S	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－2014	S	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－2015	S	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－2016	S	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－2017	S	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－2018	S	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－2019	S	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－2020	S	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－2021	S	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－2022	S	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－2023	S	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－2024	S	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－2025	S	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－2026	S	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－2027	S	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－2028	S	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－2029	S	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－2030	S	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－2031	S	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－2032	S	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－2033	S	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－2034	S	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－2035	S	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－2036	S	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－2037	S	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－2038	S	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－2039	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－2040	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F

【表２７１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2041	S	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－2042	S	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－2043	S	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－2044	S	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－2045	S	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－2046	S	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－2047	S	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－2048	S	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－2049	S	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－2050	S	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－2051	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－2052	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－2053	S	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－2054	S	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－2055	S	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－2056	S	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－2057	S	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－2058	S	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－2059	S	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－2060	S	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－2061	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－2062	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－2063	S	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－2064	S	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－2065	S	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－2066	S	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－2067	S	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－2068	S	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－2069	S	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－2070	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－2071	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－2072	S	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－2073	S	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－2074	S	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－2075	S	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－2076	S	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－2077	S	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－2078	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－2079	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－2080	S	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－2081	S	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－2082	S	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－2083	S	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－2084	S	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－2085	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－2086	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－2087	S	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－2088	S	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－2089	S	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－2090	S	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－2091	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－2092	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－2093	S	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－2094	S	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－2095	S	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－2096	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－2097	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－2098	S	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－2099	S	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－2100	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H

【表２７２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2101	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－2102	S	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－2103	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－2104	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－2105	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－2106	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－2107	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－2108	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2109	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2110	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2111	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2112	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2113	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2114	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2115	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2116	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2117	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2118	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2119	S	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2120	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2121	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－2122	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－2123	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2124	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2125	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2126	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2127	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2128	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2129	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2130	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2131	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2132	S	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2133	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2134	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2135	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2136	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2137	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2138	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2139	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2140	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2141	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2142	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2143	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2144	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2145	S	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2146	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2147	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2148	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－2149	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－2150	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－2151	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－2152	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－2153	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－2154	S	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－2155	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－2156	S	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－2157	S	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－2158	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－2159	S	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－2160	S	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H

【表２７３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2161	S	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－2162	S	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－2163	S	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－2164	S	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－2165	S	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－2166	S	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－2167	S	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－2168	S	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－2169	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－2170	S	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－2171	S	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－2172	S	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－2173	S	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－2174	S	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－2175	S	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－2176	S	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－2177	S	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－2178	S	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－2179	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－2180	S	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－2181	S	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－2182	S	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－2183	S	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－2184	S	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－2185	S	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－2186	S	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－2187	S	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－2188	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－2189	S	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－2190	S	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－2191	S	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－2192	S	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－2193	S	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－2194	S	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－2195	S	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－2196	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－2197	S	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－2198	S	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－2199	S	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－2200	S	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－2201	S	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－2202	S	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－2203	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－2204	S	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－2205	S	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－2206	S	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－2207	S	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－2208	S	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－2209	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－2210	S	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－2211	S	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－2212	S	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－2213	S	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－2214	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－2215	S	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－2216	S	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－2217	S	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－2218	S	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－2219	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－2220	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H

【表２７４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2221	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－2222	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－2223	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2224	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－2225	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－2226	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－2227	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－2228	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－2229	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－2230	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－2231	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－2232	S	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－2233	S	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－2234	S	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2235	S	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－2236	S	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－2237	S	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－2238	S	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－2239	S	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－2240	S	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－2241	S	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－2242	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－2243	S	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－2244	S	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－2245	S	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－2246	S	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－2247	S	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－2248	S	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－2249	S	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－2250	S	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－2251	S	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－2252	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－2253	S	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－2254	S	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－2255	S	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－2256	S	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－2257	S	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－2258	S	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－2259	S	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－2260	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－2261	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－2262	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－2263	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－2264	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－2265	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－2266	S	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－2267	S	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－2268	S	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－2269	S	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－2270	S	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－2271	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2272	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2273	S	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－2274	S	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－2275	S	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－2276	S	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－2277	S	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－2278	S	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－2279	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－2280	S	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H

【表２７５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2281	S	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－2282	S	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－2283	S	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－2284	S	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－2285	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－2286	S	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－2287	S	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－2288	S	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－2289	S	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－2290	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－2291	S	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－2292	S	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－2293	S	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－2294	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－2295	S	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－2296	S	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－2297	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－2298	S	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－2299	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－2300	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－2301	S	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2302	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－2303	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－2304	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－2305	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－2306	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－2307	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－2308	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－2309	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－2310	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－2311	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－2312	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－2313	S	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－2314	S	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－2315	S	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－2316	S	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－2317	S	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－2318	S	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－2319	S	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－2320	S	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－2321	S	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－2322	S	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－2323	S	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－2324	S	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－2325	S	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－2326	S	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－2327	S	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－2328	S	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－2329	S	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－2330	S	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－2331	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－2332	S	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－2333	S	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－2334	S	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－2335	S	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－2336	S	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－2337	S	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－2338	S	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－2339	S	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－2340	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F

【表２７６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2341	S	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－2342	S	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－2343	S	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－2344	S	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－2345	S	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－2346	S	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－2347	S	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－2348	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－2349	S	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－2350	S	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－2351	S	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－2352	S	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－2353	S	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－2354	S	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－2355	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－2356	S	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－2357	S	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－2358	S	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－2359	S	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－2360	S	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－2361	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－2362	S	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－2363	S	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－2364	S	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－2365	S	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－2366	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－2367	S	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－2368	S	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－2369	S	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－2370	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－2371	S	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－2372	S	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－2373	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－2374	S	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－2375	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－2376	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－2377	O	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2378	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2379	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－2380	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2381	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2382	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2383	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2384	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2385	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2386	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2387	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2388	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2389	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2390	O	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2391	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2392	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－2393	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－2394	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－2395	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－2396	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－2397	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－2398	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－2399	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－2400	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H

【表２７７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2401	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－2402	O	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－2403	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－2404	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2405	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－2406	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－2407	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－2408	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－2409	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－2410	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－2411	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－2412	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－2413	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－2414	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－2415	O	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－2416	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－2417	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2418	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－2419	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－2420	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－2421	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－2422	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－2423	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－2424	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－2425	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－2426	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－2427	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－2428	O	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－2429	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－2430	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2431	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－2432	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－2433	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－2434	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－2435	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－2436	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－2437	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－2438	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－2439	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－2440	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－2441	O	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－2442	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－2443	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2444	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－2445	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－2446	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－2447	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－2448	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－2449	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－2450	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－2451	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－2452	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－2453	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－2454	O	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－2455	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－2456	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－2457	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2458	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2459	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2460	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H

【表２７８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2461	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2462	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2463	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2464	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2465	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2466	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2467	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2468	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2469	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2470	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2471	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2472	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2473	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2474	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2475	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2476	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2477	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2478	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2479	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－2480	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－2481	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－2482	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－2483	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－2484	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－2485	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－2486	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－2487	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－2488	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－2489	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－2490	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－2491	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－2492	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－2493	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－2494	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－2495	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－2496	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－2497	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－2498	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－2499	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－2500	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－2501	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－2502	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－2503	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－2504	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－2505	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－2506	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－2507	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－2508	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－2509	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－2510	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－2511	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－2512	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－2513	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－2514	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－2515	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－2516	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－2517	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－2518	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－2519	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－2520	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H

【表２７９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2521	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－2522	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－2523	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－2524	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－2525	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－2526	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－2527	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－2528	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－2529	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－2530	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－2531	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－2532	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－2533	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－2534	O	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2535	O	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－2536	O	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－2537	O	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－2538	O	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－2539	O	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－2540	O	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－2541	O	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－2542	O	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－2543	O	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－2544	O	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－2545	O	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－2546	O	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－2547	O	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－2548	O	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－2549	O	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－2550	O	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－2551	O	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－2552	O	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－2553	O	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－2554	O	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－2555	O	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－2556	O	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－2557	O	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－2558	O	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－2559	O	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－2560	O	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－2561	O	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－2562	O	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－2563	O	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－2564	O	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－2565	O	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－2566	O	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－2567	O	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－2568	O	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－2569	O	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－2570	O	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－2571	O	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－2572	O	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－2573	O	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－2574	O	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－2575	O	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－2576	O	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－2577	O	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－2578	O	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－2579	O	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－2580	O	3	H	H	H	F	F	H	H	H	H	H	H	H	H

【表２８０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2581	O	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－2582	O	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－2583	O	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－2584	O	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－2585	O	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－2586	O	3	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－2587	O	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－2588	O	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－2589	O	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－2590	O	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－2591	O	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－2592	O	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－2593	O	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－2594	O	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－2595	O	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－2596	O	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－2597	O	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－2598	O	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－2599	O	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－2600	O	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－2601	O	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－2602	O	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－2603	O	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－2604	O	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－2605	O	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－2606	O	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－2607	O	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－2608	O	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－2609	O	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－2610	O	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－2611	O	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－2612	O	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－2613	O	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－2614	O	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－2615	O	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－2616	O	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－2617	O	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－2618	O	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－2619	O	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－2620	O	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－2621	O	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－2622	O	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－2623	O	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－2624	O	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－2625	O	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－2626	O	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－2627	O	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－2628	O	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－2629	O	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－2630	O	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－2631	O	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－2632	O	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－2633	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－2634	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－2635	O	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－2636	O	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－2637	O	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－2638	O	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－2639	O	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－2640	O	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H

【表２８１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2641	O	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－2642	O	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－2643	O	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－2644	O	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－2645	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－2646	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－2647	O	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－2648	O	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－2649	O	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－2650	O	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－2651	O	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－2652	O	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－2653	O	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－2654	O	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－2655	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－2656	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－2657	O	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－2658	O	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－2659	O	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－2660	O	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－2661	O	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－2662	O	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－2663	O	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－2664	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－2665	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－2666	O	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－2667	O	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－2668	O	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－2669	O	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－2670	O	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－2671	O	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－2672	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－2673	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－2674	O	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－2675	O	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－2676	O	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－2677	O	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－2678	O	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－2679	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－2680	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－2681	O	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－2682	O	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－2683	O	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－2684	O	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－2685	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－2686	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－2687	O	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－2688	O	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－2689	O	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－2690	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－2691	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－2692	O	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－2693	O	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－2694	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－2695	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－2696	O	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－2697	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－2698	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－2699	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－2700	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F

【表２８２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2701	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－2702	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2703	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2704	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2705	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2706	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2707	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2708	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2709	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2710	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2711	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2712	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2713	O	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2714	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2715	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－2716	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－2717	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2718	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2719	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2720	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2721	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2722	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2723	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2724	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2725	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2726	O	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2727	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2728	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2729	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2730	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2731	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2732	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2733	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2734	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2735	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2736	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2737	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2738	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2739	O	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2740	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2741	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－2742	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－2743	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－2744	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－2745	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－2746	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－2747	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－2748	O	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－2749	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－2750	O	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－2751	O	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－2752	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－2753	O	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－2754	O	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－2755	O	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－2756	O	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－2757	O	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－2758	O	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－2759	O	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－2760	O	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H

【表２８３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2761	O	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－2762	O	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－2763	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－2764	O	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－2765	O	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－2766	O	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－2767	O	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－2768	O	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－2769	O	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－2770	O	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－2771	O	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－2772	O	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－2773	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－2774	O	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－2775	O	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－2776	O	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－2777	O	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－2778	O	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－2779	O	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－2780	O	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－2781	O	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－2782	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－2783	O	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－2784	O	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－2785	O	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－2786	O	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－2787	O	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－2788	O	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－2789	O	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－2790	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－2791	O	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－2792	O	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－2793	O	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－2794	O	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－2795	O	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－2796	O	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－2797	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－2798	O	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－2799	O	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－2800	O	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－2801	O	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－2802	O	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－2803	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－2804	O	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－2805	O	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－2806	O	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－2807	O	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－2808	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－2809	O	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－2810	O	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－2811	O	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－2812	O	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－2813	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－2814	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－2815	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－2816	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－2817	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2818	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－2819	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－2820	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H

【表２８４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2821	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－2822	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－2823	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－2824	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－2825	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－2826	O	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－2827	O	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－2828	O	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2829	O	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－2830	O	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－2831	O	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－2832	O	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－2833	O	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－2834	O	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－2835	O	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－2836	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－2837	O	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－2838	O	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－2839	O	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－2840	O	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－2841	O	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－2842	O	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－2843	O	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－2844	O	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－2845	O	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－2846	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－2847	O	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－2848	O	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－2849	O	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－2850	O	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－2851	O	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－2852	O	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－2853	O	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－2854	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－2855	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－2856	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－2857	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－2858	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－2859	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－2860	O	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－2861	O	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－2862	O	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－2863	O	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－2864	O	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－2865	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2866	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－2867	O	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－2868	O	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－2869	O	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－2870	O	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－2871	O	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－2872	O	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－2873	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－2874	O	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－2875	O	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－2876	O	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－2877	O	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－2878	O	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－2879	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－2880	O	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H

【表２８５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2881	O	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－2882	O	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－2883	O	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－2884	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－2885	O	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－2886	O	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－2887	O	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－2888	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－2889	O	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－2890	O	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－2891	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－2892	O	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－2893	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－2894	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－2895	O	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－2896	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－2897	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－2898	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－2899	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－2900	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－2901	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－2902	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－2903	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－2904	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－2905	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－2906	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－2907	O	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－2908	O	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－2909	O	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－2910	O	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－2911	O	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－2912	O	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－2913	O	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－2914	O	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－2915	O	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－2916	O	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－2917	O	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－2918	O	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－2919	O	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－2920	O	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－2921	O	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－2922	O	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－2923	O	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－2924	O	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－2925	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－2926	O	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－2927	O	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－2928	O	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－2929	O	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－2930	O	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－2931	O	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－2932	O	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－2933	O	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－2934	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－2935	O	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－2936	O	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－2937	O	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－2938	O	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－2939	O	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－2940	O	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H

【表２８６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－2941	O	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－2942	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－2943	O	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－2944	O	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－2945	O	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－2946	O	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－2947	O	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－2948	O	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－2949	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－2950	O	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－2951	O	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－2952	O	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－2953	O	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－2954	O	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－2955	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－2956	O	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－2957	O	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－2958	O	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－2959	O	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－2960	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－2961	O	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－2962	O	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－2963	O	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－2964	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－2965	O	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－2966	O	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－2967	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－2968	O	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－2969	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－2970	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－2971	S	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2972	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2973	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－2974	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－2975	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－2976	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－2977	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－2978	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－2979	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－2980	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－2981	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－2982	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－2983	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－2984	S	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－2985	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2986	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－2987	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－2988	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－2989	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－2990	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－2991	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－2992	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－2993	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－2994	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－2995	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－2996	S	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－2997	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－2998	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－2999	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－3000	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H

【表２８７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3001	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－3002	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－3003	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－3004	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－3005	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－3006	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－3007	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－3008	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－3009	S	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－3010	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－3011	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3012	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－3013	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－3014	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－3015	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－3016	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－3017	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－3018	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－3019	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－3020	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－3021	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－3022	S	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－3023	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－3024	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3025	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－3026	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－3027	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－3028	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－3029	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－3030	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－3031	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－3032	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－3033	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－3034	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－3035	S	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－3036	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－3037	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3038	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－3039	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－3040	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－3041	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－3042	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－3043	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－3044	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－3045	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－3046	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－3047	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－3048	S	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－3049	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－3050	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－3051	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3052	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3053	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3054	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3055	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3056	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3057	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3058	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3059	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3060	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H

【表２８８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3061	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3062	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3063	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3064	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3065	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3066	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3067	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3068	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3069	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3070	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3071	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3072	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3073	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－3074	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－3075	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－3076	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－3077	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－3078	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－3079	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－3080	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－3081	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－3082	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－3083	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－3084	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－3085	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－3086	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－3087	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－3088	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－3089	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－3090	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－3091	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－3092	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－3093	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－3094	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－3095	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－3096	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－3097	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－3098	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－3099	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－3100	S	3	H′	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－3101	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－3102	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－3103	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－3104	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－3105	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－3106	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－3107	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－3108	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－3109	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－3110	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－3111	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－3112	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－3113	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－3114	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－3115	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－3116	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－3117	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－3118	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－3119	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－3120	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H

【表２８９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3121	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－3122	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－3123	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－3124	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－3125	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－3126	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－3127	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－3128	S	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3129	S	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3130	S	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3131	S	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3132	S	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3133	S	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3134	S	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3135	S	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3136	S	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3137	S	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3138	S	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3139	S	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3140	S	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3141	S	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3142	S	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3143	S	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3144	S	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3145	S	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3146	S	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3147	S	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3148	S	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3149	S	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3150	S	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3151	S	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3152	S	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3153	S	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－3154	S	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－3155	S	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－3156	S	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－3157	S	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－3158	S	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－3159	S	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－3160	S	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－3161	S	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－3162	S	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－3163	S	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－3164	S	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－3165	S	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－3166	S	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－3167	S	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－3168	S	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－3169	S	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－3170	S	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－3171	S	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－3172	S	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－3173	S	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－3174	S	3	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－3175	S	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－3176	S	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－3177	S	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－3178	S	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－3179	S	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－3180	S	3	H	H	H	F	H	H	H	H	H	H	F	H	H

【表２９０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3181	S	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－3182	S	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－3183	S	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－3184	S	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－3185	S	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－3186	S	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－3187	S	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－3188	S	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－3189	S	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－3190	S	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－3191	S	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－3192	S	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－3193	S	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－3194	S	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－3195	S	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－3196	S	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－3197	S	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－3198	S	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－3199	S	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－3200	S	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－3201	S	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－3202	S	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－3203	S	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－3204	S	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－3205	S	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－3206	S	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－3207	S	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－3208	S	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－3209	S	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－3210	S	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－3211	S	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－3212	S	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－3213	S	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－3214	S	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－3215	S	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－3216	S	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－3217	S	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3218	S	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3219	S	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3220	S	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3221	S	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3222	S	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3223	S	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3224	S	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3225	S	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3226	S	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3227	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3228	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3229	S	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－3230	S	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－3231	S	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－3232	S	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－3233	S	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－3234	S	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－3235	S	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－3236	S	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－3237	S	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－3238	S	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－3239	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－3240	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F

【表２９１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3241	S	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－3242	S	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－3243	S	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－3244	S	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－3245	S	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－3246	S	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－3247	S	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－3248	S	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－3249	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－3250	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－3251	S	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－3252	S	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－3253	S	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－3254	S	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－3255	S	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－3256	S	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－3257	S	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－3258	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－3259	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－3260	S	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－3261	S	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－3262	S	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－3263	S	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－3264	S	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－3265	S	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－3266	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－3267	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－3268	S	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－3269	S	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－3270	S	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－3271	S	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－3272	S	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－3273	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－3274	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－3275	S	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－3276	S	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－3277	S	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－3278	S	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－3279	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－3280	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－3281	S	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－3282	S	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－3283	S	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－3284	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－3285	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－3286	S	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－3287	S	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－3288	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－3289	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－3290	S	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－3291	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－3292	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－3293	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－3294	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－3295	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－3296	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3297	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3298	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3299	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3300	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H

【表２９２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3301	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3302	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3303	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3304	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3305	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3306	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3307	S	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3308	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3309	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－3310	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－3311	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3312	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3313	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3314	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3315	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3316	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3317	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3318	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3319	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3320	S	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3321	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3322	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－3323	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－3324	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3325	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3326	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3327	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3328	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3329	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3330	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3331	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3332	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3333	S	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3334	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3335	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3336	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－3337	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－3338	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－3339	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－3340	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－3341	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－3342	S	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－3343	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－3344	S	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－3345	S	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－3346	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－3347	S	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－3348	S	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－3349	S	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－3350	S	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－3351	S	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－3352	S	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－3353	S	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－3354	S	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－3355	S	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－3356	S	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－3357	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－3358	S	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－3359	S	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－3360	S	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H

【表２９３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3361	S	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－3362	S	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－3363	S	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－3364	S	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－3365	S	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－3366	S	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－3367	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－3368	S	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－3369	S	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－3370	S	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－3371	S	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－3372	S	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－3373	S	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－3374	S	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－3375	S	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－3376	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－3377	S	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－3378	S	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－3379	S	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－3380	S	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－3381	S	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－3382	S	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－3383	S	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－3384	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－3385	S	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－3386	S	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－3387	S	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－3388	S	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－3389	S	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－3390	S	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－3391	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－3392	S	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－3393	S	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－3394	S	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－3395	S	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－3396	S	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－3397	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－3398	S	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－3399	S	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－3400	S	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－3401	S	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－3402	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－3403	S	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－3404	S	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－3405	S	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－3406	S	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－3407	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－3408	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－3409	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－3410	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－3411	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－3412	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－3413	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－3414	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－3415	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－3416	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－3417	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－3418	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－3419	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－3420	S	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H

【表２９４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3421	S	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－3422	S	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－3423	S	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－3424	S	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－3425	S	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－3426	S	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－3427	S	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－3428	S	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－3429	S	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－3430	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－3431	S	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－3432	S	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－3433	S	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－3434	S	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－3435	S	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－3436	S	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－3437	S	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－3438	S	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－3439	S	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－3440	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－3441	S	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－3442	S	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－3443	S	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－3444	S	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－3445	S	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－3446	S	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－3447	S	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－3448	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－3449	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－3450	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－3451	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－3452	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－3453	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－3454	S	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－3455	S	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－3456	S	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－3457	S	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－3458	S	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－3459	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－3460	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－3461	S	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－3462	S	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－3463	S	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－3464	S	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－3465	S	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－3466	S	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－3467	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－3468	S	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－3469	S	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－3470	S	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－3471	S	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－3472	S	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－3473	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－3474	S	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－3475	S	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－3476	S	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－3477	S	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－3478	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－3479	S	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－3480	S	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H

【表２９５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3481	S	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－3482	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－3483	S	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－3484	S	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－3485	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－3486	S	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－3487	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－3488	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－3489	S	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－3490	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－3491	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－3492	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－3493	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－3494	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－3495	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－3496	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－3497	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－3498	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－3499	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－3500	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－3501	S	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－3502	S	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－3503	S	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－3504	S	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－3505	S	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－3506	S	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－3507	S	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－3508	S	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－3509	S	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－3510	S	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－3511	S	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－3512	S	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－3513	S	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－3514	S	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－3515	S	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－3516	S	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－3517	S	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－3518	S	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－3519	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－3520	S	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－3521	S	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－3522	S	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－3523	S	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－3524	S	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－3525	S	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－3526	S	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－3527	S	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－3528	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－3529	S	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－3530	S	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－3531	S	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－3532	S	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－3533	S	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－3534	S	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－3535	S	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－3536	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－3537	S	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－3538	S	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－3539	S	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－3540	S	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H

【表２９６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3541	S	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－3542	S	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－3543	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－3544	S	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－3545	S	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－3546	S	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－3547	S	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－3548	S	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－3549	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－3550	S	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－3551	S	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－3552	S	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－3553	S	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－3554	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－3555	S	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－3556	S	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－3557	S	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－3558	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－3559	S	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－3560	S	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－3561	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－3562	S	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－3563	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－3564	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－3565	O	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3566	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3567	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－3568	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3569	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3570	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3571	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3572	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3573	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3574	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3575	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3576	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3577	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3578	O	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3579	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3580	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－3581	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－3582	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－3583	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－3584	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－3585	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－3586	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－3587	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－3588	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－3589	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－3590	O	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－3591	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－3592	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3593	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－3594	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－3595	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－3596	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－3597	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－3598	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－3599	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－3600	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H

【表２９７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3601	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－3602	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－3603	O	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－3604	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－3605	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3606	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(V)－3607	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－3608	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－3609	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－3610	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－3611	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－3612	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－3613	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－3614	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－3615	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－3616	O	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－3617	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－3618	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3619	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－3620	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－3621	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－3622	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－3623	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－3624	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－3625	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－3626	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－3627	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－3628	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－3629	O	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－3630	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－3631	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3632	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－3633	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－3634	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－3635	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－3636	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－3637	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－3638	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－3639	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－3640	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－3641	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－3642	O	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－3643	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－3644	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－3645	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3646	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3647	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3648	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3649	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3650	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3651	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3652	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3653	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3654	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3655	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3656	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3657	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3658	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3659	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3660	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H

【表２９８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3661	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3662	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3663	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3664	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3665	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3666	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3667	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－3668	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－3669	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－3670	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－3671	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－3672	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－3673	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－3674	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－3675	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－3676	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－3677	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－3678	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－3679	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－3680	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－3681	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－3682	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－3683	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－3684	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－3685	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－3686	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－3687	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－3688	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－3689	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－3690	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－3691	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－3692	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－3693	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－3694	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－3695	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－3696	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－3697	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－3698	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－3699	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－3700	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－3701	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－3702	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－3703	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－3704	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－3705	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－3706	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－3707	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－3708	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－3709	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－3710	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－3711	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－3712	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－3713	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－3714	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－3715	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－3716	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－3717	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－3718	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－3719	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－3720	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3

【表２９９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3721	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－3722	O	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－3723	O	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3724	O	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3725	O	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3726	O	4	H	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3727	O	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3728	O	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3729	O	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3730	O	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3731	O	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3732	O	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3733	O	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3734	O	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3735	O	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3736	O	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3737	O	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3738	O	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3739	O	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3740	O	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3741	O	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3742	O	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3743	O	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3744	O	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3745	O	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3746	O	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3747	O	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－3748	O	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－3749	O	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－3750	O	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－3751	O	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－3752	O	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－3753	O	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－3754	O	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－3755	O	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－3756	O	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－3757	O	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－3758	O	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－3759	O	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－3760	O	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－3761	O	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－3762	O	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－3763	O	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－3764	O	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－3765	O	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－3766	O	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－3767	O	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－3768	O	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－3769	O	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－3770	O	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－3771	O	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－3772	O	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－3773	O	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－3774	O	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－3775	O	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－3776	O	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－3777	O	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－3778	O	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－3779	O	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－3780	O	4	H	H	H	H	F	H	H	H	F	H	H	H	H

【表３００】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3781	O	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－3782	O	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－3783	O	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－3784	O	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－3785	O	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－3786	O	4	H	H	H	H	H	F	H	F	H	H	H	H	H
(V)－3787	O	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－3788	O	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－3789	O	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－3790	O	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－3791	O	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－3792	O	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－3793	O	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－3794	O	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－3795	O	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－3796	O	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－3797	O	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－3798	O	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－3799	O	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－3800	O	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－3801	O	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－3802	O	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－3803	O	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－3804	O	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－3805	O	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－3806	O	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－3807	O	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－3808	O	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－3809	O	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－3810	O	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－3811	O	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－3812	O	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－3813	O	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－3814	O	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－3815	O	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－3816	O	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－3817	O	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－3818	O	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－3819	O	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－3820	O	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－3821	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－3822	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－3823	O	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－3824	O	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－3825	O	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－3826	O	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－3827	O	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－3828	O	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－3829	O	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－3830	O	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－3831	O	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－3832	O	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－3833	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－3834	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－3835	O	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－3836	O	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－3837	O	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－3838	O	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－3839	O	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－3840	O	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H

【表３０１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3841	O	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－3842	O	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－3843	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－3844	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－3845	O	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－3846	O	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(V)－3847	O	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－3848	O	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－3849	O	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－3850	O	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－3851	O	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－3852	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－3853	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－3854	O	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－3855	O	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－3856	O	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－3857	O	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－3858	O	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－3859	O	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－3860	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－3861	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－3862	O	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－3863	O	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－3864	O	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－3865	O	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－3866	O	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－3867	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－3868	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－3869	O	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－3870	O	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－3871	O	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－3872	O	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－3873	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－3874	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－3875	O	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－3876	O	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－3877	O	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－3878	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－3879	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－3880	O	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－3881	O	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－3882	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－3883	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－3884	O	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－3885	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－3886	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－3887	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－3888	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－3889	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－3890	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3891	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3892	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3893	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3894	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3895	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3896	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3897	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3898	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3899	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3900	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H

【表３０２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3901	O	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3902	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3903	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－3904	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－3905	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3906	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3907	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3908	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3909	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3910	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3911	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3912	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3913	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3914	O	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3915	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3916	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－3917	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－3918	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－3919	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－3920	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－3921	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－3922	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－3923	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－3924	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－3925	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－3926	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－3927	O	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－3928	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－3929	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－3930	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－3931	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－3932	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－3933	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－3934	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－3935	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－3936	O	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－3937	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－3938	O	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－3939	O	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－3940	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－3941	O	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－3942	O	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－3943	O	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－3944	O	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－3945	O	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－3946	O	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－3947	O	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－3948	O	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－3949	O	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－3950	O	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－3951	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－3952	O	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－3953	O	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－3954	O	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－3955	O	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－3956	O	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－3957	O	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－3958	O	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－3959	O	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－3960	O	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H

【表３０３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－3961	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－3962	O	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－3963	O	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－3964	O	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－3965	O	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－3966	O	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(V)－3967	O	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－3968	O	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－3969	O	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－3970	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－3971	O	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－3972	O	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－3973	O	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－3974	O	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－3975	O	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－3976	O	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－3977	O	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－3978	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－3979	O	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－3980	O	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－3981	O	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－3982	O	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－3983	O	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－3984	O	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－3985	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－3986	O	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－3987	O	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－3988	O	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－3989	O	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－3990	O	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－3991	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－3992	O	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－3993	O	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－3994	O	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－3995	O	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－3996	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－3997	O	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－3998	O	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－3999	O	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－4000	O	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－4001	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－4002	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－4003	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－4004	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－4005	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4006	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－4007	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－4008	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－4009	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－4010	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－4011	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－4012	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－4013	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－4014	O	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－4015	O	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－4016	O	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4017	O	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－4018	O	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－4019	O	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－4020	O	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H

【表３０４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4021	O	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－4022	O	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－4023	O	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－4024	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－4025	O	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－4026	O	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(V)－4027	O	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－4028	O	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－4029	O	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－4030	O	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－4031	O	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－4032	O	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－4033	O	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－4034	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－4035	O	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－4036	O	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－4037	O	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－4038	O	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－4039	O	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－4040	O	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－4041	O	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－4042	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－4043	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－4044	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－4045	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－4046	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－4047	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－4048	O	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－4049	O	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－4050	O	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－4051	O	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－4052	O	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－4053	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4054	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4055	O	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－4056	O	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－4057	O	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－4058	O	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－4059	O	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－4060	O	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－4061	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－4062	O	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－4063	O	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－4064	O	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－4065	O	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－4066	O	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－4067	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－4068	O	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－4069	O	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－4070	O	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－4071	O	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－4072	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－4073	O	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－4074	O	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－4075	O	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－4076	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－4077	O	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－4078	O	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－4079	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－4080	O	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H

【表３０５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4081	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－4082	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－4083	O	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－4084	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－4085	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－4086	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－4087	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－4088	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－4089	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－4090	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－4091	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－4092	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－4093	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－4094	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－4095	O	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－4096	O	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－4097	O	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－4098	O	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－4099	O	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－4100	O	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－4101	O	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－4102	O	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－4103	O	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－4104	O	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－4105	O	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－4106	O	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－4107	O	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－4108	O	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－4109	O	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－4110	O	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－4111	O	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－4112	O	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－4113	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－4114	O	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－4115	O	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－4116	O	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－4117	O	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－4118	O	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－4119	O	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－4120	O	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－4121	O	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－4122	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－4123	O	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－4124	O	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－4125	O	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－4126	O	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－4127	O	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－4128	O	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－4129	O	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－4130	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－4131	O	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－4132	O	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－4133	O	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－4134	O	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－4135	O	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－4136	O	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－4137	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－4138	O	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－4139	O	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－4140	O	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H

【表３０６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4141	O	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－4142	O	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－4143	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－4144	O	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－4145	O	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－4146	O	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(V)－4147	O	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－4148	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－4149	O	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－4150	O	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－4151	O	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－4152	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－4153	O	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－4154	O	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－4155	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－4156	O	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－4157	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－4158	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(V)－4159	S	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4160	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4161	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－4162	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4163	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－4164	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4165	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4166	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4167	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4168	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4169	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4170	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4171	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4172	S	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－4173	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4174	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(V)－4175	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(V)－4176	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(V)－4177	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(V)－4178	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(V)－4179	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(V)－4180	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(V)－4181	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(V)－4182	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(V)－4183	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(V)－4184	S	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(V)－4185	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(V)－4186	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4187	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(V)－4188	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(V)－4189	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(V)－4190	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(V)－4191	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(V)－4192	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(V)－4193	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(V)－4194	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(V)－4195	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(V)－4196	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(V)－4197	S	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(V)－4198	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(V)－4199	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4200	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H

【表３０７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4201	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(V)－4202	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(V)－4203	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(V)－4204	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(V)－4205	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(V)－4206	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(V)－4207	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(V)－4208	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(V)－4209	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(V)－4210	S	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(V)－4211	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(V)－4212	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4213	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(V)－4214	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(V)－4215	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(V)－4216	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(V)－4217	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(V)－4218	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(V)－4219	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(V)－4220	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(V)－4221	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(V)－4222	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(V)－4223	S	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(V)－4224	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(V)－4225	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4226	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(V)－4227	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(V)－4228	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(V)－4229	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(V)－4230	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(V)－4231	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(V)－4232	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(V)－4233	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(V)－4234	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(V)－4235	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(V)－4236	S	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(V)－4237	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(V)－4238	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－4239	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4240	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－4241	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4242	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4243	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4244	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4245	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4246	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4247	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4248	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4249	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－4250	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4251	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－4252	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4253	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4254	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4255	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4256	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4257	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4258	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4259	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4260	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3

【表３０８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4261	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(V)－4262	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(V)－4263	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(V)－4264	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(V)－4265	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(V)－4266	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(V)－4267	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(V)－4268	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(V)－4269	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(V)－4270	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(V)－4271	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(V)－4272	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(V)－4273	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(V)－4274	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(V)－4275	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(V)－4276	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(V)－4277	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(V)－4278	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(V)－4279	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(V)－4280	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(V)－4281	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(V)－4282	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(V)－4283	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(V)－4284	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(V)－4285	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(V)－4286	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(V)－4287	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(V)－4288	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(V)－4289	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(V)－4290	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(V)－4291	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(V)－4292	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(V)－4293	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(V)－4294	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(V)－4295	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(V)－4296	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(V)－4297	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(V)－4298	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(V)－4299	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(V)－4300	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(V)－4301	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(V)－4302	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(V)－4303	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(V)－4304	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(V)－4305	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(V)－4306	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(V)－4307	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(V)－4308	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(V)－4309	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(V)－4310	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(V)－4311	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(V)－4312	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(V)－4313	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(V)－4314	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(V)－4315	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(V)－4316	S	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(V)－4317	S	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(V)－4318	S	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(V)－4319	S	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(V)－4320	S	4	H	H	H	H	F	H	H	H	H	H	H	H	H

【表３０９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4321	S	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(V)－4322	S	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(V)－4323	S	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(V)－4324	S	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(V)－4325	S	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(V)－4326	S	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(V)－4327	S	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(V)－4328	S	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(V)－4329	S	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(V)－4330	S	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(V)－4331	S	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(V)－4332	S	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(V)－4333	S	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(V)－4334	S	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(V)－4335	S	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(V)－4336	S	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(V)－4337	S	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(V)－4338	S	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(V)－4339	S	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(V)－4340	S	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(V)－4341	S	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(V)－4342	S	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(V)－4343	S	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(V)－4344	S	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(V)－4345	S	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(V)－4346	S	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(V)－4347	S	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(V)－4348	S	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(V)－4349	S	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(V)－4350	S	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(V)－4351	S	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(V)－4352	S	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(V)－4353	S	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(V)－4354	S	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(V)－4355	S	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(V)－4356	S	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(V)－4357	S	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(V)－4358	S	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(V)－4359	S	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(V)－4360	S	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(V)－4361	S	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(V)－4362	S	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(V)－4363	S	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(V)－4364	S	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(V)－4365	S	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(V)－4366	S	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(V)－4367	S	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(V)－4368	S	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(V)－4369	S	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(V)－4370	S	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(V)－4371	S	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(V)－4372	S	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(V)－4373	S	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(V)－4374	S	4	H	H	H	H	F	H	H	H	F	H	H	H	H
(V)－4375	S	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(V)－4376	S	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(V)－4377	S	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(V)－4378	S	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(V)－4379	S	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(V)－4380	S	4	H	H	H	H	H	F	H	F	H	H	H	H	H

【表３１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4381	S	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(V)－4382	S	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(V)－4383	S	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(V)－4384	S	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(V)－4385	S	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(V)－4386	S	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(V)－4387	S	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(V)－4388	S	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(V)－4389	S	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(V)－4390	S	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(V)－4391	S	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(V)－4392	S	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(V)－4393	S	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(V)－4394	S	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(V)－4395	S	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(V)－4396	S	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(V)－4397	S	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(V)－4398	S	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(V)－4399	S	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(V)－4400	S	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(V)－4401	S	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(V)－4402	S	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(V)－4403	S	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(V)－4404	S	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(V)－4405	S	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(V)－4406	S	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(V)－4407	S	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(V)－4408	S	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(V)－4409	S	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(V)－4410	S	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(V)－4411	S	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(V)－4412	S	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(V)－4413	S	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(V)－4414	S	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(V)－4415	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(V)－4416	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(V)－4417	S	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(V)－4418	S	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(V)－4419	S	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(V)－4420	S	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(V)－4421	S	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(V)－4422	S	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(V)－4423	S	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(V)－4424	S	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(V)－4425	S	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(V)－4426	S	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(V)－4427	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(V)－4428	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(V)－4429	S	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(V)－4430	S	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(V)－4431	S	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(V)－4432	S	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(V)－4433	S	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(V)－4434	S	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(V)－4435	S	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(V)－4436	S	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(V)－4437	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(V)－4438	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(V)－4439	S	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(V)－4440	S	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H

【表３１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4441	S	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(V)－4442	S	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(V)－4443	S	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(V)－4444	S	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(V)－4445	S	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(V)－4446	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(V)－4447	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(V)－4448	S	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(V)－4449	S	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(V)－4450	S	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(V)－4451	S	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(V)－4452	S	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(V)－4453	S	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(V)－4454	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(V)－4455	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(V)－4456	S	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(V)－4457	S	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(V)－4458	S	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(V)－4459	S	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(V)－4460	S	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(V)－4461	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(V)－4462	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(V)－4463	S	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(V)－4464	S	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(V)－4465	S	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(V)－4466	S	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(V)－4467	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(V)－4468	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(V)－4469	S	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(V)－4470	S	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(V)－4471	S	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(V)－4472	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(V)－4473	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(V)－4474	S	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(V)－4475	S	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(V)－4476	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(V)－4477	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(V)－4478	S	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(V)－4479	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(V)－4480	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(V)－4481	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(V)－4482	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(V)－4483	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(V)－4484	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－4485	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－4486	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4487	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－4488	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4489	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4490	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4491	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4492	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4493	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4494	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4495	S	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4496	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－4497	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－4498	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－4499	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4500	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H

【表３１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4501	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4502	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4503	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4504	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4505	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4506	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4507	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4508	S	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4509	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－4510	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－4511	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－4512	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(V)－4513	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(V)－4514	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(V)－4515	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(V)－4516	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(V)－4517	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(V)－4518	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(V)－4519	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(V)－4520	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(V)－4521	S	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(V)－4522	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(V)－4523	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(V)－4524	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－4525	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－4526	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－4527	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－4528	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－4529	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－4530	S	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－4531	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－4532	S	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－4533	S	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－4534	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－4535	S	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(V)－4536	S	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(V)－4537	S	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(V)－4538	S	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(V)－4539	S	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(V)－4540	S	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(V)－4541	S	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(V)－4542	S	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(V)－4543	S	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(V)－4544	S	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(V)－4545	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(V)－4546	S	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(V)－4547	S	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(V)－4548	S	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(V)－4549	S	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(V)－4550	S	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(V)－4551	S	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(V)－4552	S	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(V)－4553	S	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(V)－4554	S	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(V)－4555	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(V)－4556	S	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(V)－4557	S	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(V)－4558	S	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(V)－4559	S	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(V)－4560	S	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H

【表３１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4561	S	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(V)－4562	S	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(V)－4563	S	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(V)－4564	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(V)－4565	S	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(V)－4566	S	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(V)－4567	S	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(V)－4568	S	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(V)－4569	S	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(V)－4570	S	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(V)－4571	S	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(V)－4572	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(V)－4573	S	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(V)－4574	S	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(V)－4575	S	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(V)－4576	S	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(V)－4577	S	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(V)－4578	S	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(V)－4579	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(V)－4580	S	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(V)－4581	S	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(V)－4582	S	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(V)－4583	S	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(V)－4584	S	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(V)－4585	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(V)－4586	S	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(V)－4587	S	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(V)－4588	S	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(V)－4589	S	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(V)－4590	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(V)－4591	S	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(V)－4592	S	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(V)－4593	S	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(V)－4594	S	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(V)－4595	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(V)－4596	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(V)－4597	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－4598	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－4599	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4600	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－4601	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－4602	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－4603	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－4604	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－4605	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－4606	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－4607	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－4608	S	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(V)－4609	S	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(V)－4610	S	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4611	S	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(V)－4612	S	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(V)－4613	S	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(V)－4614	S	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(V)－4615	S	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(V)－4616	S	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(V)－4617	S	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(V)－4618	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(V)－4619	S	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(V)－4620	S	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H

【表３１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4621	S	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(V)－4622	S	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(V)－4623	S	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(V)－4624	S	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(V)－4625	S	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(V)－4626	S	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(V)－4627	S	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(V)－4628	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(V)－4629	S	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(V)－4630	S	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(V)－4631	S	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(V)－4632	S	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(V)－4633	S	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(V)－4634	S	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(V)－4635	S	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(V)－4636	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－4637	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－4638	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－4639	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(V)－4640	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(V)－4641	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(V)－4642	S	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(V)－4643	S	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(V)－4644	S	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(V)－4645	S	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(V)－4646	S	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(V)－4647	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4648	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(V)－4649	S	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(V)－4650	S	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(V)－4651	S	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(V)－4652	S	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(V)－4653	S	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(V)－4654	S	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(V)－4655	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(V)－4656	S	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(V)－4657	S	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(V)－4658	S	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(V)－4659	S	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(V)－4660	S	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(V)－4661	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(V)－4662	S	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(V)－4663	S	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(V)－4664	S	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(V)－4665	S	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(V)－4666	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(V)－4667	S	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(V)－4668	S	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(V)－4669	S	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(V)－4670	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(V)－4671	S	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(V)－4672	S	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(V)－4673	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(V)－4674	S	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(V)－4675	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(V)－4676	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(V)－4677	S	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(V)－4678	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－4679	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－4680	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H

【表３１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4681	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－4682	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－4683	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－4684	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－4685	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－4686	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－4687	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(V)－4688	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(V)－4689	S	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(V)－4690	S	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(V)－4691	S	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(V)－4692	S	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(V)－4693	S	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(V)－4694	S	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(V)－4695	S	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(V)－4696	S	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(V)－4697	S	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(V)－4698	S	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(V)－4699	S	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(V)－4700	S	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(V)－4701	S	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(V)－4702	S	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(V)－4703	S	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(V)－4704	S	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(V)－4705	S	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(V)－4706	S	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(V)－4707	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(V)－4708	S	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(V)－4709	S	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(V)－4710	S	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(V)－4711	S	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(V)－4712	S	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(V)－4713	S	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(V)－4714	S	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(V)－4715	S	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(V)－4716	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(V)－4717	S	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(V)－4718	S	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(V)－4719	S	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(V)－4720	S	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(V)－4721	S	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(V)－4722	S	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(V)－4723	S	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(V)－4724	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(V)－4725	S	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(V)－4726	S	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(V)－4727	S	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(V)－4728	S	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(V)－4729	S	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(V)－4730	S	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(V)－4731	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(V)－4732	S	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(V)－4733	S	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(V)－4734	S	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(V)－4735	S	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(V)－4736	S	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(V)－4737	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(V)－4738	S	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(V)－4739	S	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(V)－4740	S	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H

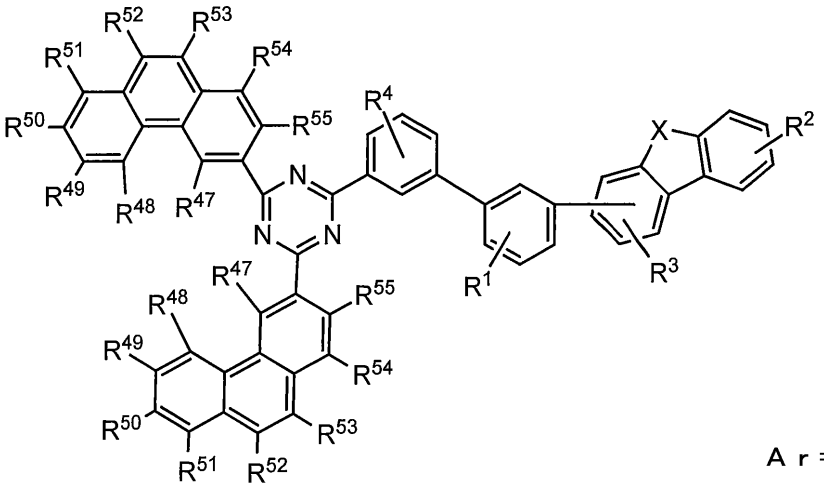
【表３１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{38}	R^{39}	R^{40}	R^{41}	R^{42}	R^{43}	R^{44}	R^{45}	R^{46}
(V)－4741	S	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(V)－4742	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(V)－4743	S	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(V)－4744	S	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(V)－4745	S	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(V)－4746	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(V)－4747	S	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(V)－4748	S	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(V)－4749	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(V)－4750	S	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(V)－4751	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(V)－4752	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F

【００４０】

下記式で表される化合物を表３１７～表３９６に示す。式中のＸ、R^1～R^4、R^{47}～R^{55}は、前記一般式〔１〕の場合と同じである。

【化２０】



Ａｒ＝(VI)

【００４１】

【表３１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1	O	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－13	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－14	O	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－15	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－16	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－17	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－18	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－19	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－20	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－21	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－22	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－23	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－24	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－25	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－26	O	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－27	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－28	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－29	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－30	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－31	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－32	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－33	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－34	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－35	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－36	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－37	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－38	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－39	O	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－40	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－41	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－42	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－43	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－44	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－45	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－46	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－47	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－48	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－49	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－50	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－51	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－52	O	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－53	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－54	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－55	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－56	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－57	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－58	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－59	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－60	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表３１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－61	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－62	O	1	H	H	H	H	H	H	H	H	C_6H_{11}	H	H	H	H
(VI)－63	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－64	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－65	O	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－66	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－67	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－68	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－69	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－70	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－71	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－72	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－73	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－74	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－75	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－76	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－77	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－78	O	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－79	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－80	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－81	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－82	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－83	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－84	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－85	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－86	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－87	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－88	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－89	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－90	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－91	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－92	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－93	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－94	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－95	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－96	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－97	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－98	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－99	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－100	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－101	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－102	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－103	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－104	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－105	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－106	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－107	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－108	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－109	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－110	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－111	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－112	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－113	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－114	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－115	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－116	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－117	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－118	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－119	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－120	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H

【表３１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－121	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－122	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－123	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－124	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－125	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－126	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－127	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－128	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－129	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－130	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－131	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－132	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－133	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－134	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－135	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－136	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－137	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－138	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－139	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－140	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－141	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－142	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－143	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－144	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－145	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－146	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－147	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－148	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－149	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－150	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－151	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－152	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－153	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－154	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－155	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－156	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－157	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－158	O	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－159	O	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－160	O	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－161	O	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－162	O	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－163	O	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－164	O	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－165	O	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－166	O	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－167	O	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－168	O	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－169	O	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－170	O	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－171	O	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－172	O	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－173	O	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－174	O	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－175	O	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－176	O	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－177	O	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－178	O	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－179	O	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－180	O	1	F	H	H	H	H	H	H	H	H	H	F	H	H

【表３２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－181	O	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－182	O	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－183	O	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－184	O	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－185	O	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－186	O	1	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－187	O	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－188	O	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－189	O	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－190	O	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－191	O	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－192	O	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－193	O	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－194	O	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－195	O	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－196	O	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－197	O	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－198	O	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－199	O	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－200	O	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－201	O	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－202	O	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－203	O	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－204	O	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－205	O	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－206	O	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－207	O	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－208	O	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－209	O	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－210	O	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－211	O	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－212	O	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－213	O	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－214	O	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－215	O	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－216	O	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－217	O	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－218	O	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－219	O	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－220	O	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－221	O	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－222	O	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－223	O	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－224	O	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－225	O	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－226	O	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－227	O	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－228	O	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－229	O	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－230	O	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－231	O	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－232	O	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－233	O	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－234	O	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－235	O	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－236	O	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－237	O	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－238	O	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－239	O	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－240	O	1	H	H	H	H	H	H	H	H	F	H	H	H	F

【表３２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－241	O	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－242	O	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－243	O	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－244	O	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－245	O	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－246	O	1	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－247	O	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－248	O	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－249	O	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－250	O	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－251	O	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－252	O	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－253	O	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－254	O	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－255	O	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－256	O	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－257	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－258	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－259	O	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－260	O	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－261	O	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－262	O	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－263	O	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－264	O	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－265	O	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－266	O	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－267	O	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－268	O	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－269	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－270	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－271	O	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－272	O	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－273	O	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－274	O	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－275	O	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－276	O	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－277	O	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－278	O	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－279	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－280	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－281	O	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－282	O	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－283	O	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－284	O	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－285	O	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－286	O	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－287	O	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－288	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－289	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－290	O	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－291	O	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－292	O	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－293	O	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－294	O	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－295	O	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－296	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－297	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－298	O	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－299	O	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－300	O	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H

【表３２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{56}
(VI)－301	O	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－302	O	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－303	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－304	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－305	O	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－306	O	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－307	O	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－308	O	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－309	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－310	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－311	O	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－312	O	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－313	O	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－314	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－315	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－316	O	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－317	O	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－318	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－319	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－320	O	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－321	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－322	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－323	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－324	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－325	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－326	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－327	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－328	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－329	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－330	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－331	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－332	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－333	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－334	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－335	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－336	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－337	O	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－338	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－339	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－340	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－341	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－342	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－343	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－344	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－345	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－346	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－347	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－348	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－349	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－350	O	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－351	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－352	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－353	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－354	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－355	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－356	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－357	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－358	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－359	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－360	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H

【表３２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－361	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－362	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－363	O	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－364	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－365	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－366	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－367	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－368	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－369	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－370	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－371	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－372	O	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－373	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－374	O	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－375	O	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－376	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－377	O	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－378	O	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－379	O	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－380	O	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－381	O	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－382	O	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－383	O	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－384	O	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－385	O	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－386	O	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－387	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－388	O	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－389	O	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－390	O	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－391	O	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－392	O	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－393	O	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－394	O	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－395	O	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－396	O	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－397	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－398	O	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－399	O	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－400	O	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－401	O	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－402	O	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－403	O	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－404	O	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－405	O	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－406	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－407	O	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－408	O	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－409	O	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－410	O	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－411	O	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－412	O	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－413	O	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－414	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－415	O	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－416	O	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－417	O	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－418	O	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－419	O	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－420	O	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H

【表３２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－421	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－422	O	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－423	O	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－424	O	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－425	O	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－426	O	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－427	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－428	O	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－429	O	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－430	O	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－431	O	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－432	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－433	O	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－434	O	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－435	O	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－436	O	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－437	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－438	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－439	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－440	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－441	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－442	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－443	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－444	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－445	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－446	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－447	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－448	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－449	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－450	O	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－451	O	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－452	O	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－453	O	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－454	O	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－455	O	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－456	O	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－457	O	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－458	O	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－459	O	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－460	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－461	O	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－462	O	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－463	O	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－464	O	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－465	O	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－466	O	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－467	O	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－468	O	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－469	O	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－470	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－471	O	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－472	O	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－473	O	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－474	O	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－475	O	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－476	O	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－477	O	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－478	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－479	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－480	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H

【表３２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－481	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－482	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－483	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－484	O	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－485	O	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－486	O	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－487	O	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－488	O	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－489	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－490	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－491	O	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－492	O	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－493	O	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－494	O	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－495	O	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－496	O	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－497	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－498	O	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－499	O	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－500	O	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－501	O	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－502	O	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－503	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－504	O	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－505	O	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－506	O	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－507	O	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－508	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－509	O	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－510	O	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－511	O	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－512	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－513	O	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－514	O	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－515	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－516	O	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－517	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－518	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－519	O	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－520	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－521	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－522	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－523	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－524	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－525	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－526	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－527	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－528	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－529	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－530	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－531	O	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－532	O	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－533	O	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－534	O	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－535	O	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－536	O	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－537	O	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－538	O	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－539	O	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－540	O	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H

【表３２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－541	O	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－542	O	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－543	O	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－544	O	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－545	O	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－546	O	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－547	O	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－548	O	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－549	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－550	O	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－551	O	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－552	O	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－553	O	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－554	O	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－555	O	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－556	O	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－557	O	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－558	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－559	O	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－560	O	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－561	O	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－562	O	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－563	O	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－564	O	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－565	O	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－566	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－567	O	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－568	O	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－569	O	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－570	O	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－571	O	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－572	O	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－573	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－574	O	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－575	O	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－576	O	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－577	O	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－578	O	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－579	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－580	O	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－581	O	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－582	O	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－583	O	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－584	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－585	O	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－586	O	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－587	O	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－588	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－589	O	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－590	O	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－591	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－592	O	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－593	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－594	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－595	S	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－596	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－597	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－598	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－599	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－600	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H

【表３２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－601	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－602	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－603	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－604	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－605	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－606	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－607	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－608	S	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－609	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－610	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－611	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－612	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－613	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－614	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－615	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－616	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－617	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－618	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－619	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－620	S	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－621	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－622	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－623	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－624	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－625	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－626	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－627	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－628	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－629	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－630	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－631	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－632	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－633	S	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－634	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－635	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－636	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－637	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－638	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－639	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－640	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－641	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－642	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－643	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－644	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－645	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－646	S	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－647	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－648	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－649	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－650	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－651	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－652	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－653	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－654	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－655	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－656	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－657	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－658	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－659	S	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－660	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表３２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－661	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－662	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－663	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－664	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－665	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－666	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－667	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－668	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－669	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－670	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－671	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－672	S	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－673	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－674	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－675	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－676	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－677	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－678	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－679	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－680	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－681	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－682	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－683	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－684	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－685	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－686	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－687	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－688	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－689	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－690	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－691	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－692	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－693	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－694	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－695	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－696	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－697	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－698	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－699	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－700	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－701	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－702	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－703	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－704	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－705	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－706	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－707	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－708	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－709	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－710	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－711	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－712	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－713	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－714	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－715	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－716	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－717	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－718	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－719	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－720	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H

【表３２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－721	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－722	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－723	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－724	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－725	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－726	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－727	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－728	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－729	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－730	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－731	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－732	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－733	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－734	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－735	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－736	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－737	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－738	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－739	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－740	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－741	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－742	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－743	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－744	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－745	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－746	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－747	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－748	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－749	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－750	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－751	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－752	S	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－753	S	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－754	S	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－755	S	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－756	S	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－757	S	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－758	S	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－759	S	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－760	S	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－761	S	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－762	S	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－763	S	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－764	S	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－765	S	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－766	S	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－767	S	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－768	S	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－769	S	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－770	S	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－771	S	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－772	S	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－773	S	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－774	S	1	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－775	S	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－776	S	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－777	S	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－778	S	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－779	S	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－780	S	1	H	F	H	H	H	F	H	H	H	H	H	H	H

【表３３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－781	S	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－782	S	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－783	S	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－784	S	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－785	S	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－786	S	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－787	S	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－788	S	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－789	S	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－790	S	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－791	S	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－792	S	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－793	S	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－794	S	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－795	S	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－796	S	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－797	S	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－798	S	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－799	S	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－800	S	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－801	S	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－802	S	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－803	S	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－804	S	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－805	S	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－806	S	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－807	S	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－808	S	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－809	S	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－810	S	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－811	S	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－812	S	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－813	S	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－814	S	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－815	S	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－816	S	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－817	S	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－818	S	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－819	S	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－820	S	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－821	S	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－822	S	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－823	S	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－824	S	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－825	S	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－826	S	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－827	S	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－828	S	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－829	S	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－830	S	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－831	S	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－832	S	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－833	S	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－834	S	1	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－835	S	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－836	S	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－837	S	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－838	S	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－839	S	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－840	S	1	H	H	H	H	H	H	H	H	H	H	H	F	F

【表３３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－841	S	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－842	S	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－843	S	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－844	S	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－845	S	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－846	S	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－847	S	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－848	S	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－849	S	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－850	S	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－851	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－852	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－853	S	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－854	S	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－855	S	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－856	S	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－857	S	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－858	S	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－859	S	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－860	S	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－861	S	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－862	S	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－863	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－864	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－865	S	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－866	S	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－867	S	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－868	S	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－869	S	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－870	S	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－871	S	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－872	S	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－873	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－874	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－875	S	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－876	S	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－877	S	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－878	S	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－879	S	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－880	S	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－881	S	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－882	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－883	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－884	S	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－885	S	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－886	S	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－887	S	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－888	S	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－889	S	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－890	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－891	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－892	S	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－893	S	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－894	S	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－895	S	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－896	S	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－897	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－898	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－899	S	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－900	S	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H

【表３３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－901	S	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－902	S	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－903	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－904	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－905	S	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－906	S	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－907	S	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－908	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－909	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－910	S	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－911	S	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－912	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－913	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－914	S	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－915	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－916	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－917	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－918	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－919	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－920	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－921	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－922	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－923	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－924	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－925	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－926	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－927	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－928	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－929	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－930	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－931	S	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－932	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－933	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－934	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－935	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－936	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－937	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－938	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－939	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－940	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－941	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－942	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－943	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－944	S	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－945	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－946	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－947	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－948	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－949	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－950	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－951	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－952	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－953	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－954	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－955	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－956	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－957	S	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－958	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－959	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－960	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H

【表３３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－961	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－962	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－963	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－964	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－965	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－966	S	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－967	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－968	S	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－969	S	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－970	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－971	S	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－972	S	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－973	S	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－974	S	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－975	S	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－976	S	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－977	S	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－978	S	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－979	S	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－980	S	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－981	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－982	S	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－983	S	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－984	S	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－985	S	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－986	S	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－987	S	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－988	S	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－989	S	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－990	S	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－991	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－992	S	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－993	S	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－994	S	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－995	S	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－996	S	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－997	S	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－998	S	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－999	S	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－1000	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－1001	S	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－1002	S	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－1003	S	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－1004	S	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－1005	S	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－1006	S	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－1007	S	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－1008	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－1009	S	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－1010	S	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－1011	S	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－1012	S	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－1013	S	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－1014	S	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－1015	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－1016	S	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－1017	S	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－1018	S	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－1019	S	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－1020	S	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H

【表３３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1021	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－1022	S	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－1023	S	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－1024	S	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－1025	S	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－1026	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－1027	S	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－1028	S	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－1029	S	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－1030	S	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－1031	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－1032	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－1033	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－1034	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－1035	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1036	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－1037	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－1038	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－1039	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－1040	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－1041	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－1042	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－1043	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－1044	S	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－1045	S	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－1046	S	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1047	S	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－1048	S	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－1049	S	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－1050	S	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－1051	S	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－1052	S	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－1053	S	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－1054	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－1055	S	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－1056	S	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－1057	S	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－1058	S	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－1059	S	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－1060	S	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－1061	S	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－1062	S	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－1063	S	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－1064	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－1065	S	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－1066	S	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－1067	S	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－1068	S	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－1069	S	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－1070	S	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－1071	S	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－1072	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－1073	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－1074	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－1075	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－1076	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－1077	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－1078	S	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－1079	S	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－1080	S	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H

【表３３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1081	S	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－1082	S	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－1083	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1084	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1085	S	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－1086	S	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－1087	S	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－1088	S	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－1089	S	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－1090	S	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－1091	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－1092	S	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－1093	S	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－1094	S	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－1095	S	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－1096	S	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－1097	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－1098	S	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－1099	S	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－1100	S	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－1101	S	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－1102	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－1103	S	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－1104	S	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－1105	S	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－1106	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－1107	S	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－1108	S	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－1109	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－1110	S	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－1111	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－1112	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－1113	S	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－1114	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－1115	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－1116	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－1117	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－1118	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－1119	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－1120	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－1121	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－1122	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－1123	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－1124	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－1125	S	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－1126	S	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－1127	S	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－1128	S	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－1129	S	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－1130	S	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－1131	S	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－1132	S	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－1133	S	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－1134	S	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－1135	S	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－1136	S	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－1137	S	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－1138	S	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－1139	S	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－1140	S	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H

【表３３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1141	S	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－1142	S	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－1143	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－1144	S	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－1145	S	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－1146	S	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－1147	S	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－1148	S	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－1149	S	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－1150	S	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－1151	S	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－1152	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－1153	S	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－1154	S	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－1155	S	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－1156	S	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－1157	S	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－1158	S	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－1159	S	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－1160	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－1161	S	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－1162	S	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－1163	S	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－1164	S	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－1165	S	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－1166	S	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－1167	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－1168	S	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－1169	S	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－1170	S	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－1171	S	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－1172	S	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－1173	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－1174	S	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－1175	S	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－1176	S	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－1177	S	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－1178	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－1179	S	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－1180	S	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－1181	S	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－1182	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－1183	S	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－1184	S	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－1185	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－1186	S	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－1187	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－1188	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－1189	O	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1190	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1191	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－1192	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1193	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1194	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1195	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1196	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1197	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1198	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1199	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1200	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H

【表３３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1201	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1202	O	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1203	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1204	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－1205	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－1206	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－1207	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－1208	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－1209	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－1210	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－1211	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－1212	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－1213	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－1214	O	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－1215	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－1216	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1217	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－1218	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－1219	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－1220	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－1221	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－1222	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－1223	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－1224	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－1225	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－1226	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－1227	O	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－1228	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－1229	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1230	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－1231	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－1232	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－1233	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－1234	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－1235	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－1236	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－1237	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－1238	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－1239	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－1240	O	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－1241	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－1242	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1243	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－1244	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－1245	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－1246	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－1247	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－1248	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－1249	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－1250	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－1251	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－1252	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－1253	O	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－1254	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－1255	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1256	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－1257	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－1258	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－1259	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－1260	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表３３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1261	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－1262	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－1263	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－1264	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－1265	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－1266	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－1267	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－1268	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－1269	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1270	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1271	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1272	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1273	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1274	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1275	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1276	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1277	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1278	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1279	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1280	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1281	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1282	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1283	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1284	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1285	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1286	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1287	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1288	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1289	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1290	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1291	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1292	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1293	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1294	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1295	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1296	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1297	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1298	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1299	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1300	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1301	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－1302	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－1303	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－1304	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－1305	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－1306	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－1307	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－1308	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－1309	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－1310	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－1311	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－1312	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－1313	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－1314	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－1315	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－1316	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－1317	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－1318	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－1319	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－1320	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H

【表３３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1321	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－1322	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－1323	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－1324	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－1325	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－1326	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－1327	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－1328	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－1329	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－1330	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－1331	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－1332	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－1333	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－1334	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－1335	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－1336	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－1337	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－1338	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－1339	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－1340	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－1341	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－1342	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－1343	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－1344	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－1345	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－1346	O	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1347	O	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－1348	O	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－1349	O	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－1350	O	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－1351	O	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－1352	O	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－1353	O	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－1354	O	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－1355	O	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－1356	O	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－1357	O	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－1358	O	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－1359	O	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－1360	O	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－1361	O	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－1362	O	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－1363	O	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－1364	O	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－1365	O	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－1366	O	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－1367	O	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－1368	O	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－1369	O	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－1370	O	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－1371	O	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－1372	O	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－1373	O	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－1374	O	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－1375	O	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－1376	O	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－1377	O	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－1378	O	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－1379	O	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－1380	O	2	H	F	H	H	H	H	H	H	H	H	H	F	H

【表３４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1381	O	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－1382	O	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－1383	O	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－1384	O	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－1385	O	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－1386	O	2	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－1387	O	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－1388	O	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－1389	O	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－1390	O	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－1391	O	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－1392	O	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－1393	O	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－1394	O	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－1395	O	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－1396	O	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－1397	O	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－1398	O	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－1399	O	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－1400	O	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－1401	O	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－1402	O	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－1403	O	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－1404	O	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－1405	O	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－1406	O	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－1407	O	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－1408	O	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－1409	O	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－1410	O	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－1411	O	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－1412	O	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－1413	O	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－1414	O	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－1415	O	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－1416	O	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－1417	O	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－1418	O	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－1419	O	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－1420	O	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－1421	O	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－1422	O	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－1423	O	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－1424	O	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－1425	O	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－1426	O	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－1427	O	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－1428	O	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－1429	O	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－1430	O	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－1431	O	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－1432	O	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－1433	O	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－1434	O	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－1435	O	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－1436	O	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－1437	O	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－1438	O	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－1439	O	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－1440	O	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H

【表３４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1441	O	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－1442	O	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－1443	O	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－1444	O	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－1445	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－1446	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－1447	O	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－1448	O	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－1449	O	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－1450	O	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－1451	O	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－1452	O	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－1453	O	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－1454	O	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－1455	O	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－1456	O	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－1457	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－1458	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－1459	O	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－1460	O	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－1461	O	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－1462	O	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－1463	O	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－1464	O	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－1465	O	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－1466	O	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－1467	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－1468	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－1469	O	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－1470	O	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－1471	O	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－1472	O	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－1473	O	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－1474	O	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－1475	O	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－1476	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－1477	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－1478	O	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－1479	O	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－1480	O	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－1481	O	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－1482	O	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－1483	O	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－1484	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－1485	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－1486	O	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－1487	O	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－1488	O	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－1489	O	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－1490	O	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－1491	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－1492	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－1493	O	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－1494	O	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－1495	O	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－1496	O	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－1497	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－1498	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－1499	O	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－1500	O	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H

【表３４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1501	O	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－1502	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－1503	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－1504	O	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－1505	O	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－1506	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－1507	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－1508	O	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－1509	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－1510	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－1511	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－1512	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－1513	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－1514	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－1515	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－1516	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1517	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1518	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1519	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1520	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1521	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1522	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1523	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1524	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1525	O	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1526	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1527	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－1528	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－1529	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1530	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1531	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1532	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1533	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1534	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1535	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1536	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1537	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1538	O	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1539	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1540	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－1541	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－1542	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1543	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1544	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1545	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1546	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1547	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1548	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1549	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1550	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1551	O	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1552	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1553	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－1554	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－1555	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－1556	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－1557	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－1558	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－1559	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－1560	O	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H

【表３４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1561	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－1562	O	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－1563	O	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－1564	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－1565	O	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－1566	O	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－1567	O	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－1568	O	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－1569	O	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－1570	O	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－1571	O	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－1572	O	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－1573	O	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－1574	O	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－1575	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－1576	O	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－1577	O	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－1578	O	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－1579	O	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－1580	O	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－1581	O	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－1582	O	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－1583	O	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－1584	O	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－1585	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－1586	O	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－1587	O	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－1588	O	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－1589	O	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－1590	O	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－1591	O	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－1592	O	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－1593	O	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－1594	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－1595	O	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－1596	O	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－1597	O	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－1598	O	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－1599	O	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－1600	O	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－1601	O	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－1602	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－1603	O	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－1604	O	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－1605	O	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－1606	O	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－1607	O	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－1608	O	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－1609	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－1610	O	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－1611	O	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－1612	O	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－1613	O	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－1614	O	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－1615	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－1616	O	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－1617	O	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－1618	O	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－1619	O	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－1620	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F

【表３４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1621	O	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－1622	O	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－1623	O	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－1624	O	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－1625	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－1626	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－1627	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－1628	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－1629	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1630	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－1631	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－1632	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－1633	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－1634	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－1635	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－1636	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－1637	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－1638	O	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－1639	O	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－1640	O	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1641	O	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－1642	O	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－1643	O	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－1644	O	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－1645	O	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－1646	O	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－1647	O	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－1648	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－1649	O	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－1650	O	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－1651	O	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－1652	O	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－1653	O	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－1654	O	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－1655	O	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－1656	O	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－1657	O	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－1658	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－1659	O	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－1660	O	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－1661	O	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－1662	O	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－1663	O	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－1664	O	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－1665	O	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－1666	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－1667	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－1668	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－1669	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－1670	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－1671	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－1672	O	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－1673	O	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－1674	O	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－1675	O	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－1676	O	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－1677	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1678	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－1679	O	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－1680	O	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H

【表３４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1681	O	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－1682	O	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－1683	O	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－1684	O	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－1685	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－1686	O	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－1687	O	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－1688	O	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－1689	O	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－1690	O	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－1691	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－1692	O	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－1693	O	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－1694	O	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－1695	O	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－1696	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－1697	O	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－1698	O	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－1699	O	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－1700	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－1701	O	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－1702	O	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－1703	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－1704	O	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－1705	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－1706	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－1707	O	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－1708	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－1709	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－1710	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－1711	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－1712	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－1713	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－1714	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－1715	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－1716	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－1717	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－1718	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－1719	O	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－1720	O	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－1721	O	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－1722	O	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－1723	O	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－1724	O	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－1725	O	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－1726	O	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－1727	O	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－1728	O	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－1729	O	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－1730	O	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－1731	O	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－1732	O	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－1733	O	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－1734	O	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－1735	O	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－1736	O	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－1737	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－1738	O	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－1739	O	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－1740	O	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H

【表３４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{56}
(VI)－1741	O	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－1742	O	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－1743	O	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－1744	O	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－1745	O	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－1746	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－1747	O	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－1748	O	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－1749	O	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－1750	O	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－1751	O	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－1752	O	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－1753	O	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－1754	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－1755	O	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－1756	O	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－1757	O	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－1758	O	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－1759	O	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－1760	O	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－1761	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－1762	O	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－1763	O	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－1764	O	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－1765	O	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－1766	O	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－1767	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－1768	O	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－1769	O	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－1770	O	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－1771	O	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－1772	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－1773	O	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－1774	O	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－1775	O	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－1776	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－1777	O	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－1778	O	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－1779	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－1780	O	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－1781	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－1782	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－1783	S	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1784	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1785	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－1786	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1787	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1788	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1789	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1790	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1791	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1792	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1793	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1794	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1795	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1796	S	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1797	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1798	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－1799	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－1800	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H

【表３４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1801	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－1802	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－1803	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－1804	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－1805	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－1806	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－1807	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－1808	S	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－1809	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－1810	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1811	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－1812	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－1813	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－1814	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－1815	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－1816	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－1817	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－1818	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－1819	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－1820	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－1821	S	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－1822	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－1823	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1824	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－1825	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－1826	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－1827	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－1828	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－1829	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－1830	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－1831	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－1832	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－1833	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－1834	S	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－1835	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－1836	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1837	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－1838	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－1839	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－1840	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－1841	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－1842	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－1843	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－1844	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－1845	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－1846	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－1847	S	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－1848	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－1849	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1850	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－1851	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－1852	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－1853	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－1854	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－1855	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－1856	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－1857	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－1858	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－1859	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－1860	S	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H

【表３４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1861	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－1862	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－1863	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1864	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1865	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1866	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1867	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1868	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1869	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1870	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1871	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1872	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1873	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1874	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－1875	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1876	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1877	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1878	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1879	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1880	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1881	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1882	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1883	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1884	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1885	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－1886	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－1887	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－1888	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－1889	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－1890	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－1891	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－1892	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－1893	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－1894	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－1895	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－1896	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－1897	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－1898	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－1899	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－1900	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－1901	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－1902	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－1903	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－1904	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－1905	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－1906	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－1907	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－1908	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－1909	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－1910	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－1911	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－1912	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－1913	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－1914	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－1915	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－1916	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－1917	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－1918	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－1919	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－1920	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H

【表３４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1921	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－1922	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－1923	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－1924	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－1925	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－1926	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－1927	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－1928	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－1929	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－1930	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－1931	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－1932	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－1933	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－1934	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－1935	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－1936	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－1937	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－1938	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－1939	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－1940	S	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－1941	S	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－1942	S	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－1943	S	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－1944	S	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－1945	S	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－1946	S	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－1947	S	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－1948	S	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－1949	S	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－1950	S	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－1951	S	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－1952	S	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－1953	S	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－1954	S	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－1955	S	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－1956	S	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－1957	S	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－1958	S	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－1959	S	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－1960	S	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－1961	S	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－1962	S	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－1963	S	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－1964	S	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－1965	S	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－1966	S	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－1967	S	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－1968	S	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－1969	S	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－1970	S	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－1971	S	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－1972	S	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－1973	S	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－1974	S	2	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－1975	S	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－1976	S	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－1977	S	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－1978	S	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－1979	S	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－1980	S	2	H	H	F	H	H	H	H	F	H	H	H	H	H

【表３５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－1981	S	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－1982	S	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－1983	S	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－1984	S	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－1985	S	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－1986	S	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－1987	S	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－1988	S	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－1989	S	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－1990	S	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－1991	S	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－1992	S	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－1993	S	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－1994	S	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－1995	S	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－1996	S	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－1997	S	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－1998	S	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－1999	S	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－2000	S	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－2001	S	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－2002	S	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－2003	S	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－2004	S	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－2005	S	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－2006	S	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－2007	S	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－2008	S	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－2009	S	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－2010	S	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－2011	S	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－2012	S	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－2013	S	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－2014	S	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－2015	S	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－2016	S	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－2017	S	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－2018	S	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－2019	S	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－2020	S	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－2021	S	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－2022	S	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－2023	S	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－2024	S	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－2025	S	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－2026	S	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－2027	S	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－2028	S	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－2029	S	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－2030	S	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－2031	S	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－2032	S	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－2033	S	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－2034	S	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－2035	S	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－2036	S	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－2037	S	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－2038	S	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－2039	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－2040	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F

【表３５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2041	S	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－2042	S	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－2043	S	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－2044	S	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－2045	S	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－2046	S	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－2047	S	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－2048	S	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－2049	S	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－2050	S	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－2051	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－2052	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－2053	S	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－2054	S	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－2055	S	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－2056	S	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－2057	S	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－2058	S	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－2059	S	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－2060	S	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－2061	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－2062	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－2063	S	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－2064	S	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－2065	S	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－2066	S	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－2067	S	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－2068	S	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－2069	S	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－2070	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－2071	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－2072	S	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－2073	S	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－2074	S	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－2075	S	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－2076	S	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－2077	S	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－2078	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－2079	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－2080	S	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－2081	S	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－2082	S	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－2083	S	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－2084	S	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－2085	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－2086	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－2087	S	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－2088	S	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－2089	S	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－2090	S	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－2091	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－2092	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－2093	S	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－2094	S	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－2095	S	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－2096	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－2097	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－2098	S	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－2099	S	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－2100	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H

【表３５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2101	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－2102	S	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－2103	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－2104	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－2105	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－2106	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－2107	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－2108	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2109	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2110	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2111	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2112	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2113	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2114	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2115	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2116	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2117	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2118	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2119	S	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2120	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2121	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－2122	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－2123	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2124	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2125	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2126	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2127	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2128	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2129	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2130	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2131	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2132	S	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2133	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2134	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2135	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2136	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2137	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2138	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2139	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2140	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2141	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2142	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2143	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2144	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2145	S	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2146	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2147	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2148	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－2149	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－2150	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－2151	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－2152	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－2153	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－2154	S	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－2155	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－2156	S	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－2157	S	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－2158	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－2159	S	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－2160	S	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H

【表３５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2161	S	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－2162	S	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－2163	S	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－2164	S	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－2165	S	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－2166	S	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－2167	S	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－2168	S	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－2169	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－2170	S	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－2171	S	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－2172	S	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－2173	S	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－2174	S	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－2175	S	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－2176	S	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－2177	S	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－2178	S	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－2179	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－2180	S	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－2181	S	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－2182	S	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－2183	S	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－2184	S	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－2185	S	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－2186	S	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－2187	S	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－2188	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－2189	S	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－2190	S	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－2191	S	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－2192	S	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－2193	S	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－2194	S	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－2195	S	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－2196	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－2197	S	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－2198	S	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－2199	S	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－2200	S	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－2201	S	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－2202	S	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－2203	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－2204	S	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－2205	S	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－2206	S	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－2207	S	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－2208	S	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－2209	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－2210	S	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－2211	S	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－2212	S	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－2213	S	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－2214	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－2215	S	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－2216	S	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－2217	S	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－2218	S	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－2219	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－2220	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H

【表３５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2221	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－2222	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－2223	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2224	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－2225	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－2226	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－2227	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－2228	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－2229	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－2230	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－2231	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－2232	S	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－2233	S	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－2234	S	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2235	S	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－2236	S	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－2237	S	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－2238	S	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－2239	S	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－2240	S	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－2241	S	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－2242	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－2243	S	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－2244	S	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－2245	S	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－2246	S	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－2247	S	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－2248	S	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－2249	S	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－2250	S	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－2251	S	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－2252	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－2253	S	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－2254	S	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－2255	S	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－2256	S	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－2257	S	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－2258	S	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－2259	S	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－2260	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－2261	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－2262	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－2263	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－2264	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－2265	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－2266	S	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－2267	S	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－2268	S	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－2269	S	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－2270	S	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－2271	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2272	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2273	S	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－2274	S	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－2275	S	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－2276	S	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－2277	S	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－2278	S	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－2279	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－2280	S	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H

【表３５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2281	S	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－2282	S	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－2283	S	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－2284	S	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－2285	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－2286	S	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－2287	S	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－2288	S	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－2289	S	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－2290	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－2291	S	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－2292	S	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－2293	S	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－2294	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－2295	S	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－2296	S	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－2297	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－2298	S	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－2299	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－2300	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－2301	S	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2302	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－2303	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－2304	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－2305	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－2306	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－2307	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－2308	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－2309	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－2310	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－2311	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－2312	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－2313	S	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－2314	S	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－2315	S	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－2316	S	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－2317	S	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－2318	S	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－2319	S	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－2320	S	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－2321	S	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－2322	S	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－2323	S	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－2324	S	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－2325	S	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－2326	S	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－2327	S	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－2328	S	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－2329	S	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－2330	S	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－2331	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－2332	S	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－2333	S	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－2334	S	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－2335	S	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－2336	S	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－2337	S	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－2338	S	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－2339	S	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－2340	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F

【表３５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2341	S	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－2342	S	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－2343	S	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－2344	S	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－2345	S	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－2346	S	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－2347	S	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－2348	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－2349	S	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－2350	S	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－2351	S	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－2352	S	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－2353	S	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－2354	S	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－2355	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－2356	S	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－2357	S	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－2358	S	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－2359	S	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－2360	S	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－2361	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－2362	S	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－2363	S	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－2364	S	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－2365	S	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－2366	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－2367	S	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－2368	S	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－2369	S	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－2370	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－2371	S	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－2372	S	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－2373	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－2374	S	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－2375	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－2376	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－2377	O	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2378	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2379	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－2380	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2381	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2382	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2383	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2384	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2385	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2386	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2387	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2388	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2389	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2390	O	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2391	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2392	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－2393	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－2394	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－2395	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－2396	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－2397	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－2398	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－2399	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－2400	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H

【表３５７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2401	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－2402	O	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－2403	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－2404	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2405	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－2406	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－2407	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－2408	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－2409	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－2410	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－2411	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－2412	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－2413	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－2414	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－2415	O	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－2416	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－2417	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2418	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－2419	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－2420	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－2421	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－2422	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－2423	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－2424	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－2425	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－2426	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－2427	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－2428	O	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－2429	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－2430	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2431	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－2432	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－2433	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－2434	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－2435	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－2436	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－2437	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－2438	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－2439	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－2440	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－2441	O	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－2442	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－2443	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2444	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－2445	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－2446	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－2447	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－2448	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－2449	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－2450	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－2451	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－2452	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－2453	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－2454	O	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－2455	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－2456	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－2457	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2458	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2459	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2460	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H

【表３５８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2461	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2462	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2463	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2464	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2465	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2466	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2467	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2468	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2469	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2470	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2471	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2472	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2473	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2474	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2475	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2476	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2477	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2478	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2479	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2480	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2481	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2482	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2483	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2484	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2485	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2486	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2487	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2488	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2489	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－2490	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－2491	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－2492	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－2493	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－2494	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－2495	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－2496	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－2497	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－2498	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－2499	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－2500	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－2501	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－2502	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－2503	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－2504	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－2505	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－2506	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－2507	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－2508	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－2509	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－2510	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－2511	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－2512	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－2513	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－2514	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－2515	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－2516	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－2517	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－2518	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－2519	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－2520	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H

【表３５９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2521	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－2522	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－2523	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－2524	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－2525	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－2526	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－2527	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－2528	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－2529	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－2530	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－2531	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－2532	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－2533	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－2534	O	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2535	O	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－2536	O	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－2537	O	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－2538	O	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－2539	O	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－2540	O	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－2541	O	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－2542	O	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－2543	O	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－2544	O	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－2545	O	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－2546	O	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－2547	O	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－2548	O	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－2549	O	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－2550	O	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－2551	O	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－2552	O	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－2553	O	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－2554	O	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－2555	O	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－2556	O	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－2557	O	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－2558	O	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－2559	O	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－2560	O	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－2561	O	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－2562	O	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－2563	O	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－2564	O	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－2565	O	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－2566	O	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－2567	O	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－2568	O	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－2569	O	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－2570	O	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－2571	O	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－2572	O	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－2573	O	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－2574	O	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－2575	O	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－2576	O	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－2577	O	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－2578	O	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－2579	O	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－2580	O	3	H	H	H	F	F	H	H	H	H	H	H	H	H

【表３６０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2581	O	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－2582	O	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－2583	O	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－2584	O	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－2585	O	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－2586	O	3	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－2587	O	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－2588	O	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－2589	O	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－2590	O	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－2591	O	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－2592	O	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－2593	O	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－2594	O	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－2595	O	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－2596	O	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－2597	O	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－2598	O	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－2599	O	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－2600	O	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－2601	O	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－2602	O	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－2603	O	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－2604	O	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－2605	O	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－2606	O	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－2607	O	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－2608	O	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－2609	O	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－2610	O	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－2611	O	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－2612	O	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－2613	O	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－2614	O	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－2615	O	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－2616	O	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－2617	O	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－2618	O	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－2619	O	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－2620	O	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－2621	O	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－2622	O	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－2623	O	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－2624	O	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－2625	O	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－2626	O	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－2627	O	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－2628	O	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－2629	O	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－2630	O	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－2631	O	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－2632	O	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－2633	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－2634	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－2635	O	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－2636	O	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－2637	O	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－2638	O	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－2639	O	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－2640	O	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H

【表３６１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2641	O	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－2642	O	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－2643	O	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－2644	O	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－2645	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－2646	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－2647	O	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－2648	O	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－2649	O	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－2650	O	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－2651	O	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－2652	O	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－2653	O	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－2654	O	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－2655	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－2656	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－2657	O	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－2658	O	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－2659	O	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－2660	O	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－2661	O	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－2662	O	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－2663	O	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－2664	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－2665	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－2666	O	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－2667	O	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－2668	O	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－2669	O	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－2670	O	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－2671	O	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－2672	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－2673	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－2674	O	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－2675	O	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－2676	O	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－2677	O	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－2678	O	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－2679	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－2680	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－2681	O	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－2682	O	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－2683	O	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－2684	O	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－2685	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－2686	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－2687	O	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－2688	O	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－2689	O	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－2690	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－2691	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－2692	O	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－2693	O	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－2694	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－2695	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－2696	O	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－2697	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－2698	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－2699	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－2700	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F

【表３６２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2701	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－2702	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2703	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2704	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2705	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2706	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2707	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2708	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2709	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2710	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2711	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2712	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2713	O	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2714	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2715	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－2716	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－2717	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2718	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2719	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2720	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2721	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2722	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2723	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2724	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2725	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2726	O	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2727	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2728	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2729	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2730	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2731	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2732	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2733	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2734	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2735	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2736	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2737	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2738	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2739	O	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2740	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2741	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－2742	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－2743	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－2744	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－2745	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－2746	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－2747	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－2748	O	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－2749	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－2750	O	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－2751	O	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－2752	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－2753	O	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－2754	O	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－2755	O	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－2756	O	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－2757	O	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－2758	O	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－2759	O	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－2760	O	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H

【表３６３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2761	O	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－2762	O	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－2763	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－2764	O	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－2765	O	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－2766	O	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－2767	O	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－2768	O	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－2769	O	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－2770	O	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－2771	O	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－2772	O	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－2773	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－2774	O	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－2775	O	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－2776	O	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－2777	O	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－2778	O	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－2779	O	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－2780	O	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－2781	O	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－2782	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－2783	O	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－2784	O	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－2785	O	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－2786	O	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－2787	O	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－2788	O	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－2789	O	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－2790	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－2791	O	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－2792	O	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－2793	O	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－2794	O	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－2795	O	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－2796	O	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－2797	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－2798	O	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－2799	O	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－2800	O	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－2801	O	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－2802	O	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－2803	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－2804	O	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－2805	O	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－2806	O	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－2807	O	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－2808	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－2809	O	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－2810	O	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－2811	O	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－2812	O	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－2813	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－2814	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－2815	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－2816	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－2817	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2818	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－2819	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－2820	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H

【表３６４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2821	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－2822	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－2823	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－2824	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－2825	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－2826	O	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－2827	O	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－2828	O	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2829	O	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－2830	O	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－2831	O	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－2832	O	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－2833	O	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－2834	O	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－2835	O	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－2836	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－2837	O	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－2838	O	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－2839	O	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－2840	O	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－2841	O	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－2842	O	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－2843	O	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－2844	O	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－2845	O	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－2846	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－2847	O	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－2848	O	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－2849	O	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－2850	O	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－2851	O	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－2852	O	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－2853	O	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－2854	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－2855	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－2856	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－2857	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－2858	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－2859	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－2860	O	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－2861	O	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－2862	O	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－2863	O	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－2864	O	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－2865	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2866	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－2867	O	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－2868	O	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－2869	O	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－2870	O	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－2871	O	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－2872	O	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－2873	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－2874	O	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－2875	O	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－2876	O	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－2877	O	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－2878	O	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－2879	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－2880	O	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H

【表３６５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2881	O	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－2882	O	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－2883	O	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－2884	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－2885	O	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－2886	O	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－2887	O	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－2888	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－2889	O	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－2890	O	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－2891	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－2892	O	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－2893	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－2894	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－2895	O	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－2896	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－2897	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－2898	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－2899	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－2900	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－2901	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－2902	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－2903	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－2904	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－2905	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－2906	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－2907	O	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－2908	O	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－2909	O	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－2910	O	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－2911	O	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－2912	O	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－2913	O	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－2914	O	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－2915	O	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－2916	O	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－2917	O	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－2918	O	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－2919	O	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－2920	O	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－2921	O	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－2922	O	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－2923	O	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－2924	O	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－2925	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－2926	O	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－2927	O	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－2928	O	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－2929	O	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－2930	O	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－2931	O	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－2932	O	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－2933	O	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－2934	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－2935	O	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－2936	O	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－2937	O	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－2938	O	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－2939	O	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－2940	O	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H

【表３６６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－2941	O	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－2942	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－2943	O	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－2944	O	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－2945	O	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－2946	O	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－2947	O	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－2948	O	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－2949	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－2950	O	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－2951	O	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－2952	O	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－2953	O	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－2954	O	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－2955	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－2956	O	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－2957	O	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－2958	O	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－2959	O	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－2960	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－2961	O	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－2962	O	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－2963	O	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－2964	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－2965	O	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－2966	O	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－2967	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－2968	O	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－2969	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－2970	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－2971	S	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2972	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2973	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－2974	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－2975	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－2976	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－2977	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－2978	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－2979	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－2980	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－2981	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－2982	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－2983	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－2984	S	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－2985	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2986	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－2987	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－2988	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－2989	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－2990	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－2991	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－2992	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－2993	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－2994	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－2995	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－2996	S	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－2997	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－2998	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－2999	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－3000	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H

【表３６７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3001	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－3002	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－3003	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－3004	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－3005	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－3006	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－3007	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－3008	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－3009	S	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－3010	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－3011	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3012	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－3013	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－3014	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－3015	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－3016	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－3017	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－3018	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－3019	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－3020	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－3021	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－3022	S	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－3023	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－3024	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3025	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－3026	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－3027	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－3028	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－3029	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－3030	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－3031	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－3032	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－3033	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－3034	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－3035	S	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－3036	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－3037	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3038	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－3039	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－3040	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－3041	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－3042	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－3043	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－3044	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－3045	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－3046	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－3047	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－3048	S	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－3049	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－3050	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－3051	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3052	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3053	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3054	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3055	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3056	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3057	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3058	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3059	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3060	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H

【表３６８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3061	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3062	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3063	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3064	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3065	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3066	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3067	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3068	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3069	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3070	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3071	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3072	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3073	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3074	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3075	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3076	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3077	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3078	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3079	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3080	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3081	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3082	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3083	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－3084	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－3085	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－3086	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－3087	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－3088	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－3089	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－3090	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－3091	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－3092	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－3093	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－3094	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－3095	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－3096	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－3097	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－3098	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－3099	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－3100	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－3101	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－3102	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－3103	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－3104	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－3105	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－3106	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－3107	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－3108	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－3109	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－3110	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－3111	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－3112	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－3113	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－3114	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－3115	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－3116	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－3117	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－3118	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－3119	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－3120	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H

【表３６９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3121	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－3122	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－3123	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－3124	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－3125	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－3126	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－3127	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－3128	S	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3129	S	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3130	S	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3131	S	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3132	S	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3133	S	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3134	S	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3135	S	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3136	S	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3137	S	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3138	S	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3139	S	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3140	S	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3141	S	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3142	S	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3143	S	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3144	S	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3145	S	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3146	S	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3147	S	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3148	S	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3149	S	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3150	S	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3151	S	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3152	S	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3153	S	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－3154	S	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－3155	S	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－3156	S	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－3157	S	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－3158	S	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－3159	S	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－3160	S	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－3161	S	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－3162	S	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－3163	S	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－3164	S	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－3165	S	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－3166	S	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－3167	S	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－3168	S	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－3169	S	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－3170	S	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－3171	S	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－3172	S	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－3173	S	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－3174	S	3	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－3175	S	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－3176	S	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－3177	S	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－3178	S	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－3179	S	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－3180	S	3	H	H	H	F	H	H	H	H	H	H	F	H	H

【表３７０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3181	S	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－3182	S	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－3183	S	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－3184	S	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－3185	S	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－3186	S	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－3187	S	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－3188	S	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－3189	S	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－3190	S	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－3191	S	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－3192	S	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－3193	S	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－3194	S	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－3195	S	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－3196	S	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－3197	S	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－3198	S	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－3199	S	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－3200	S	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－3201	S	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－3202	S	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－3203	S	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－3204	S	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－3205	S	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－3206	S	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－3207	S	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－3208	S	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－3209	S	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－3210	S	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－3211	S	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－3212	S	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－3213	S	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－3214	S	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－3215	S	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－3216	S	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－3217	S	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3218	S	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3219	S	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3220	S	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3221	S	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3222	S	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3223	S	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3224	S	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3225	S	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3226	S	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3227	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3228	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3229	S	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－3230	S	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－3231	S	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－3232	S	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－3233	S	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－3234	S	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－3235	S	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－3236	S	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－3237	S	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－3238	S	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－3239	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－3240	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F

【表３７１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3241	S	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－3242	S	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－3243	S	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－3244	S	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－3245	S	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－3246	S	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－3247	S	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－3248	S	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－3249	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－3250	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－3251	S	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－3252	S	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－3253	S	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－3254	S	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－3255	S	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－3256	S	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－3257	S	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－3258	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－3259	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－3260	S	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－3261	S	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－3262	S	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－3263	S	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－3264	S	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－3265	S	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－3266	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－3267	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－3268	S	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－3269	S	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－3270	S	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－3271	S	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－3272	S	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－3273	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－3274	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－3275	S	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－3276	S	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－3277	S	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－3278	S	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－3279	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－3280	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－3281	S	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－3282	S	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－3283	S	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－3284	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－3285	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－3286	S	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－3287	S	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－3288	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－3289	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－3290	S	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－3291	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－3292	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－3293	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－3294	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－3295	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－3296	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3297	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3298	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3299	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3300	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H

【表３７２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3301	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3302	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3303	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3304	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3305	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3306	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3307	S	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3308	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3309	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－3310	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－3311	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3312	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3313	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3314	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3315	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3316	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3317	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3318	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3319	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3320	S	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3321	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3322	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－3323	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－3324	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3325	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3326	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3327	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3328	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3329	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3330	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3331	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3332	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3333	S	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3334	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3335	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3336	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－3337	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－3338	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－3339	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－3340	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－3341	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－3342	S	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－3343	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－3344	S	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－3345	S	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－3346	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－3347	S	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－3348	S	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－3349	S	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－3350	S	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－3351	S	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－3352	S	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－3353	S	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－3354	S	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－3355	S	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－3356	S	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－3357	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－3358	S	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－3359	S	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－3360	S	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H

【表３７３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3361	S	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－3362	S	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－3363	S	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－3364	S	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－3365	S	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－3366	S	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－3367	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－3368	S	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－3369	S	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－3370	S	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－3371	S	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－3372	S	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－3373	S	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－3374	S	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－3375	S	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－3376	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－3377	S	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－3378	S	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－3379	S	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－3380	S	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－3381	S	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－3382	S	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－3383	S	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－3384	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－3385	S	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－3386	S	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－3387	S	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－3388	S	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－3389	S	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－3390	S	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－3391	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－3392	S	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－3393	S	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－3394	S	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－3395	S	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－3396	S	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－3397	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－3398	S	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－3399	S	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－3400	S	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－3401	S	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－3402	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－3403	S	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－3404	S	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－3405	S	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－3406	S	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－3407	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－3408	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－3409	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－3410	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－3411	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－3412	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－3413	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－3414	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－3415	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－3416	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－3417	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－3418	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－3419	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－3420	S	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H

【表３７４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3421	S	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－3422	S	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－3423	S	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－3424	S	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－3425	S	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－3426	S	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－3427	S	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－3428	S	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－3429	S	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－3430	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－3431	S	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－3432	S	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－3433	S	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－3434	S	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－3435	S	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－3436	S	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－3437	S	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－3438	S	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－3439	S	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－3440	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－3441	S	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－3442	S	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－3443	S	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－3444	S	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－3445	S	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－3446	S	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－3447	S	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－3448	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－3449	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－3450	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－3451	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－3452	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－3453	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－3454	S	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－3455	S	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－3456	S	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－3457	S	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－3458	S	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－3459	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－3460	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－3461	S	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－3462	S	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－3463	S	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－3464	S	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－3465	S	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－3466	S	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－3467	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－3468	S	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－3469	S	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－3470	S	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－3471	S	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－3472	S	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－3473	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－3474	S	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－3475	S	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－3476	S	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－3477	S	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－3478	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－3479	S	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－3480	S	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H

【表３７５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3481	S	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－3482	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－3483	S	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－3484	S	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－3485	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－3486	S	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－3487	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－3488	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－3489	S	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－3490	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－3491	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－3492	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－3493	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－3494	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－3495	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－3496	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－3497	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－3498	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－3499	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－3500	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－3501	S	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－3502	S	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－3503	S	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－3504	S	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－3505	S	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－3506	S	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－3507	S	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－3508	S	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－3509	S	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－3510	S	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－3511	S	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－3512	S	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－3513	S	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－3514	S	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－3515	S	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－3516	S	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－3517	S	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－3518	S	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－3519	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－3520	S	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－3521	S	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－3522	S	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－3523	S	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－3524	S	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－3525	S	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－3526	S	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－3527	S	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－3528	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－3529	S	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－3530	S	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－3531	S	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－3532	S	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－3533	S	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－3534	S	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－3535	S	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－3536	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－3537	S	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－3538	S	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－3539	S	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－3540	S	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H

【表３７６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3541	S	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－3542	S	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－3543	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－3544	S	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－3545	S	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－3546	S	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－3547	S	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－3548	S	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－3549	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－3550	S	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－3551	S	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－3552	S	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－3553	S	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－3554	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－3555	S	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－3556	S	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－3557	S	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－3558	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－3559	S	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－3560	S	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－3561	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－3562	S	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－3563	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－3564	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－3565	O	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3566	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3567	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－3568	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3569	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3570	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3571	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3572	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3573	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3574	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3575	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3576	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3577	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3578	O	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3579	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3580	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－3581	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－3582	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－3583	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－3584	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－3585	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－3586	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－3587	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－3588	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－3589	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－3590	O	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－3591	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－3592	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3593	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－3594	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－3595	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－3596	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－3597	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－3598	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－3599	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－3600	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H

【表３７７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3601	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－3602	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－3603	O	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－3604	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－3605	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3606	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VI)－3607	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－3608	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－3609	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－3610	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－3611	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－3612	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－3613	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－3614	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－3615	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－3616	O	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－3617	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－3618	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3619	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－3620	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－3621	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－3622	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－3623	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－3624	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－3625	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－3626	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－3627	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－3628	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－3629	O	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－3630	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－3631	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3632	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－3633	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－3634	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－3635	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－3636	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－3637	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－3638	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－3639	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－3640	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－3641	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－3642	O	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－3643	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－3644	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－3645	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3646	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3647	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3648	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3649	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3650	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3651	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3652	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3653	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3654	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3655	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3656	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3657	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3658	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3659	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3660	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H

【表３７８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3661	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3662	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3663	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3664	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3665	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3666	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3667	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3668	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3669	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3670	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3671	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3672	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3673	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3674	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3675	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3676	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3677	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－3678	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－3679	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－3680	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－3681	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－3682	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－3683	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－3684	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－3685	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－3686	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－3687	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－3688	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－3689	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－3690	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－3691	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－3692	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－3693	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－3694	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－3695	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－3696	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－3697	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－3698	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－3699	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－3700	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－3701	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－3702	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－3703	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－3704	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－3705	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－3706	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－3707	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－3708	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－3709	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－3710	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－3711	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－3712	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－3713	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－3714	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－3715	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－3716	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－3717	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－3718	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－3719	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－3720	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3

【表３７９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3721	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－3722	O	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－3723	O	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3724	O	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3725	O	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3726	O	4	H	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3727	O	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3728	O	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3729	O	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3730	O	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3731	O	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3732	O	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3733	O	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3734	O	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3735	O	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3736	O	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3737	O	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3738	O	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3739	O	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3740	O	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3741	O	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3742	O	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3743	O	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3744	O	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3745	O	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3746	O	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3747	O	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－3748	O	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－3749	O	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－3750	O	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－3751	O	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－3752	O	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－3753	O	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－3754	O	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－3755	O	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－3756	O	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－3757	O	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－3758	O	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－3759	O	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－3760	O	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－3761	O	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－3762	O	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－3763	O	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－3764	O	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－3765	O	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－3766	O	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－3767	O	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－3768	O	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－3769	O	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－3770	O	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－3771	O	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－3772	O	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－3773	O	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－3774	O	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－3775	O	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－3776	O	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－3777	O	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－3778	O	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－3779	O	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－3780	O	4	H	H	H	H	F	H	H	H	F	H	H	H	H

【表３８０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3781	O	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－3782	O	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－3783	O	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－3784	O	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－3785	O	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－3786	O	4	H	H	H	H	H	F	H	F	H	H	H	H	H
(VI)－3787	O	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－3788	O	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－3789	O	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－3790	O	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－3791	O	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－3792	O	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－3793	O	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－3794	O	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－3795	O	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－3796	O	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－3797	O	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－3798	O	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－3799	O	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－3800	O	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－3801	O	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－3802	O	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－3803	O	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－3804	O	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－3805	O	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－3806	O	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－3807	O	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－3808	O	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－3809	O	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－3810	O	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－3811	O	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－3812	O	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－3813	O	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－3814	O	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－3815	O	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－3816	O	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－3817	O	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－3818	O	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－3819	O	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－3820	O	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－3821	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－3822	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－3823	O	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－3824	O	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－3825	O	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－3826	O	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－3827	O	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－3828	O	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－3829	O	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－3830	O	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－3831	O	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－3832	O	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－3833	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－3834	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－3835	O	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－3836	O	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－3837	O	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－3838	O	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－3839	O	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－3840	O	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H

【表３８１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3841	O	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－3842	O	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－3843	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－3844	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－3845	O	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－3846	O	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VI)－3847	O	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－3848	O	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－3849	O	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－3850	O	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－3851	O	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－3852	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－3853	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－3854	O	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－3855	O	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－3856	O	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－3857	O	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－3858	O	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－3859	O	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－3860	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－3861	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－3862	O	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－3863	O	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－3864	O	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－3865	O	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－3866	O	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－3867	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－3868	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－3869	O	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－3870	O	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－3871	O	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－3872	O	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－3873	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－3874	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－3875	O	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－3876	O	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－3877	O	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－3878	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－3879	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－3880	O	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－3881	O	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－3882	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－3883	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－3884	O	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－3885	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－3886	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－3887	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－3888	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－3889	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－3890	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3891	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3892	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3893	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3894	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3895	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3896	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3897	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3898	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3899	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3900	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H

【表３８２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3901	O	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3902	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3903	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－3904	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－3905	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3906	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3907	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3908	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3909	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3910	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3911	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3912	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3913	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3914	O	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3915	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3916	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－3917	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－3918	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－3919	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－3920	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－3921	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－3922	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－3923	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－3924	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－3925	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－3926	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－3927	O	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－3928	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－3929	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－3930	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－3931	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－3932	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－3933	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－3934	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－3935	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－3936	O	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－3937	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－3938	O	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－3939	O	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－3940	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－3941	O	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－3942	O	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－3943	O	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－3944	O	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－3945	O	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－3946	O	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－3947	O	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－3948	O	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－3949	O	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－3950	O	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－3951	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－3952	O	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－3953	O	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－3954	O	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－3955	O	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－3956	O	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－3957	O	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－3958	O	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－3959	O	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－3960	O	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H

【表３８３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－3961	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－3962	O	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－3963	O	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－3964	O	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－3965	O	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－3966	O	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VI)－3967	O	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－3968	O	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－3969	O	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－3970	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－3971	O	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－3972	O	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－3973	O	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－3974	O	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－3975	O	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－3976	O	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－3977	O	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－3978	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－3979	O	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－3980	O	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－3981	O	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－3982	O	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－3983	O	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－3984	O	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－3985	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－3986	O	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－3987	O	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－3988	O	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－3989	O	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－3990	O	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－3991	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－3992	O	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－3993	O	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－3994	O	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－3995	O	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－3996	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－3997	O	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－3998	O	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－3999	O	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－4000	O	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－4001	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－4002	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－4003	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－4004	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－4005	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4006	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－4007	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－4008	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－4009	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－4010	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－4011	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－4012	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－4013	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－4014	O	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－4015	O	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－4016	O	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4017	O	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－4018	O	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－4019	O	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－4020	O	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H

【表３８４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4021	O	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－4022	O	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－4023	O	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－4024	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－4025	O	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－4026	O	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VI)－4027	O	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－4028	O	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－4029	O	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－4030	O	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－4031	O	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－4032	O	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－4033	O	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－4034	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－4035	O	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－4036	O	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－4037	O	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－4038	O	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－4039	O	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－4040	O	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－4041	O	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－4042	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－4043	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－4044	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－4045	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－4046	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－4047	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－4048	O	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－4049	O	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－4050	O	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－4051	O	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－4052	O	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－4053	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4054	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4055	O	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－4056	O	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－4057	O	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－4058	O	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－4059	O	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－4060	O	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－4061	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－4062	O	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－4063	O	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－4064	O	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－4065	O	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－4066	O	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－4067	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－4068	O	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－4069	O	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－4070	O	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－4071	O	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－4072	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－4073	O	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－4074	O	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－4075	O	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－4076	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－4077	O	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－4078	O	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－4079	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－4080	O	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H

【表３８５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4081	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－4082	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－4083	O	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－4084	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－4085	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－4086	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－4087	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－4088	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－4089	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－4090	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－4091	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－4092	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－4093	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－4094	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－4095	O	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－4096	O	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－4097	O	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－4098	O	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－4099	O	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－4100	O	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－4101	O	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－4102	O	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－4103	O	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－4104	O	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－4105	O	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－4106	O	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－4107	O	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－4108	O	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－4109	O	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－4110	O	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－4111	O	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－4112	O	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－4113	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－4114	O	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－4115	O	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－4116	O	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－4117	O	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－4118	O	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－4119	O	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－4120	O	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－4121	O	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－4122	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－4123	O	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－4124	O	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－4125	O	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－4126	O	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－4127	O	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－4128	O	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－4129	O	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－4130	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－4131	O	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－4132	O	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－4133	O	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－4134	O	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－4135	O	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－4136	O	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－4137	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－4138	O	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－4139	O	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－4140	O	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H

【表３８６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4141	O	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－4142	O	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－4143	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－4144	O	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－4145	O	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－4146	O	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VI)－4147	O	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－4148	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－4149	O	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－4150	O	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－4151	O	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－4152	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－4153	O	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－4154	O	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－4155	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－4156	O	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－4157	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－4158	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VI)－4159	S	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4160	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4161	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－4162	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4163	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4164	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4165	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4166	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4167	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4168	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4169	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4170	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4171	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4172	S	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4173	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4174	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VI)－4175	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VI)－4176	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VI)－4177	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VI)－4178	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VI)－4179	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VI)－4180	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VI)－4181	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VI)－4182	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VI)－4183	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VI)－4184	S	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VI)－4185	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VI)－4186	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4187	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VI)－4188	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VI)－4189	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VI)－4190	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VI)－4191	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VI)－4192	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VI)－4193	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VI)－4194	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VI)－4195	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VI)－4196	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VI)－4197	S	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VI)－4198	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VI)－4199	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4200	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H

【表３８７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4201	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VI)－4202	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VI)－4203	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VI)－4204	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VI)－4205	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VI)－4206	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VI)－4207	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VI)－4208	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VI)－4209	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VI)－4210	S	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VI)－4211	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VI)－4212	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4213	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VI)－4214	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VI)－4215	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VI)－4216	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VI)－4217	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VI)－4218	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VI)－4219	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VI)－4220	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VI)－4221	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VI)－4222	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VI)－4223	S	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VI)－4224	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VI)－4225	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4226	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VI)－4227	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VI)－4228	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VI)－4229	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VI)－4230	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VI)－4231	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VI)－4232	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VI)－4233	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VI)－4234	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VI)－4235	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VI)－4236	S	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VI)－4237	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VI)－4238	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－4239	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4240	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4241	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4242	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4243	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4244	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4245	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4246	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4247	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4248	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4249	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4250	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4251	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4252	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4253	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4254	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4255	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4256	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4257	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4258	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4259	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4260	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3

【表３８８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4261	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4262	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4263	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4264	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4265	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4266	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4267	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4268	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4269	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4270	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4271	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VI)－4272	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VI)－4273	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VI)－4274	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VI)－4275	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VI)－4276	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VI)－4277	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VI)－4278	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VI)－4279	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VI)－4280	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VI)－4281	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VI)－4282	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VI)－4283	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VI)－4284	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VI)－4285	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VI)－4286	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VI)－4287	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VI)－4288	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VI)－4289	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VI)－4290	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VI)－4291	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VI)－4292	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VI)－4293	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VI)－4294	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VI)－4295	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VI)－4296	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VI)－4297	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VI)－4298	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VI)－4299	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VI)－4300	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VI)－4301	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VI)－4302	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VI)－4303	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VI)－4304	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VI)－4305	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VI)－4306	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VI)－4307	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VI)－4308	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VI)－4309	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VI)－4310	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VI)－4311	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VI)－4312	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VI)－4313	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VI)－4314	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VI)－4315	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VI)－4316	S	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VI)－4317	S	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－4318	S	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－4319	S	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－4320	S	4	H	H	H	H	F	H	H	H	H	H	H	H	H

【表３８９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4321	S	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－4322	S	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－4323	S	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－4324	S	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－4325	S	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－4326	S	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－4327	S	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－4328	S	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－4329	S	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－4330	S	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－4331	S	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－4332	S	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－4333	S	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－4334	S	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－4335	S	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－4336	S	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－4337	S	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－4338	S	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－4339	S	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－4340	S	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－4341	S	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VI)－4342	S	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VI)－4343	S	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VI)－4344	S	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VI)－4345	S	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VI)－4346	S	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VI)－4347	S	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VI)－4348	S	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VI)－4349	S	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VI)－4350	S	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VI)－4351	S	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VI)－4352	S	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VI)－4353	S	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VI)－4354	S	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VI)－4355	S	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VI)－4356	S	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VI)－4357	S	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VI)－4358	S	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VI)－4359	S	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VI)－4360	S	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VI)－4361	S	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VI)－4362	S	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VI)－4363	S	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VI)－4364	S	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VI)－4365	S	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VI)－4366	S	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VI)－4367	S	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VI)－4368	S	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VI)－4369	S	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VI)－4370	S	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VI)－4371	S	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VI)－4372	S	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VI)－4373	S	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VI)－4374	S	4	H	H	H	H	F	H	H	H	F	H	H	H	H
(VI)－4375	S	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VI)－4376	S	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VI)－4377	S	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VI)－4378	S	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VI)－4379	S	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VI)－4380	S	4	H	H	H	H	H	F	H	F	H	H	H	H	H

【表３９０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4381	S	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VI)－4382	S	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VI)－4383	S	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VI)－4384	S	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VI)－4385	S	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VI)－4386	S	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VI)－4387	S	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VI)－4388	S	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VI)－4389	S	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VI)－4390	S	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VI)－4391	S	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VI)－4392	S	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VI)－4393	S	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VI)－4394	S	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VI)－4395	S	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VI)－4396	S	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VI)－4397	S	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VI)－4398	S	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VI)－4399	S	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VI)－4400	S	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VI)－4401	S	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VI)－4402	S	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VI)－4403	S	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VI)－4404	S	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VI)－4405	S	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VI)－4406	S	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VI)－4407	S	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VI)－4408	S	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VI)－4409	S	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VI)－4410	S	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VI)－4411	S	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VI)－4412	S	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VI)－4413	S	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VI)－4414	S	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VI)－4415	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VI)－4416	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VI)－4417	S	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VI)－4418	S	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VI)－4419	S	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VI)－4420	S	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VI)－4421	S	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VI)－4422	S	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VI)－4423	S	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VI)－4424	S	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VI)－4425	S	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VI)－4426	S	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VI)－4427	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VI)－4428	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VI)－4429	S	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VI)－4430	S	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VI)－4431	S	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VI)－4432	S	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VI)－4433	S	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VI)－4434	S	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VI)－4435	S	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VI)－4436	S	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VI)－4437	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VI)－4438	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VI)－4439	S	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VI)－4440	S	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H

【表３９１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4441	S	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VI)－4442	S	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VI)－4443	S	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VI)－4444	S	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VI)－4445	S	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VI)－4446	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VI)－4447	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VI)－4448	S	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VI)－4449	S	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VI)－4450	S	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VI)－4451	S	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VI)－4452	S	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VI)－4453	S	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VI)－4454	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VI)－4455	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VI)－4456	S	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VI)－4457	S	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VI)－4458	S	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VI)－4459	S	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VI)－4460	S	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VI)－4461	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VI)－4462	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VI)－4463	S	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VI)－4464	S	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VI)－4465	S	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VI)－4466	S	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VI)－4467	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VI)－4468	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VI)－4469	S	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VI)－4470	S	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VI)－4471	S	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VI)－4472	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VI)－4473	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VI)－4474	S	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VI)－4475	S	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VI)－4476	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VI)－4477	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VI)－4478	S	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VI)－4479	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VI)－4480	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VI)－4481	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VI)－4482	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VI)－4483	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VI)－4484	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－4485	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－4486	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4487	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4488	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4489	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4490	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4491	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4492	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4493	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4494	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4495	S	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4496	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4497	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－4498	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－4499	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4500	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H

【表３９２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4501	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4502	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4503	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4504	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4505	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4506	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4507	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4508	S	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4509	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4510	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－4511	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－4512	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VI)－4513	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VI)－4514	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VI)－4515	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VI)－4516	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VI)－4517	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VI)－4518	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VI)－4519	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VI)－4520	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VI)－4521	S	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VI)－4522	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VI)－4523	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VI)－4524	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－4525	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－4526	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－4527	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－4528	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－4529	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－4530	S	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－4531	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－4532	S	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－4533	S	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－4534	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－4535	S	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VI)－4536	S	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VI)－4537	S	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VI)－4538	S	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VI)－4539	S	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VI)－4540	S	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VI)－4541	S	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VI)－4542	S	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VI)－4543	S	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VI)－4544	S	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VI)－4545	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VI)－4546	S	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VI)－4547	S	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VI)－4548	S	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VI)－4549	S	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VI)－4550	S	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VI)－4551	S	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VI)－4552	S	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VI)－4553	S	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VI)－4554	S	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VI)－4555	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VI)－4556	S	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VI)－4557	S	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VI)－4558	S	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VI)－4559	S	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VI)－4560	S	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H

【表３９３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4561	S	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VI)－4562	S	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VI)－4563	S	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VI)－4564	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VI)－4565	S	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VI)－4566	S	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VI)－4567	S	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VI)－4568	S	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VI)－4569	S	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VI)－4570	S	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VI)－4571	S	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VI)－4572	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VI)－4573	S	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VI)－4574	S	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VI)－4575	S	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VI)－4576	S	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VI)－4577	S	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VI)－4578	S	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VI)－4579	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VI)－4580	S	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VI)－4581	S	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VI)－4582	S	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VI)－4583	S	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VI)－4584	S	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VI)－4585	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VI)－4586	S	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VI)－4587	S	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VI)－4588	S	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VI)－4589	S	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VI)－4590	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VI)－4591	S	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VI)－4592	S	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VI)－4593	S	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VI)－4594	S	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VI)－4595	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VI)－4596	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VI)－4597	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－4598	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－4599	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4600	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－4601	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－4602	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－4603	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－4604	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－4605	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－4606	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－4607	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－4608	S	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VI)－4609	S	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VI)－4610	S	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4611	S	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VI)－4612	S	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VI)－4613	S	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VI)－4614	S	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VI)－4615	S	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VI)－4616	S	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VI)－4617	S	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VI)－4618	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VI)－4619	S	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VI)－4620	S	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H

【表３９４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4621	S	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VI)－4622	S	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VI)－4623	S	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VI)－4624	S	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VI)－4625	S	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VI)－4626	S	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VI)－4627	S	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VI)－4628	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VI)－4629	S	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VI)－4630	S	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VI)－4631	S	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VI)－4632	S	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VI)－4633	S	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VI)－4634	S	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VI)－4635	S	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VI)－4636	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－4637	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－4638	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－4639	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VI)－4640	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VI)－4641	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VI)－4642	S	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VI)－4643	S	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VI)－4644	S	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VI)－4645	S	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VI)－4646	S	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VI)－4647	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4648	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VI)－4649	S	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VI)－4650	S	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VI)－4651	S	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VI)－4652	S	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VI)－4653	S	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VI)－4654	S	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VI)－4655	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VI)－4656	S	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VI)－4657	S	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VI)－4658	S	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VI)－4659	S	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VI)－4660	S	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VI)－4661	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VI)－4662	S	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VI)－4663	S	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VI)－4664	S	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VI)－4665	S	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VI)－4666	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VI)－4667	S	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VI)－4668	S	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VI)－4669	S	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VI)－4670	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VI)－4671	S	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VI)－4672	S	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VI)－4673	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VI)－4674	S	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VI)－4675	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VI)－4676	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VI)－4677	S	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VI)－4678	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－4679	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－4680	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H

【表３９５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4681	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－4682	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－4683	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－4684	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－4685	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－4686	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－4687	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VI)－4688	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VI)－4689	S	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VI)－4690	S	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VI)－4691	S	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VI)－4692	S	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VI)－4693	S	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VI)－4694	S	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VI)－4695	S	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VI)－4696	S	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VI)－4697	S	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VI)－4698	S	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VI)－4699	S	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VI)－4700	S	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VI)－4701	S	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VI)－4702	S	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VI)－4703	S	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VI)－4704	S	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VI)－4705	S	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VI)－4706	S	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VI)－4707	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VI)－4708	S	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VI)－4709	S	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VI)－4710	S	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VI)－4711	S	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VI)－4712	S	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VI)－4713	S	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VI)－4714	S	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VI)－4715	S	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VI)－4716	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VI)－4717	S	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VI)－4718	S	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VI)－4719	S	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VI)－4720	S	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VI)－4721	S	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VI)－4722	S	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VI)－4723	S	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VI)－4724	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VI)－4725	S	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VI)－4726	S	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VI)－4727	S	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VI)－4728	S	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VI)－4729	S	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VI)－4730	S	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VI)－4731	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VI)－4732	S	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VI)－4733	S	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VI)－4734	S	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VI)－4735	S	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VI)－4736	S	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VI)－4737	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VI)－4738	S	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VI)－4739	S	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VI)－4740	S	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H

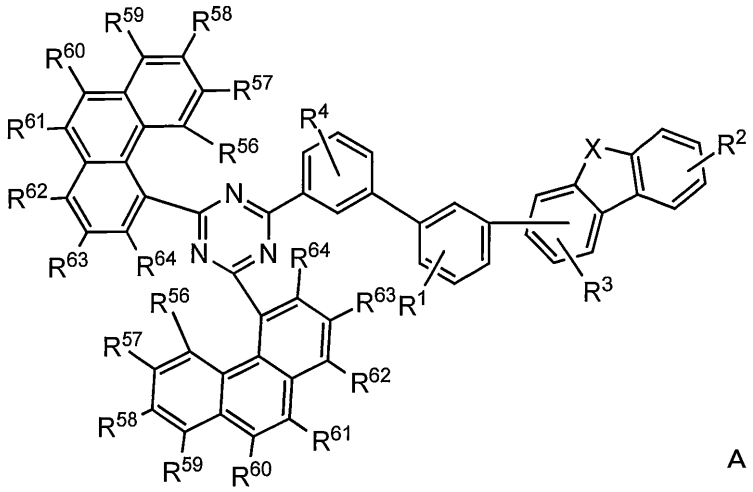
【表３９６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{47}	R^{48}	R^{49}	R^{50}	R^{51}	R^{52}	R^{53}	R^{54}	R^{55}
(VI)－4741	S	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VI)－4742	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VI)－4743	S	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VI)－4744	S	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VI)－4745	S	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VI)－4746	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VI)－4747	S	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VI)－4748	S	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VI)－4749	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VI)－4750	S	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VI)－4751	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VI)－4752	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F

【００４２】

下記式で表される化合物を表３９７～表４７６に示す。式中のＸ、R^1～R^4、R^{56}～R^{64}は、前記一般式〔１〕の場合と同じである。

【化２１】



Ａｒ＝(VII)

【００４３】

【表３９７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1	O	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－13	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－14	O	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－15	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－16	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－17	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－18	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－19	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－20	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－21	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－22	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－23	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－24	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－25	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－26	O	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－27	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－28	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－29	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－30	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－31	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－32	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－33	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－34	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－35	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－36	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－37	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－38	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－39	O	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－40	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－41	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－42	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－43	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－44	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－45	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－46	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－47	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－48	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－49	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－50	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－51	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－52	O	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－53	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－54	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－55	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－56	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－57	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－58	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－59	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－60	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表３９８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－61	O	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－62	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－63	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－64	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－65	O	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－66	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－67	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－68	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－69	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－70	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－71	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－72	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－73	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－74	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－75	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－76	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－77	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－78	O	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－79	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－80	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－81	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－82	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－83	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－84	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－85	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－86	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－87	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－88	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－89	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－90	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－91	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－92	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－93	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－94	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－95	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－96	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－97	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－98	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－99	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－100	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－101	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－102	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－103	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－104	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－105	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－106	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－107	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－108	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－109	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－110	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－111	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－112	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－113	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－114	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－115	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－116	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－117	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－118	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－119	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－120	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H

【表３９９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－121	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－122	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－123	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－124	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－125	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－126	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－127	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－128	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－129	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－130	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－131	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－132	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－133	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－134	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－135	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－136	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－137	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－138	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－139	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－140	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－141	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－142	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－143	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－144	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－145	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－146	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－147	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－148	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－149	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－150	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－151	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－152	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－153	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－154	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－155	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－156	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－157	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－158	O	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－159	O	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－160	O	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－161	O	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－162	O	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－163	O	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－164	O	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－165	O	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－166	O	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－167	O	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－168	O	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－169	O	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－170	O	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－171	O	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－172	O	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－173	O	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－174	O	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－175	O	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－176	O	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－177	O	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－178	O	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－179	O	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－180	O	1	F	H	H	H	H	H	H	H	H	H	F	H	H

【表４００】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－181	O	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－182	O	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－183	O	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－184	O	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－185	O	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－186	O	1	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－187	O	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－188	O	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－189	O	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－190	O	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－191	O	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－192	O	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－193	O	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－194	O	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－195	O	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－196	O	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－197	O	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－198	O	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－199	O	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－200	O	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－201	O	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－202	O	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－203	O	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－204	O	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－205	O	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－206	O	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－207	O	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－208	O	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－209	O	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－210	O	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－211	O	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－212	O	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－213	O	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－214	O	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－215	O	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－216	O	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－217	O	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－218	O	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－219	O	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－220	O	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－221	O	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－222	O	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－223	O	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－224	O	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－225	O	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－226	O	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－227	O	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－228	O	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－229	O	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－230	O	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－231	O	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－232	O	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－233	O	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－234	O	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－235	O	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－236	O	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－237	O	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－238	O	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－239	O	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－240	O	1	H	H	H	H	H	H	H	H	F	H	H	H	F

【表４０１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－241	O	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－242	O	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－243	O	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－244	O	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－245	O	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－246	O	1	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－247	O	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－248	O	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－249	O	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－250	O	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－251	O	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－252	O	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－253	O	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－254	O	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－255	O	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－256	O	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－257	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－258	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－259	O	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－260	O	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－261	O	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－262	O	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－263	O	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－264	O	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－265	O	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－266	O	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－267	O	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－268	O	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－269	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－270	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－271	O	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－272	O	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－273	O	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－274	O	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－275	O	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－276	O	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－277	O	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－278	O	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－279	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－280	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－281	O	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－282	O	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－283	O	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－284	O	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－285	O	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－286	O	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－287	O	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－288	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－289	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－290	O	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－291	O	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－292	O	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－293	O	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－294	O	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－295	O	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－296	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－297	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－298	O	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－299	O	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－300	O	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H

【表４０２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－301	O	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－302	O	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－303	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－304	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－305	O	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－306	O	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－307	O	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－308	O	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－309	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－310	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－311	O	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－312	O	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－313	O	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－314	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－315	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－316	O	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－317	O	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－318	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－319	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－320	O	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－321	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－322	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－323	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－324	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－325	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－326	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－327	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－328	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－329	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－330	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－331	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－332	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－333	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－334	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－335	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－336	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－337	O	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－338	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－339	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－340	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－341	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－342	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－343	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－344	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－345	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－346	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－347	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－348	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－349	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－350	O	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－351	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－352	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－353	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－354	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－355	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－356	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－357	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－358	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－359	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－360	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H

【表４０３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－361	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－362	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－363	O	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－364	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－365	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－366	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－367	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－368	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－369	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－370	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－371	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－372	O	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－373	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－374	O	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－375	O	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－376	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－377	O	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－378	O	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－379	O	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－380	O	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－381	O	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－382	O	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－383	O	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－384	O	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－385	O	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－386	O	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－387	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－388	O	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－389	O	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－390	O	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－391	O	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－392	O	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－393	O	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－394	O	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－395	O	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－396	O	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－397	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－398	O	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－399	O	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－400	O	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－401	O	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－402	O	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－403	O	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－404	O	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－405	O	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－406	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－407	O	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－408	O	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－409	O	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－410	O	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－411	O	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－412	O	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－413	O	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－414	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－415	O	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－416	O	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－417	O	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－418	O	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－419	O	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－420	O	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H

【表４０４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－421	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－422	O	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－423	O	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－424	O	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－425	O	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－426	O	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－427	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－428	O	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－429	O	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－430	O	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－431	O	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－432	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－433	O	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－434	O	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－435	O	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－436	O	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－437	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－438	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－439	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－440	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－441	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－442	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－443	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－444	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－445	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－446	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－447	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－448	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－449	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－450	O	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－451	O	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－452	O	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－453	O	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－454	O	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－455	O	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－456	O	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－457	O	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－458	O	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－459	O	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－460	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－461	O	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－462	O	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－463	O	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－464	O	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－465	O	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－466	O	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－467	O	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－468	O	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－469	O	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－470	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－471	O	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－472	O	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－473	O	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－474	O	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－475	O	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－476	O	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－477	O	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－478	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－479	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－480	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H

【表４０５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－481	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－482	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－483	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－484	O	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－485	O	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－486	O	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－487	O	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－488	O	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－489	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－490	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－491	O	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－492	O	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－493	O	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－494	O	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－495	O	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－496	O	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－497	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－498	O	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－499	O	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－500	O	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－501	O	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－502	O	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－503	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－504	O	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－505	O	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－506	O	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－507	O	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－508	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－509	O	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－510	O	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－511	O	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－512	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－513	O	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－514	O	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－515	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－516	O	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－517	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－518	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－519	O	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－520	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－521	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－522	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－523	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－524	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－525	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－526	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－527	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－528	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－529	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－530	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－531	O	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－532	O	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－533	O	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－534	O	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－535	O	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－536	O	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－537	O	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－538	O	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－539	O	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－540	O	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H

【表４０６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－541	O	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－542	O	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－543	O	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－544	O	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－545	O	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－546	O	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－547	O	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－548	O	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－549	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－550	O	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－551	O	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－552	O	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－553	O	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－554	O	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－555	O	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－556	O	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－557	O	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－558	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－559	O	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－560	O	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－561	O	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－562	O	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－563	O	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－564	O	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－565	O	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－566	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－567	O	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－568	O	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－569	O	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－570	O	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－571	O	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－572	O	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－573	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－574	O	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－575	O	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－576	O	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－577	O	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－578	O	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－579	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－580	O	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－581	O	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－582	O	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－583	O	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－584	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－585	O	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－586	O	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－587	O	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－588	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－589	O	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－590	O	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－591	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－592	O	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－593	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－594	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－595	S	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－596	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－597	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－598	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－599	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－600	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H

【表４０７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－601	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－602	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－603	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－604	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－605	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－606	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－607	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－608	S	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－609	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－610	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－611	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－612	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－613	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－614	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－615	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－616	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－617	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－618	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－619	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－620	S	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－621	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－622	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－623	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－624	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－625	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－626	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－627	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－628	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－629	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－630	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－631	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－632	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－633	S	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－634	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－635	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－636	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－637	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－638	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－639	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－640	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－641	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－642	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－643	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－644	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－645	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－646	S	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－647	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－648	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－649	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－650	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－651	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－652	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－653	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－654	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－655	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－656	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－657	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－658	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－659	S	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－660	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表４０８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－661	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－662	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－663	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－664	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－665	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－666	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－667	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－668	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－669	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－670	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－671	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－672	S	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－673	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－674	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－675	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－676	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－677	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－678	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－679	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－680	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－681	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－682	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－683	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－684	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－685	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－686	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－687	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－688	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－689	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－690	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－691	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－692	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－693	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－694	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－695	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－696	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－697	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－698	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－699	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－700	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－701	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－702	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－703	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－704	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－705	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－706	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－707	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－708	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－709	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－710	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－711	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－712	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－713	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－714	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－715	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－716	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－717	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－718	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－719	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－720	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H

【表４０９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－721	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－722	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－723	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－724	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－725	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－726	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－727	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－728	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－729	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－730	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－731	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－732	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－733	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－734	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－735	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－736	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－737	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－738	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－739	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－740	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－741	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－742	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－743	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－744	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－745	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－746	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－747	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－748	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－749	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－750	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－751	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－752	S	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－753	S	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－754	S	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－755	S	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－756	S	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－757	S	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－758	S	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－759	S	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－760	S	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－761	S	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－762	S	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－763	S	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－764	S	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－765	S	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－766	S	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－767	S	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－768	S	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－769	S	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－770	S	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－771	S	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－772	S	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－773	S	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－774	S	1	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－775	S	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－776	S	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－777	S	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－778	S	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－779	S	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－780	S	1	H	F	H	H	H	F	H	H	H	H	H	H	H

【表４１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－781	S	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－782	S	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－783	S	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－784	S	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－785	S	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－786	S	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－787	S	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－788	S	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－789	S	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－790	S	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－791	S	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－792	S	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－793	S	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－794	S	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－795	S	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－796	S	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－797	S	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－798	S	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－799	S	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－800	S	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－801	S	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－802	S	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－803	S	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－804	S	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－805	S	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－806	S	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－807	S	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－808	S	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－809	S	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－810	S	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－811	S	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－812	S	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－813	S	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－814	S	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－815	S	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－816	S	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－817	S	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－818	S	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－819	S	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－820	S	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－821	S	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－822	S	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－823	S	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－824	S	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－825	S	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－826	S	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－827	S	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－828	S	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－829	S	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－830	S	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－831	S	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－832	S	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－833	S	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－834	S	1	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－835	S	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－836	S	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－837	S	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－838	S	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－839	S	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－840	S	1	H	H	H	H	H	H	H	H	H	H	H	F	F

【表４１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－841	S	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－842	S	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－843	S	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－844	S	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－845	S	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－846	S	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－847	S	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－848	S	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－849	S	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－850	S	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－851	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－852	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－853	S	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－854	S	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－855	S	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－856	S	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－857	S	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－858	S	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－859	S	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－860	S	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－861	S	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－862	S	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－863	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－864	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－865	S	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－866	S	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－867	S	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－868	S	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－869	S	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－870	S	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－871	S	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－872	S	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－873	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－874	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－875	S	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－876	S	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－877	S	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－878	S	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－879	S	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－880	S	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－881	S	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－882	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－883	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－884	S	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－885	S	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－886	S	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－887	S	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－888	S	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－889	S	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－890	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－891	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－892	S	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－893	S	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－894	S	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－895	S	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－896	S	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－897	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－898	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－899	S	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－900	S	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H

【表４１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－901	S	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－902	S	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－903	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－904	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－905	S	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－906	S	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－907	S	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－908	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－909	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－910	S	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－911	S	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－912	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－913	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－914	S	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－915	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－916	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－917	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－918	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－919	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－920	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－921	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－922	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－923	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－924	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－925	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－926	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－927	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－928	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－929	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－930	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－931	S	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－932	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－933	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－934	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－935	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－936	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－937	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－938	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－939	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－940	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－941	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－942	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－943	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－944	S	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－945	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－946	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－947	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－948	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－949	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－950	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－951	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－952	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－953	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－954	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－955	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－956	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－957	S	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－958	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－959	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－960	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H

【表４１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－961	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－962	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－963	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－964	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－965	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－966	S	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－967	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－968	S	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－969	S	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－970	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－971	S	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－972	S	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－973	S	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－974	S	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－975	S	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－976	S	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－977	S	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－978	S	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－979	S	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－980	S	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－981	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－982	S	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－983	S	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－984	S	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－985	S	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－986	S	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－987	S	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－988	S	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－989	S	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－990	S	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－991	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－992	S	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－993	S	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－994	S	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－995	S	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－996	S	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－997	S	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－998	S	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－999	S	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－1000	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－1001	S	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－1002	S	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－1003	S	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－1004	S	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－1005	S	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－1006	S	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－1007	S	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－1008	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－1009	S	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－1010	S	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－1011	S	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－1012	S	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－1013	S	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－1014	S	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－1015	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－1016	S	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－1017	S	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－1018	S	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－1019	S	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－1020	S	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H

【表４１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1021	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－1022	S	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－1023	S	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－1024	S	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－1025	S	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－1026	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－1027	S	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－1028	S	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－1029	S	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－1030	S	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－1031	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－1032	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－1033	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－1034	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－1035	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1036	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－1037	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－1038	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－1039	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－1040	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－1041	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－1042	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－1043	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－1044	S	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－1045	S	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－1046	S	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1047	S	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－1048	S	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－1049	S	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－1050	S	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－1051	S	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－1052	S	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－1053	S	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－1054	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－1055	S	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－1056	S	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－1057	S	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－1058	S	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－1059	S	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－1060	S	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－1061	S	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－1062	S	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－1063	S	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－1064	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－1065	S	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－1066	S	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－1067	S	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－1068	S	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－1069	S	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－1070	S	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－1071	S	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－1072	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－1073	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－1074	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－1075	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－1076	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－1077	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－1078	S	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－1079	S	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－1080	S	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H

【表４１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1081	S	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－1082	S	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－1083	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1084	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1085	S	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－1086	S	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－1087	S	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－1088	S	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－1089	S	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－1090	S	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－1091	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－1092	S	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－1093	S	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－1094	S	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－1095	S	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－1096	S	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－1097	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－1098	S	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－1099	S	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－1100	S	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－1101	S	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－1102	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－1103	S	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－1104	S	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－1105	S	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－1106	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－1107	S	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－1108	S	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－1109	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－1110	S	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－1111	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－1112	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－1113	S	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－1114	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－1115	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－1116	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－1117	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－1118	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－1119	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－1120	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－1121	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－1122	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－1123	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－1124	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－1125	S	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－1126	S	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－1127	S	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－1128	S	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－1129	S	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－1130	S	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－1131	S	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－1132	S	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－1133	S	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－1134	S	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－1135	S	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－1136	S	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－1137	S	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－1138	S	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－1139	S	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－1140	S	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H

【表４１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1141	S	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－1142	S	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－1143	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－1144	S	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－1145	S	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－1146	S	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－1147	S	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－1148	S	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－1149	S	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－1150	S	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－1151	S	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－1152	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－1153	S	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－1154	S	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－1155	S	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－1156	S	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－1157	S	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－1158	S	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－1159	S	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－1160	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－1161	S	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－1162	S	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－1163	S	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－1164	S	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－1165	S	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－1166	S	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－1167	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－1168	S	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－1169	S	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－1170	S	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－1171	S	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－1172	S	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－1173	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－1174	S	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－1175	S	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－1176	S	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－1177	S	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－1178	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－1179	S	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－1180	S	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－1181	S	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－1182	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－1183	S	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－1184	S	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－1185	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－1186	S	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－1187	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－1188	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－1189	O	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1190	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1191	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－1192	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1193	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1194	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1195	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1196	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1197	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1198	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1199	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1200	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H

【表４１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1201	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1202	O	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1203	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1204	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－1205	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－1206	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－1207	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－1208	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－1209	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－1210	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－1211	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－1212	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－1213	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－1214	O	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－1215	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－1216	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1217	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－1218	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－1219	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－1220	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－1221	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－1222	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－1223	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－1224	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－1225	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－1226	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－1227	O	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－1228	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－1229	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1230	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－1231	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－1232	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－1233	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－1234	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－1235	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－1236	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－1237	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－1238	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－1239	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－1240	O	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－1241	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－1242	O	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1243	O	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－1244	O	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－1245	O	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－1246	O	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－1247	O	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－1248	O	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－1249	O	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－1250	O	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－1251	O	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－1252	O	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－1253	O	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－1254	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－1255	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1256	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－1257	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－1258	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－1259	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－1260	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表４１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1261	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－1262	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－1263	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－1264	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－1265	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－1266	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－1267	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－1268	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－1269	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1270	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1271	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1272	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1273	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1274	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1275	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1276	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1277	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1278	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1279	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1280	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1281	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1282	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1283	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1284	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1285	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1286	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1287	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1288	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1289	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1290	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1291	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1292	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1293	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1294	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1295	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1296	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1297	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1298	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1299	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1300	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1301	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－1302	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－1303	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－1304	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－1305	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－1306	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－1307	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－1308	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－1309	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－1310	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－1311	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－1312	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－1313	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－1314	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－1315	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－1316	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－1317	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－1318	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－1319	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－1320	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H

【表４１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1321	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－1322	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－1323	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－1324	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－1325	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－1326	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－1327	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－1328	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－1329	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－1330	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－1331	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－1332	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－1333	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－1334	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－1335	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－1336	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－1337	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－1338	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－1339	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－1340	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－1341	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－1342	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－1343	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－1344	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－1345	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－1346	O	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1347	O	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－1348	O	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－1349	O	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－1350	O	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－1351	O	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－1352	O	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－1353	O	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－1354	O	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－1355	O	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－1356	O	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－1357	O	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－1358	O	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－1359	O	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－1360	O	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－1361	O	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－1362	O	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－1363	O	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－1364	O	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－1365	O	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－1366	O	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－1367	O	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－1368	O	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－1369	O	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－1370	O	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－1371	O	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－1372	O	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－1373	O	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－1374	O	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－1375	O	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－1376	O	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－1377	O	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－1378	O	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－1379	O	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－1380	O	2	H	F	H	H	H	H	H	H	H	H	H	F	H

【表４２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1381	O	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－1382	O	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－1383	O	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－1384	O	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－1385	O	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－1386	O	2	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－1387	O	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－1388	O	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－1389	O	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－1390	O	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－1391	O	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－1392	O	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－1393	O	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－1394	O	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－1395	O	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－1396	O	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－1397	O	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－1398	O	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－1399	O	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－1400	O	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－1401	O	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－1402	O	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－1403	O	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－1404	O	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－1405	O	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－1406	O	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－1407	O	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－1408	O	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－1409	O	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－1410	O	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－1411	O	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－1412	O	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－1413	O	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－1414	O	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－1415	O	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－1416	O	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－1417	O	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－1418	O	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－1419	O	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－1420	O	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－1421	O	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－1422	O	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－1423	O	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－1424	O	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－1425	O	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－1426	O	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－1427	O	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－1428	O	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－1429	O	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－1430	O	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－1431	O	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－1432	O	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－1433	O	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－1434	O	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－1435	O	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－1436	O	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－1437	O	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－1438	O	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－1439	O	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－1440	O	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H

【表４２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1441	O	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－1442	O	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－1443	O	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－1444	O	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－1445	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－1446	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－1447	O	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－1448	O	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－1449	O	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－1450	O	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－1451	O	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－1452	O	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－1453	O	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－1454	O	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－1455	O	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－1456	O	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－1457	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－1458	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－1459	O	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－1460	O	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－1461	O	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－1462	O	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－1463	O	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－1464	O	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－1465	O	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－1466	O	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－1467	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－1468	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－1469	O	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－1470	O	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－1471	O	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－1472	O	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－1473	O	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－1474	O	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－1475	O	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－1476	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－1477	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－1478	O	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－1479	O	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－1480	O	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－1481	O	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－1482	O	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－1483	O	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－1484	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－1485	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－1486	O	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－1487	O	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－1488	O	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－1489	O	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－1490	O	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－1491	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－1492	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－1493	O	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－1494	O	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－1495	O	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－1496	O	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－1497	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－1498	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－1499	O	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－1500	O	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H

【表４２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1501	O	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－1502	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－1503	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－1504	O	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－1505	O	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－1506	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－1507	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－1508	O	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－1509	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－1510	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－1511	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－1512	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－1513	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－1514	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－1515	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－1516	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1517	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1518	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1519	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1520	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1521	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1522	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1523	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1524	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1525	O	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1526	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1527	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－1528	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－1529	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1530	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1531	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1532	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1533	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1534	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1535	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1536	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1537	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1538	O	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1539	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1540	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－1541	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－1542	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1543	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1544	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1545	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1546	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1547	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1548	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1549	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1550	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1551	O	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1552	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1553	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－1554	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－1555	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－1556	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－1557	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－1558	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－1559	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－1560	O	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H

【表４２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1561	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－1562	O	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－1563	O	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－1564	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－1565	O	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－1566	O	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－1567	O	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－1568	O	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－1569	O	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－1570	O	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－1571	O	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－1572	O	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－1573	O	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－1574	O	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－1575	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－1576	O	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－1577	O	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－1578	O	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－1579	O	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－1580	O	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－1581	O	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－1582	O	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－1583	O	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－1584	O	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－1585	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－1586	O	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－1587	O	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－1588	O	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－1589	O	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－1590	O	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－1591	O	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－1592	O	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－1593	O	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－1594	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－1595	O	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－1596	O	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－1597	O	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－1598	O	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－1599	O	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－1600	O	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－1601	O	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－1602	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－1603	O	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－1604	O	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－1605	O	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－1606	O	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－1607	O	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－1608	O	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－1609	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－1610	O	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－1611	O	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－1612	O	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－1613	O	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－1614	O	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－1615	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－1616	O	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－1617	O	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－1618	O	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－1619	O	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－1620	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F

【表４２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1621	O	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－1622	O	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－1623	O	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－1624	O	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－1625	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－1626	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－1627	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－1628	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－1629	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1630	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－1631	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－1632	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－1633	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－1634	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－1635	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－1636	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－1637	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－1638	O	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－1639	O	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－1640	O	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1641	O	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－1642	O	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－1643	O	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－1644	O	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－1645	O	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－1646	O	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－1647	O	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－1648	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－1649	O	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－1650	O	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－1651	O	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－1652	O	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－1653	O	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－1654	O	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－1655	O	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－1656	O	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－1657	O	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－1658	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－1659	O	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－1660	O	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－1661	O	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－1662	O	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－1663	O	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－1664	O	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－1665	O	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－1666	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－1667	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－1668	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－1669	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－1670	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－1671	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－1672	O	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－1673	O	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－1674	O	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－1675	O	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－1676	O	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－1677	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1678	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－1679	O	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－1680	O	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H

【表４２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1681	O	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－1682	O	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－1683	O	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－1684	O	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－1685	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－1686	O	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－1687	O	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－1688	O	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－1689	O	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－1690	O	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－1691	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－1692	O	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－1693	O	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－1694	O	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－1695	O	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－1696	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－1697	O	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－1698	O	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－1699	O	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－1700	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－1701	O	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－1702	O	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－1703	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－1704	O	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－1705	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－1706	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－1707	O	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－1708	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－1709	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－1710	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－1711	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－1712	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－1713	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－1714	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－1715	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－1716	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－1717	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－1718	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－1719	O	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－1720	O	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－1721	O	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－1722	O	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－1723	O	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－1724	O	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－1725	O	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－1726	O	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－1727	O	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－1728	O	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－1729	O	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－1730	O	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－1731	O	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－1732	O	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－1733	O	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－1734	O	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－1735	O	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－1736	O	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－1737	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－1738	O	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－1739	O	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－1740	O	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H

【表４２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1741	O	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－1742	O	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－1743	O	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－1744	O	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－1745	O	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－1746	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－1747	O	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－1748	O	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－1749	O	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－1750	O	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－1751	O	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－1752	O	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－1753	O	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－1754	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－1755	O	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－1756	O	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－1757	O	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－1758	O	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－1759	O	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－1760	O	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－1761	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－1762	O	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－1763	O	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－1764	O	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－1765	O	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－1766	O	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－1767	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－1768	O	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－1769	O	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－1770	O	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－1771	O	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－1772	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－1773	O	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－1774	O	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－1775	O	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－1776	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－1777	O	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－1778	O	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－1779	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－1780	O	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－1781	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－1782	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－1783	S	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1784	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1785	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－1786	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1787	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1788	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1789	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1790	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1791	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1792	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1793	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1794	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1795	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1796	S	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1797	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1798	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－1799	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－1800	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H

【表４２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1801	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－1802	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－1803	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－1804	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－1805	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－1806	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－1807	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－1808	S	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－1809	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－1810	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1811	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－1812	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－1813	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－1814	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－1815	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－1816	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－1817	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－1818	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－1819	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－1820	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－1821	S	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－1822	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－1823	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1824	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－1825	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－1826	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－1827	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－1828	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－1829	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－1830	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－1831	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－1832	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－1833	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－1834	S	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－1835	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－1836	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1837	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－1838	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－1839	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－1840	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－1841	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－1842	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－1843	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－1844	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－1845	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－1846	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－1847	S	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－1848	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－1849	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1850	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－1851	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－1852	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－1853	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－1854	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－1855	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－1856	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－1857	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－1858	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－1859	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－1860	S	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H

【表４２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1861	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－1862	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－1863	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1864	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1865	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1866	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1867	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1868	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1869	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1870	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1871	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1872	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1873	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1874	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－1875	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1876	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1877	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1878	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1879	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1880	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1881	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1882	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1883	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1884	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1885	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－1886	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－1887	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－1888	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－1889	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－1890	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－1891	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－1892	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－1893	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－1894	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－1895	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－1896	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－1897	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－1898	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－1899	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－1900	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－1901	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－1902	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－1903	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－1904	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－1905	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－1906	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－1907	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－1908	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－1909	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－1910	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－1911	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－1912	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－1913	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－1914	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－1915	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－1916	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－1917	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－1918	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－1919	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－1920	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H

【表４２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1921	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－1922	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－1923	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－1924	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－1925	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－1926	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－1927	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－1928	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－1929	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－1930	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－1931	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－1932	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－1933	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－1934	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－1935	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－1936	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－1937	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－1938	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－1939	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－1940	S	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－1941	S	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－1942	S	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－1943	S	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－1944	S	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－1945	S	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－1946	S	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－1947	S	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－1948	S	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－1949	S	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－1950	S	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－1951	S	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－1952	S	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－1953	S	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－1954	S	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－1955	S	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－1956	S	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－1957	S	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－1958	S	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－1959	S	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－1960	S	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－1961	S	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－1962	S	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－1963	S	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－1964	S	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－1965	S	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－1966	S	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－1967	S	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－1968	S	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－1969	S	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－1970	S	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－1971	S	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－1972	S	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－1973	S	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－1974	S	2	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－1975	S	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－1976	S	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－1977	S	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－1978	S	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－1979	S	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－1980	S	2	H	H	F	H	H	H	H	F	H	H	H	H	H

【表４３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－1981	S	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－1982	S	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－1983	S	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－1984	S	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－1985	S	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－1986	S	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－1987	S	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－1988	S	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－1989	S	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－1990	S	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－1991	S	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－1992	S	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－1993	S	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－1994	S	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－1995	S	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－1996	S	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－1997	S	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－1998	S	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－1999	S	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－2000	S	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－2001	S	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－2002	S	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－2003	S	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－2004	S	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－2005	S	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－2006	S	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－2007	S	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－2008	S	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－2009	S	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－2010	S	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－2011	S	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－2012	S	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－2013	S	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－2014	S	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－2015	S	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－2016	S	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－2017	S	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－2018	S	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－2019	S	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－2020	S	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－2021	S	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－2022	S	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－2023	S	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－2024	S	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－2025	S	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－2026	S	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－2027	S	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－2028	S	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－2029	S	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－2030	S	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－2031	S	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－2032	S	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－2033	S	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－2034	S	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－2035	S	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－2036	S	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－2037	S	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－2038	S	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－2039	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－2040	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F

【表４３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2041	S	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－2042	S	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－2043	S	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－2044	S	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－2045	S	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－2046	S	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－2047	S	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－2048	S	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－2049	S	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－2050	S	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－2051	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－2052	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－2053	S	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－2054	S	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－2055	S	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－2056	S	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－2057	S	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－2058	S	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－2059	S	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－2060	S	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－2061	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－2062	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－2063	S	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－2064	S	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－2065	S	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－2066	S	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－2067	S	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－2068	S	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－2069	S	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－2070	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－2071	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－2072	S	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－2073	S	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－2074	S	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－2075	S	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－2076	S	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－2077	S	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－2078	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－2079	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－2080	S	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－2081	S	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－2082	S	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－2083	S	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－2084	S	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－2085	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－2086	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－2087	S	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－2088	S	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－2089	S	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－2090	S	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－2091	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－2092	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－2093	S	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－2094	S	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－2095	S	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－2096	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－2097	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－2098	S	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－2099	S	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－2100	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H

【表４３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2101	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－2102	S	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－2103	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－2104	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－2105	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－2106	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－2107	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－2108	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2109	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2110	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2111	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2112	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2113	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2114	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2115	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2116	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2117	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2118	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2119	S	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2120	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2121	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－2122	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－2123	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2124	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2125	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2126	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2127	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2128	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2129	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2130	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2131	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2132	S	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2133	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2134	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2135	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2136	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2137	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2138	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2139	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2140	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2141	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2142	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2143	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2144	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2145	S	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2146	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2147	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2148	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－2149	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－2150	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－2151	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－2152	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－2153	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－2154	S	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－2155	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－2156	S	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－2157	S	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－2158	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－2159	S	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－2160	S	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H

【表４３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2161	S	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－2162	S	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－2163	S	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－2164	S	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－2165	S	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－2166	S	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－2167	S	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－2168	S	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－2169	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－2170	S	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－2171	S	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－2172	S	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－2173	S	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－2174	S	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－2175	S	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－2176	S	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－2177	S	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－2178	S	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－2179	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－2180	S	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－2181	S	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－2182	S	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－2183	S	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－2184	S	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－2185	S	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－2186	S	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－2187	S	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－2188	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－2189	S	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－2190	S	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－2191	S	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－2192	S	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－2193	S	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－2194	S	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－2195	S	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－2196	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－2197	S	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－2198	S	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－2199	S	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－2200	S	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－2201	S	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－2202	S	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－2203	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－2204	S	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－2205	S	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－2206	S	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－2207	S	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－2208	S	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－2209	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－2210	S	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－2211	S	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－2212	S	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－2213	S	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－2214	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－2215	S	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－2216	S	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－2217	S	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－2218	S	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－2219	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－2220	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H

【表４３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2221	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－2222	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－2223	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2224	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－2225	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－2226	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－2227	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－2228	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－2229	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－2230	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－2231	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－2232	S	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－2233	S	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－2234	S	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2235	S	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－2236	S	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－2237	S	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－2238	S	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－2239	S	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－2240	S	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－2241	S	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－2242	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－2243	S	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－2244	S	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－2245	S	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－2246	S	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－2247	S	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－2248	S	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－2249	S	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－2250	S	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－2251	S	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－2252	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－2253	S	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－2254	S	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－2255	S	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－2256	S	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－2257	S	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－2258	S	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－2259	S	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－2260	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－2261	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－2262	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－2263	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－2264	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－2265	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－2266	S	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－2267	S	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－2268	S	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－2269	S	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－2270	S	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－2271	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2272	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2273	S	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－2274	S	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－2275	S	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－2276	S	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－2277	S	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－2278	S	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－2279	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－2280	S	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H

【表４３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2281	S	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－2282	S	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－2283	S	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－2284	S	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－2285	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－2286	S	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－2287	S	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－2288	S	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－2289	S	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－2290	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－2291	S	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－2292	S	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－2293	S	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－2294	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－2295	S	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－2296	S	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－2297	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－2298	S	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－2299	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－2300	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－2301	S	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2302	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－2303	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－2304	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－2305	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－2306	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－2307	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－2308	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－2309	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－2310	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－2311	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－2312	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－2313	S	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－2314	S	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－2315	S	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－2316	S	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－2317	S	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－2318	S	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－2319	S	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－2320	S	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－2321	S	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－2322	S	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－2323	S	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－2324	S	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－2325	S	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－2326	S	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－2327	S	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－2328	S	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－2329	S	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－2330	S	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－2331	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－2332	S	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－2333	S	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－2334	S	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－2335	S	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－2336	S	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－2337	S	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－2338	S	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－2339	S	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－2340	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F

【表４３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2341	S	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－2342	S	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－2343	S	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－2344	S	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－2345	S	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－2346	S	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－2347	S	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－2348	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－2349	S	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－2350	S	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－2351	S	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－2352	S	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－2353	S	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－2354	S	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－2355	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－2356	S	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－2357	S	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－2358	S	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－2359	S	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－2360	S	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－2361	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－2362	S	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－2363	S	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－2364	S	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－2365	S	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－2366	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－2367	S	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－2368	S	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－2369	S	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－2370	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－2371	S	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－2372	S	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－2373	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－2374	S	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－2375	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－2376	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－2377	O	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2378	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2379	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－2380	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2381	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2382	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2383	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2384	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2385	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2386	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2387	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2388	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2389	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2390	O	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2391	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2392	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－2393	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－2394	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－2395	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－2396	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－2397	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－2398	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－2399	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－2400	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H

【表４３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2401	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－2402	O	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－2403	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－2404	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2405	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－2406	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－2407	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－2408	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－2409	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－2410	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－2411	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－2412	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－2413	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－2414	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－2415	O	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－2416	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－2417	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2418	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－2419	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－2420	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－2421	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－2422	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－2423	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－2424	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－2425	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－2426	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－2427	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－2428	O	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－2429	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－2430	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2431	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－2432	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－2433	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－2434	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－2435	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－2436	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－2437	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－2438	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－2439	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－2440	O	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－2441	O	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－2442	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－2443	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2444	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－2445	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－2446	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－2447	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－2448	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－2449	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－2450	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－2451	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－2452	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－2453	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－2454	O	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－2455	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－2456	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－2457	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2458	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2459	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2460	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H

【表４３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2461	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2462	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2463	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2464	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2465	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2466	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2467	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2468	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2469	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2470	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2471	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2472	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2473	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2474	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2475	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2476	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2477	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2478	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2479	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2480	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2481	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2482	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2483	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2484	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2485	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2486	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2487	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2488	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2489	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－2490	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－2491	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－2492	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－2493	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－2494	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－2495	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－2496	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－2497	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－2498	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－2499	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－2500	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－2501	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－2502	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－2503	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－2504	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－2505	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－2506	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－2507	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－2508	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－2509	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－2510	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－2511	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－2512	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－2513	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－2514	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－2515	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－2516	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－2517	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－2518	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－2519	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－2520	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H

【表４３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2521	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－2522	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－2523	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－2524	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－2525	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－2526	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－2527	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－2528	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－2529	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－2530	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－2531	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－2532	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－2533	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－2534	O	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2535	O	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－2536	O	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－2537	O	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－2538	O	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－2539	O	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－2540	O	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－2541	O	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－2542	O	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－2543	O	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－2544	O	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－2545	O	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－2546	O	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－2547	O	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－2548	O	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－2549	O	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－2550	O	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－2551	O	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－2552	O	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－2553	O	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－2554	O	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－2555	O	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－2556	O	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－2557	O	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－2558	O	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－2559	O	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－2560	O	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－2561	O	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－2562	O	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－2563	O	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－2564	O	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－2565	O	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－2566	O	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－2567	O	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－2568	O	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－2569	O	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－2570	O	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－2571	O	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－2572	O	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－2573	O	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－2574	O	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－2575	O	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－2576	O	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－2577	O	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－2578	O	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－2579	O	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－2580	O	3	H	H	H	F	F	H	H	H	H	H	H	H	H

【表４４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2581	O	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－2582	O	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－2583	O	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－2584	O	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－2585	O	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－2586	O	3	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－2587	O	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－2588	O	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－2589	O	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－2590	O	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－2591	O	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－2592	O	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－2593	O	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－2594	O	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－2595	O	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－2596	O	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－2597	O	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－2598	O	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－2599	O	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－2600	O	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－2601	O	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－2602	O	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－2603	O	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－2604	O	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－2605	O	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－2606	O	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－2607	O	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－2608	O	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－2609	O	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－2610	O	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－2611	O	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－2612	O	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－2613	O	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－2614	O	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－2615	O	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－2616	O	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－2617	O	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－2618	O	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－2619	O	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－2620	O	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－2621	O	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－2622	O	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－2623	O	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－2624	O	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－2625	O	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－2626	O	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－2627	O	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－2628	O	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－2629	O	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－2630	O	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－2631	O	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－2632	O	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－2633	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－2634	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－2635	O	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－2636	O	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－2637	O	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－2638	O	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－2639	O	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－2640	O	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H

【表４４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2641	O	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－2642	O	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－2643	O	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－2644	O	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－2645	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－2646	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－2647	O	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－2648	O	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－2649	O	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－2650	O	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－2651	O	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－2652	O	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－2653	O	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－2654	O	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－2655	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－2656	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－2657	O	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－2658	O	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－2659	O	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－2660	O	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－2661	O	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－2662	O	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－2663	O	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－2664	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－2665	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－2666	O	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－2667	O	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－2668	O	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－2669	O	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－2670	O	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－2671	O	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－2672	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－2673	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－2674	O	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－2675	O	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－2676	O	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－2677	O	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－2678	O	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－2679	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－2680	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－2681	O	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－2682	O	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－2683	O	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－2684	O	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－2685	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－2686	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－2687	O	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－2688	O	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－2689	O	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－2690	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－2691	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－2692	O	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－2693	O	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－2694	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－2695	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－2696	O	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－2697	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－2698	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－2699	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－2700	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F

【表４４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2701	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－2702	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2703	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2704	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2705	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2706	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2707	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2708	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2709	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2710	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2711	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2712	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2713	O	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2714	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2715	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－2716	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－2717	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2718	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2719	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2720	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2721	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2722	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2723	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2724	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2725	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2726	O	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2727	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2728	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2729	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2730	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2731	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2732	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2733	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2734	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2735	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2736	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2737	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2738	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2739	O	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2740	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2741	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－2742	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－2743	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－2744	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－2745	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－2746	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－2747	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－2748	O	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－2749	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－2750	O	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－2751	O	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－2752	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－2753	O	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－2754	O	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－2755	O	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－2756	O	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－2757	O	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－2758	O	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－2759	O	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－2760	O	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H

【表４４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2761	O	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－2762	O	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－2763	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－2764	O	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－2765	O	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－2766	O	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－2767	O	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－2768	O	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－2769	O	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－2770	O	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－2771	O	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－2772	O	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－2773	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－2774	O	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－2775	O	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－2776	O	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－2777	O	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－2778	O	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－2779	O	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－2780	O	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－2781	O	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－2782	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－2783	O	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－2784	O	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－2785	O	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－2786	O	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－2787	O	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－2788	O	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－2789	O	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－2790	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－2791	O	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－2792	O	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－2793	O	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－2794	O	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－2795	O	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－2796	O	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－2797	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－2798	O	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－2799	O	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－2800	O	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－2801	O	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－2802	O	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－2803	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－2804	O	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－2805	O	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－2806	O	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－2807	O	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－2808	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－2809	O	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－2810	O	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－2811	O	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－2812	O	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－2813	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－2814	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－2815	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－2816	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－2817	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2818	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－2819	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－2820	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H

【表４４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2821	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－2822	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－2823	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－2824	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－2825	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－2826	O	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－2827	O	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－2828	O	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2829	O	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－2830	O	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－2831	O	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－2832	O	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－2833	O	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－2834	O	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－2835	O	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－2836	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－2837	O	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－2838	O	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－2839	O	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－2840	O	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－2841	O	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－2842	O	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－2843	O	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－2844	O	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－2845	O	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－2846	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－2847	O	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－2848	O	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－2849	O	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－2850	O	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－2851	O	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－2852	O	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－2853	O	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－2854	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－2855	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－2856	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－2857	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－2858	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－2859	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－2860	O	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－2861	O	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－2862	O	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－2863	O	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－2864	O	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－2865	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2866	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－2867	O	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－2868	O	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－2869	O	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－2870	O	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－2871	O	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－2872	O	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－2873	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－2874	O	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－2875	O	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－2876	O	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－2877	O	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－2878	O	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－2879	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－2880	O	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H

【表４４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2881	O	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－2882	O	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－2883	O	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－2884	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－2885	O	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－2886	O	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－2887	O	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－2888	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－2889	O	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－2890	O	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－2891	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－2892	O	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－2893	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－2894	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－2895	O	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－2896	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－2897	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－2898	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－2899	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－2900	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－2901	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－2902	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－2903	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－2904	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－2905	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－2906	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－2907	O	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－2908	O	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－2909	O	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－2910	O	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－2911	O	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－2912	O	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－2913	O	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－2914	O	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－2915	O	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－2916	O	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－2917	O	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－2918	O	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－2919	O	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－2920	O	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－2921	O	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－2922	O	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－2923	O	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－2924	O	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－2925	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－2926	O	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－2927	O	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－2928	O	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－2929	O	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－2930	O	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－2931	O	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－2932	O	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－2933	O	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－2934	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－2935	O	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－2936	O	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－2937	O	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－2938	O	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－2939	O	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－2940	O	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H

【表４４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－2941	O	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－2942	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－2943	O	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－2944	O	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－2945	O	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－2946	O	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－2947	O	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－2948	O	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－2949	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－2950	O	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－2951	O	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－2952	O	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－2953	O	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－2954	O	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－2955	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－2956	O	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－2957	O	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－2958	O	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－2959	O	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－2960	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－2961	O	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－2962	O	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－2963	O	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－2964	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－2965	O	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－2966	O	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－2967	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－2968	O	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－2969	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－2970	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－2971	S	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2972	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2973	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－2974	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－2975	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－2976	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－2977	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－2978	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－2979	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－2980	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－2981	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－2982	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－2983	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－2984	S	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－2985	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2986	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－2987	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－2988	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－2989	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－2990	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－2991	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－2992	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－2993	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－2994	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－2995	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－2996	S	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－2997	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－2998	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－2999	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－3000	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H

【表４４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3001	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－3002	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－3003	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－3004	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－3005	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－3006	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－3007	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－3008	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－3009	S	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－3010	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－3011	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3012	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－3013	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－3014	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－3015	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－3016	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－3017	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－3018	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－3019	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－3020	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－3021	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－3022	S	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－3023	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－3024	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3025	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－3026	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－3027	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－3028	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－3029	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－3030	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－3031	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－3032	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－3033	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－3034	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－3035	S	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－3036	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－3037	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3038	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－3039	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－3040	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－3041	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－3042	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－3043	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－3044	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－3045	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－3046	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－3047	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－3048	S	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－3049	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－3050	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－3051	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3052	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3053	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3054	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3055	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3056	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3057	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3058	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3059	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3060	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H

【表４４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3061	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3062	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3063	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3064	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3065	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3066	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3067	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3068	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3069	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3070	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3071	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3072	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3073	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3074	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3075	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3076	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3077	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3078	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3079	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3080	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3081	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3082	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3083	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－3084	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－3085	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－3086	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－3087	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－3088	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－3089	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－3090	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－3091	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－3092	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－3093	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－3094	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－3095	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－3096	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－3097	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－3098	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－3099	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－3100	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－3101	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－3102	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－3103	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－3104	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－3105	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－3106	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－3107	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－3108	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－3109	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－3110	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－3111	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－3112	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－3113	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－3114	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－3115	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－3116	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－3117	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－3118	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－3119	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－3120	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H

【表４４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3121	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－3122	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－3123	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－3124	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－3125	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－3126	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－3127	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－3128	S	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3129	S	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－3130	S	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－3131	S	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－3132	S	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－3133	S	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－3134	S	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－3135	S	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－3136	S	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－3137	S	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－3138	S	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－3139	S	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－3140	S	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－3141	S	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－3142	S	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－3143	S	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－3144	S	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－3145	S	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－3146	S	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－3147	S	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－3148	S	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－3149	S	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－3150	S	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－3151	S	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－3152	S	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－3153	S	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－3154	S	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－3155	S	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－3156	S	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－3157	S	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－3158	S	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－3159	S	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－3160	S	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－3161	S	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－3162	S	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－3163	S	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－3164	S	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－3165	S	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－3166	S	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－3167	S	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－3168	S	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－3169	S	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－3170	S	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－3171	S	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－3172	S	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－3173	S	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－3174	S	3	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－3175	S	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－3176	S	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－3177	S	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－3178	S	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－3179	S	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－3180	S	3	H	H	H	F	H	H	H	H	H	H	F	H	H

【表４５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3181	S	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－3182	S	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－3183	S	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－3184	S	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－3185	S	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－3186	S	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－3187	S	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－3188	S	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－3189	S	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－3190	S	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－3191	S	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－3192	S	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)－3193	S	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－3194	S	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－3195	S	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－3196	S	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－3197	S	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－3198	S	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－3199	S	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－3200	S	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－3201	S	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－3202	S	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－3203	S	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－3204	S	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－3205	S	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－3206	S	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－3207	S	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－3208	S	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－3209	S	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－3210	S	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－3211	S	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－3212	S	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－3213	S	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－3214	S	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－3215	S	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－3216	S	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－3217	S	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－3218	S	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－3219	S	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－3220	S	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－3221	S	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－3222	S	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－3223	S	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－3224	S	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－3225	S	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－3226	S	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－3227	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－3228	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－3229	S	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－3230	S	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－3231	S	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－3232	S	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－3233	S	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－3234	S	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－3235	S	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－3236	S	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－3237	S	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－3238	S	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－3239	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－3240	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F

【表４５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3241	S	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－3242	S	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－3243	S	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－3244	S	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－3245	S	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－3246	S	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－3247	S	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－3248	S	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－3249	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－3250	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－3251	S	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－3252	S	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－3253	S	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－3254	S	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－3255	S	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－3256	S	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－3257	S	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－3258	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－3259	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－3260	S	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－3261	S	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－3262	S	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－3263	S	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－3264	S	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－3265	S	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－3266	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－3267	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－3268	S	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－3269	S	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－3270	S	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－3271	S	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－3272	S	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－3273	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－3274	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－3275	S	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－3276	S	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－3277	S	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－3278	S	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－3279	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－3280	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－3281	S	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－3282	S	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－3283	S	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－3284	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－3285	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－3286	S	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－3287	S	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－3288	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－3289	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－3290	S	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－3291	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－3292	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－3293	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－3294	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－3295	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－3296	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3297	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3298	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3299	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3300	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H

【表４５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3301	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3302	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3303	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3304	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3305	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3306	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3307	S	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3308	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3309	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－3310	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－3311	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3312	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3313	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3314	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3315	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3316	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3317	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3318	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3319	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3320	S	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3321	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3322	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－3323	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－3324	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3325	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3326	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3327	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3328	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3329	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3330	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3331	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3332	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3333	S	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3334	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3335	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3336	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－3337	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－3338	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－3339	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－3340	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－3341	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－3342	S	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－3343	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－3344	S	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－3345	S	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－3346	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－3347	S	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－3348	S	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－3349	S	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－3350	S	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－3351	S	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－3352	S	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－3353	S	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－3354	S	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－3355	S	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－3356	S	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－3357	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－3358	S	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－3359	S	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－3360	S	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H

【表４５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3361	S	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－3362	S	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－3363	S	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－3364	S	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－3365	S	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－3366	S	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－3367	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－3368	S	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－3369	S	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－3370	S	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－3371	S	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－3372	S	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－3373	S	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－3374	S	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－3375	S	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－3376	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－3377	S	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－3378	S	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－3379	S	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－3380	S	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－3381	S	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－3382	S	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－3383	S	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－3384	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－3385	S	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－3386	S	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－3387	S	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－3388	S	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－3389	S	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－3390	S	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－3391	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－3392	S	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－3393	S	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－3394	S	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－3395	S	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－3396	S	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－3397	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－3398	S	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－3399	S	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－3400	S	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－3401	S	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－3402	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－3403	S	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－3404	S	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－3405	S	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－3406	S	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－3407	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－3408	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－3409	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－3410	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－3411	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－3412	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－3413	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－3414	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－3415	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－3416	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－3417	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－3418	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－3419	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－3420	S	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H

【表４５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3421	S	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－3422	S	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－3423	S	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－3424	S	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－3425	S	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－3426	S	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－3427	S	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－3428	S	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－3429	S	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－3430	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－3431	S	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－3432	S	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－3433	S	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－3434	S	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－3435	S	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－3436	S	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－3437	S	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－3438	S	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－3439	S	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－3440	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－3441	S	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－3442	S	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－3443	S	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－3444	S	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－3445	S	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－3446	S	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－3447	S	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－3448	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－3449	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－3450	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－3451	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－3452	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－3453	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－3454	S	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－3455	S	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－3456	S	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－3457	S	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－3458	S	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－3459	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－3460	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－3461	S	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－3462	S	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－3463	S	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－3464	S	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－3465	S	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－3466	S	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－3467	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－3468	S	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－3469	S	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－3470	S	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－3471	S	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－3472	S	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－3473	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－3474	S	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－3475	S	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－3476	S	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－3477	S	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－3478	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－3479	S	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－3480	S	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H

【表４５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3481	S	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－3482	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－3483	S	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－3484	S	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－3485	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－3486	S	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－3487	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－3488	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－3489	S	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－3490	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－3491	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－3492	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－3493	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－3494	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－3495	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－3496	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－3497	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－3498	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－3499	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－3500	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－3501	S	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－3502	S	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－3503	S	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－3504	S	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－3505	S	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－3506	S	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－3507	S	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－3508	S	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－3509	S	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－3510	S	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－3511	S	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－3512	S	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－3513	S	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－3514	S	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－3515	S	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－3516	S	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－3517	S	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－3518	S	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－3519	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－3520	S	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－3521	S	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－3522	S	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－3523	S	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－3524	S	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－3525	S	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－3526	S	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－3527	S	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－3528	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－3529	S	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－3530	S	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－3531	S	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－3532	S	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－3533	S	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－3534	S	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－3535	S	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－3536	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－3537	S	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－3538	S	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－3539	S	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－3540	S	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H

【表４５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3541	S	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－3542	S	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－3543	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－3544	S	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－3545	S	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－3546	S	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－3547	S	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－3548	S	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－3549	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－3550	S	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－3551	S	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－3552	S	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－3553	S	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－3554	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－3555	S	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－3556	S	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－3557	S	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－3558	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－3559	S	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－3560	S	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－3561	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－3562	S	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－3563	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－3564	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－3565	O	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3566	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3567	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－3568	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3569	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3570	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3571	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3572	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3573	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3574	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3575	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3576	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3577	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3578	O	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3579	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3580	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－3581	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－3582	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－3583	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－3584	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－3585	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－3586	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－3587	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－3588	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－3589	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－3590	O	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－3591	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－3592	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3593	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－3594	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－3595	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－3596	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－3597	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－3598	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－3599	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－3600	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H

【表４５７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3601	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－3602	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－3603	O	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－3604	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－3605	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3606	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VII)－3607	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－3608	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－3609	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－3610	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－3611	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－3612	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－3613	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－3614	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－3615	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－3616	O	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－3617	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－3618	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3619	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－3620	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－3621	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－3622	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－3623	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－3624	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－3625	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－3626	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－3627	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－3628	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－3629	O	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－3630	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－3631	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3632	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－3633	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－3634	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－3635	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－3636	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－3637	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－3638	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－3639	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－3640	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－3641	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－3642	O	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－3643	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－3644	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－3645	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3646	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3647	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3648	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3649	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3650	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3651	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3652	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3653	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3654	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3655	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3656	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3657	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3658	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3659	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3660	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H

【表４５８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3661	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3662	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3663	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3664	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3665	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3666	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3667	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3668	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3669	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3670	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3671	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3672	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3673	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3674	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3675	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3676	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3677	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－3678	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－3679	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－3680	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－3681	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－3682	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－3683	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－3684	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－3685	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－3686	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－3687	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－3688	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－3689	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－3690	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－3691	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－3692	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－3693	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－3694	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－3695	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－3696	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－3697	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－3698	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－3699	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－3700	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－3701	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－3702	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－3703	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－3704	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－3705	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－3706	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－3707	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－3708	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－3709	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－3710	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－3711	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－3712	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－3713	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－3714	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－3715	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－3716	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－3717	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－3718	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－3719	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－3720	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3

【表４５９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3721	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－3722	O	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－3723	O	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－3724	O	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－3725	O	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－3726	O	4	H	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－3727	O	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－3728	O	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－3729	O	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－3730	O	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－3731	O	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－3732	O	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－3733	O	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－3734	O	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－3735	O	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－3736	O	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－3737	O	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－3738	O	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－3739	O	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－3740	O	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－3741	O	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－3742	O	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－3743	O	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－3744	O	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－3745	O	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－3746	O	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－3747	O	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－3748	O	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－3749	O	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－3750	O	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－3751	O	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－3752	O	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－3753	O	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－3754	O	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－3755	O	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－3756	O	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－3757	O	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－3758	O	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－3759	O	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－3760	O	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－3761	O	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－3762	O	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－3763	O	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－3764	O	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－3765	O	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－3766	O	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－3767	O	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－3768	O	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－3769	O	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－3770	O	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－3771	O	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－3772	O	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－3773	O	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－3774	O	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－3775	O	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－3776	O	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－3777	O	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－3778	O	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－3779	O	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－3780	O	4	H	H	H	H	F	H	H	H	F	H	H	H	H

【表４６０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)−3781	O	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)−3782	O	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)−3783	O	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)−3784	O	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)−3785	O	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)−3786	O	4	H	H	H	H	H	F	H	F	H	H	H	H	H
(VII)−3787	O	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)−3788	O	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)−3789	O	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)−3790	O	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)−3791	O	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)−3792	O	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)−3793	O	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)−3794	O	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)−3795	O	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)−3796	O	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)−3797	O	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)−3798	O	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)−3799	O	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)−3800	O	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)−3801	O	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)−3802	O	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)−3803	O	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)−3804	O	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)−3805	O	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)−3806	O	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)−3807	O	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)−3808	O	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)−3809	O	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)−3810	O	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)−3811	O	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)−3812	O	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)−3813	O	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)−3814	O	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)−3815	O	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)−3816	O	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)−3817	O	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)−3818	O	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)−3819	O	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)−3820	O	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)−3821	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)−3822	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)−3823	O	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)−3824	O	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)−3825	O	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)−3826	O	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)−3827	O	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)−3828	O	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)−3829	O	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)−3830	O	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)−3831	O	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)−3832	O	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)−3833	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)−3834	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)−3835	O	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)−3836	O	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)−3837	O	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)−3838	O	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)−3839	O	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)−3840	O	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H

【表４６１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3841	O	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－3842	O	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－3843	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－3844	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－3845	O	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－3846	O	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VII)－3847	O	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－3848	O	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－3849	O	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－3850	O	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－3851	O	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－3852	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－3853	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－3854	O	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－3855	O	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－3856	O	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－3857	O	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－3858	O	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－3859	O	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－3860	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－3861	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－3862	O	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－3863	O	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－3864	O	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－3865	O	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－3866	O	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－3867	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－3868	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－3869	O	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－3870	O	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－3871	O	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－3872	O	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－3873	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－3874	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－3875	O	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－3876	O	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－3877	O	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－3878	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－3879	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－3880	O	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－3881	O	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－3882	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－3883	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－3884	O	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－3885	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－3886	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－3887	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－3888	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－3889	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－3890	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3891	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3892	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3893	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3894	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3895	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3896	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3897	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3898	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3899	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3900	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H

【表４６２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3901	O	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3902	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3903	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－3904	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－3905	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3906	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3907	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3908	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3909	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3910	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3911	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3912	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3913	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3914	O	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3915	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3916	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－3917	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－3918	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－3919	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－3920	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－3921	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－3922	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－3923	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－3924	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－3925	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－3926	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－3927	O	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－3928	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－3929	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－3930	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－3931	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－3932	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－3933	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－3934	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－3935	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－3936	O	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－3937	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－3938	O	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－3939	O	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－3940	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－3941	O	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－3942	O	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－3943	O	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－3944	O	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－3945	O	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－3946	O	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－3947	O	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－3948	O	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－3949	O	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－3950	O	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－3951	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－3952	O	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－3953	O	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－3954	O	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－3955	O	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－3956	O	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－3957	O	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－3958	O	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－3959	O	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－3960	O	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H

【表４６３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－3961	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－3962	O	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－3963	O	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－3964	O	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－3965	O	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－3966	O	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VII)－3967	O	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－3968	O	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－3969	O	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－3970	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－3971	O	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－3972	O	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－3973	O	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－3974	O	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－3975	O	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－3976	O	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－3977	O	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－3978	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－3979	O	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－3980	O	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－3981	O	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－3982	O	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－3983	O	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－3984	O	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－3985	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－3986	O	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－3987	O	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－3988	O	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－3989	O	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－3990	O	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－3991	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－3992	O	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－3993	O	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－3994	O	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－3995	O	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－3996	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－3997	O	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－3998	O	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－3999	O	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－4000	O	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－4001	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－4002	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－4003	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－4004	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－4005	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4006	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－4007	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－4008	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－4009	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－4010	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－4011	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－4012	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－4013	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－4014	O	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－4015	O	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－4016	O	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4017	O	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－4018	O	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－4019	O	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－4020	O	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H

【表４６４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4021	O	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－4022	O	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－4023	O	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－4024	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－4025	O	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－4026	O	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VII)－4027	O	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－4028	O	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－4029	O	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－4030	O	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－4031	O	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－4032	O	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－4033	O	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－4034	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－4035	O	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－4036	O	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－4037	O	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－4038	O	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－4039	O	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－4040	O	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－4041	O	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－4042	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－4043	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－4044	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－4045	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－4046	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－4047	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－4048	O	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－4049	O	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－4050	O	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－4051	O	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－4052	O	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－4053	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4054	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4055	O	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－4056	O	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－4057	O	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－4058	O	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－4059	O	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－4060	O	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－4061	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－4062	O	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－4063	O	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－4064	O	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－4065	O	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－4066	O	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－4067	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－4068	O	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－4069	O	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－4070	O	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－4071	O	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－4072	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－4073	O	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－4074	O	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－4075	O	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－4076	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－4077	O	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－4078	O	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－4079	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－4080	O	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H

【表４６５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4081	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－4082	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－4083	O	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－4084	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－4085	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－4086	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－4087	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－4088	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－4089	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－4090	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－4091	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－4092	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－4093	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－4094	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－4095	O	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－4096	O	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－4097	O	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－4098	O	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－4099	O	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－4100	O	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－4101	O	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－4102	O	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－4103	O	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－4104	O	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－4105	O	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－4106	O	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－4107	O	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－4108	O	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－4109	O	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－4110	O	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－4111	O	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－4112	O	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－4113	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－4114	O	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－4115	O	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－4116	O	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－4117	O	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－4118	O	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－4119	O	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－4120	O	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－4121	O	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－4122	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－4123	O	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－4124	O	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－4125	O	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－4126	O	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－4127	O	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－4128	O	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－4129	O	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－4130	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－4131	O	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－4132	O	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－4133	O	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－4134	O	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－4135	O	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－4136	O	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－4137	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－4138	O	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－4139	O	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－4140	O	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H

【表４６６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4141	O	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－4142	O	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－4143	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－4144	O	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－4145	O	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－4146	O	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VII)－4147	O	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－4148	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－4149	O	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－4150	O	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－4151	O	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－4152	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－4153	O	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－4154	O	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－4155	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－4156	O	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－4157	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－4158	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VII)－4159	S	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4160	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4161	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－4162	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4163	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4164	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4165	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4166	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4167	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4168	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4169	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4170	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4171	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4172	S	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4173	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4174	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VII)－4175	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VII)－4176	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VII)－4177	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VII)－4178	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VII)－4179	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VII)－4180	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VII)－4181	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VII)－4182	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VII)－4183	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VII)－4184	S	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VII)－4185	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VII)－4186	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4187	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VII)－4188	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VII)－4189	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VII)－4190	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VII)－4191	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VII)－4192	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VII)－4193	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VII)－4194	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VII)－4195	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VII)－4196	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VII)－4197	S	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VII)－4198	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VII)－4199	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4200	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H

【表４６７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4201	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VII)－4202	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VII)－4203	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VII)－4204	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VII)－4205	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VII)－4206	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VII)－4207	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VII)－4208	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VII)－4209	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VII)－4210	S	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VII)－4211	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VII)－4212	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4213	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VII)－4214	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VII)－4215	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VII)－4216	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VII)－4217	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VII)－4218	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VII)－4219	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VII)－4220	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VII)－4221	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VII)－4222	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VII)－4223	S	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VII)－4224	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VII)－4225	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4226	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VII)－4227	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VII)－4228	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VII)－4229	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VII)－4230	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VII)－4231	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VII)－4232	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VII)－4233	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VII)－4234	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VII)－4235	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VII)－4236	S	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VII)－4237	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VII)－4238	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－4239	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4240	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4241	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4242	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4243	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4244	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4245	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4246	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4247	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4248	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4249	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4250	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4251	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4252	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4253	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4254	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4255	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4256	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4257	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4258	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4259	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4260	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3

【表４６８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4261	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4262	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4263	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4264	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4265	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4266	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4267	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4268	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4269	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4270	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4271	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VII)－4272	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VII)－4273	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VII)－4274	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VII)－4275	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VII)－4276	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VII)－4277	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VII)－4278	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VII)－4279	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VII)－4280	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VII)－4281	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VII)－4282	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VII)－4283	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VII)－4284	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VII)－4285	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VII)－4286	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VII)－4287	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VII)－4288	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VII)－4289	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VII)－4290	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VII)－4291	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VII)－4292	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VII)－4293	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VII)－4294	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VII)－4295	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VII)－4296	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VII)－4297	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VII)－4298	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VII)－4299	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VII)－4300	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VII)－4301	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VII)－4302	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VII)－4303	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VII)－4304	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VII)－4305	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VII)－4306	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VII)－4307	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VII)－4308	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VII)－4309	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VII)－4310	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VII)－4311	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VII)－4312	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VII)－4313	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VII)－4314	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VII)－4315	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VII)－4316	S	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VII)－4317	S	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－4318	S	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－4319	S	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－4320	S	4	H	H	H	H	F	H	H	H	H	H	H	H	H

【表４６９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4321	S	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－4322	S	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－4323	S	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－4324	S	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－4325	S	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－4326	S	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－4327	S	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－4328	S	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－4329	S	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－4330	S	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－4331	S	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－4332	S	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－4333	S	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－4334	S	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－4335	S	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－4336	S	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－4337	S	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－4338	S	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－4339	S	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－4340	S	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－4341	S	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VII)－4342	S	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VII)－4343	S	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VII)－4344	S	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VII)－4345	S	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VII)－4346	S	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VII)－4347	S	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VII)－4348	S	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VII)－4349	S	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VII)－4350	S	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VII)－4351	S	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VII)－4352	S	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VII)－4353	S	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VII)－4354	S	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VII)－4355	S	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VII)－4356	S	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VII)－4357	S	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VII)－4358	S	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VII)－4359	S	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VII)－4360	S	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VII)－4361	S	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VII)－4362	S	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VII)－4363	S	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VII)－4364	S	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VII)－4365	S	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VII)－4366	S	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VII)－4367	S	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VII)－4368	S	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VII)－4369	S	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VII)－4370	S	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VII)－4371	S	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VII)－4372	S	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VII)－4373	S	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VII)－4374	S	4	H	H	H	H	F	H	H	H	F	H	H	H	H
(VII)－4375	S	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VII)－4376	S	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VII)－4377	S	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VII)－4378	S	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VII)－4379	S	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VII)－4380	S	4	H	H	H	H	H	F	H	F	H	H	H	H	H

【表４７０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4381	S	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VII)－4382	S	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VII)－4383	S	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VII)－4384	S	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VII)－4385	S	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VII)－4386	S	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VII)－4387	S	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VII)－4388	S	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VII)－4389	S	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VII)－4390	S	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VII)－4391	S	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VII)－4392	S	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VII)－4393	S	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VII)－4394	S	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VII)－4395	S	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VII)－4396	S	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VII)－4397	S	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VII)－4398	S	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VII)－4399	S	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VII)－4400	S	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VII)－4401	S	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VII)－4402	S	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VII)－4403	S	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VII)－4404	S	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VII)－4405	S	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VII)－4406	S	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VII)－4407	S	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VII)－4408	S	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VII)－4409	S	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VII)－4410	S	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VII)－4411	S	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VII)－4412	S	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VII)－4413	S	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VII)－4414	S	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VII)－4415	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VII)－4416	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VII)－4417	S	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VII)－4418	S	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VII)－4419	S	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VII)－4420	S	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VII)－4421	S	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VII)－4422	S	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VII)－4423	S	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VII)－4424	S	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VII)－4425	S	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VII)－4426	S	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VII)－4427	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VII)－4428	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VII)－4429	S	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VII)－4430	S	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VII)－4431	S	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VII)－4432	S	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VII)－4433	S	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VII)－4434	S	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VII)－4435	S	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VII)－4436	S	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VII)－4437	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VII)－4438	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VII)－4439	S	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VII)－4440	S	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H

【表４７１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4441	S	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VII)－4442	S	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VII)－4443	S	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VII)－4444	S	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VII)－4445	S	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VII)－4446	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VII)－4447	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VII)－4448	S	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VII)－4449	S	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VII)－4450	S	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VII)－4451	S	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VII)－4452	S	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VII)－4453	S	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VII)－4454	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VII)－4455	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VII)－4456	S	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VII)－4457	S	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VII)－4458	S	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VII)－4459	S	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VII)－4460	S	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VII)－4461	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VII)－4462	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VII)－4463	S	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VII)－4464	S	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VII)－4465	S	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VII)－4466	S	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VII)－4467	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VII)－4468	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VII)－4469	S	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VII)－4470	S	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VII)－4471	S	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VII)－4472	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VII)－4473	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VII)－4474	S	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VII)－4475	S	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VII)－4476	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VII)－4477	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VII)－4478	S	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VII)－4479	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VII)－4480	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VII)－4481	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VII)－4482	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VII)－4483	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VII)－4484	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－4485	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－4486	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4487	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4488	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4489	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4490	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4491	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4492	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4493	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4494	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4495	S	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4496	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4497	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－4498	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－4499	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4500	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H

【表４７２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4501	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4502	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4503	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4504	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4505	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4506	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4507	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4508	S	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4509	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4510	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－4511	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－4512	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VII)－4513	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VII)－4514	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VII)－4515	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VII)－4516	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VII)－4517	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VII)－4518	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VII)－4519	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VII)－4520	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VII)－4521	S	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VII)－4522	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VII)－4523	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VII)－4524	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－4525	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－4526	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－4527	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－4528	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－4529	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－4530	S	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－4531	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－4532	S	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－4533	S	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－4534	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－4535	S	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VII)－4536	S	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VII)－4537	S	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VII)－4538	S	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VII)－4539	S	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VII)－4540	S	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VII)－4541	S	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VII)－4542	S	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VII)－4543	S	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VII)－4544	S	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VII)－4545	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VII)－4546	S	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VII)－4547	S	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VII)－4548	S	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VII)－4549	S	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VII)－4550	S	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VII)－4551	S	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VII)－4552	S	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VII)－4553	S	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VII)－4554	S	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VII)－4555	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VII)－4556	S	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VII)－4557	S	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VII)－4558	S	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VII)－4559	S	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VII)－4560	S	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H

【表４７３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4561	S	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VII)－4562	S	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VII)－4563	S	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VII)－4564	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VII)－4565	S	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VII)－4566	S	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VII)－4567	S	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VII)－4568	S	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VII)－4569	S	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VII)－4570	S	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VII)－4571	S	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VII)－4572	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VII)－4573	S	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VII)－4574	S	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VII)－4575	S	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VII)－4576	S	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VII)－4577	S	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VII)－4578	S	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VII)－4579	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VII)－4580	S	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VII)－4581	S	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VII)－4582	S	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VII)－4583	S	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VII)－4584	S	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VII)－4585	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VII)－4586	S	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VII)－4587	S	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VII)－4588	S	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VII)－4589	S	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VII)－4590	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VII)－4591	S	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VII)－4592	S	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VII)－4593	S	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VII)－4594	S	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VII)－4595	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VII)－4596	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VII)－4597	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－4598	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－4599	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4600	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－4601	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－4602	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－4603	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－4604	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－4605	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－4606	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－4607	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－4608	S	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VII)－4609	S	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VII)－4610	S	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4611	S	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VII)－4612	S	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VII)－4613	S	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VII)－4614	S	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VII)－4615	S	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VII)－4616	S	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VII)－4617	S	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VII)－4618	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VII)－4619	S	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VII)－4620	S	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H

【表４７４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4621	S	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VII)－4622	S	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VII)－4623	S	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VII)－4624	S	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VII)－4625	S	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VII)－4626	S	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VII)－4627	S	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VII)－4628	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VII)－4629	S	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VII)－4630	S	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VII)－4631	S	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VII)－4632	S	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VII)－4633	S	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VII)－4634	S	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VII)－4635	S	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VII)－4636	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－4637	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－4638	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－4639	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VII)－4640	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VII)－4641	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VII)－4642	S	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VII)－4643	S	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VII)－4644	S	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VII)－4645	S	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VII)－4646	S	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VII)－4647	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4648	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VII)－4649	S	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VII)－4650	S	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VII)－4651	S	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VII)－4652	S	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VII)－4653	S	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VII)－4654	S	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VII)－4655	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VII)－4656	S	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VII)－4657	S	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VII)－4658	S	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VII)－4659	S	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VII)－4660	S	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VII)－4661	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VII)－4662	S	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VII)－4663	S	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VII)－4664	S	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VII)－4665	S	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VII)－4666	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VII)－4667	S	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VII)－4668	S	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VII)－4669	S	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VII)－4670	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VII)－4671	S	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VII)－4672	S	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VII)－4673	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VII)－4674	S	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VII)－4675	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VII)－4676	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VII)－4677	S	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VII)－4678	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－4679	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－4680	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H

【表４７５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4681	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－4682	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－4683	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－4684	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－4685	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－4686	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－4687	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VII)－4688	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VII)－4689	S	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VII)－4690	S	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VII)－4691	S	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VII)－4692	S	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VII)－4693	S	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VII)－4694	S	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VII)－4695	S	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VII)－4696	S	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VII)－4697	S	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VII)－4698	S	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VII)－4699	S	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VII)－4700	S	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VII)－4701	S	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VII)－4702	S	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VII)－4703	S	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VII)－4704	S	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VII)－4705	S	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VII)－4706	S	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VII)－4707	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VII)－4708	S	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VII)－4709	S	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VII)－4710	S	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VII)－4711	S	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VII)－4712	S	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VII)－4713	S	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VII)－4714	S	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VII)－4715	S	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VII)－4716	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VII)－4717	S	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VII)－4718	S	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VII)－4719	S	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VII)－4720	S	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VII)－4721	S	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VII)－4722	S	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VII)－4723	S	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VII)－4724	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VII)－4725	S	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VII)－4726	S	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VII)－4727	S	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VII)－4728	S	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VII)－4729	S	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VII)－4730	S	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VII)－4731	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VII)－4732	S	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VII)－4733	S	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VII)－4734	S	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VII)－4735	S	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VII)－4736	S	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VII)－4737	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VII)－4738	S	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VII)－4739	S	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VII)－4740	S	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H

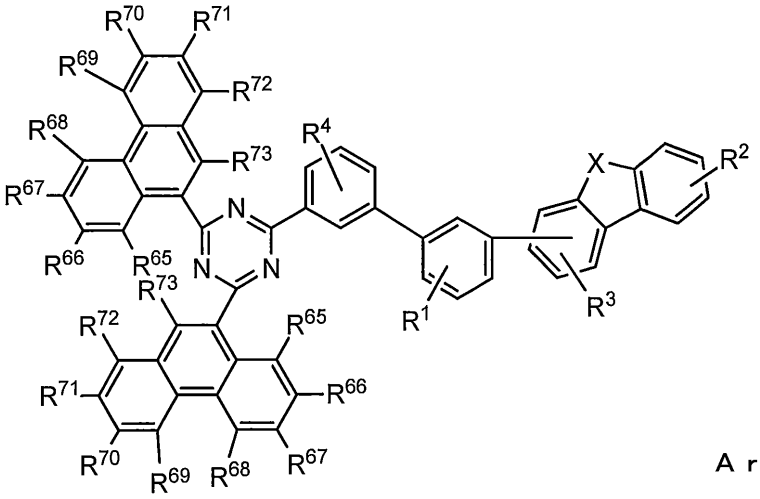
【表４７６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{56}	R^{57}	R^{58}	R^{59}	R^{60}	R^{61}	R^{62}	R^{63}	R^{64}
(VII)－4741	S	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VII)－4742	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VII)－4743	S	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VII)－4744	S	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VII)－4745	S	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VII)－4746	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VII)－4747	S	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VII)－4748	S	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VII)－4749	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VII)－4750	S	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VII)－4751	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VII)－4752	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F

【００４４】

下記式で表される化合物を表４７７～表５５６に示す。式中のＸ、R^1～R^4、R^{65}～R^{73}は、前記一般式〔１〕の場合と同じである。

【化２２】



Ａｒ＝(VIII)

【００４５】

【表４７７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1	O	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－5	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－6	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－7	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－8	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－9	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－10	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－11	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－12	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－13	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－14	O	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－15	O	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－16	O	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－17	O	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－18	O	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－19	O	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－20	O	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－21	O	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－22	O	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－23	O	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－24	O	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－25	O	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－26	O	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－27	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－28	O	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－29	O	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－30	O	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－31	O	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－32	O	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－33	O	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－34	O	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－35	O	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－36	O	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－37	O	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－38	O	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－39	O	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－40	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－41	O	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－42	O	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－43	O	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－44	O	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－45	O	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－46	O	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－47	O	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－48	O	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－49	O	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－50	O	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－51	O	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－52	O	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－53	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－54	O	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－55	O	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－56	O	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－57	O	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－58	O	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－59	O	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－60	O	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H

【表４７８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－61	O	1	H	H	H	H	H	H	H	C_6H_{11}	H	H	H	H	H
(VIII)－62	O	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－63	O	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－64	O	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－65	O	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－66	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－67	O	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－68	O	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－69	O	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－70	O	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－71	O	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－72	O	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－73	O	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－74	O	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－75	O	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－76	O	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－77	O	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－78	O	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－79	O	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－80	O	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－81	O	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－82	O	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－83	O	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－84	O	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－85	O	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－86	O	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－87	O	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－88	O	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－89	O	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－90	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－91	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－92	O	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－93	O	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－94	O	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－95	O	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－96	O	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－97	O	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－98	O	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－99	O	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－100	O	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－101	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－102	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－103	O	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－104	O	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－105	O	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－106	O	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－107	O	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－108	O	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－109	O	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－110	O	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－111	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－112	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－113	O	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－114	O	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－115	O	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－116	O	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－117	O	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－118	O	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－119	O	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－120	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H

【表４７９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－121	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－122	O	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－123	O	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－124	O	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－125	O	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－126	O	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－127	O	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－128	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－129	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－130	O	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－131	O	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－132	O	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－133	O	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－134	O	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－135	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－136	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－137	O	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－138	O	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－139	O	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－140	O	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－141	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－142	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－143	O	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－144	O	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－145	O	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－146	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－147	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－148	O	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－149	O	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－150	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－151	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－152	O	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－153	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－154	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－155	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－156	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－157	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－158	O	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－159	O	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－160	O	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－161	O	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－162	O	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－163	O	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－164	O	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－165	O	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－166	O	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－167	O	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－168	O	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－169	O	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－170	O	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－171	O	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－172	O	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－173	O	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－174	O	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－175	O	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－176	O	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－177	O	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－178	O	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－179	O	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－180	O	1	F	H	H	H	H	H	H	H	H	H	F	H	H

【表４８０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－181	O	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－182	O	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－183	O	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－184	O	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－185	O	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－186	O	1	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－187	O	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－188	O	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－189	O	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－190	O	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－191	O	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－192	O	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－193	O	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－194	O	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－195	O	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－196	O	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－197	O	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－198	O	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－199	O	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－200	O	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－201	O	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－202	O	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－203	O	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－204	O	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－205	O	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－206	O	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－207	O	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－208	O	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－209	O	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－210	O	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－211	O	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－212	O	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－213	O	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－214	O	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－215	O	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－216	O	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－217	O	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－218	O	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－219	O	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－220	O	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－221	O	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－222	O	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－223	O	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－224	O	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－225	O	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－226	O	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－227	O	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－228	O	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－229	O	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－230	O	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－231	O	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－232	O	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－233	O	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－234	O	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－235	O	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－236	O	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－237	O	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－238	O	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－239	O	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－240	O	1	H	H	H	H	H	H	H	H	F	H	H	H	F

【表４８１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－241	O	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－242	O	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－243	O	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－244	O	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－245	O	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－246	O	1	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－247	O	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－248	O	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－249	O	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－250	O	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－251	O	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－252	O	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－253	O	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－254	O	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－255	O	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－256	O	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－257	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－258	O	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－259	O	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－260	O	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－261	O	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－262	O	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－263	O	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－264	O	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－265	O	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－266	O	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－267	O	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－268	O	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－269	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－270	O	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－271	O	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－272	O	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－273	O	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－274	O	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－275	O	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－276	O	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－277	O	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－278	O	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－279	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－280	O	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－281	O	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－282	O	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－283	O	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－284	O	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－285	O	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－286	O	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－287	O	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－288	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－289	O	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－290	O	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－291	O	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－292	O	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－293	O	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－294	O	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－295	O	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－296	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－297	O	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－298	O	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－299	O	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－300	O	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H

【表４８２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－301	O	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－302	O	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－303	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－304	O	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－305	O	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－306	O	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－307	O	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－308	O	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－309	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－310	O	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－311	O	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－312	O	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－313	O	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－314	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－315	O	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－316	O	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－317	O	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－318	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－319	O	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－320	O	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－321	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－322	O	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－323	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－324	O	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－325	O	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－326	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－327	O	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－328	O	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－329	O	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－330	O	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－331	O	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－332	O	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－333	O	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－334	O	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－335	O	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－336	O	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－337	O	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－338	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－339	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－340	O	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－341	O	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－342	O	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－343	O	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－344	O	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－345	O	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－346	O	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－347	O	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－348	O	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－349	O	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－350	O	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－351	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－352	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－353	O	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－354	O	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－355	O	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－356	O	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－357	O	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－358	O	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－359	O	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－360	O	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H

【表４８３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－361	O	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－362	O	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－363	O	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－364	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－365	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－366	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－367	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－368	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－369	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－370	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－371	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－372	O	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－373	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－374	O	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－375	O	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－376	O	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－377	O	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－378	O	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－379	O	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－380	O	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－381	O	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－382	O	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－383	O	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－384	O	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－385	O	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－386	O	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－387	O	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－388	O	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－389	O	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－390	O	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－391	O	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－392	O	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－393	O	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－394	O	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－395	O	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－396	O	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－397	O	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－398	O	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－399	O	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－400	O	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－401	O	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－402	O	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－403	O	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－404	O	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－405	O	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－406	O	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－407	O	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－408	O	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－409	O	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－410	O	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－411	O	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－412	O	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－413	O	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－414	O	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－415	O	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－416	O	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－417	O	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－418	O	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－419	O	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－420	O	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H

【表４８４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－421	O	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－422	O	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－423	O	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－424	O	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－425	O	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－426	O	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－427	O	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－428	O	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－429	O	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－430	O	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－431	O	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－432	O	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－433	O	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－434	O	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－435	O	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－436	O	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－437	O	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－438	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－439	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－440	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－441	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－442	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－443	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－444	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－445	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－446	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－447	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－448	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－449	O	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－450	O	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－451	O	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－452	O	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－453	O	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－454	O	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－455	O	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－456	O	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－457	O	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－458	O	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－459	O	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－460	O	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－461	O	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－462	O	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－463	O	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－464	O	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－465	O	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－466	O	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－467	O	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－468	O	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－469	O	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－470	O	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－471	O	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－472	O	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－473	O	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－474	O	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－475	O	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－476	O	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－477	O	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－478	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－479	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－480	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H

【表４８５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－481	O	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－482	O	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－483	O	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－484	O	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－485	O	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－486	O	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－487	O	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－488	O	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－489	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－490	O	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－491	O	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－492	O	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－493	O	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－494	O	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－495	O	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－496	O	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－497	O	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－498	O	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－499	O	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－500	O	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－501	O	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－502	O	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－503	O	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－504	O	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－505	O	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－506	O	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－507	O	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－508	O	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－509	O	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－510	O	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－511	O	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－512	O	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－513	O	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－514	O	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－515	O	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－516	O	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－517	O	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－518	O	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－519	O	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－520	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－521	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－522	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－523	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－524	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－525	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－526	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－527	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－528	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－529	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－530	O	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－531	O	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－532	O	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－533	O	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－534	O	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－535	O	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－536	O	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－537	O	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－538	O	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－539	O	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－540	O	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H

【表４８６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－541	O	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－542	O	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－543	O	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－544	O	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－545	O	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－546	O	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－547	O	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－548	O	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－549	O	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－550	O	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－551	O	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－552	O	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－553	O	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－554	O	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－555	O	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－556	O	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－557	O	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－558	O	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－559	O	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－560	O	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－561	O	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－562	O	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－563	O	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－564	O	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－565	O	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－566	O	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－567	O	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－568	O	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－569	O	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－570	O	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－571	O	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－572	O	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－573	O	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－574	O	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－575	O	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－576	O	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－577	O	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－578	O	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－579	O	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－580	O	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－581	O	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－582	O	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－583	O	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－584	O	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－585	O	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－586	O	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－587	O	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－588	O	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－589	O	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－590	O	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－591	O	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－592	O	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－593	O	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－594	O	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－595	S	1	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－596	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－597	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－598	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－599	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－600	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	H

【表４８７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－601	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－602	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－603	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－604	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－605	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－606	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－607	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－608	S	1	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－609	S	1	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－610	S	1	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－611	S	1	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－612	S	1	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－613	S	1	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－614	S	1	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－615	S	1	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－616	S	1	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－617	S	1	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－618	S	1	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－619	S	1	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－620	S	1	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－621	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－622	S	1	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－623	S	1	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－624	S	1	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－625	S	1	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－626	S	1	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－627	S	1	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－628	S	1	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－629	S	1	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－630	S	1	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－631	S	1	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－632	S	1	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－633	S	1	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－634	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－635	S	1	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－636	S	1	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－637	S	1	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－638	S	1	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－639	S	1	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－640	S	1	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－641	S	1	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－642	S	1	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－643	S	1	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－644	S	1	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－645	S	1	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－646	S	1	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－647	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－648	S	1	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－649	S	1	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－650	S	1	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－651	S	1	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－652	S	1	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－653	S	1	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－654	S	1	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－655	S	1	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－656	S	1	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－657	S	1	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－658	S	1	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－659	S	1	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－660	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}

【表４８８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－661	S	1	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－662	S	1	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－663	S	1	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－664	S	1	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－665	S	1	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－666	S	1	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－667	S	1	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－668	S	1	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－669	S	1	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－670	S	1	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－671	S	1	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－672	S	1	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－673	S	1	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－674	S	1	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－675	S	1	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－676	S	1	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－677	S	1	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－678	S	1	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－679	S	1	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－680	S	1	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－681	S	1	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－682	S	1	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－683	S	1	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－684	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－685	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－686	S	1	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－687	S	1	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－688	S	1	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－689	S	1	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－690	S	1	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－691	S	1	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－692	S	1	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－693	S	1	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－694	S	1	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－695	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－696	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－697	S	1	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－698	S	1	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－699	S	1	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－700	S	1	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－701	S	1	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－702	S	1	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－703	S	1	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－704	S	1	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－705	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－706	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－707	S	1	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－708	S	1	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－709	S	1	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－710	S	1	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－711	S	1	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－712	S	1	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－713	S	1	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－714	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－715	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－716	S	1	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－717	S	1	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－718	S	1	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－719	S	1	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－720	S	1	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H

【表４８９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－721	S	1	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－722	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－723	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－724	S	1	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－725	S	1	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－726	S	1	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－727	S	1	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－728	S	1	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－729	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－730	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－731	S	1	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－732	S	1	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－733	S	1	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－734	S	1	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－735	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－736	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－737	S	1	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－738	S	1	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－739	S	1	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－740	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－741	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－742	S	1	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－743	S	1	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－744	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－745	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－746	S	1	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－747	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－748	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－749	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－750	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－751	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－752	S	1	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－753	S	1	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－754	S	1	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－755	S	1	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－756	S	1	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－757	S	1	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－758	S	1	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－759	S	1	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－760	S	1	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－761	S	1	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－762	S	1	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－763	S	1	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－764	S	1	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－765	S	1	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－766	S	1	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－767	S	1	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－768	S	1	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－769	S	1	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－770	S	1	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－771	S	1	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－772	S	1	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－773	S	1	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－774	S	1	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－775	S	1	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－776	S	1	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－777	S	1	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－778	S	1	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－779	S	1	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－780	S	1	H	F	H	H	H	F	H	H	H	H	H	H	H

【表４９０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－781	S	1	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－782	S	1	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－783	S	1	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－784	S	1	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－785	S	1	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－786	S	1	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－787	S	1	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－788	S	1	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－789	S	1	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－790	S	1	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－791	S	1	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－792	S	1	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－793	S	1	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－794	S	1	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－795	S	1	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－796	S	1	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－797	S	1	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－798	S	1	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－799	S	1	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－800	S	1	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－801	S	1	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－802	S	1	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－803	S	1	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－804	S	1	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－805	S	1	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－806	S	1	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－807	S	1	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－808	S	1	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－809	S	1	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－810	S	1	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－811	S	1	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－812	S	1	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－813	S	1	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－814	S	1	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－815	S	1	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－816	S	1	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－817	S	1	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－818	S	1	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－819	S	1	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－820	S	1	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－821	S	1	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－822	S	1	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－823	S	1	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－824	S	1	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－825	S	1	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－826	S	1	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－827	S	1	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－828	S	1	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－829	S	1	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－830	S	1	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－831	S	1	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－832	S	1	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－833	S	1	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－834	S	1	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－835	S	1	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－836	S	1	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－837	S	1	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－838	S	1	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－839	S	1	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－840	S	1	H	H	H	H	H	H	H	H	H	H	H	F	F

【表４９１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－841	S	1	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－842	S	1	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－843	S	1	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－844	S	1	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－845	S	1	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－846	S	1	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－847	S	1	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－848	S	1	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－849	S	1	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－850	S	1	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－851	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－852	S	1	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－853	S	1	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－854	S	1	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－855	S	1	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－856	S	1	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－857	S	1	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－858	S	1	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－859	S	1	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－860	S	1	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－861	S	1	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－862	S	1	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－863	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－864	S	1	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－865	S	1	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－866	S	1	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－867	S	1	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－868	S	1	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－869	S	1	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－870	S	1	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－871	S	1	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－872	S	1	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－873	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－874	S	1	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－875	S	1	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－876	S	1	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－877	S	1	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－878	S	1	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－879	S	1	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－880	S	1	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－881	S	1	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－882	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－883	S	1	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－884	S	1	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－885	S	1	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－886	S	1	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－887	S	1	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－888	S	1	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－889	S	1	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－890	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－891	S	1	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－892	S	1	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－893	S	1	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－894	S	1	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－895	S	1	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－896	S	1	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－897	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－898	S	1	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－899	S	1	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－900	S	1	H	H	H	H	H	H	CH_3	H	F	H	H	H	H

【表４９２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－901	S	1	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－902	S	1	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－903	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－904	S	1	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－905	S	1	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－906	S	1	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－907	S	1	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－908	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－909	S	1	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－910	S	1	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－911	S	1	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－912	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－913	S	1	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－914	S	1	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－915	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－916	S	1	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－917	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－918	S	1	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－919	S	1	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－920	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－921	S	1	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－922	S	1	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－923	S	1	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－924	S	1	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－925	S	1	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－926	S	1	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－927	S	1	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－928	S	1	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－929	S	1	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－930	S	1	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－931	S	1	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－932	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－933	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－934	S	1	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－935	S	1	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－936	S	1	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－937	S	1	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－938	S	1	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－939	S	1	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－940	S	1	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－941	S	1	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－942	S	1	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－943	S	1	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－944	S	1	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－945	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－946	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－947	S	1	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－948	S	1	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－949	S	1	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－950	S	1	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－951	S	1	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－952	S	1	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－953	S	1	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－954	S	1	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－955	S	1	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－956	S	1	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－957	S	1	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－958	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－959	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－960	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	H

【表４９３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－961	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－962	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－963	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－964	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－965	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－966	S	1	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－967	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－968	S	1	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－969	S	1	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－970	S	1	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－971	S	1	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－972	S	1	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－973	S	1	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－974	S	1	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－975	S	1	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－976	S	1	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－977	S	1	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－978	S	1	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－979	S	1	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－980	S	1	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－981	S	1	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－982	S	1	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－983	S	1	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－984	S	1	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－985	S	1	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－986	S	1	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－987	S	1	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－988	S	1	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－989	S	1	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－990	S	1	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－991	S	1	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－992	S	1	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－993	S	1	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－994	S	1	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－995	S	1	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－996	S	1	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－997	S	1	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－998	S	1	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－999	S	1	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1000	S	1	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1001	S	1	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1002	S	1	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1003	S	1	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1004	S	1	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1005	S	1	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1006	S	1	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1007	S	1	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－1008	S	1	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－1009	S	1	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1010	S	1	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1011	S	1	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1012	S	1	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1013	S	1	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1014	S	1	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1015	S	1	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1016	S	1	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1017	S	1	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1018	S	1	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1019	S	1	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1020	S	1	H	Ph	H	H	H	H	F	H	H	H	H	F	H

【表４９４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1021	S	1	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1022	S	1	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1023	S	1	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1024	S	1	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1025	S	1	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1026	S	1	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－1027	S	1	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1028	S	1	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1029	S	1	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1030	S	1	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1031	S	1	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1032	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1033	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1034	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1035	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1036	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1037	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1038	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1039	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1040	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1041	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1042	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1043	S	1	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1044	S	1	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1045	S	1	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1046	S	1	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1047	S	1	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1048	S	1	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1049	S	1	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1050	S	1	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1051	S	1	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1052	S	1	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1053	S	1	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1054	S	1	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1055	S	1	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1056	S	1	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1057	S	1	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1058	S	1	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1059	S	1	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1060	S	1	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1061	S	1	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1062	S	1	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1063	S	1	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1064	S	1	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1065	S	1	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1066	S	1	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1067	S	1	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1068	S	1	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1069	S	1	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1070	S	1	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1071	S	1	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1072	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1073	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1074	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1075	S	1	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1076	S	1	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1077	S	1	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1078	S	1	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1079	S	1	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1080	S	1	H	Tol	H	H	F	H	H	H	F	H	H	H	H

【表４９５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1081	S	1	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1082	S	1	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1083	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1084	S	1	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1085	S	1	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1086	S	1	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1087	S	1	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1088	S	1	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1089	S	1	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1090	S	1	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1091	S	1	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1092	S	1	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1093	S	1	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1094	S	1	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1095	S	1	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1096	S	1	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1097	S	1	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1098	S	1	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1099	S	1	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1100	S	1	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1101	S	1	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1102	S	1	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－1103	S	1	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1104	S	1	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1105	S	1	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－1106	S	1	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－1107	S	1	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1108	S	1	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1109	S	1	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1110	S	1	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－1111	S	1	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－1112	S	1	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－1113	S	1	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1114	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1115	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1116	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1117	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1118	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1119	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1120	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1121	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1122	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1123	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1124	S	1	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1125	S	1	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1126	S	1	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1127	S	1	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1128	S	1	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1129	S	1	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1130	S	1	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1131	S	1	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1132	S	1	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1133	S	1	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1134	S	1	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1135	S	1	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1136	S	1	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1137	S	1	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1138	S	1	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1139	S	1	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1140	S	1	H	Phen	F	H	H	H	H	H	H	F	H	H	H

【表４９６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1141	S	1	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1142	S	1	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1143	S	1	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1144	S	1	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1145	S	1	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1146	S	1	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1147	S	1	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1148	S	1	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1149	S	1	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1150	S	1	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1151	S	1	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1152	S	1	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1153	S	1	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1154	S	1	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1155	S	1	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1156	S	1	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1157	S	1	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1158	S	1	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1159	S	1	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－1160	S	1	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－1161	S	1	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1162	S	1	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1163	S	1	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1164	S	1	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1165	S	1	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1166	S	1	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1167	S	1	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1168	S	1	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1169	S	1	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1170	S	1	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1171	S	1	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1172	S	1	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1173	S	1	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1174	S	1	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1175	S	1	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1176	S	1	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1177	S	1	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1178	S	1	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－1179	S	1	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1180	S	1	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1181	S	1	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－1182	S	1	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－1183	S	1	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1184	S	1	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1185	S	1	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1186	S	1	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－1187	S	1	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－1188	S	1	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－1189	O	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1190	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1191	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1192	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1193	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1194	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1195	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1196	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1197	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1198	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1199	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1200	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H

【表４９７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1201	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1202	O	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1203	O	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1204	O	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1205	O	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－1206	O	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－1207	O	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－1208	O	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－1209	O	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－1210	O	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－1211	O	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－1212	O	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－1213	O	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－1214	O	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－1215	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－1216	O	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1217	O	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1218	O	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－1219	O	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－1220	O	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－1221	O	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－1222	O	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－1223	O	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－1224	O	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－1225	O	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－1226	O	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－1227	O	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－1228	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－1229	O	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1230	O	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1231	O	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－1232	O	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－1233	O	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－1234	O	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－1235	O	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－1236	O	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－1237	O	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－1238	O	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－1239	O	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－1240	O	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－1241	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－1242	O	2	C_6H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1243	O	2	H	C_6H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1244	O	2	H	H	C_6H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－1245	O	2	H	H	H	C_6H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－1246	O	2	H	H	H	H	C_6H_{11}	H	H	H	H	H	H	H	H
(VIII)－1247	O	2	H	H	H	H	H	C_6H_{11}	H	H	H	H	H	H	H
(VIII)－1248	O	2	H	H	H	H	H	H	C_6H_{11}	H	H	H	H	H	H
(VIII)－1249	O	2	H	H	H	H	H	H	H	C_6H_{11}	H	H	H	H	H
(VIII)－1250	O	2	H	H	H	H	H	H	H	H	C_6H_{11}	H	H	H	H
(VIII)－1251	O	2	H	H	H	H	H	H	H	H	H	C_6H_{11}	H	H	H
(VIII)－1252	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{11}	H	H
(VIII)－1253	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{11}	H
(VIII)－1254	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{11}
(VIII)－1255	O	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1256	O	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1257	O	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－1258	O	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－1259	O	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－1260	O	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H

【表４９８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1261	O	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－1262	O	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－1263	O	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－1264	O	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－1265	O	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－1266	O	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－1267	O	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－1268	O	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1269	O	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1270	O	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1271	O	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1272	O	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1273	O	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1274	O	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1275	O	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1276	O	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1277	O	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1278	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1279	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1280	O	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1281	O	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1282	O	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1283	O	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1284	O	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1285	O	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1286	O	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1287	O	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1288	O	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1289	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1290	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1291	O	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1292	O	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1293	O	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1294	O	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1295	O	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1296	O	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1297	O	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1298	O	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1299	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1300	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1301	O	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－1302	O	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－1303	O	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－1304	O	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－1305	O	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－1306	O	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－1307	O	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－1308	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－1309	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－1310	O	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－1311	O	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－1312	O	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－1313	O	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－1314	O	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－1315	O	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－1316	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－1317	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－1318	O	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－1319	O	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－1320	O	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H

【表４９９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1321	O	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－1322	O	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－1323	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－1324	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－1325	O	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－1326	O	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－1327	O	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－1328	O	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－1329	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－1330	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－1331	O	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－1332	O	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－1333	O	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－1334	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－1335	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－1336	O	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－1337	O	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－1338	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－1339	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－1340	O	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－1341	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－1342	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－1343	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－1344	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－1345	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－1346	O	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1347	O	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1348	O	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1349	O	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1350	O	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1351	O	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1352	O	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1353	O	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1354	O	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1355	O	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1356	O	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1357	O	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1358	O	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1359	O	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1360	O	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1361	O	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1362	O	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1363	O	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1364	O	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1365	O	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1366	O	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1367	O	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1368	O	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1369	O	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1370	O	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1371	O	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1372	O	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1373	O	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1374	O	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1375	O	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1376	O	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1377	O	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1378	O	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1379	O	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1380	O	2	H	F	H	H	H	H	H	H	H	H	H	F	H

【表５００】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1381	O	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1382	O	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1383	O	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1384	O	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1385	O	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1386	O	2	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1387	O	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1388	O	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1389	O	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1390	O	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1391	O	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1392	O	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1393	O	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1394	O	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1395	O	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1396	O	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1397	O	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1398	O	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1399	O	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1400	O	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1401	O	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1402	O	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1403	O	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1404	O	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1405	O	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1406	O	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－1407	O	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－1408	O	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1409	O	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1410	O	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1411	O	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1412	O	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1413	O	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1414	O	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1415	O	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1416	O	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1417	O	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1418	O	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1419	O	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1420	O	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1421	O	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1422	O	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1423	O	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1424	O	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1425	O	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1426	O	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1427	O	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－1428	O	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－1429	O	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1430	O	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1431	O	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1432	O	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－1433	O	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－1434	O	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－1435	O	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1436	O	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1437	O	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1438	O	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1439	O	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1440	O	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H

【表５０１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1441	O	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1442	O	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1443	O	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1444	O	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1445	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1446	O	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1447	O	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1448	O	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1449	O	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1450	O	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1451	O	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1452	O	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1453	O	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1454	O	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1455	O	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1456	O	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1457	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1458	O	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1459	O	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－1460	O	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－1461	O	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－1462	O	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－1463	O	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－1464	O	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－1465	O	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－1466	O	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－1467	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－1468	O	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－1469	O	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－1470	O	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－1471	O	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－1472	O	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－1473	O	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－1474	O	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－1475	O	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－1476	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－1477	O	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－1478	O	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－1479	O	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－1480	O	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－1481	O	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－1482	O	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－1483	O	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－1484	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－1485	O	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－1486	O	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－1487	O	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－1488	O	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－1489	O	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－1490	O	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－1491	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－1492	O	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－1493	O	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－1494	O	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－1495	O	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－1496	O	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－1497	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－1498	O	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－1499	O	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－1500	O	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H

【表５０２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)−1501	O	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)−1502	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)−1503	O	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)−1504	O	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)−1505	O	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)−1506	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)−1507	O	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)−1508	O	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)−1509	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)−1510	O	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)−1511	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)−1512	O	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)−1513	O	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)−1514	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1515	O	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1516	O	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)−1517	O	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)−1518	O	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)−1519	O	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)−1520	O	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)−1521	O	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)−1522	O	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)−1523	O	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)−1524	O	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)−1525	O	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)−1526	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)−1527	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1528	O	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1529	O	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)−1530	O	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)−1531	O	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)−1532	O	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)−1533	O	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)−1534	O	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)−1535	O	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)−1536	O	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)−1537	O	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)−1538	O	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)−1539	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)−1540	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1541	O	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1542	O	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)−1543	O	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)−1544	O	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)−1545	O	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)−1546	O	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)−1547	O	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)−1548	O	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)−1549	O	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)−1550	O	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)−1551	O	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)−1552	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)−1553	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)−1554	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)−1555	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)−1556	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)−1557	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)−1558	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)−1559	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)−1560	O	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H

【表５０３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1561	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1562	O	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1563	O	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1564	O	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1565	O	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1566	O	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1567	O	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1568	O	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1569	O	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1570	O	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1571	O	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1572	O	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1573	O	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1574	O	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1575	O	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1576	O	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1577	O	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1578	O	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1579	O	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1580	O	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1581	O	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1582	O	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1583	O	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1584	O	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1585	O	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1586	O	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1587	O	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1588	O	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1589	O	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1590	O	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1591	O	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1592	O	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1593	O	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1594	O	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1595	O	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1596	O	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1597	O	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1598	O	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1599	O	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1600	O	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1601	O	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－1602	O	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－1603	O	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1604	O	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1605	O	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1606	O	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1607	O	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1608	O	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1609	O	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1610	O	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1611	O	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1612	O	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1613	O	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1614	O	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1615	O	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1616	O	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1617	O	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1618	O	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1619	O	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1620	O	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F

【表５０４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1621	O	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1622	O	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1623	O	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1624	O	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1625	O	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1626	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1627	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1628	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1629	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1630	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1631	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1632	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1633	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1634	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1635	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1636	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1637	O	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1638	O	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1639	O	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1640	O	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1641	O	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1642	O	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1643	O	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1644	O	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1645	O	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1646	O	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1647	O	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1648	O	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1649	O	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1650	O	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1651	O	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1652	O	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1653	O	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1654	O	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1655	O	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1656	O	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1657	O	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1658	O	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1659	O	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1660	O	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1661	O	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1662	O	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1663	O	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1664	O	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1665	O	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1666	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1667	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1668	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1669	O	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1670	O	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1671	O	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1672	O	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1673	O	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1674	O	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1675	O	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1676	O	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1677	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1678	O	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1679	O	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1680	O	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H

【表５０５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1681	O	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1682	O	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1683	O	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1684	O	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1685	O	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1686	O	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1687	O	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1688	O	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1689	O	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1690	O	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1691	O	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1692	O	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1693	O	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1694	O	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1695	O	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1696	O	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－1697	O	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1698	O	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1699	O	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－1700	O	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－1701	O	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1702	O	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1703	O	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1704	O	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－1705	O	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－1706	O	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－1707	O	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1708	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1709	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1710	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1711	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1712	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1713	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1714	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1715	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1716	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1717	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1718	O	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1719	O	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1720	O	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1721	O	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1722	O	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1723	O	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1724	O	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1725	O	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1726	O	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1727	O	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1728	O	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1729	O	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1730	O	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1731	O	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1732	O	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－1733	O	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1734	O	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1735	O	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1736	O	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1737	O	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1738	O	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1739	O	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1740	O	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H

【表５０６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1741	O	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1742	O	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1743	O	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1744	O	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1745	O	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1746	O	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1747	O	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1748	O	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1749	O	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1750	O	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1751	O	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－1752	O	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－1753	O	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－1754	O	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－1755	O	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－1756	O	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－1757	O	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－1758	O	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－1759	O	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－1760	O	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－1761	O	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－1762	O	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－1763	O	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－1764	O	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－1765	O	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－1766	O	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－1767	O	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－1768	O	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－1769	O	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－1770	O	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－1771	O	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－1772	O	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－1773	O	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－1774	O	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－1775	O	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－1776	O	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－1777	O	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－1778	O	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－1779	O	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－1780	O	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－1781	O	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－1782	O	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－1783	S	2	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1784	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1785	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1786	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1787	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1788	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1789	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1790	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1791	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1792	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1793	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1794	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1795	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1796	S	2	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1797	S	2	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1798	S	2	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1799	S	2	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－1800	S	2	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H

【表５０７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1801	S	2	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－1802	S	2	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－1803	S	2	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－1804	S	2	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－1805	S	2	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－1806	S	2	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－1807	S	2	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－1808	S	2	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－1809	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－1810	S	2	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1811	S	2	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1812	S	2	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－1813	S	2	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－1814	S	2	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－1815	S	2	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－1816	S	2	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－1817	S	2	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－1818	S	2	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－1819	S	2	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－1820	S	2	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－1821	S	2	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－1822	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－1823	S	2	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1824	S	2	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1825	S	2	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－1826	S	2	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－1827	S	2	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－1828	S	2	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－1829	S	2	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－1830	S	2	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－1831	S	2	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－1832	S	2	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－1833	S	2	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－1834	S	2	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－1835	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－1836	S	2	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1837	S	2	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1838	S	2	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－1839	S	2	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－1840	S	2	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－1841	S	2	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－1842	S	2	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－1843	S	2	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－1844	S	2	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－1845	S	2	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－1846	S	2	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－1847	S	2	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－1848	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－1849	S	2	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1850	S	2	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1851	S	2	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－1852	S	2	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－1853	S	2	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－1854	S	2	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－1855	S	2	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－1856	S	2	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－1857	S	2	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－1858	S	2	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－1859	S	2	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－1860	S	2	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H

【表５０８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1861	S	2	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－1862	S	2	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1863	S	2	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1864	S	2	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1865	S	2	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1866	S	2	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1867	S	2	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1868	S	2	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1869	S	2	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1870	S	2	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1871	S	2	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1872	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1873	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1874	S	2	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－1875	S	2	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1876	S	2	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1877	S	2	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1878	S	2	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1879	S	2	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1880	S	2	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1881	S	2	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1882	S	2	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1883	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1884	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1885	S	2	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－1886	S	2	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－1887	S	2	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－1888	S	2	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－1889	S	2	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－1890	S	2	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－1891	S	2	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－1892	S	2	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－1893	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－1894	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－1895	S	2	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－1896	S	2	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－1897	S	2	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－1898	S	2	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－1899	S	2	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－1900	S	2	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－1901	S	2	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－1902	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－1903	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－1904	S	2	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－1905	S	2	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－1906	S	2	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－1907	S	2	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－1908	S	2	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－1909	S	2	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－1910	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－1911	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－1912	S	2	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－1913	S	2	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－1914	S	2	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－1915	S	2	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－1916	S	2	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－1917	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－1918	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－1919	S	2	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－1920	S	2	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H

【表５０９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1921	S	2	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－1922	S	2	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－1923	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－1924	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－1925	S	2	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－1926	S	2	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－1927	S	2	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－1928	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－1929	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－1930	S	2	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－1931	S	2	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－1932	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－1933	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－1934	S	2	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－1935	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－1936	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－1937	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－1938	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－1939	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－1940	S	2	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1941	S	2	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1942	S	2	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1943	S	2	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1944	S	2	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1945	S	2	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1946	S	2	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1947	S	2	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1948	S	2	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1949	S	2	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1950	S	2	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1951	S	2	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1952	S	2	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1953	S	2	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－1954	S	2	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1955	S	2	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1956	S	2	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1957	S	2	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1958	S	2	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1959	S	2	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1960	S	2	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1961	S	2	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1962	S	2	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1963	S	2	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1964	S	2	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1965	S	2	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－1966	S	2	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－1967	S	2	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－1968	S	2	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－1969	S	2	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－1970	S	2	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－1971	S	2	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－1972	S	2	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－1973	S	2	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－1974	S	2	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－1975	S	2	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－1976	S	2	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－1977	S	2	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－1978	S	2	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－1979	S	2	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－1980	S	2	H	H	F	H	H	H	H	F	H	H	H	H	H

【表５１０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－1981	S	2	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－1982	S	2	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－1983	S	2	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－1984	S	2	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－1985	S	2	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－1986	S	2	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－1987	S	2	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－1988	S	2	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－1989	S	2	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－1990	S	2	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－1991	S	2	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－1992	S	2	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－1993	S	2	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－1994	S	2	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－1995	S	2	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－1996	S	2	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－1997	S	2	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－1998	S	2	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－1999	S	2	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2000	S	2	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2001	S	2	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2002	S	2	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2003	S	2	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2004	S	2	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2005	S	2	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2006	S	2	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2007	S	2	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2008	S	2	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2009	S	2	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2010	S	2	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2011	S	2	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2012	S	2	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2013	S	2	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2014	S	2	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2015	S	2	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2016	S	2	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2017	S	2	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2018	S	2	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2019	S	2	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2020	S	2	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2021	S	2	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2022	S	2	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2023	S	2	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2024	S	2	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2025	S	2	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2026	S	2	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2027	S	2	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2028	S	2	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2029	S	2	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2030	S	2	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2031	S	2	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2032	S	2	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2033	S	2	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2034	S	2	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2035	S	2	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2036	S	2	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2037	S	2	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2038	S	2	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2039	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2040	S	2	CH_3	H	H	H	H	H	H	H	H	H	H	H	F

【表５１１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2041	S	2	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2042	S	2	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2043	S	2	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2044	S	2	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2045	S	2	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2046	S	2	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2047	S	2	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2048	S	2	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2049	S	2	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2050	S	2	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2051	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2052	S	2	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2053	S	2	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－2054	S	2	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－2055	S	2	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－2056	S	2	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－2057	S	2	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－2058	S	2	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－2059	S	2	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－2060	S	2	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－2061	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－2062	S	2	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－2063	S	2	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－2064	S	2	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－2065	S	2	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－2066	S	2	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－2067	S	2	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－2068	S	2	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－2069	S	2	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－2070	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－2071	S	2	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－2072	S	2	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－2073	S	2	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－2074	S	2	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－2075	S	2	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－2076	S	2	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－2077	S	2	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－2078	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－2079	S	2	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－2080	S	2	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－2081	S	2	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－2082	S	2	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－2083	S	2	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－2084	S	2	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－2085	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－2086	S	2	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－2087	S	2	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－2088	S	2	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－2089	S	2	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－2090	S	2	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－2091	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－2092	S	2	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－2093	S	2	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－2094	S	2	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－2095	S	2	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－2096	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－2097	S	2	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－2098	S	2	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－2099	S	2	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－2100	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	F	H

【表５１２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2101	S	2	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－2102	S	2	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－2103	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－2104	S	2	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－2105	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－2106	S	2	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－2107	S	2	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－2108	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2109	S	2	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2110	S	2	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2111	S	2	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2112	S	2	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2113	S	2	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2114	S	2	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2115	S	2	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2116	S	2	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2117	S	2	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2118	S	2	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2119	S	2	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2120	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2121	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2122	S	2	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2123	S	2	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2124	S	2	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2125	S	2	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2126	S	2	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2127	S	2	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2128	S	2	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2129	S	2	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2130	S	2	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2131	S	2	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2132	S	2	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2133	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2134	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2135	S	2	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2136	S	2	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2137	S	2	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2138	S	2	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2139	S	2	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2140	S	2	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2141	S	2	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2142	S	2	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2143	S	2	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2144	S	2	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2145	S	2	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2146	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2147	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2148	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2149	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2150	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2151	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2152	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2153	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2154	S	2	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2155	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2156	S	2	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2157	S	2	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2158	S	2	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2159	S	2	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2160	S	2	F	Ph	H	F	H	H	H	H	H	H	H	H	H

【表５１３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2161	S	2	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2162	S	2	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2163	S	2	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2164	S	2	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2165	S	2	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2166	S	2	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2167	S	2	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2168	S	2	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2169	S	2	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2170	S	2	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2171	S	2	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2172	S	2	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2173	S	2	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2174	S	2	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2175	S	2	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2176	S	2	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2177	S	2	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2178	S	2	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2179	S	2	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2180	S	2	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2181	S	2	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2182	S	2	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2183	S	2	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2184	S	2	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2185	S	2	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2186	S	2	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2187	S	2	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2188	S	2	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2189	S	2	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2190	S	2	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2191	S	2	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2192	S	2	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2193	S	2	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2194	S	2	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2195	S	2	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2196	S	2	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2197	S	2	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2198	S	2	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2199	S	2	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2200	S	2	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2201	S	2	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2202	S	2	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2203	S	2	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2204	S	2	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2205	S	2	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2206	S	2	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2207	S	2	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2208	S	2	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2209	S	2	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2210	S	2	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2211	S	2	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2212	S	2	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2213	S	2	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2214	S	2	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2215	S	2	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2216	S	2	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2217	S	2	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2218	S	2	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2219	S	2	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2220	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	H

【表５１４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2221	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2222	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2223	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2224	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2225	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2226	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2227	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2228	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2229	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2230	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2231	S	2	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2232	S	2	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2233	S	2	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2234	S	2	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2235	S	2	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2236	S	2	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2237	S	2	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2238	S	2	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2239	S	2	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2240	S	2	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2241	S	2	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2242	S	2	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2243	S	2	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2244	S	2	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2245	S	2	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2246	S	2	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2247	S	2	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2248	S	2	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2249	S	2	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2250	S	2	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2251	S	2	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2252	S	2	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2253	S	2	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2254	S	2	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2255	S	2	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2256	S	2	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2257	S	2	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2258	S	2	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2259	S	2	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2260	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2261	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2262	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2263	S	2	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2264	S	2	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2265	S	2	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2266	S	2	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2267	S	2	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2268	S	2	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2269	S	2	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2270	S	2	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2271	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2272	S	2	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2273	S	2	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2274	S	2	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2275	S	2	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2276	S	2	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2277	S	2	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2278	S	2	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2279	S	2	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2280	S	2	H	Tol	H	H	H	H	F	F	H	H	H	H	H

【表５１５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2281	S	2	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2282	S	2	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2283	S	2	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2284	S	2	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2285	S	2	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2286	S	2	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2287	S	2	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2288	S	2	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2289	S	2	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2290	S	2	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2291	S	2	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2292	S	2	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2293	S	2	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2294	S	2	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2295	S	2	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2296	S	2	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2297	S	2	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2298	S	2	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2299	S	2	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2300	S	2	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2301	S	2	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2302	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2303	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2304	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2305	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2306	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2307	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2308	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2309	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2310	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2311	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2312	S	2	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2313	S	2	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2314	S	2	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2315	S	2	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2316	S	2	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2317	S	2	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2318	S	2	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2319	S	2	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2320	S	2	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2321	S	2	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2322	S	2	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2323	S	2	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2324	S	2	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2325	S	2	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2326	S	2	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2327	S	2	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2328	S	2	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2329	S	2	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2330	S	2	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2331	S	2	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2332	S	2	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2333	S	2	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2334	S	2	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2335	S	2	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2336	S	2	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2337	S	2	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2338	S	2	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2339	S	2	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2340	S	2	H	Phen	H	F	H	H	H	H	H	H	H	H	F

【表５１６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2341	S	2	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2342	S	2	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2343	S	2	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2344	S	2	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2345	S	2	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2346	S	2	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2347	S	2	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2348	S	2	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2349	S	2	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2350	S	2	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2351	S	2	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2352	S	2	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2353	S	2	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2354	S	2	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2355	S	2	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2356	S	2	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2357	S	2	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2358	S	2	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2359	S	2	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2360	S	2	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2361	S	2	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2362	S	2	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2363	S	2	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2364	S	2	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2365	S	2	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2366	S	2	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2367	S	2	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2368	S	2	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2369	S	2	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2370	S	2	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2371	S	2	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2372	S	2	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2373	S	2	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2374	S	2	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2375	S	2	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2376	S	2	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2377	O	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2378	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2379	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2380	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2381	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2382	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2383	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2384	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2385	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2386	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2387	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2388	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2389	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2390	O	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2391	O	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2392	O	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2393	O	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－2394	O	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－2395	O	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－2396	O	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－2397	O	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－2398	O	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－2399	O	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－2400	O	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H

【表５１７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2401	O	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－2402	O	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－2403	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－2404	O	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2405	O	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2406	O	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－2407	O	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－2408	O	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－2409	O	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－2410	O	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－2411	O	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－2412	O	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－2413	O	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－2414	O	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－2415	O	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－2416	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－2417	O	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2418	O	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2419	O	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－2420	O	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－2421	O	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－2422	O	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－2423	O	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－2424	O	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－2425	O	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－2426	O	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－2427	O	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－2428	O	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－2429	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－2430	O	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2431	O	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2432	O	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－2433	O	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－2434	O	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－2435	O	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－2436	O	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－2437	O	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－2438	O	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－2439	O	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－2440	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{11}	H	H
(VIII)－2441	O	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－2442	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－2443	O	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2444	O	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2445	O	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－2446	O	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－2447	O	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－2448	O	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－2449	O	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－2450	O	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－2451	O	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－2452	O	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－2453	O	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－2454	O	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－2455	O	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－2456	O	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2457	O	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2458	O	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2459	O	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2460	O	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H

【表５１８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2461	O	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2462	O	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2463	O	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2464	O	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2465	O	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2466	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2467	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2468	O	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2469	O	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2470	O	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2471	O	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2472	O	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2473	O	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2474	O	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2475	O	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2476	O	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2477	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2478	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2479	O	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2480	O	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2481	O	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2482	O	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2483	O	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2484	O	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2485	O	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2486	O	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2487	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2488	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2489	O	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－2490	O	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－2491	O	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－2492	O	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－2493	O	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－2494	O	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－2495	O	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－2496	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－2497	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－2498	O	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－2499	O	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－2500	O	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－2501	O	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－2502	O	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－2503	O	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－2504	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－2505	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－2506	O	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－2507	O	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－2508	O	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－2509	O	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－2510	O	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－2511	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－2512	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－2513	O	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－2514	O	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－2515	O	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－2516	O	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－2517	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－2518	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－2519	O	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－2520	O	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H

【表５１９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2521	O	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－2522	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－2523	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－2524	O	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－2525	O	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－2526	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－2527	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－2528	O	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－2529	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－2530	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－2531	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－2532	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－2533	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－2534	O	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2535	O	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2536	O	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2537	O	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2538	O	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2539	O	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2540	O	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2541	O	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2542	O	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2543	O	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2544	O	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2545	O	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2546	O	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2547	O	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2548	O	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2549	O	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2550	O	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2551	O	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2552	O	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2553	O	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2554	O	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2555	O	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2556	O	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2557	O	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2558	O	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2559	O	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2560	O	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2561	O	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2562	O	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2563	O	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2564	O	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2565	O	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2566	O	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2567	O	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2568	O	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2569	O	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2570	O	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2571	O	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2572	O	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2573	O	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2574	O	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2575	O	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2576	O	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2577	O	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2578	O	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2579	O	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2580	O	3	H	H	H	F	F	H	H	H	H	H	H	H	H

【表５２０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2581	O	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2582	O	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2583	O	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2584	O	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2585	O	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2586	O	3	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2587	O	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2588	O	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2589	O	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2590	O	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2591	O	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2592	O	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2593	O	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2594	O	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2595	O	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2596	O	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2597	O	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2598	O	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2599	O	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2600	O	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2601	O	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2602	O	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2603	O	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2604	O	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2605	O	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2606	O	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2607	O	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2608	O	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2609	O	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2610	O	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2611	O	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2612	O	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2613	O	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2614	O	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2615	O	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2616	O	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2617	O	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2618	O	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2619	O	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2620	O	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2621	O	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2622	O	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2623	O	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2624	O	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2625	O	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2626	O	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2627	O	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2628	O	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2629	O	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2630	O	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2631	O	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2632	O	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2633	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2634	O	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2635	O	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2636	O	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2637	O	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2638	O	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2639	O	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2640	O	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H

【表５２１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2641	O	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2642	O	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2643	O	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2644	O	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2645	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2646	O	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2647	O	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－2648	O	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－2649	O	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－2650	O	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－2651	O	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－2652	O	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－2653	O	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－2654	O	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－2655	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－2656	O	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－2657	O	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－2658	O	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－2659	O	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－2660	O	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－2661	O	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－2662	O	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－2663	O	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－2664	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－2665	O	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－2666	O	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－2667	O	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－2668	O	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－2669	O	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－2670	O	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－2671	O	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－2672	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－2673	O	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－2674	O	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－2675	O	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－2676	O	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－2677	O	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－2678	O	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－2679	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－2680	O	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－2681	O	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－2682	O	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－2683	O	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－2684	O	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－2685	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－2686	O	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－2687	O	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－2688	O	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－2689	O	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－2690	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－2691	O	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－2692	O	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－2693	O	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－2694	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－2695	O	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－2696	O	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－2697	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－2698	O	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－2699	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－2700	O	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F

【表５２２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2701	O	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－2702	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2703	O	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2704	O	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2705	O	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2706	O	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2707	O	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2708	O	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2709	O	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2710	O	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2711	O	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2712	O	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2713	O	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2714	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2715	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2716	O	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2717	O	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2718	O	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2719	O	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2720	O	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2721	O	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2722	O	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2723	O	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2724	O	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2725	O	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2726	O	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2727	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2728	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2729	O	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2730	O	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2731	O	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2732	O	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2733	O	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2734	O	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2735	O	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2736	O	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2737	O	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2738	O	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2739	O	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2740	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2741	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2742	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2743	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2744	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2745	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2746	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2747	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2748	O	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2749	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2750	O	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2751	O	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2752	O	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2753	O	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2754	O	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2755	O	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2756	O	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2757	O	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2758	O	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2759	O	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2760	O	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H

【表５２３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2761	O	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2762	O	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2763	O	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2764	O	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2765	O	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2766	O	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2767	O	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2768	O	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2769	O	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2770	O	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2771	O	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2772	O	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2773	O	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2774	O	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2775	O	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2776	O	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2777	O	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2778	O	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2779	O	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2780	O	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2781	O	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2782	O	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2783	O	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2784	O	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2785	O	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2786	O	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2787	O	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2788	O	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2789	O	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2790	O	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2791	O	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2792	O	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2793	O	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2794	O	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2795	O	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2796	O	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2797	O	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2798	O	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2799	O	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2800	O	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2801	O	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2802	O	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2803	O	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2804	O	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2805	O	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2806	O	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2807	O	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2808	O	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2809	O	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2810	O	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2811	O	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2812	O	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2813	O	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2814	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2815	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2816	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2817	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2818	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2819	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2820	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H

【表５２４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2821	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2822	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2823	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2824	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2825	O	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2826	O	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2827	O	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2828	O	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2829	O	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2830	O	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2831	O	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2832	O	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2833	O	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2834	O	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2835	O	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2836	O	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2837	O	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2838	O	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2839	O	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2840	O	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2841	O	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2842	O	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2843	O	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2844	O	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2845	O	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2846	O	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2847	O	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2848	O	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2849	O	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2850	O	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2851	O	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2852	O	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2853	O	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2854	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2855	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2856	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2857	O	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2858	O	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2859	O	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2860	O	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2861	O	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2862	O	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2863	O	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2864	O	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－2865	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2866	O	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2867	O	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2868	O	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2869	O	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2870	O	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2871	O	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2872	O	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2873	O	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2874	O	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2875	O	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2876	O	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2877	O	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2878	O	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2879	O	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2880	O	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H

【表５２５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2881	O	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2882	O	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2883	O	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2884	O	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2885	O	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2886	O	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2887	O	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2888	O	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2889	O	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2890	O	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2891	O	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2892	O	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2893	O	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2894	O	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2895	O	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2896	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2897	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2898	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2899	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2900	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2901	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2902	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2903	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2904	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2905	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－2906	O	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－2907	O	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－2908	O	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－2909	O	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－2910	O	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－2911	O	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－2912	O	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－2913	O	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－2914	O	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－2915	O	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－2916	O	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－2917	O	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－2918	O	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－2919	O	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－2920	O	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－2921	O	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－2922	O	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－2923	O	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－2924	O	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－2925	O	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－2926	O	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－2927	O	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－2928	O	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－2929	O	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－2930	O	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－2931	O	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－2932	O	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－2933	O	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－2934	O	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－2935	O	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－2936	O	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－2937	O	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－2938	O	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－2939	O	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－2940	O	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H

【表５２６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－2941	O	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－2942	O	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－2943	O	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－2944	O	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－2945	O	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－2946	O	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－2947	O	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－2948	O	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－2949	O	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－2950	O	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－2951	O	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－2952	O	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－2953	O	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－2954	O	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－2955	O	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－2956	O	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－2957	O	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－2958	O	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－2959	O	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－2960	O	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－2961	O	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－2962	O	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－2963	O	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－2964	O	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－2965	O	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－2966	O	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－2967	O	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－2968	O	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－2969	O	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－2970	O	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－2971	S	3	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2972	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2973	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2974	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－2975	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－2976	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－2977	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－2978	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－2979	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－2980	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－2981	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－2982	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－2983	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－2984	S	3	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－2985	S	3	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2986	S	3	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2987	S	3	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－2988	S	3	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－2989	S	3	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－2990	S	3	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－2991	S	3	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－2992	S	3	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－2993	S	3	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－2994	S	3	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－2995	S	3	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－2996	S	3	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－2997	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－2998	S	3	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－2999	S	3	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3000	S	3	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H

【表５２７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3001	S	3	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－3002	S	3	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－3003	S	3	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－3004	S	3	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－3005	S	3	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－3006	S	3	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－3007	S	3	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－3008	S	3	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－3009	S	3	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－3010	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－3011	S	3	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3012	S	3	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3013	S	3	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－3014	S	3	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－3015	S	3	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－3016	S	3	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－3017	S	3	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－3018	S	3	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－3019	S	3	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－3020	S	3	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－3021	S	3	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－3022	S	3	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－3023	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－3024	S	3	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3025	S	3	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3026	S	3	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－3027	S	3	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－3028	S	3	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－3029	S	3	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－3030	S	3	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－3031	S	3	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－3032	S	3	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－3033	S	3	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－3034	S	3	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－3035	S	3	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－3036	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－3037	S	3	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3038	S	3	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3039	S	3	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－3040	S	3	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－3041	S	3	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－3042	S	3	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－3043	S	3	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－3044	S	3	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－3045	S	3	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－3046	S	3	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－3047	S	3	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－3048	S	3	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－3049	S	3	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－3050	S	3	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3051	S	3	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3052	S	3	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3053	S	3	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3054	S	3	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3055	S	3	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3056	S	3	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3057	S	3	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3058	S	3	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3059	S	3	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3060	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H

【表５２８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3061	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3062	S	3	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3063	S	3	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3064	S	3	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3065	S	3	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3066	S	3	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3067	S	3	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3068	S	3	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3069	S	3	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3070	S	3	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3071	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3072	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3073	S	3	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3074	S	3	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3075	S	3	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3076	S	3	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3077	S	3	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3078	S	3	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3079	S	3	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3080	S	3	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3081	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3082	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3083	S	3	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－3084	S	3	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－3085	S	3	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－3086	S	3	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－3087	S	3	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－3088	S	3	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－3089	S	3	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－3090	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－3091	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－3092	S	3	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－3093	S	3	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－3094	S	3	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－3095	S	3	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－3096	S	3	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－3097	S	3	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－3098	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－3099	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－3100	S	3	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－3101	S	3	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－3102	S	3	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－3103	S	3	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－3104	S	3	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－3105	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－3106	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－3107	S	3	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－3108	S	3	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－3109	S	3	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－3110	S	3	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－3111	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－3112	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－3113	S	3	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－3114	S	3	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－3115	S	3	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－3116	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－3117	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－3118	S	3	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－3119	S	3	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－3120	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H

【表５２９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3121	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－3122	S	3	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－3123	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－3124	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－3125	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－3126	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－3127	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－3128	S	3	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3129	S	3	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3130	S	3	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3131	S	3	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3132	S	3	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3133	S	3	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3134	S	3	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3135	S	3	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3136	S	3	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3137	S	3	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3138	S	3	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3139	S	3	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3140	S	3	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3141	S	3	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3142	S	3	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3143	S	3	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3144	S	3	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3145	S	3	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3146	S	3	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3147	S	3	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3148	S	3	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3149	S	3	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3150	S	3	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3151	S	3	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3152	S	3	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3153	S	3	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3154	S	3	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3155	S	3	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3156	S	3	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3157	S	3	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3158	S	3	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3159	S	3	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3160	S	3	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3161	S	3	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3162	S	3	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3163	S	3	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3164	S	3	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3165	S	3	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3166	S	3	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－3167	S	3	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3168	S	3	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3169	S	3	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3170	S	3	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3171	S	3	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3172	S	3	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－3173	S	3	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3174	S	3	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3175	S	3	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3176	S	3	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3177	S	3	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3178	S	3	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3179	S	3	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3180	S	3	H	H	H	F	H	H	H	H	H	H	F	H	H

【表５３０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3181	S	3	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3182	S	3	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3183	S	3	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3184	S	3	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3185	S	3	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3186	S	3	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－3187	S	3	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3188	S	3	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－3189	S	3	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－3190	S	3	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3191	S	3	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3192	S	3	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3193	S	3	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3194	S	3	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－3195	S	3	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3196	S	3	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3197	S	3	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3198	S	3	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3199	S	3	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3200	S	3	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3201	S	3	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3202	S	3	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3203	S	3	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3204	S	3	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3205	S	3	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3206	S	3	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3207	S	3	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3208	S	3	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－3209	S	3	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－3210	S	3	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－3211	S	3	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－3212	S	3	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－3213	S	3	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－3214	S	3	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－3215	S	3	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－3216	S	3	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－3217	S	3	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3218	S	3	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3219	S	3	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3220	S	3	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3221	S	3	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3222	S	3	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3223	S	3	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3224	S	3	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3225	S	3	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3226	S	3	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3227	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3228	S	3	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3229	S	3	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3230	S	3	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3231	S	3	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3232	S	3	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3233	S	3	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3234	S	3	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3235	S	3	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3236	S	3	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3237	S	3	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3238	S	3	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3239	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3240	S	3	H	CH_3	H	H	H	H	H	H	H	H	H	H	F

【表５３１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3241	S	3	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－3242	S	3	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－3243	S	3	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－3244	S	3	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－3245	S	3	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－3246	S	3	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－3247	S	3	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－3248	S	3	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－3249	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－3250	S	3	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－3251	S	3	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－3252	S	3	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－3253	S	3	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－3254	S	3	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－3255	S	3	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－3256	S	3	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－3257	S	3	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－3258	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－3259	S	3	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－3260	S	3	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－3261	S	3	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－3262	S	3	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－3263	S	3	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－3264	S	3	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－3265	S	3	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－3266	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－3267	S	3	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－3268	S	3	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－3269	S	3	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－3270	S	3	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－3271	S	3	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－3272	S	3	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－3273	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－3274	S	3	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－3275	S	3	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－3276	S	3	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－3277	S	3	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－3278	S	3	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－3279	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－3280	S	3	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－3281	S	3	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－3282	S	3	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－3283	S	3	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－3284	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－3285	S	3	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－3286	S	3	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－3287	S	3	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－3288	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－3289	S	3	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－3290	S	3	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－3291	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－3292	S	3	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－3293	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－3294	S	3	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－3295	S	3	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－3296	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3297	S	3	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3298	S	3	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3299	S	3	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3300	S	3	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H

【表５３２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3301	S	3	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3302	S	3	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3303	S	3	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3304	S	3	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3305	S	3	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3306	S	3	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3307	S	3	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3308	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3309	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3310	S	3	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3311	S	3	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3312	S	3	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3313	S	3	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3314	S	3	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3315	S	3	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3316	S	3	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3317	S	3	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3318	S	3	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3319	S	3	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3320	S	3	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3321	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3322	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3323	S	3	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3324	S	3	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3325	S	3	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3326	S	3	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3327	S	3	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3328	S	3	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3329	S	3	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3330	S	3	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3331	S	3	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3332	S	3	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3333	S	3	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3334	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3335	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3336	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3337	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3338	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3339	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3340	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3341	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3342	S	3	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3343	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3344	S	3	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3345	S	3	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3346	S	3	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3347	S	3	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3348	S	3	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3349	S	3	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3350	S	3	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3351	S	3	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3352	S	3	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3353	S	3	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3354	S	3	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3355	S	3	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3356	S	3	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3357	S	3	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3358	S	3	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3359	S	3	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3360	S	3	H	Ph	F	H	H	F	H	H	H	H	H	H	H

【表５３３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3361	S	3	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3362	S	3	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3363	S	3	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3364	S	3	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3365	S	3	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3366	S	3	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－3367	S	3	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3368	S	3	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3369	S	3	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3370	S	3	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3371	S	3	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3372	S	3	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3373	S	3	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3374	S	3	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－3375	S	3	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3376	S	3	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3377	S	3	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3378	S	3	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3379	S	3	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3380	S	3	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－3381	S	3	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3382	S	3	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3383	S	3	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－3384	S	3	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－3385	S	3	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3386	S	3	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3387	S	3	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3388	S	3	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－3389	S	3	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3390	S	3	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3391	S	3	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3392	S	3	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3393	S	3	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3394	S	3	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3395	S	3	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3396	S	3	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3397	S	3	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3398	S	3	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3399	S	3	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3400	S	3	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3401	S	3	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－3402	S	3	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－3403	S	3	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3404	S	3	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－3405	S	3	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－3406	S	3	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－3407	S	3	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－3408	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3409	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3410	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3411	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3412	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3413	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3414	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3415	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3416	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3417	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3418	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3419	S	3	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3420	S	3	F	Tol	F	H	H	H	H	H	H	H	H	H	H

【表５３４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3421	S	3	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3422	S	3	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3423	S	3	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3424	S	3	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3425	S	3	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3426	S	3	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3427	S	3	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3428	S	3	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3429	S	3	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3430	S	3	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3431	S	3	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3432	S	3	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3433	S	3	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－3434	S	3	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3435	S	3	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3436	S	3	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3437	S	3	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3438	S	3	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3439	S	3	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－3440	S	3	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3441	S	3	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3442	S	3	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3443	S	3	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3444	S	3	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3445	S	3	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3446	S	3	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3447	S	3	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－3448	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3449	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3450	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3451	S	3	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3452	S	3	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3453	S	3	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3454	S	3	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3455	S	3	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3456	S	3	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－3457	S	3	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3458	S	3	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3459	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3460	S	3	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3461	S	3	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3462	S	3	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3463	S	3	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3464	S	3	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－3465	S	3	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3466	S	3	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3467	S	3	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3468	S	3	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3469	S	3	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3470	S	3	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3471	S	3	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3472	S	3	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3473	S	3	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3474	S	3	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3475	S	3	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3476	S	3	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3477	S	3	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－3478	S	3	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－3479	S	3	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3480	S	3	H	Tol	H	H	H	H	H	H	F	H	F	H	H

【表５３５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3481	S	3	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－3482	S	3	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－3483	S	3	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－3484	S	3	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－3485	S	3	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－3486	S	3	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－3487	S	3	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－3488	S	3	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－3489	S	3	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3490	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3491	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3492	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3493	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3494	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3495	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3496	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3497	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3498	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3499	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3500	S	3	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3501	S	3	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3502	S	3	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3503	S	3	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3504	S	3	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3505	S	3	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3506	S	3	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3507	S	3	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3508	S	3	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3509	S	3	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3510	S	3	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3511	S	3	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3512	S	3	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－3513	S	3	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3514	S	3	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3515	S	3	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3516	S	3	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3517	S	3	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3518	S	3	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－3519	S	3	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3520	S	3	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3521	S	3	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3522	S	3	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3523	S	3	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3524	S	3	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3525	S	3	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3526	S	3	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－3527	S	3	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3528	S	3	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3529	S	3	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3530	S	3	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3531	S	3	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3532	S	3	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－3533	S	3	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3534	S	3	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3535	S	3	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－3536	S	3	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－3537	S	3	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3538	S	3	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3539	S	3	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3540	S	3	H	Phen	H	H	H	F	H	H	H	F	H	H	H

【表５３６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3541	S	3	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3542	S	3	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3543	S	3	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3544	S	3	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3545	S	3	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3546	S	3	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3547	S	3	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3548	S	3	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3549	S	3	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3550	S	3	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3551	S	3	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3552	S	3	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3553	S	3	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－3554	S	3	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－3555	S	3	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3556	S	3	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－3557	S	3	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－3558	S	3	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－3559	S	3	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－3560	S	3	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－3561	S	3	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－3562	S	3	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－3563	S	3	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－3564	S	3	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－3565	O	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3566	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3567	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3568	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3569	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3570	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3571	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3572	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3573	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3574	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3575	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3576	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3577	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3578	O	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3579	O	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3580	O	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3581	O	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－3582	O	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－3583	O	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－3584	O	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－3585	O	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－3586	O	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－3587	O	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－3588	O	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－3589	O	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－3590	O	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－3591	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－3592	O	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3593	O	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3594	O	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－3595	O	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－3596	O	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－3597	O	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－3598	O	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－3599	O	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－3600	O	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H

【表５３７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3601	O	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－3602	O	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－3603	O	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－3604	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－3605	O	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3606	O	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3607	O	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－3608	O	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－3609	O	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－3610	O	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－3611	O	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－3612	O	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－3613	O	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－3614	O	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－3615	O	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－3616	O	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－3617	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－3618	O	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3619	O	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3620	O	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－3621	O	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－3622	O	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－3623	O	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－3624	O	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－3625	O	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－3626	O	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－3627	O	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－3628	O	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－3629	O	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－3630	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－3631	O	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3632	O	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3633	O	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－3634	O	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－3635	O	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－3636	O	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－3637	O	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－3638	O	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－3639	O	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－3640	O	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－3641	O	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－3642	O	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－3643	O	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－3644	O	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3645	O	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3646	O	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3647	O	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3648	O	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3649	O	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3650	O	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3651	O	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3652	O	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3653	O	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3654	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3655	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3656	O	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3657	O	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3658	O	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3659	O	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3660	O	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H

【表５３８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3661	O	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3662	O	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3663	O	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3664	O	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3665	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3666	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3667	O	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3668	O	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3669	O	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3670	O	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3671	O	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3672	O	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3673	O	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3674	O	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3675	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3676	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3677	O	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－3678	O	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－3679	O	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－3680	O	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－3681	O	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－3682	O	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－3683	O	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－3684	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－3685	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－3686	O	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－3687	O	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－3688	O	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－3689	O	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－3690	O	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－3691	O	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－3692	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－3693	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－3694	O	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－3695	O	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－3696	O	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－3697	O	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－3698	O	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－3699	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－3700	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－3701	O	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－3702	O	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－3703	O	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－3704	O	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－3705	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－3706	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－3707	O	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－3708	O	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－3709	O	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－3710	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－3711	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－3712	O	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－3713	O	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－3714	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－3715	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－3716	O	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－3717	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－3718	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－3719	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－3720	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3

【表５３９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3721	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－3722	O	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3723	O	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3724	O	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3725	O	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3726	O	4	H	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3727	O	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3728	O	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3729	O	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3730	O	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3731	O	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3732	O	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3733	O	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3734	O	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3735	O	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3736	O	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3737	O	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3738	O	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3739	O	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3740	O	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3741	O	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3742	O	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3743	O	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3744	O	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3745	O	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3746	O	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3747	O	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3748	O	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3749	O	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3750	O	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3751	O	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3752	O	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3753	O	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3754	O	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3755	O	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3756	O	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3757	O	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3758	O	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3759	O	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3760	O	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－3761	O	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3762	O	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3763	O	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3764	O	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3765	O	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3766	O	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－3767	O	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3768	O	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3769	O	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3770	O	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3771	O	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3772	O	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3773	O	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3774	O	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－3775	O	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3776	O	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3777	O	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3778	O	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3779	O	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3780	O	4	H	H	H	H	F	H	H	H	F	H	H	H	H

【表５４０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3781	O	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3782	O	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－3783	O	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－3784	O	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3785	O	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3786	O	4	H	H	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3787	O	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3788	O	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－3789	O	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3790	O	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3791	O	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3792	O	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3793	O	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3794	O	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3795	O	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3796	O	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3797	O	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3798	O	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3799	O	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3800	O	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3801	O	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3802	O	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－3803	O	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－3804	O	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－3805	O	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－3806	O	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－3807	O	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－3808	O	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－3809	O	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－3810	O	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－3811	O	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3812	O	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3813	O	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3814	O	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3815	O	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3816	O	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3817	O	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3818	O	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3819	O	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3820	O	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3821	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3822	O	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3823	O	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3824	O	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3825	O	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3826	O	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3827	O	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3828	O	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3829	O	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3830	O	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3831	O	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3832	O	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3833	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3834	O	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3835	O	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－3836	O	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－3837	O	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－3838	O	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－3839	O	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－3840	O	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H

【表５４１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3841	O	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－3842	O	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－3843	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－3844	O	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－3845	O	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－3846	O	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H
(VIII)－3847	O	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－3848	O	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－3849	O	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－3850	O	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－3851	O	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－3852	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－3853	O	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－3854	O	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－3855	O	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－3856	O	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－3857	O	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－3858	O	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－3859	O	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－3860	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－3861	O	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－3862	O	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－3863	O	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－3864	O	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－3865	O	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－3866	O	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－3867	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－3868	O	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－3869	O	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－3870	O	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－3871	O	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－3872	O	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－3873	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－3874	O	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－3875	O	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－3876	O	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－3877	O	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－3878	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－3879	O	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－3880	O	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－3881	O	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－3882	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－3883	O	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－3884	O	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－3885	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－3886	O	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－3887	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－3888	O	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－3889	O	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－3890	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3891	O	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3892	O	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3893	O	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3894	O	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3895	O	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3896	O	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3897	O	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3898	O	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3899	O	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3900	O	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H

【表５４２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3901	O	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3902	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3903	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3904	O	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3905	O	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3906	O	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3907	O	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3908	O	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3909	O	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3910	O	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3911	O	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3912	O	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3913	O	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3914	O	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3915	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3916	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3917	O	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3918	O	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－3919	O	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－3920	O	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－3921	O	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－3922	O	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－3923	O	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－3924	O	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－3925	O	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－3926	O	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－3927	O	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－3928	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－3929	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－3930	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3931	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3932	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3933	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3934	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3935	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3936	O	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3937	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3938	O	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3939	O	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3940	O	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3941	O	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－3942	O	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－3943	O	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－3944	O	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－3945	O	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－3946	O	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－3947	O	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－3948	O	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－3949	O	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－3950	O	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－3951	O	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－3952	O	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－3953	O	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－3954	O	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－3955	O	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－3956	O	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－3957	O	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－3958	O	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－3959	O	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－3960	O	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H

【表５４３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－3961	O	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－3962	O	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－3963	O	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－3964	O	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－3965	O	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－3966	O	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H
(VIII)－3967	O	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－3968	O	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－3969	O	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－3970	O	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－3971	O	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－3972	O	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－3973	O	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－3974	O	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－3975	O	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－3976	O	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－3977	O	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－3978	O	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－3979	O	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－3980	O	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－3981	O	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－3982	O	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－3983	O	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－3984	O	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－3985	O	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－3986	O	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－3987	O	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－3988	O	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－3989	O	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－3990	O	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－3991	O	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－3992	O	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－3993	O	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－3994	O	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－3995	O	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－3996	O	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－3997	O	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－3998	O	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－3999	O	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4000	O	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4001	O	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4002	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4003	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4004	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4005	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4006	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4007	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4008	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4009	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4010	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4011	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4012	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4013	O	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4014	O	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4015	O	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4016	O	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4017	O	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4018	O	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4019	O	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4020	O	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H

【表５４４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4021	O	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4022	O	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4023	O	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4024	O	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4025	O	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4026	O	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H
(VIII)－4027	O	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4028	O	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4029	O	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4030	O	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4031	O	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4032	O	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4033	O	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4034	O	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4035	O	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4036	O	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4037	O	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4038	O	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4039	O	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－4040	O	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4041	O	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4042	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4043	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4044	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4045	O	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4046	O	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4047	O	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4048	O	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4049	O	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4050	O	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4051	O	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4052	O	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4053	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4054	O	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4055	O	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4056	O	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－4057	O	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4058	O	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4059	O	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4060	O	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4061	O	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4062	O	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4063	O	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4064	O	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－4065	O	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4066	O	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4067	O	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4068	O	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4069	O	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4070	O	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－4071	O	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－4072	O	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－4073	O	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4074	O	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4075	O	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－4076	O	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－4077	O	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4078	O	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4079	O	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4080	O	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H

【表５４５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4081	O	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－4082	O	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－4083	O	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4084	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4085	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4086	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4087	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4088	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4089	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4090	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4091	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4092	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4093	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4094	O	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4095	O	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4096	O	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4097	O	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4098	O	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4099	O	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4100	O	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4101	O	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4102	O	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4103	O	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4104	O	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4105	O	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－4106	O	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4107	O	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4108	O	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4109	O	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4110	O	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4111	O	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4112	O	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4113	O	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4114	O	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4115	O	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4116	O	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4117	O	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4118	O	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－4119	O	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4120	O	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4121	O	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4122	O	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4123	O	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4124	O	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4125	O	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4126	O	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4127	O	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4128	O	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4129	O	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－4130	O	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－4131	O	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4132	O	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－4133	O	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4134	O	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4135	O	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4136	O	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4137	O	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4138	O	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4139	O	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4140	O	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H

【表５４６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4141	O	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4142	O	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4143	O	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4144	O	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4145	O	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4146	O	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H
(VIII)－4147	O	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－4148	O	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－4149	O	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4150	O	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4151	O	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－4152	O	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－4153	O	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4154	O	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4155	O	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4156	O	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－4157	O	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－4158	O	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F
(VIII)－4159	S	4	H	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4160	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4161	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4162	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4163	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4164	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4165	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4166	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4167	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4168	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4169	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4170	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4171	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4172	S	4	H	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4173	S	4	C_2H_5	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4174	S	4	H	C_2H_5	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4175	S	4	H	H	C_2H_5	H	H	H	H	H	H	H	H	H	H
(VIII)－4176	S	4	H	H	H	C_2H_5	H	H	H	H	H	H	H	H	H
(VIII)－4177	S	4	H	H	H	H	C_2H_5	H	H	H	H	H	H	H	H
(VIII)－4178	S	4	H	H	H	H	H	C_2H_5	H	H	H	H	H	H	H
(VIII)－4179	S	4	H	H	H	H	H	H	C_2H_5	H	H	H	H	H	H
(VIII)－4180	S	4	H	H	H	H	H	H	H	C_2H_5	H	H	H	H	H
(VIII)－4181	S	4	H	H	H	H	H	H	H	H	C_2H_5	H	H	H	H
(VIII)－4182	S	4	H	H	H	H	H	H	H	H	H	C_2H_5	H	H	H
(VIII)－4183	S	4	H	H	H	H	H	H	H	H	H	H	C_2H_5	H	H
(VIII)－4184	S	4	H	H	H	H	H	H	H	H	H	H	H	C_2H_5	H
(VIII)－4185	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_2H_5
(VIII)－4186	S	4	C_3H_7	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4187	S	4	H	C_3H_7	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4188	S	4	H	H	C_3H_7	H	H	H	H	H	H	H	H	H	H
(VIII)－4189	S	4	H	H	H	C_3H_7	H	H	H	H	H	H	H	H	H
(VIII)－4190	S	4	H	H	H	H	C_3H_7	H	H	H	H	H	H	H	H
(VIII)－4191	S	4	H	H	H	H	H	C_3H_7	H	H	H	H	H	H	H
(VIII)－4192	S	4	H	H	H	H	H	H	C_3H_7	H	H	H	H	H	H
(VIII)－4193	S	4	H	H	H	H	H	H	H	C_3H_7	H	H	H	H	H
(VIII)－4194	S	4	H	H	H	H	H	H	H	H	C_3H_7	H	H	H	H
(VIII)－4195	S	4	H	H	H	H	H	H	H	H	H	C_3H_7	H	H	H
(VIII)－4196	S	4	H	H	H	H	H	H	H	H	H	H	C_3H_7	H	H
(VIII)－4197	S	4	H	H	H	H	H	H	H	H	H	H	H	C_3H_7	H
(VIII)－4198	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_3H_7
(VIII)－4199	S	4	C_4H_9	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4200	S	4	H	C_4H_9	H	H	H	H	H	H	H	H	H	H	H

【表５４７】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4201	S	4	H	H	C_4H_9	H	H	H	H	H	H	H	H	H	H
(VIII)－4202	S	4	H	H	H	C_4H_9	H	H	H	H	H	H	H	H	H
(VIII)－4203	S	4	H	H	H	H	C_4H_9	H	H	H	H	H	H	H	H
(VIII)－4204	S	4	H	H	H	H	H	C_4H_9	H	H	H	H	H	H	H
(VIII)－4205	S	4	H	H	H	H	H	H	C_4H_9	H	H	H	H	H	H
(VIII)－4206	S	4	H	H	H	H	H	H	H	C_4H_9	H	H	H	H	H
(VIII)－4207	S	4	H	H	H	H	H	H	H	H	C_4H_9	H	H	H	H
(VIII)－4208	S	4	H	H	H	H	H	H	H	H	H	C_4H_9	H	H	H
(VIII)－4209	S	4	H	H	H	H	H	H	H	H	H	H	C_4H_9	H	H
(VIII)－4210	S	4	H	H	H	H	H	H	H	H	H	H	H	C_4H_9	H
(VIII)－4211	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_4H_9
(VIII)－4212	S	4	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4213	S	4	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4214	S	4	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H	H
(VIII)－4215	S	4	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H	H
(VIII)－4216	S	4	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H	H
(VIII)－4217	S	4	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H	H
(VIII)－4218	S	4	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H	H
(VIII)－4219	S	4	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H	H
(VIII)－4220	S	4	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H	H
(VIII)－4221	S	4	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H	H
(VIII)－4222	S	4	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H	H
(VIII)－4223	S	4	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}	H
(VIII)－4224	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_5H_{11}
(VIII)－4225	S	4	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4226	S	4	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4227	S	4	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H	H
(VIII)－4228	S	4	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H	H
(VIII)－4229	S	4	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H	H
(VIII)－4230	S	4	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H	H
(VIII)－4231	S	4	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H	H
(VIII)－4232	S	4	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H	H
(VIII)－4233	S	4	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H	H
(VIII)－4234	S	4	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H	H
(VIII)－4235	S	4	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H	H
(VIII)－4236	S	4	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}	H
(VIII)－4237	S	4	H	H	H	H	H	H	H	H	H	H	H	H	C_6H_{13}
(VIII)－4238	S	4	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4239	S	4	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4240	S	4	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4241	S	4	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4242	S	4	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4243	S	4	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4244	S	4	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4245	S	4	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4246	S	4	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4247	S	4	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4248	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4249	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4250	S	4	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4251	S	4	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4252	S	4	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4253	S	4	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4254	S	4	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4255	S	4	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4256	S	4	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4257	S	4	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4258	S	4	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4259	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4260	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	CH_3

【表５４８】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4261	S	4	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4262	S	4	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4263	S	4	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4264	S	4	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4265	S	4	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4266	S	4	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4267	S	4	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4268	S	4	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4269	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4270	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4271	S	4	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H	H
(VIII)－4272	S	4	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H	H
(VIII)－4273	S	4	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H	H
(VIII)－4274	S	4	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H	H
(VIII)－4275	S	4	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H	H
(VIII)－4276	S	4	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H	H
(VIII)－4277	S	4	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H	H
(VIII)－4278	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3	H
(VIII)－4279	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	CH_3
(VIII)－4280	S	4	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H	H
(VIII)－4281	S	4	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H	H
(VIII)－4282	S	4	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H	H
(VIII)－4283	S	4	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H	H
(VIII)－4284	S	4	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H	H
(VIII)－4285	S	4	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H	H
(VIII)－4286	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3	H
(VIII)－4287	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	CH_3
(VIII)－4288	S	4	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H	H
(VIII)－4289	S	4	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H	H
(VIII)－4290	S	4	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H	H
(VIII)－4291	S	4	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H	H
(VIII)－4292	S	4	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H	H
(VIII)－4293	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3	H
(VIII)－4294	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	CH_3
(VIII)－4295	S	4	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H	H
(VIII)－4296	S	4	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H	H
(VIII)－4297	S	4	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H	H
(VIII)－4298	S	4	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H	H
(VIII)－4299	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3	H
(VIII)－4300	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	CH_3
(VIII)－4301	S	4	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H	H
(VIII)－4302	S	4	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H	H
(VIII)－4303	S	4	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H	H
(VIII)－4304	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3	H
(VIII)－4305	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	CH_3
(VIII)－4306	S	4	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H	H
(VIII)－4307	S	4	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H	H
(VIII)－4308	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3	H
(VIII)－4309	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	CH_3
(VIII)－4310	S	4	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H	H
(VIII)－4311	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3	H
(VIII)－4312	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	CH_3
(VIII)－4313	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3	H
(VIII)－4314	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	CH_3
(VIII)－4315	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	CH_3
(VIII)－4316	S	4	F	H	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4317	S	4	H	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4318	S	4	H	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4319	S	4	H	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4320	S	4	H	H	H	H	F	H	H	H	H	H	H	H	H

【表５４９】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4321	S	4	H	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4322	S	4	H	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4323	S	4	H	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4324	S	4	H	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4325	S	4	H	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4326	S	4	H	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4327	S	4	H	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4328	S	4	H	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4329	S	4	F	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4330	S	4	F	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4331	S	4	F	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4332	S	4	F	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4333	S	4	F	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4334	S	4	F	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4335	S	4	F	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4336	S	4	F	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4337	S	4	F	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4338	S	4	F	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4339	S	4	F	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4340	S	4	F	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4341	S	4	H	F	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4342	S	4	H	F	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4343	S	4	H	F	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4344	S	4	H	F	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4345	S	4	H	F	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4346	S	4	H	F	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4347	S	4	H	F	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4348	S	4	H	F	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4349	S	4	H	F	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4350	S	4	H	F	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4351	S	4	H	F	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4352	S	4	H	H	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4353	S	4	H	H	F	H	F	H	H	H	H	H	H	H	H
(VIII)－4354	S	4	H	H	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4355	S	4	H	H	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4356	S	4	H	H	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4357	S	4	H	H	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4358	S	4	H	H	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4359	S	4	H	H	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4360	S	4	H	H	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4361	S	4	H	H	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4362	S	4	H	H	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4363	S	4	H	H	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4364	S	4	H	H	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4365	S	4	H	H	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4366	S	4	H	H	H	F	H	H	H	H	F	H	H	H	H
(VIII)－4367	S	4	H	H	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4368	S	4	H	H	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4369	S	4	H	H	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4370	S	4	H	H	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4371	S	4	H	H	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4372	S	4	H	H	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4373	S	4	H	H	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4374	S	4	H	H	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4375	S	4	H	H	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4376	S	4	H	H	H	H	F	H	H	H	H	H	H	F	H
(VIII)－4377	S	4	H	H	H	H	F	H	H	H	H	H	H	H	F
(VIII)－4378	S	4	H	H	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4379	S	4	H	H	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4380	S	4	H	H	H	H	H	F	H	F	H	H	H	H	H

【表５５０】

番号	X	位置	R^1	R^2	R^3	R^4	R^{66}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4381	S	4	H	H	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4382	S	4	H	H	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4383	S	4	H	H	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4384	S	4	H	H	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4385	S	4	H	H	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4386	S	4	H	H	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4387	S	4	H	H	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4388	S	4	H	H	H	H	H	H	F	H	H	F	H	H	H
(VIII)－4389	S	4	H	H	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4390	S	4	H	H	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4391	S	4	H	H	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4392	S	4	H	H	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4393	S	4	H	H	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4394	S	4	H	H	H	H	H	H	H	F	H	H	F	H	H
(VIII)－4395	S	4	H	H	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4396	S	4	H	H	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4397	S	4	H	H	H	H	H	H	H	H	F	H	H	F	H
(VIII)－4398	S	4	H	H	H	H	H	H	H	H	F	H	H	H	F
(VIII)－4399	S	4	H	H	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4400	S	4	H	H	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4401	S	4	H	H	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4402	S	4	H	H	H	H	H	H	H	H	H	H	F	F	H
(VIII)－4403	S	4	H	H	H	H	H	H	H	H	H	H	F	H	F
(VIII)－4404	S	4	H	H	H	H	H	H	H	H	H	H	H	F	F
(VIII)－4405	S	4	CH_3	F	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4406	S	4	CH_3	H	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4407	S	4	CH_3	H	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4408	S	4	CH_3	H	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4409	S	4	CH_3	H	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4410	S	4	CH_3	H	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4411	S	4	CH_3	H	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4412	S	4	CH_3	H	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4413	S	4	CH_3	H	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4414	S	4	CH_3	H	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4415	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4416	S	4	CH_3	H	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4417	S	4	F	CH_3	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4418	S	4	H	CH_3	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4419	S	4	H	CH_3	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4420	S	4	H	CH_3	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4421	S	4	H	CH_3	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4422	S	4	H	CH_3	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4423	S	4	H	CH_3	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4424	S	4	H	CH_3	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4425	S	4	H	CH_3	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4426	S	4	H	CH_3	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4427	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4428	S	4	H	CH_3	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4429	S	4	H	H	CH_3	F	H	H	H	H	H	H	H	H	H
(VIII)－4430	S	4	H	H	CH_3	H	F	H	H	H	H	H	H	H	H
(VIII)－4431	S	4	H	H	CH_3	H	H	F	H	H	H	H	H	H	H
(VIII)－4432	S	4	H	H	CH_3	H	H	H	F	H	H	H	H	H	H
(VIII)－4433	S	4	H	H	CH_3	H	H	H	H	F	H	H	H	H	H
(VIII)－4434	S	4	H	H	CH_3	H	H	H	H	H	F	H	H	H	H
(VIII)－4435	S	4	H	H	CH_3	H	H	H	H	H	H	F	H	H	H
(VIII)－4436	S	4	H	H	CH_3	H	H	H	H	H	H	H	F	H	H
(VIII)－4437	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	F	H
(VIII)－4438	S	4	H	H	CH_3	H	H	H	H	H	H	H	H	H	F
(VIII)－4439	S	4	H	H	H	CH_3	F	H	H	H	H	H	H	H	H
(VIII)－4440	S	4	H	H	H	CH_3	H	F	H	H	H	H	H	H	H

【表５５１】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4441	S	4	H	H	H	CH_3	H	H	F	H	H	H	H	H	H
(VIII)－4442	S	4	H	H	H	CH_3	H	H	H	F	H	H	H	H	H
(VIII)－4443	S	4	H	H	H	CH_3	H	H	H	H	F	H	H	H	H
(VIII)－4444	S	4	H	H	H	CH_3	H	H	H	H	H	F	H	H	H
(VIII)－4445	S	4	H	H	H	CH_3	H	H	H	H	H	H	F	H	H
(VIII)－4446	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	F	H
(VIII)－4447	S	4	H	H	H	CH_3	H	H	H	H	H	H	H	H	F
(VIII)－4448	S	4	H	H	H	H	CH_3	F	H	H	H	H	H	H	H
(VIII)－4449	S	4	H	H	H	H	CH_3	H	F	H	H	H	H	H	H
(VIII)－4450	S	4	H	H	H	H	CH_3	H	H	F	H	H	H	H	H
(VIII)－4451	S	4	H	H	H	H	CH_3	H	H	H	F	H	H	H	H
(VIII)－4452	S	4	H	H	H	H	CH_3	H	H	H	H	F	H	H	H
(VIII)－4453	S	4	H	H	H	H	CH_3	H	H	H	H	H	F	H	H
(VIII)－4454	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	F	H
(VIII)－4455	S	4	H	H	H	H	CH_3	H	H	H	H	H	H	H	F
(VIII)－4456	S	4	H	H	H	H	H	CH_3	F	H	H	H	H	H	H
(VIII)－4457	S	4	H	H	H	H	H	CH_3	H	F	H	H	H	H	H
(VIII)－4458	S	4	H	H	H	H	H	CH_3	H	H	F	H	H	H	H
(VIII)－4459	S	4	H	H	H	H	H	CH_3	H	H	H	F	H	H	H
(VIII)－4460	S	4	H	H	H	H	H	CH_3	H	H	H	H	F	H	H
(VIII)－4461	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	F	H
(VIII)－4462	S	4	H	H	H	H	H	CH_3	H	H	H	H	H	H	F
(VIII)－4463	S	4	H	H	H	H	H	H	CH_3	F	H	H	H	H	H
(VIII)－4464	S	4	H	H	H	H	H	H	CH_3	H	F	H	H	H	H
(VIII)－4465	S	4	H	H	H	H	H	H	CH_3	H	H	F	H	H	H
(VIII)－4466	S	4	H	H	H	H	H	H	CH_3	H	H	H	F	H	H
(VIII)－4467	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	F	H
(VIII)－4468	S	4	H	H	H	H	H	H	CH_3	H	H	H	H	H	F
(VIII)－4469	S	4	H	H	H	H	H	H	H	CH_3	F	H	H	H	H
(VIII)－4470	S	4	H	H	H	H	H	H	H	CH_3	H	F	H	H	H
(VIII)－4471	S	4	H	H	H	H	H	H	H	CH_3	H	H	F	H	H
(VIII)－4472	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	F	H
(VIII)－4473	S	4	H	H	H	H	H	H	H	CH_3	H	H	H	H	F
(VIII)－4474	S	4	H	H	H	H	H	H	H	H	CH_3	F	H	H	H
(VIII)－4475	S	4	H	H	H	H	H	H	H	H	CH_3	H	F	H	H
(VIII)－4476	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	F	H
(VIII)－4477	S	4	H	H	H	H	H	H	H	H	CH_3	H	H	H	F
(VIII)－4478	S	4	H	H	H	H	H	H	H	H	H	CH_3	F	H	H
(VIII)－4479	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	F	H
(VIII)－4480	S	4	H	H	H	H	H	H	H	H	H	CH_3	H	H	F
(VIII)－4481	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	F	H
(VIII)－4482	S	4	H	H	H	H	H	H	H	H	H	H	CH_3	H	F
(VIII)－4483	S	4	H	H	H	H	H	H	H	H	H	H	H	CH_3	F
(VIII)－4484	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4485	S	4	CH_3	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4486	S	4	H	Ph	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4487	S	4	H	Ph	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4488	S	4	H	Ph	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4489	S	4	H	Ph	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4490	S	4	H	Ph	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4491	S	4	H	Ph	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4492	S	4	H	Ph	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4493	S	4	H	Ph	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4494	S	4	H	Ph	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4495	S	4	H	Ph	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4496	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4497	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4498	S	4	CH_3	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4499	S	4	H	Tol	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4500	S	4	H	Tol	H	CH_3	H	H	H	H	H	H	H	H	H

【表５５２】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4501	S	4	H	Tol	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4502	S	4	H	Tol	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4503	S	4	H	Tol	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4504	S	4	H	Tol	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4505	S	4	H	Tol	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4506	S	4	H	Tol	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4507	S	4	H	Tol	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4508	S	4	H	Tol	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4509	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4510	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4511	S	4	CH_3	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4512	S	4	H	Phen	CH_3	H	H	H	H	H	H	H	H	H	H
(VIII)－4513	S	4	H	Phen	H	CH_3	H	H	H	H	H	H	H	H	H
(VIII)－4514	S	4	H	Phen	H	H	CH_3	H	H	H	H	H	H	H	H
(VIII)－4515	S	4	H	Phen	H	H	H	CH_3	H	H	H	H	H	H	H
(VIII)－4516	S	4	H	Phen	H	H	H	H	CH_3	H	H	H	H	H	H
(VIII)－4517	S	4	H	Phen	H	H	H	H	H	CH_3	H	H	H	H	H
(VIII)－4518	S	4	H	Phen	H	H	H	H	H	H	CH_3	H	H	H	H
(VIII)－4519	S	4	H	Phen	H	H	H	H	H	H	H	CH_3	H	H	H
(VIII)－4520	S	4	H	Phen	H	H	H	H	H	H	H	H	CH_3	H	H
(VIII)－4521	S	4	H	Phen	H	H	H	H	H	H	H	H	H	CH_3	H
(VIII)－4522	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	CH_3
(VIII)－4523	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4524	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4525	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4526	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4527	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4528	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4529	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4530	S	4	H	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4531	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4532	S	4	H	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4533	S	4	H	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4534	S	4	H	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4535	S	4	F	Ph	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4536	S	4	F	Ph	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4537	S	4	F	Ph	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4538	S	4	F	Ph	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4539	S	4	F	Ph	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4540	S	4	F	Ph	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4541	S	4	F	Ph	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4542	S	4	F	Ph	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4543	S	4	F	Ph	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4544	S	4	F	Ph	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4545	S	4	F	Ph	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4546	S	4	H	Ph	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4547	S	4	H	Ph	F	H	F	H	H	H	H	H	H	H	H
(VIII)－4548	S	4	H	Ph	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4549	S	4	H	Ph	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4550	S	4	H	Ph	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4551	S	4	H	Ph	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4552	S	4	H	Ph	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4553	S	4	H	Ph	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4554	S	4	H	Ph	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4555	S	4	H	Ph	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4556	S	4	H	Ph	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4557	S	4	H	Ph	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4558	S	4	H	Ph	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4559	S	4	H	Ph	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4560	S	4	H	Ph	H	F	H	H	H	H	F	H	H	H	H

【表５５３】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4561	S	4	H	Ph	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4562	S	4	H	Ph	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4563	S	4	H	Ph	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4564	S	4	H	Ph	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4565	S	4	H	Ph	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4566	S	4	H	Ph	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4567	S	4	H	Ph	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4568	S	4	H	Ph	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4569	S	4	H	Ph	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4570	S	4	H	Ph	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4571	S	4	H	Ph	H	H	F	H	H	H	H	H	H	F	H
(VIII)－4572	S	4	H	Ph	H	H	F	H	H	H	H	H	H	H	F
(VIII)－4573	S	4	H	Ph	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4574	S	4	H	Ph	H	H	H	F	H	F	H	H	H	H	H
(VIII)－4575	S	4	H	Ph	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4576	S	4	H	Ph	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4577	S	4	H	Ph	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4578	S	4	H	Ph	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4579	S	4	H	Ph	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4580	S	4	H	Ph	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4581	S	4	H	Ph	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4582	S	4	H	Ph	H	H	H	H	F	H	H	F	H	H	H
(VIII)－4583	S	4	H	Ph	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4584	S	4	H	Ph	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4585	S	4	H	Ph	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4586	S	4	H	Ph	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4587	S	4	H	Ph	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4588	S	4	H	Ph	H	H	H	H	H	F	H	H	F	H	H
(VIII)－4589	S	4	H	Ph	H	H	H	H	H	F	H	H	H	F	H
(VIII)－4590	S	4	H	Ph	H	H	H	H	H	F	H	H	H	H	F
(VIII)－4591	S	4	H	Ph	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4592	S	4	H	Ph	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4593	S	4	H	Ph	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4594	S	4	H	Ph	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4595	S	4	H	Ph	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4596	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4597	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4598	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4599	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4600	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4601	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4602	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4603	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4604	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4605	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4606	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4607	S	4	H	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4608	S	4	F	Tol	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4609	S	4	F	Tol	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4610	S	4	F	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4611	S	4	F	Tol	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4612	S	4	F	Tol	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4613	S	4	F	Tol	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4614	S	4	F	Tol	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4615	S	4	F	Tol	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4616	S	4	F	Tol	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4617	S	4	F	Tol	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4618	S	4	F	Tol	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4619	S	4	H	Tol	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4620	S	4	H	Tol	F	H	F	H	H	H	H	H	H	H	H

【表５５４】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4621	S	4	H	Tol	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4622	S	4	H	Tol	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4623	S	4	H	Tol	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4624	S	4	H	Tol	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4625	S	4	H	Tol	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4626	S	4	H	Tol	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4627	S	4	H	Tol	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4628	S	4	H	Tol	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4629	S	4	H	Tol	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4630	S	4	H	Tol	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4631	S	4	H	Tol	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4632	S	4	H	Tol	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4633	S	4	H	Tol	H	F	H	H	H	H	F	H	H	H	H
(VIII)－4634	S	4	H	Tol	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4635	S	4	H	Tol	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4636	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4637	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4638	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4639	S	4	H	Tol	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4640	S	4	H	Tol	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4641	S	4	H	Tol	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4642	S	4	H	Tol	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4643	S	4	H	Tol	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4644	S	4	H	Tol	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4645	S	4	H	Tol	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4646	S	4	H	Tol	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4647	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4648	S	4	H	Tol	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4649	S	4	H	Tol	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4650	S	4	H	Tol	H	H	H	F	H	F	H	H	H	H	H
(VIII)－4651	S	4	H	Tol	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4652	S	4	H	Tol	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4653	S	4	H	Tol	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4654	S	4	H	Tol	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4655	S	4	H	Tol	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4656	S	4	H	Tol	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4657	S	4	H	Tol	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4658	S	4	H	Tol	H	H	H	H	F	H	H	F	H	H	H
(VIII)－4659	S	4	H	Tol	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4660	S	4	H	Tol	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4661	S	4	H	Tol	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4662	S	4	H	Tol	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4663	S	4	H	Tol	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4664	S	4	H	Tol	H	H	H	H	H	F	H	H	F	H	H
(VIII)－4665	S	4	H	Tol	H	H	H	H	H	F	H	H	H	F	H
(VIII)－4666	S	4	H	Tol	H	H	H	H	H	F	H	H	H	H	F
(VIII)－4667	S	4	H	Tol	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4668	S	4	H	Tol	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4669	S	4	H	Tol	H	H	H	H	H	H	F	H	H	F	H
(VIII)－4670	S	4	H	Tol	H	H	H	H	H	H	F	H	H	H	F
(VIII)－4671	S	4	H	Tol	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4672	S	4	H	Tol	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4673	S	4	H	Tol	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4674	S	4	H	Tol	H	H	H	H	H	H	H	H	F	F	H
(VIII)－4675	S	4	H	Tol	H	H	H	H	H	H	H	H	F	H	F
(VIII)－4676	S	4	H	Tol	H	H	H	H	H	H	H	H	H	F	F
(VIII)－4677	S	4	F	Phen	H	H	H	H	H	H	H	H	H	H	H
(VIII)－4678	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4679	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4680	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	H

【表５５５】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4681	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4682	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4683	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4684	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4685	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4686	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4687	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	H
(VIII)－4688	S	4	H	Phen	H	H	H	H	H	H	H	H	H	H	F
(VIII)－4689	S	4	F	Phen	F	H	H	H	H	H	H	H	H	H	H
(VIII)－4690	S	4	F	Phen	H	F	H	H	H	H	H	H	H	H	H
(VIII)－4691	S	4	F	Phen	H	H	F	H	H	H	H	H	H	H	H
(VIII)－4692	S	4	F	Phen	H	H	H	F	H	H	H	H	H	H	H
(VIII)－4693	S	4	F	Phen	H	H	H	H	F	H	H	H	H	H	H
(VIII)－4694	S	4	F	Phen	H	H	H	H	H	F	H	H	H	H	H
(VIII)－4695	S	4	F	Phen	H	H	H	H	H	H	F	H	H	H	H
(VIII)－4696	S	4	F	Phen	H	H	H	H	H	H	H	F	H	H	H
(VIII)－4697	S	4	F	Phen	H	H	H	H	H	H	H	H	F	H	H
(VIII)－4698	S	4	H	Phen	F	F	H	H	H	H	H	H	H	H	H
(VIII)－4699	S	4	H	Phen	F	H	F	H	H	H	H	H	H	H	H
(VIII)－4700	S	4	H	Phen	F	H	H	F	H	H	H	H	H	H	H
(VIII)－4701	S	4	H	Phen	F	H	H	H	F	H	H	H	H	H	H
(VIII)－4702	S	4	H	Phen	F	H	H	H	H	F	H	H	H	H	H
(VIII)－4703	S	4	H	Phen	F	H	H	H	H	H	F	H	H	H	H
(VIII)－4704	S	4	H	Phen	F	H	H	H	H	H	H	F	H	H	H
(VIII)－4705	S	4	H	Phen	F	H	H	H	H	H	H	H	F	H	H
(VIII)－4706	S	4	H	Phen	F	H	H	H	H	H	H	H	H	F	H
(VIII)－4707	S	4	H	Phen	F	H	H	H	H	H	H	H	H	H	F
(VIII)－4708	S	4	H	Phen	H	F	F	H	H	H	H	H	H	H	H
(VIII)－4709	S	4	H	Phen	H	F	H	F	H	H	H	H	H	H	H
(VIII)－4710	S	4	H	Phen	H	F	H	H	F	H	H	H	H	H	H
(VIII)－4711	S	4	H	Phen	H	F	H	H	H	F	H	H	H	H	H
(VIII)－4712	S	4	H	Phen	H	F	H	H	H	H	F	H	H	H	H
(VIII)－4713	S	4	H	Phen	H	F	H	H	H	H	H	F	H	H	H
(VIII)－4714	S	4	H	Phen	H	F	H	H	H	H	H	H	F	H	H
(VIII)－4715	S	4	H	Phen	H	F	H	H	H	H	H	H	H	F	H
(VIII)－4716	S	4	H	Phen	H	F	H	H	H	H	H	H	H	H	F
(VIII)－4717	S	4	H	Phen	H	H	F	F	H	H	H	H	H	H	H
(VIII)－4718	S	4	H	Phen	H	H	F	H	F	H	H	H	H	H	H
(VIII)－4719	S	4	H	Phen	H	H	F	H	H	F	H	H	H	H	H
(VIII)－4720	S	4	H	Phen	H	H	F	H	H	H	F	H	H	H	H
(VIII)－4721	S	4	H	Phen	H	H	F	H	H	H	H	F	H	H	H
(VIII)－4722	S	4	H	Phen	H	H	F	H	H	H	H	H	F	H	H
(VIII)－4723	S	4	H	Phen	H	H	F	H	H	H	H	H	H	F	H
(VIII)－4724	S	4	H	Phen	H	H	F	H	H	H	H	H	H	H	F
(VIII)－4725	S	4	H	Phen	H	H	H	F	F	H	H	H	H	H	H
(VIII)－4726	S	4	H	Phen	H	H	H	F	H	F	H	H	H	H	H
(VIII)－4727	S	4	H	Phen	H	H	H	F	H	H	F	H	H	H	H
(VIII)－4728	S	4	H	Phen	H	H	H	F	H	H	H	F	H	H	H
(VIII)－4729	S	4	H	Phen	H	H	H	F	H	H	H	H	F	H	H
(VIII)－4730	S	4	H	Phen	H	H	H	F	H	H	H	H	H	F	H
(VIII)－4731	S	4	H	Phen	H	H	H	F	H	H	H	H	H	H	F
(VIII)－4732	S	4	H	Phen	H	H	H	H	F	F	H	H	H	H	H
(VIII)－4733	S	4	H	Phen	H	H	H	H	F	H	F	H	H	H	H
(VIII)－4734	S	4	H	Phen	H	H	H	H	F	H	H	F	H	H	H
(VIII)－4735	S	4	H	Phen	H	H	H	H	F	H	H	H	F	H	H
(VIII)－4736	S	4	H	Phen	H	H	H	H	F	H	H	H	H	F	H
(VIII)－4737	S	4	H	Phen	H	H	H	H	F	H	H	H	H	H	F
(VIII)－4738	S	4	H	Phen	H	H	H	H	H	F	F	H	H	H	H
(VIII)－4739	S	4	H	Phen	H	H	H	H	H	F	H	F	H	H	H
(VIII)－4740	S	4	H	Phen	H	H	H	H	H	F	H	H	F	H	H

【表５５６】

番号	X	位置	R^1	R^2	R^3	R^4	R^{65}	R^{66}	R^{67}	R^{68}	R^{69}	R^{70}	R^{71}	R^{72}	R^{73}
(VIII)－4741	S	4	H	Phen	H	H	H	H	H	F	H	H	H	F	H
(VIII)－4742	S	4	H	Phen	H	H	H	H	H	F	H	H	H	H	F
(VIII)－4743	S	4	H	Phen	H	H	H	H	H	H	F	F	H	H	H
(VIII)－4744	S	4	H	Phen	H	H	H	H	H	H	F	H	F	H	H
(VIII)－4745	S	4	H	Phen	H	H	H	H	H	H	F	H	H	F	H
(VIII)－4746	S	4	H	Phen	H	H	H	H	H	H	F	H	H	H	F
(VIII)－4747	S	4	H	Phen	H	H	H	H	H	H	H	F	F	H	H
(VIII)－4748	S	4	H	Phen	H	H	H	H	H	H	H	F	H	F	H
(VIII)－4749	S	4	H	Phen	H	H	H	H	H	H	H	F	H	H	F
(VIII)－4750	S	4	H	Phen	H	H	H	H	H	H	H	H	F	F	H
(VIII)－4751	S	4	H	Phen	H	H	H	H	H	H	H	H	F	H	F
(VIII)－4752	S	4	H	Phen	H	H	H	H	H	H	H	H	H	F	F

【００４６】

本発明のトリアジン化合物は、最低空軌道（ＬＵＭＯ）が浅く、最高被占軌道（ＨＯＭＯ）が深いため発光材料に与える大きなエネルギーを有する。また、それぞれの値が陽極及び陰極の仕事関数の値よりも大きいため、ホール又は電子の注入性が高い。したがって発光材料、特に波長の長い赤色発光材料と組み合わせることにより効率よく発光材料を光らせることができる。使用に際しては蒸着により層形成を行うのが望ましい。

また、本発明のトリアジン化合物を用いて有機ＥＬ素子を作製することができ、その場合、発光層のホスト材料として使用することができる。更にホール又は電子の注入性が高いため、ホール輸送層又は電子輸送層に混合させることもできる。

【００４７】

次に本発明の有機ＥＬ素子について説明する。

本発明の有機ＥＬ素子は、陽極と陰極間に複数層の有機化合物を積層した素子であり、本発明のトリアジン化合物を発光層のホスト材料として用いることが好ましいが、ホール輸送層又は電子輸送層に含有させてもよい。

発光層は、一般に発光材料とホスト材料から構成される。多層型の有機ＥＬ素子の構成例としては、例えば陽極（例えばＩＴＯ）／ホール輸送層／発光層／電子輸送層／陰極、ＩＴＯ／ホール輸送層／発光層／電子輸送層／電子注入層／陰極、ＩＴＯ／ホール輸送層／発光層／ホールブロック層／電子輸送層／陰極、ＩＴＯ／ホール輸送層／発光層／ホールブロック層／電子輸送層／電子注入層／陰極、ＩＴＯ／ホール注入層（正孔注入層）／ホール輸送層／発光層／ホールブロック層／電子輸送層／電子注入層／陰極等の多数の層を積層したものが挙げられる。また、必要に応じて陰極上に封止層を設けてもよい。

発光層、ホール輸送層、電子輸送層の各層は、それぞれの機能を分離した多層構造であることが望ましい。またホール輸送層、電子輸送層はそれぞれの層で注入機能を受け持つ層（ホール注入層及び電子注入層）と輸送機能を受け持つ層（ホール輸送層及び電子輸送層）を別々に設けることもできる。

【００４８】

以下、本発明の有機ＥＬ素子の構成要素について、陽極／ホール輸送層／発光層／電子輸送層／陰極からなる素子構成を例として説明する。

本発明の有機ＥＬ素子は、基板に支持されていることが好ましい。基板の素材には特に制限はなく、例えば、従来の有機ＥＬ素子に慣用されている、ガラス、石英ガラス、透明プラスチックなどからなるものが挙げられる。

陽極としては、仕事関数の大きな金属単体（４ｅＶ以上）、仕事関数の大きな金属同士の合金（４ｅＶ以上）又は導電性物質、あるいはこれらの混合物を電極材料とすることが好ましい。その具体例としては、金、銀、銅等の金属、ＩＴＯ（インジウム－スズオキサイド）、酸化スズ（SnO_2）、酸化亜鉛（ＺｎＯ）などの導電性透明材料、ポリピロール、ポリチオフェン等の導電性高分子材料が挙げられる。

陽極はこれらの電極材料を用いて、蒸着、スパッタリング、塗布などの方法により形成

することができる。陽極のシート電気抵抗は数百Ω／ｃｍ^{2}以下が好ましい。陽極の膜厚は材料にもよるが、一般に５～１０００ｎｍ程度、好ましくは１０～５００ｎｍである。

【００４９】

陰極は、仕事関数の小さな金属単体（４ｅＶ以下）、仕事関数の小さい金属同士の合金（４ｅＶ以下）又は導電性物質、あるいはこれらの混合物を電極材料とすることが好ましい。その具体例としては、リチウム、リチウム－インジウム合金、ナトリウム、ナトリウム－カリウム合金、マグネシウム、マグネシウム－銀合金、マグネシウム－インジウム合金、アルミニウム、アルミニウム－リチウム合金、アルミニウム－マグネシウム合金などが挙げられる。

陰極はこれらの電極材料を用いて、蒸着、スパッタリングなどの方法により作製することができる。陰極のシート電気抵抗は数百Ω／ｃｍ^{2}以下が好ましい。陰極の膜厚は材料にもよるが、一般に５～１０００ｎｍ程度、好ましくは１０～５００ｎｍである。

本発明の有機ＥＬ素子の発光を効率よく取り出すために、陽極と陰極の少なくとも一方の電極は透明又は半透明であることが好ましい。

【００５０】

ホール輸送層はホール伝達化合物からなり、陽極から注入されたホールを発光層に伝達する機能を有する。電界が与えた２つの電極の間に正孔伝達化合物が配置されて陽極からホールが注入された場合、少なくとも１０$^{-6}$ｃｍ^2／Ｖ・秒以上のホール移動度を有するホール伝達物質が好ましい。このようなホール伝達物質は、従来から光導電材料においてホールの電荷注入材料として慣用されている材料や有機ＥＬ素子のホール輸送層に使用されている公知の材料の中から任意のものを選択して用いることができる。

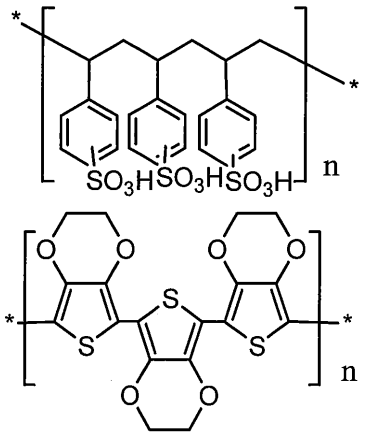
ホール伝達物質の例としては、銅フタロシアニンなどのフタロシアニン誘導体、Ｎ，Ｎ，Ｎ′，Ｎ′－テトラフェニル－１，４－フェニレンジアミン、Ｎ，Ｎ′－ジ（ｍ－トリル）－Ｎ，Ｎ′－ジフェニル－４，４－ジアミノフェニル（ＴＰＤ）、Ｎ，Ｎ′－ジ（１－ナフチル）－Ｎ，Ｎ′－ジフェニル－４，４－ジアミノフェニル（α－ＮＰＤ）等のトリアリールアミン誘導体、ポリフェニレンジアミン誘導体、ポリチオフェン誘導体、及び水溶性のＰＥＤＯＴ－ＰＳＳ（ポリエチレンジオキサチオフェン－ポリスチレンスルホン酸）などが挙げられる。

ホール輸送層は、これらのホール伝達物質の一種又は二種以上からなる一層のみでもよいが、上記以外の他の物質からなるホール輸送層を積層したものでもよい。

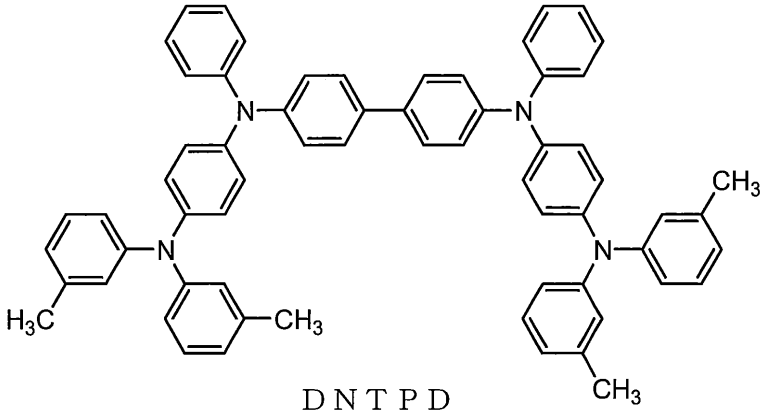
【００５１】

ホール注入材料の例としては、下記式で示されるＰＥＤＯＴ－ＰＳＳ（ポリマー混合物）やＤＮＴＰＤが挙げられる。

【化２３】



ＰＥＤＯＴ－ＰＳＳ

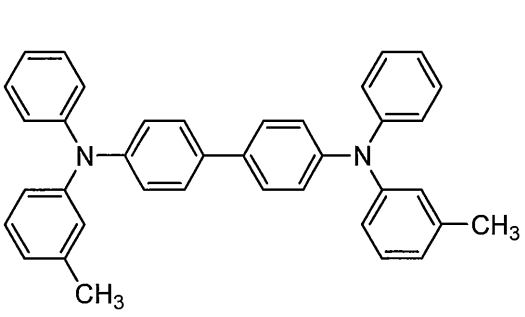


ＤＮＴＰＤ

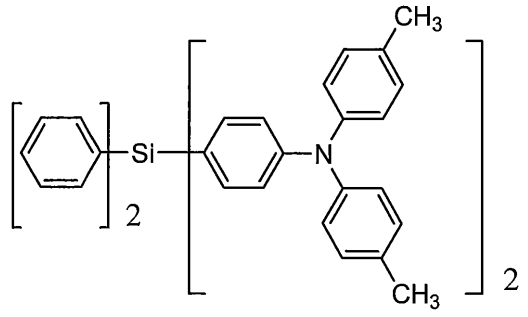
【００５２】

ホール輸送材料の例としては、下記式で示されるＴＰＤ、ＤＴＡＳｉ、α－ＮＰＤなどが挙げられる。

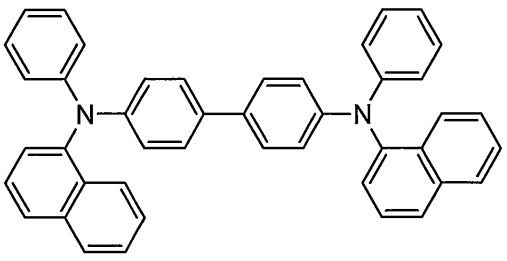
【化２４】



ＴＰＤ



ＤＴＡＳｉ



α－ＮＰＤ

【００５３】

電子輸送層は電子輸送材料からなり、陰極から注入された電子を発光層に伝達する機能を有する。電界が与えた２つの電極の間に電子輸送材料が配置されて陰極から電子が注入された場合、少なくとも１０$^{-6}$ｃｍ^{2}／Ｖ・秒以上の電子移動度を有する電子輸送材料が好ましい。

このような電子輸送材料としては、光導電材料において電子の電荷注入材料として慣用されているものや有機ＥＬ素子の電子輸送層に使用されている公知の材料の中から適宜選択して用いることができる。

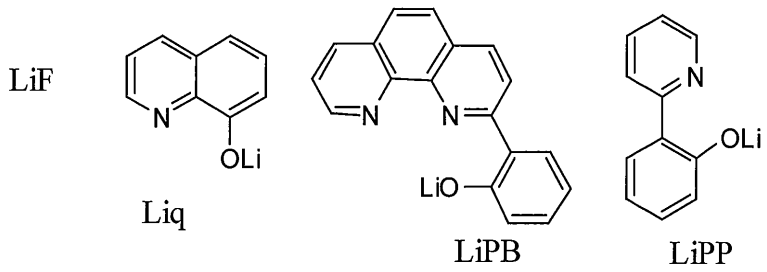
電子輸送材料の例としては、トリス（８－ヒドロキシキノリノラト）アルミニウム錯体（Ａｌｑ$_{3}$）のようなキノリン錯体、１－Ｎ－フェニル－２－（ｐ－ビフェニルイル）－５－（ｐ－ｔｅｒｔ－ブチルフェニル）－１，３，５－トリアジン（ＴＡＺ）のようなトリアジン誘導体、１，４－ジ（１，１０－フェナントロリン－２－イル）ベンゼン（ＤＰＢ）のようなフェナントロリン誘導体、フッ化リチウムのようなハロゲン化アルカリ金属などが挙げられる。

電子輸送層は、これらの電子輸送材料の一種又は二種以上からなる一層のみでもよいが、上記以外の他の材料からなる電子輸送層を積層したものでもよい。

【００５４】

電子注入材料としては、フッ化リチウム（ＬｉＦ）、下記式で示される８－ヒドロキシキノリノラトリチウム錯体（Ｌｉｑ）、特開２００８－１０６０１５号公報に記載されたフェナントロリン誘導体のリチウム錯体（ＬｉＰＢ）、特開２００８－１９５６２３号公報に記載されたフェノキシピリジンのリチウム錯体（ＬｉＰＰ）などが挙げられる。

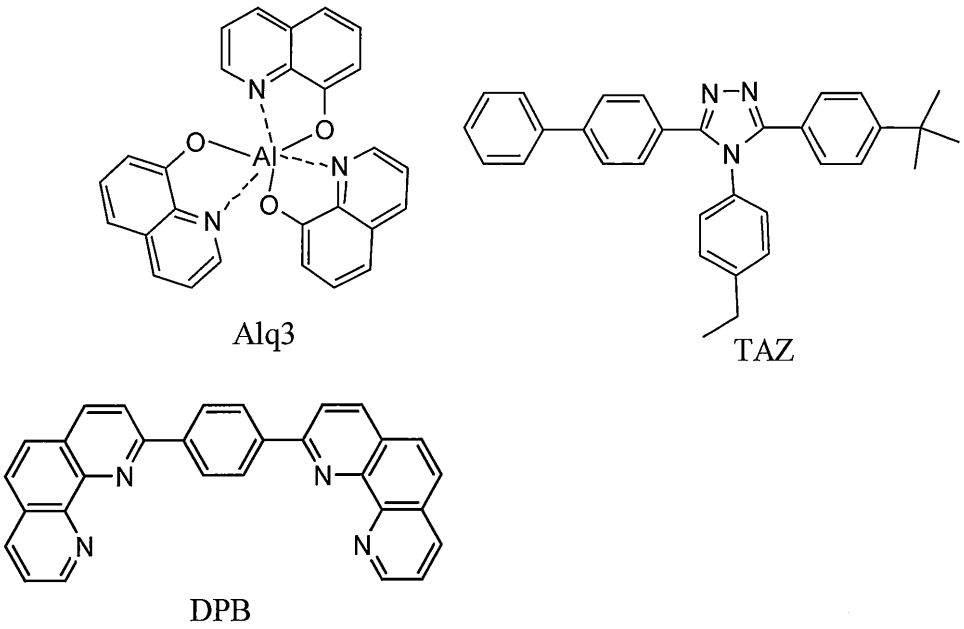
【化２５】



【００５５】

電子輸送材料としては下記式で示されるＡｌｑ$_{3}$、ＴＡＺ、ＤＰＢなどが挙げられる。

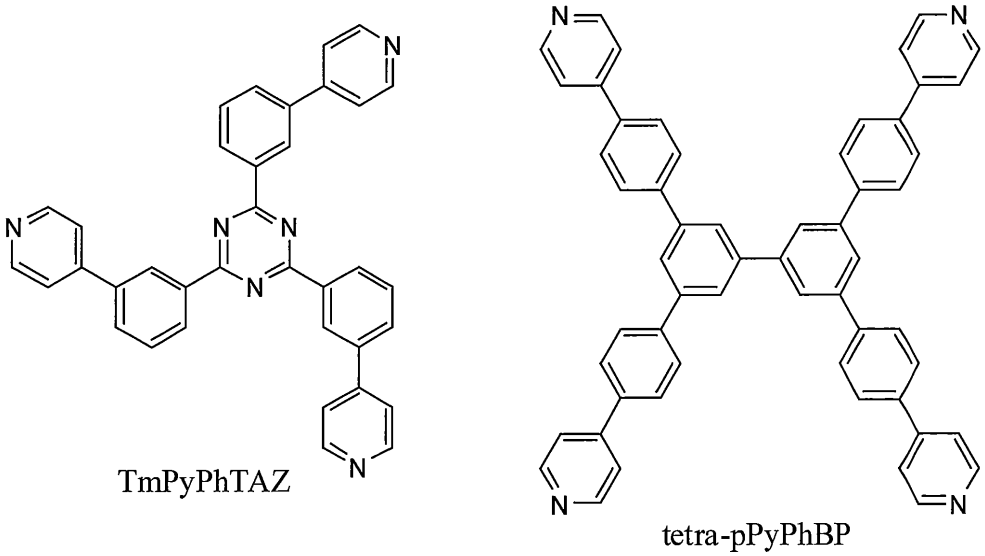
【化２６】



また、いずれも本出願人の出願に係る電子輸送材料である、特開２００７－１３７８２

９号公報に記載された「ＴｍＰｙＰｈＴＡＺ」、特開２００８－０６３２３２号公報に記載された「ｔｅｔｒａ－ｐＰｙＰｈＢＰ」（下記式参照）などを用いることもできる。

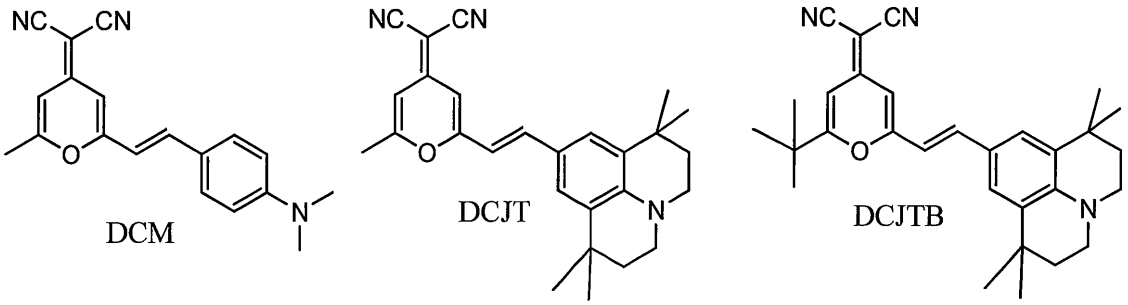
【化２７】



【００５６】

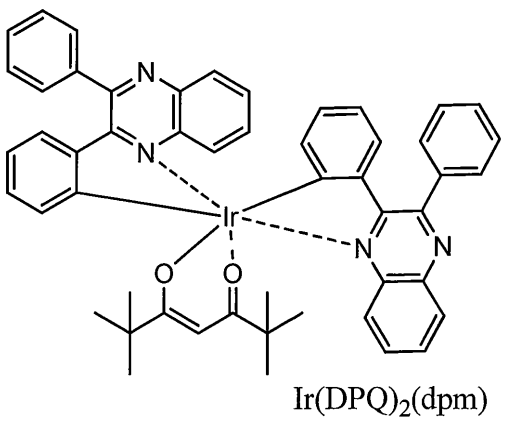
発光層には、一般的に使用されている発光材料を特に制限なく使用することができる。その例としては、下記式で示されるピラン誘導体が挙げられる。しかし、これらは蛍光材料であり、内部量子効率が最大２５％であるため必ずしも効率が良い材料ではない。

【化２８】



そこで、本発明のトリアジン化合物と組み合わせて使用する発光材料としては、三重項励起子により内部量子効率が最大１００％である下記式のりん光材料〔Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）〕が好ましい。

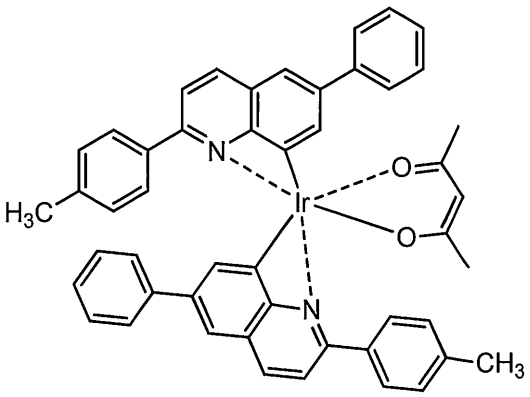
【化２９】



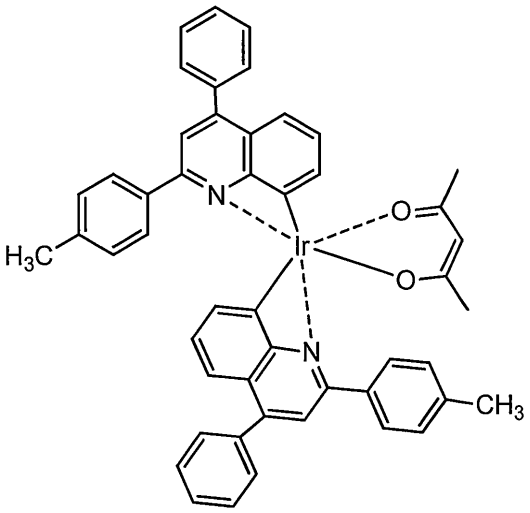
また、りん光材料としては、特開２００９－１３２６８８号公報記載の下記〔化３０〕の化合物、特開２００９－１４９６０７号公報記載の下記〔化３１〕の化合物、特開２０

０９－１６４６１４号公報記載の下記〔化３２〕の化合物、特開２０１３－１５５１５３号公報記載の下記〔化３３〕の化合物などを用いてもよい。なお、〔化３３〕の「Ｂｕ」はブチル基を意味する。

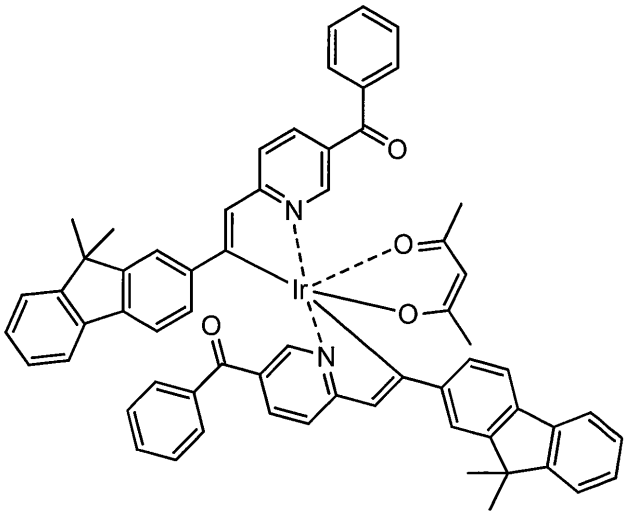
【化３０】



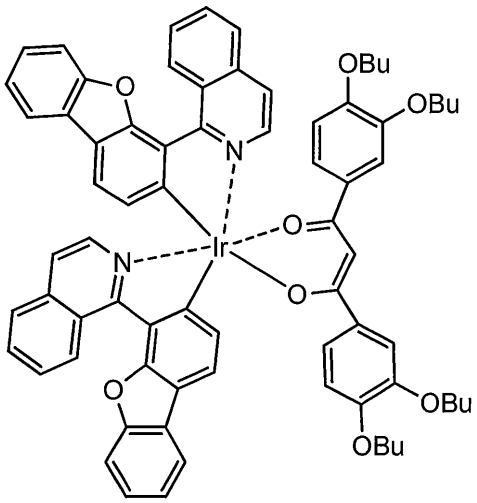
【化３１】



【化３２】



【化３３】

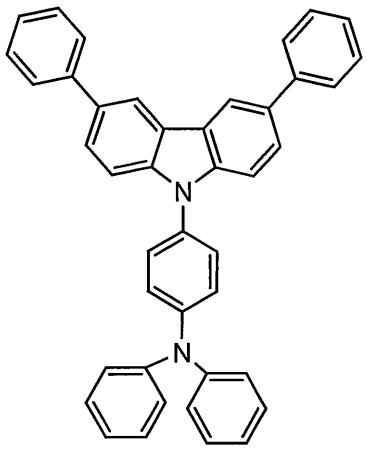


【００５７】

発光層は、ホスト材料と発光材料（ドーパント）から形成される［Ａｐｐｌ．Ｐｈｙｓ．Ｌｅｔｔ．，６５　３６１０（１９８９）］。発光材料は、その濃度消光を避け、また発光エネルギーを効率よく発光材料に移動させるためにホスト材料と組み合わせて使用する。発光材料の使用量は、ホスト材料に対して０．０１～４０重量％が好ましく、より好ましくは０．１～２０重量％である。

ホスト材料としては本発明のトリアジン化合物を用いることが好ましいが、その他のホスト材料、例えば本出願人の出願に係る特開２０１２－１６７０４６号公報記載の下記式の化合物などと組み合わせて用いることもできる。

【化３４】



【００５８】

本発明の有機ＥＬ素子は、ホール注入性を更に向上させる目的で陽極と有機化合物の層の間に有機導電体からなるホール注入層を設けてもよい。ホール注入材料としては、銅フタロシアニンなどのフタロシアニン誘導体、ポリフェニレンジアミン誘導体、ポリチオフェン誘導体、ＰＥＤＯＴ－ＰＳＳ（ポリエチレンジオキシチオフェン－ポリスチレンスルホン酸）などが挙げられる。

【００５９】

ホール注入層やホール輸送層の形成方法は特に限定されず、例えば乾式製膜法（真空蒸着法、イオン化蒸着法など）、湿式製膜法［溶媒塗布法（スピンコート法、キャスト法、インクジェット法など）］が挙げられる。

電子輸送層の製膜については、湿式製膜法で行うと下層が溶出する恐れがあるため乾式製膜法（真空蒸着法、イオン化蒸着法など）に限定される。

必要に応じて上記の製膜法を併用しても構わない。

真空蒸着法によりホール輸送層、発光層、電子輸送層など作製する場合の真空蒸着条件は特に限定されないが、通常１０$^{-5}$Ｔｏｒｒ程度以下の真空下、５０～５００℃程度のボート温度（蒸着原温度）、－５０～３００℃程度の基板温度で、０．０１～５０ｎｍ／ｓｅｃ．程度蒸着することが好ましい。また、正孔輸送層、発光層、電子輸送層の各層を複数の化合物を用いて作製する場合、化合物を入れたボートをそれぞれ温度制御しながら共蒸着することが好ましい。

【００６０】

溶媒塗布法によりホール注入層やホール輸送層を作製する場合、各層を構成する成分を溶媒に溶解又は分散させて塗布液とする。溶媒としては、炭化水素系溶媒（例えばヘプタン、トルエン、キシレン、シクロヘキサン等）、ケトン系溶媒（例えばアセトン、メチルエチルケトン、メチルイソブチルケトン等）、ハロゲン系溶媒（例えばジクロロメタン、クロロホルム、クロロベンゼン、ジクロロベンゼン等）、エステル系溶媒（例えば酢酸エチル、酢酸ブチル等）、アルコール系溶媒（例えばメタノール、エタノール、プロパノール、ブタノール、メチルセロソルブ、エチルセロソルブ等）、エーテル系溶媒（例えばジブチルエーテル、テトラヒドロフラン、１，４－ジオキサン、１，２－ジメトキシエタン等）、非プロトン性溶媒（例えばＮ，Ｎ′－ジメチルアセトアミド、ジメチルスルホキシド等）、水等が挙げられる。溶媒は単独で使用しても、複数の溶媒を併用してもよい。

【００６１】

ホール輸送層、発光層、電子輸送層等の各層の膜厚は特に限定されないが、通常の場合５～５０００ｎｍになるようにする。

本発明の有機ＥＬ素子は、酸素や水分等の接触を遮断する目的で保護層（封止層）を設けたり、不活性物質中に素子を封入して保護したりしてもよい。不活性物質としては、パラフィン、シリコンオイル、フルオロカーボン等が挙げられる。保護層に使用する材料としては、フッ素樹脂、エポキシ樹脂、シリコーン樹脂、ポリエステル、ポリカーボネート、光硬化性樹脂等が挙げられる。

【００６２】

本発明の有機ＥＬ素子は直流駆動の素子として使用できる。直流電圧を印加する場合には、陽極をプラス、陰極をマイナスの極性として通常１．５～２０Ｖ程度印加すると発光が観察される。また、本発明の有機ＥＬ素子は交流駆動の素子としても使用できる。交流電圧を印加する場合には、陽極がプラス、陰極がマイナスの状態になった時に発光する。

本発明の有機ＥＬ素子は、複写機、プリンター、液晶ディスプレイのバックライトなどの各種照明等に使用することができるが、最近特に産業上で普及してきた植物の屋内栽培では、植物の生育上、赤色の光源が欠くべからざるものであり、そのような用途で使用するのに非常に適している。

【００６３】

図７２～図７９に、本発明の有機ＥＬ素子の好ましい例の断面図を示す。

図７２は、基板１上に陽極２、正孔輸送層５、発光層３、電子輸送層６及び陰極４を順次設けた例である。これはキャリア輸送と発光の機能を分離したものであり、材料選択の自由度が増すため、発光の高効率化や発光色の自由度が増すことになる。

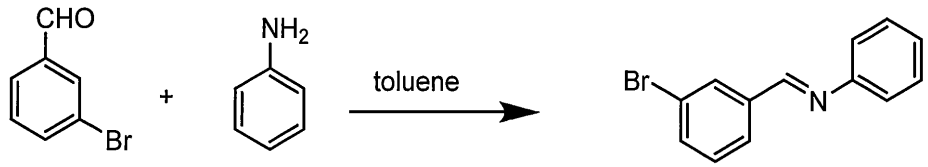
図７３は、基板１上に陽極２、ホール注入層７、ホール輸送層５、発光層３、電子輸送層６及び陰極４を順次設けた例である。この場合、ホール注入層７を設けることにより、陽極２とホール輸送層５の密着性を高め、陽極からのホールの注入を良くし、発光素子の低電圧化に効果がある。

図７４は、基板１上に陽極２、ホール輸送層５、発光層３、電子輸送層６、電子注入層８及び陰極４を順次設けた例である。この場合、陰極４から電子の注入を良くし、発光素子の低電圧化に効果がある。

図７５は、基板１上に陽極２、ホール注入層７、ホール輸送層５、発光層３、電子輸送層６、電子注入層８及び陰極４を順次設けた例である。この場合、陽極２からホールの注入を良くし、陰極４から電子注入を良くし、最も低電圧駆動に効果がある構成である。

【００６４】
図７６～図７９は素子の中にホールブロック層を挿入したものの断面図である。ホールブロック層は、陽極から注入されたホール、あるいは発光層３で再結合により生成した励起子が陰極４に抜けることを防止する効果があり、有機ＥＬ素子の発光効率の向上に効果がある。ホールブロック層９については、発光層３と陰極４の間又は発光層３と電子輸送層６の間又は発光層３と電子注入層８の間に挿入することができる。より好ましいのは発光層３と電子輸送層６の間である。
図７６～図７９において、ホール輸送層５、ホール注入層７、電子輸送層６、電子注入層８、発光層３、ホールブロック層９の各層は、一層構造でも多層構造でもよい。
なお、上記図７２～図７９は、あくまでも基本的な素子構成であり、本発明のトリアジン化合物を用いた有機ＥＬ素子の構成はこれらに限定されるものではない。
【実施例】
【００６５】
以下、実施例を示して本発明を更に具体的に説明するが、本発明はこれらの実施例により何ら限定されるものではない。
なお、最初に一般式〔１〕及び一般式〔２〕で示されるトリアジン化合物を合成する際に必要な中間体の合成例１～２７を示し、次いで該中間体を用いた前記トリアジン化合物の合成例を実施例として示す。
また、例中の融点の後の（ＤＳＣ）という記載は、示差走査熱量計（ＤＳＣ）で測定した融点を意味する。
また、図３～図６、図８、図１５、図２８中の「ＤＢＴ－ＴＲＺ」は実施例１で合成した「ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ」のことである。
【００６６】
合成例１
２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

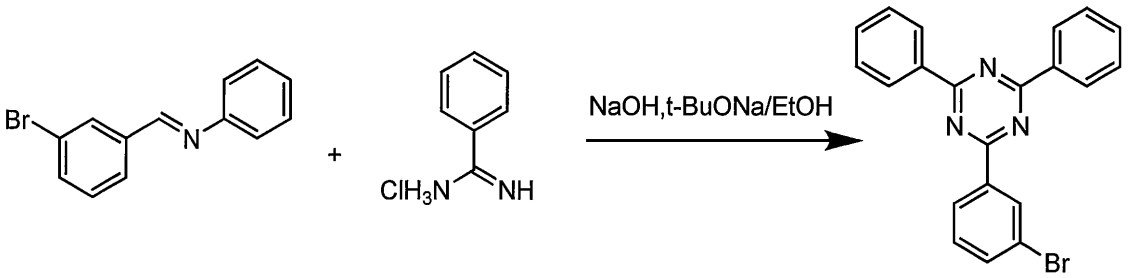
＜１＞　Ｎ－［（３－ブロモフェニル）メチレン］ベンゼンアミンの合成
【化３５】



本化合物は、国際公開２０１３／１７２８３５号パンフレットを参照して下記の手順で合成した。
撹拌装置、アーリン冷却管をセットしたディーンスターク管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、トルエン５００ｍＬ、ｍ－ブロモベンズアルデヒド５０．０ｇ（０．２７ｍｏｌ）、アニリン２５．０ｇ（０．２６８ｍｏｌ）を入れ、窒素気流下、トルエン還流温度で８時間反応させた。その際に発生する水は、トルエンと共沸させてディーンスターク管に溜めた。
得られた反応液を室温に戻し、減圧下でトルエンを留去し、油状物７４．８ｇ（収率１０６．５％）を得た。得られた油状物は精製することなく次の反応に使用した。

＜２＞　２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

【化３６】



本化合物は、例えば特開２０１５－５２６８８７号公報記載の方法を用いて下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得たベンゼンアミン７４．８ｇ（０．２６８ｍｏｌ）、ベンズアミジン塩酸塩８４．６ｇ（０．５４ｍｏｌ）、水酸化ナトリウム２２．７ｇ（０．５７ｍｏｌ）、エタノール５００ｍＬを入れ、窒素気流下、エタノール還流温度で１８時間反応させた。次いで一旦室温まで冷却し、ナトリウムターシャルブチラート１０．８ｇ（０．１１２ｍｏｌ）を加え、再び窒素気流下、エタノール還流温度で１６時間反応させた。

得られた反応液を室温まで冷却し、析出した結晶を吸引ろ過した。次いで、ヌッチェに残った結晶をエタノールと水で十分に洗い、白色の目的化合物２８．０ｇ（収率２６．７％）を得た。融点は２３１．４７℃（ＤＳＣ）であった。

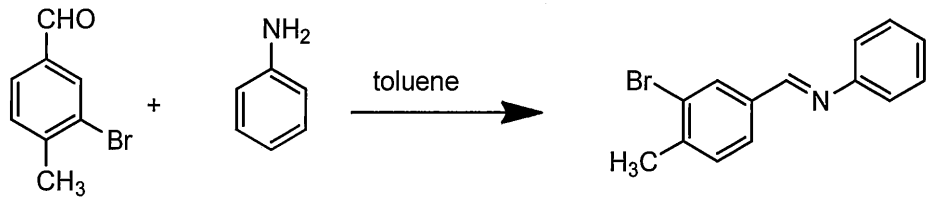
【００６７】

合成例２

２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

＜１＞　Ｎ－［（３－ブロモ－４－メチルフェニル）メチレン］ベンゼンアミンの合成

【化３７】



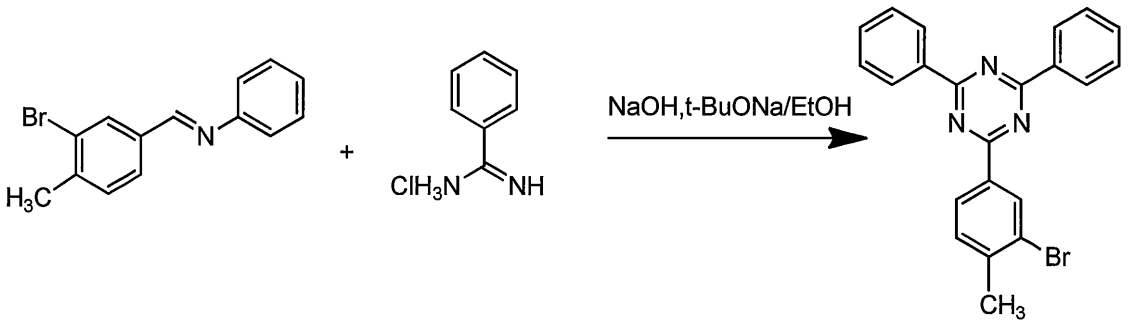
本化合物は、合成例１の＜１＞におけるｍ－ブロモベンズアルデヒドに代えて３－ブロモ－４－トルアルデヒドを用い、下記の手順で合成した。

撹拌装置、アーリン冷却管をセットしたディーンスターク管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、トルエン４２０ｍＬ、３－ブロモ－４－トルアルデヒド４４．５ｇ（０．２２ｍｏｌ）、アニリン２０．８ｇ（０．２２ｍｏｌ）を入れ、窒素気流下、トルエン還流温度で８時間反応させた。その際に発生する水はトルエンと共沸させてディーンスターク管に溜めた。

得られた反応液を室温に戻し、減圧下でトルエンを留去し、油状物６４．４ｇ（収率１０５．３％）を得た。得られた油状物は精製することなく次の反応に使用した。

＜２＞　２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

【化３８】



本化合物も、合成例１の＜２＞の方法を援用して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得たベンゼンアミン６４．２ｇ（０．２２ｍｏｌ）、ベンズアミジン塩酸塩６９．８ｇ（０．４５ｍｏｌ）、水酸化ナトリウム１９．０ｇ（０．４８ｍｏｌ）、エタノール４２０ｍＬを入れ、窒素気流下、エタノール還流温度で１８時間反応させた。次いで一旦室温まで冷却し、ナトリウムターシャルブチラート９．１ｇ（０．０９４ｍｏｌ）を加え、再び窒素気流下、エタノール還流温度で１６時間反応させた。

得られた反応液を室温まで冷却し、析出した結晶を吸引ろ過した。次いで、ヌッチェに残った結晶をエタノールと水で十分に洗い、白色の目的化合物３０．３ｇ（収率３３．８％）を得た。融点は１７６．８２℃（ＤＳＣ）であった。

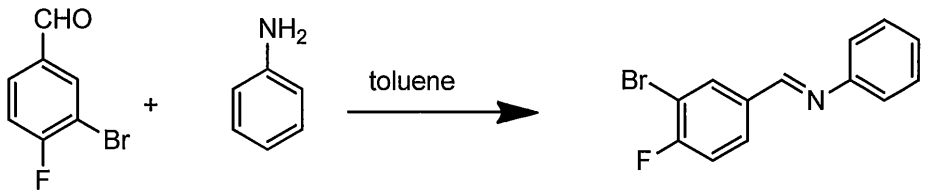
【００６８】

合成例３

２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

＜１＞　Ｎ－［（３－ブロモ－４－フルオロフェニル）メチレン］ベンゼンアミンの合成

【化３９】



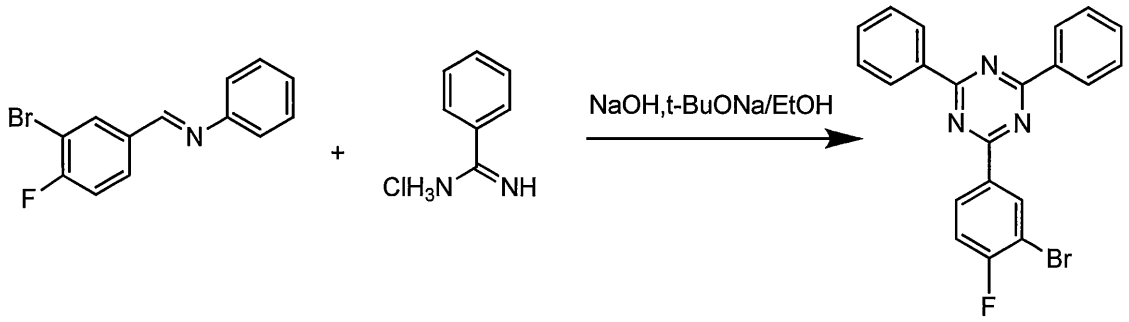
本化合物は、合成例１の＜１＞におけるｍ－ブロモベンズアルデヒドに代えて３－ブロモ－４－フルオロベンズアルデヒドを用い、下記の手順で合成した。

撹拌装置、アーリン冷却管をセットしたディーンスターク管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、トルエン４６０ｍＬ、３－ブロモ－４－フルオロベンズアルデヒド５０．０ｇ（０．２５ｍｏｌ）、アニリン２３．０ｇ（０．２５ｍｏｌ）を入れ、窒素気流下、トルエン還流温度で８時間反応させた。その際発生する水は、トルエンと共沸させてディーンスターク管に溜めた。

得られた反応液を室温に戻し、減圧下でトルエンを留去して、油状物７３．６ｇ（収率１０７．５％）を得た。得られた油状物は精製することなく次の反応に使用した。

＜２＞　２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの合成

【化４０】



本化合物も、合成例１の＜２＞の方法を援用して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得たベンゼンアミン６４．２ｇ（０．２２ｍｏｌ）、ベンズアミジン塩酸塩６９．８ｇ（０．４５ｍｏｌ）、水酸化ナトリウム１９．０ｇ（０．４８ｍｏｌ）、エタノール４２０ｍＬを入れ、窒素気流下、エタノール還流温度で１８時間反応させた。次いで一旦室温まで冷却し、ナトリウムターシャルブチラート９．１ｇ（０．０９４ｍｏｌ）を加え、再び窒素気流下、エタノール還流温度で１６時間反応させた。

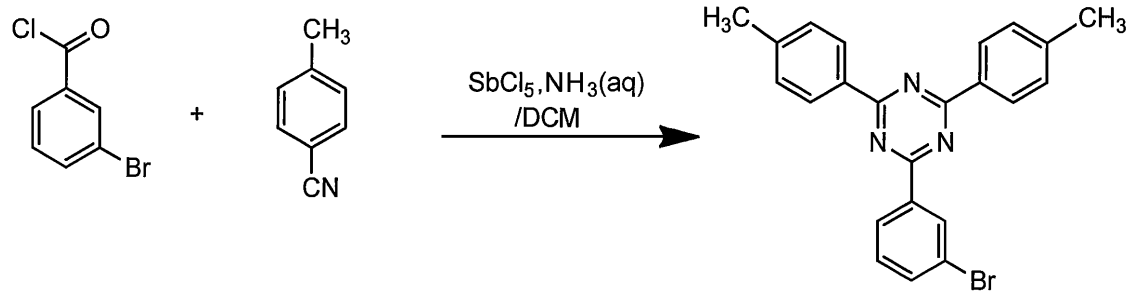
得られた反応液を室温まで冷却し、析出した結晶を吸引ろ過した。次いで、ヌッチェに残った結晶をエタノールと水で十分に洗い、白色の目的化合物２２．２ｇ（収率２２．２％）を得た。融点は２０２．６７℃（ＤＳＣ）であった。

【００６９】

合成例４

２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの合成

【化４１】



本化合物は、特開２０１３－２５６４９０号公報を参照して下記の手順で合成した。

撹拌装置、ジムロート冷却管、窒素導入管、２５ｍＬ滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、ジクロロメタン（ＤＣＭ）１５０ｍＬ、３－ブロモベンゾイルクロライド２４．１ｇ（０．１０３ｍｏｌ）、ｐ－トルニトリル２２．７ｇ（０．２１８ｍｏｌ）を入れ、氷水浴で－１０℃程度まで冷却した。次いで、窒素気流下、五塩化アンチモン（$SbCl_5$）３３．０ｇ（０．１１ｍｏｌ）を発熱に注意しながら０℃以下で滴下した。次いで、３０分氷浴させたのち室温に戻し、ＤＣＭが穏やかに還流する温度で１２時間反応させた。次いで室温まで冷却して結晶を吸引ろ過し、２００ｍＬ程度のＤＣＭで洗い、４０℃の乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコに２８％アンモニア水７５０ｍＬを入れ、氷水浴で－５℃程度まで冷却した。次いで乾燥させた前記結晶の全量をゆっくりと投入した後、氷水浴で１５分撹拌し、更に室温に戻して３時間撹拌した。次いで結晶を吸引ろ過し、アンモニア臭がなくなるまで水洗した。得られた結晶は、６０℃の真空乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管及び温度計をセットした５００ｍＬの４つ口丸底フ

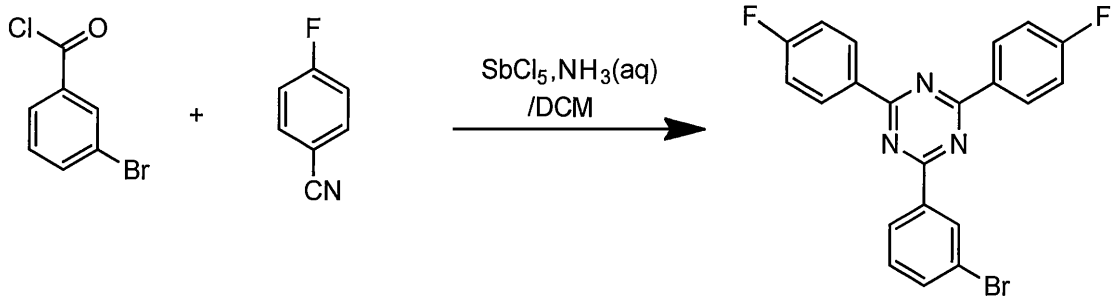
ラスコに、３００ｍＬのジメチルホルムアミド（ＤＭＦ）と、前記真空乾燥機で乾燥させた結晶を入れ、ＤＭＦ還流温度で１時間撹拌した後、熱ろ過してろ液を回収した。ヌッチェ上に残った結晶は更にＤＭＦ３００ｍＬと共に還流温度で溶かし熱ろ過した。この操作を更にもう１度繰り返し、回収した全てのＤＭＦ溶液を、撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに移し、析出している結晶を加熱して一旦溶解させた後、室温まで冷却して結晶を得た。この結晶を吸引ろ過してエタノール２００ｍＬで洗い、６０℃の乾燥機で乾燥させて、１９．４ｇ（４２．７％）の目的化合物を得た。融点は１８９．６５℃（ＤＳＣ）であった。

【００７０】

合成例５

２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの合成

【化４２】



本化合物は、合成例４におけるｐ－トルニトリルに代えてｐ－フルオロベンゾニトリルを用い、下記の手順で合成した。

撹拌装置、ジムロート冷却管、窒素導入管、２５ｍＬ滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、ＤＣＭ１５０ｍＬ、３－ブロモベンゾイルクロライド２４．１ｇ（０．１０３ｍｏｌ）、ｐ－フルオロベンゾニトリル２６．４ｇ（０．２１８ｍｏｌ）を入れ、氷水浴で－１０℃程度まで冷却した。次いで、窒素気流下、$SbCl_5$ ３３．０ｇ（０．１１ｍｏｌ）を発熱に注意しながら０℃以下で滴下し、３０分氷浴させたのち室温に戻し、ＤＣＭが穏やかに還流する温度で１２時間反応させた。次いで、室温まで冷却して結晶を吸引ろ過し、２００ｍＬ程度のＤＣＭで洗い、４０℃の乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコに、２８％アンモニア水７５０ｍＬを入れ、氷水浴で－５℃程度まで冷却した。次いで、乾燥させた前記結晶の全量をゆっくりと投入した後、反応液を氷水浴で１５分撹拌し、更に室温に戻して３時間撹拌した。次いで結晶を吸引ろ過し、アンモニア臭がなくなるまで水洗し、６０℃の真空乾燥機中で１昼夜乾燥させた。

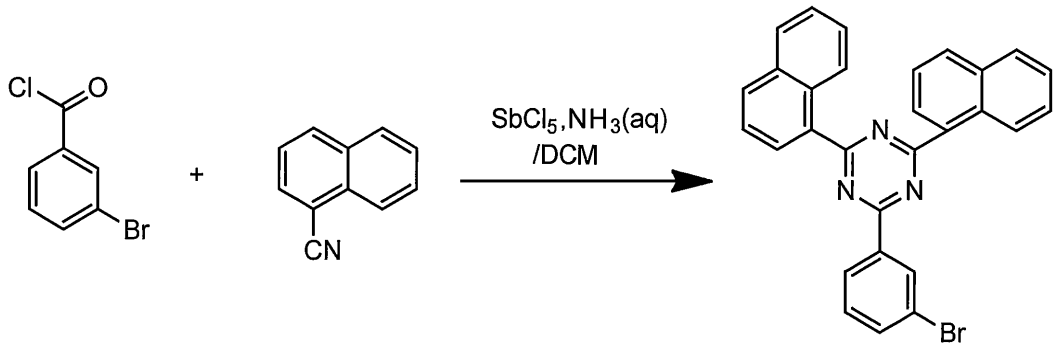
次に、撹拌装置、リービッヒ冷却管及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、３００ｍＬのＤＭＦと、前記真空乾燥機で乾燥させた結晶を加え、ＤＭＦ還流温度で１時間撹拌した。次いでＤＭＦ溶液を熱ろ過しろ液を回収した。ヌッチェ上に残った結晶は更にＤＭＦ３００ｍＬと共に還流温度で溶かし熱ろ過した。この操作を更にもう１度繰り返し、回収した全てのＤＭＦ溶液を、撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに移し、析出している結晶を加熱して一旦溶解させた後、室温まで冷却して結晶を析出させた。この結晶を吸引ろ過し、エタノール２００ｍＬで洗い、６０℃の乾燥機で乾燥させて、２９．５ｇ（収率は６３．３％）の目的化合物を得た。融点は、２２５．９８℃（ＤＳＣ）であった。

【００７１】

合成例６

２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの合成

【化４３】



本化合物は、合成例４におけるｐ－トルニトリルに代えて１－ナフトニトリルを用い、下記の手順で合成した。

撹拌装置、ジムロート冷却管、窒素導入管、２５ｍＬ滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、ＤＣＭ１５０ｍＬ、３－ブロモベンゾイルクロライド２４．１ｇ（０．１０３ｍｏｌ）、１－ナフトニトリル３３．４ｇ（０．２１８ｍｏｌ）を入れ、氷水浴で－１０℃程度まで冷却した。次いで、窒素気流下、$SbCl_5$３３．０ｇ（０．１１ｍｏｌ）を発熱に注意しながら０℃以下で滴下した。次いで３０分氷浴させたのち室温に戻し、ＤＣＭが穏やかに還流する温度で１２時間反応させた。次いで、室温まで冷却して結晶を吸引ろ過し、２００ｍＬ程度のＤＣＭで洗い、４０℃の乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコに、２８％アンモニア水７５０ｍＬを入れ、氷水浴で－５℃程度まで冷却した。次いで、乾燥させた前記結晶の全量をゆっくりと投入した後、氷水浴で１５分撹拌し、更に室温に戻して３時間撹拌した。次いで、結晶を吸引ろ過し、アンモニア臭がなくなるまで水洗し、６０℃の真空乾燥機中で１昼夜乾燥させた。

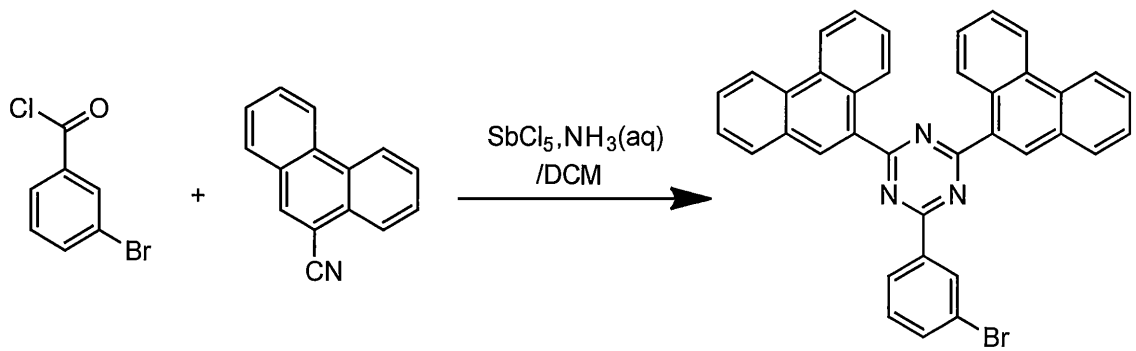
次に、撹拌装置、リービッヒ冷却管及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、３００ｍＬのＤＭＦと前記真空乾燥機で乾燥させた結晶を加え、ＤＭＦ還流温度で１時間撹拌した。次いで、ＤＭＦ溶液を熱ろ過し、ろ液を回収した。ヌッチェ上に残った結晶は更にＤＭＦ３００ｍＬと共に還流温度で溶かし熱ろ過した。この操作を更にもう１度繰り返し、回収した全てのＤＭＦ溶液を、撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに移し、析出している結晶を加熱して一旦溶解させた後、室温まで冷却して結晶を析出させた。この結晶を吸引ろ過し、エタノール２００ｍＬで洗い、６０℃の乾燥機で乾燥させて、２０．６ｇ（収率３８．７％）の目的化合物を得た。融点は１１０．５～１１１．３℃であった。

【００７２】

合成例７

２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの合成

【化４４】



本化合物は、合成例４におけるｐ－トルニトリルに代えて９－フェニナントロニトリルを用い、下記の手順で合成した。

撹拌装置、ジムロート冷却管、窒素導入管、１０ｍＬ滴下ロート及び温度計をセットした２００ｍＬの４つ口丸底フラスコに、ＤＣＭ６３ｍＬ、３－ブロモベンゾイルクロライド１０．０ｇ（４５．５ｍｍｏｌ）、９－フェニナントロニトリル１８．５ｇ（９１．１ｍｏｌ）を入れ、氷水浴で－１０℃程度まで冷却した。次いで、窒素気流下、$SbCl_5$ １３．８ｇ（４５．９ｍｍｏｌ）を発熱に注意しながら０℃以下の状態で滴下した。次いで３０分氷浴させたのち室温に戻し、ＤＣＭが穏やかに還流温度で１２時間反応させた。次いで室温まで冷却して結晶を吸引ろ過し、８０ｍＬ程度のＤＣＭで洗い、４０℃の乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコに２８％アンモニア水３８０ｍＬを入れ、氷水浴で－５℃程度まで冷却した。次いで乾燥させた前記結晶の全量をゆっくりと投入した後、氷水浴で１５分撹拌し、更に室温に戻して３時間撹拌した。次いで結晶を吸引ろ過し、アンモニア臭がなくなるまで水洗し、６０℃の真空乾燥機中で１昼夜乾燥させた。

次に、撹拌装置、リービッヒ冷却管及び温度計をセットした３００ｍＬの４つ口丸底フラスコに、１３０ｍＬのＤＭＦと前記真空乾燥機で乾燥させた結晶を加え、ＤＭＦ還流温度で１時間撹拌した。次いで室温まで冷却し、吸引ろ過して結晶を回収し、更にもう１度同様の操作を繰り返し、溶け残った結晶を吸引ろ過して回収し、エタノール６０ｍＬで洗った。その後、結晶を６０℃の乾燥機で乾燥させて２０．６ｇ（収率３８．７％）の目的化合物を得た。

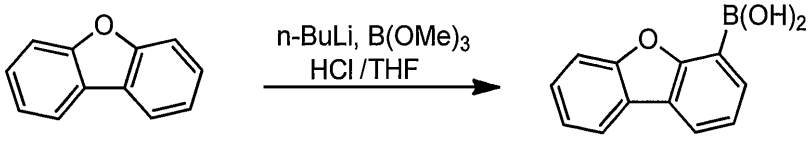
【００７３】

合成例８

３－（ジベンゾフラン－４－イル）フェニルボロン酸の合成

＜１＞　４－ジベンゾフランボロン酸の合成

【化４５】



本化合物は、下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ジベンゾフラン７５．０ｇ（０．４４５ｍｏｌ）と脱水テトラヒドロフラン（ＴＨＦ）９００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ブチルリチウムのｎ－ヘキサン溶液（濃度１．６Ｍ）（以下、ｎ－ＢｕＬｉと略称）３１０ｍＬ（０．４９８ｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、室温に戻して４時間撹拌した。次いで再度アセトン－ドライアイス浴で－６０℃以下に冷却し、ボロン酸トリメチル〔$B(OMe)_3$〕６０ｍＬ（０．５３８ｍｏｌ）を－４５℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外し、室温に戻して１５時間、後反応させて、ホウ素反応液を得た。

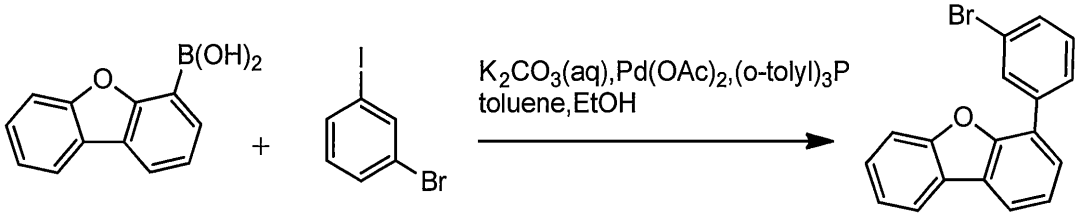
次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸３４０ｍＬと水８６０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル

４００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水４００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン３５０ｍＬを加え、５０℃で１時間撹拌したのち室温に戻し、吸引ろ過して６４．８ｇ（収率９３．８％）の目的化合物を得た。

＜２＞　４－（３－ブロモフェニル）ジベンゾフランの合成

【化４６】



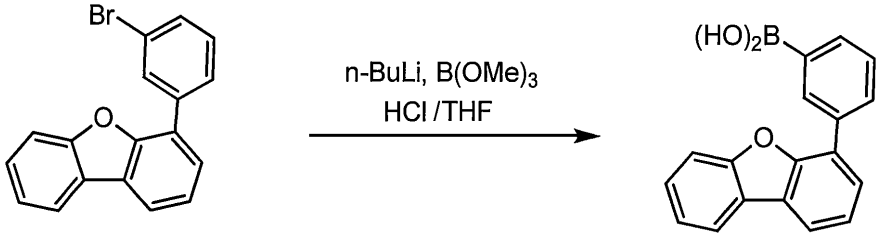
本化合物は、特開２０１１－０５１９３６号公報を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得たボロン酸５７．５ｇ（２７１．８ｍｍｏｌ）、３－ヨードブロモベンゼン８４．７ｇ（２９８．７ｍｍｏｌ）、トルエン９００ｍＬ、エタノール４５０ｍＬ、炭酸カリウム７５．０ｇ（５４２．０ｍｍｏｌ）及び水２７０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで酢酸パラジウム０．３１ｇ（１．３４ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．８２ｇ（２．７１ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル２００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、６９．０ｇ（収率７８．８％）の目的化合物を得た。

＜３＞　３－（ジベンゾフラン－４－イル）フェニルボロン酸の合成

【化４７】



本化合物も、特開２０１１－０５１９３６号公報を参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜２＞で得たジベンゾフラン５７．５ｇ（１７７．９ｍｍｏｌ）と脱水ＴＨＦ９００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　１３５ｍＬ（２０５．３ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、－４５℃を超えない温度でＢ（ＯＭｅ）$_3$を２４．１ｇ（２３１．３ｍｍｏｌ）滴下し、等圧式滴下ロートをＴＨＦ２００ｍＬで洗って反応液に加えた。次いで、アセトン－ドライアイス浴で３０分、後反応させ、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び

温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸１９０ｍＬと水４８０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を２Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル４００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水４００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶に、ｎ－ヘプタン１７５ｍＬとトルエン７５ｍＬの混合溶液を加え、５０℃で１時間撹拌したのち室温に戻し、吸引ろ過して２６．５ｇ（収率５１．７％）の目的化合物を得た。

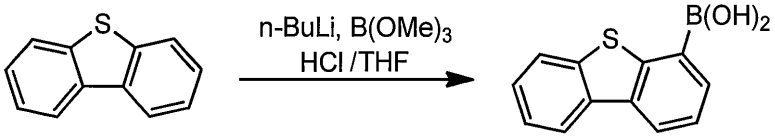
【００７４】

合成例９

３－（ジベンゾチオフェン－４－イル）フェニルボロン酸の合成

＜１＞　４－ジベンゾチオフェンボロン酸の合成

【化４８】



本化合物は、合成例８の＜１＞と同様にして下記の手順で合成した。

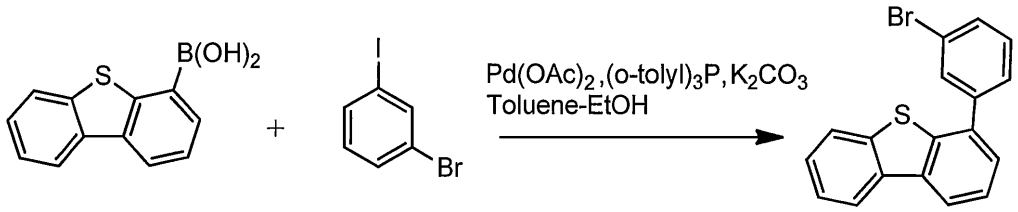
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、３００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ジベンゾチオフェン６０．０ｇ（０．３２６ｍｏｌ）と脱水ＴＨＦ９００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　２３０ｍＬ（０．３８５ｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、室温に戻して４時間撹拌した。次いで、再度アセトン－ドライアイス浴で－６０℃以下に冷却し、－４５℃以下でＢ（ＯＭｅ）$_3$を４５ｍＬ（０．４０４ｍｏｌ）滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外し、室温に戻して２０時間反応させ、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸３４０ｍＬと水８６０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を５Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル６００ｍＬで３回抽出した。次いで有機層を１つに纏め、１０％水酸化ナトリウム水溶液４００ｍＬで３回抽出した後、撹拌装置、リービッヒ冷却管、１０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに入れ、氷酢酸６００ｍＬで酸性にし、析出した結晶を吸引ろ過した。次いで、得られた結晶を酢酸臭がなくなるまで水洗し、６０℃の乾燥機中で乾燥させて、６２．５ｇ（収率８３．５％）の目的化合物を得た。

＜２＞　４－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化４９】



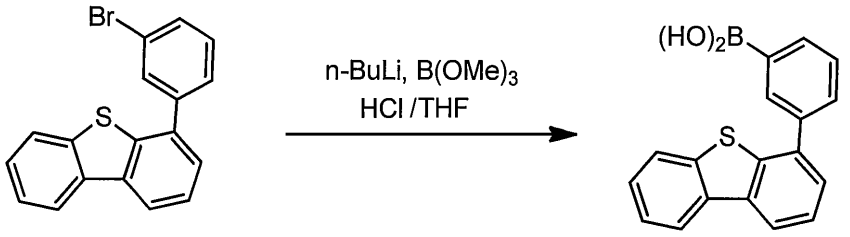
本化合物は、合成例８の＜２＞と同様にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得たボロン酸６２．０ｇ（２７１．８ｍｍｏｌ）、３－ヨードブロモベンゼン８４．７ｇ（２９８．７ｍｍｏｌ）、トルエン９００ｍＬ、エタノール４５０ｍＬ、炭酸カリウム７５．０ｇ（５４２．０ｍｍｏｌ）及び水２７０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム０．３１ｇ（１．３４ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．８２ｇ（２．７１ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル２００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、８７．８ｇ（収率９５．２％）の目的化合物を得た。

＜３＞　３－（ジベンゾチオフェン－４－イル）フェニルボロン酸の合成

【化５０】



本化合物は、合成例８の＜３＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜２＞で得た臭化物８７．５ｇ（２５８．２ｍｍｏｌ）と脱水ＴＨＦ１３５０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　２００ｍＬ（３２０．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、－４５℃を超えない温度でＢ（ＯＭｅ）$_3$を３５．２ｇ（３３６．８ｍｍｏｌ）滴下した。次いで等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させたのち室温に戻し、更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸２８５ｍＬと水７１５ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル５００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水５００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶にｎ－ヘプタン３５０ｍＬとトルエン１５０ｍＬ

の混合溶液を加え、５０℃で１時間撹拌したのち室温に戻し、吸引ろ過して４９．５ｇ（収率６３．１％）の目的化合物を得た。

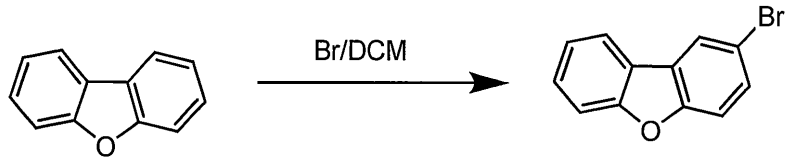
【００７５】

合成例１０

３－（ジベンゾフラン－２－イル）フェニルボロン酸エステルの合成

＜１＞　２－ブロモジベンゾフランの合成

【化５１】



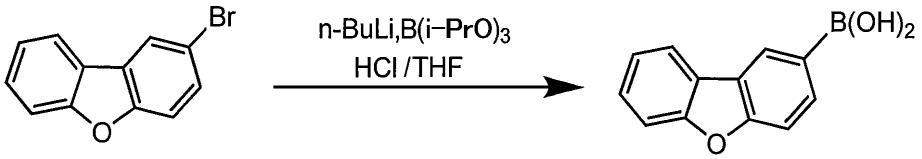
本化合物は、国際公開２０１３／１１８５０７号パンフレットを参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ジベンゾフラン１３６．８ｇ（０．８１３ｍｏｌ）とＤＣＭ９００ｍＬを入れ、窒素気流下、氷水浴で－５℃以下に冷却した。次いで、窒素気流下、臭素１３１．３ｇ（１．６２ｍｏｌ）をＤＣＭ２１０ｍＬで希釈した溶液を－５℃以下で１．５時間かけて滴下した。次いで氷水浴のまま０．５時間撹拌した後、氷水浴を外して室温で２０時間撹拌した。

得られた反応液を２Ｌの分液ロートに移し、ＤＣＭ層を、水６９０ｍＬ、２０％チオ硫酸ナトリウム水２１０ｍＬ、水３００ｍＬの順で洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶をメタノールで再結晶させ、目的の臭化物を１４５．０ｇ（収率７２．１％）得た。融点は１０９．３～１１０．５℃であった。

＜２＞　２－ジベンゾフランボロン酸の合成

【化５２】



本化合物も、国際公開２０１３／１１８５０７号パンフレットを参照して下記の手順で合成した。

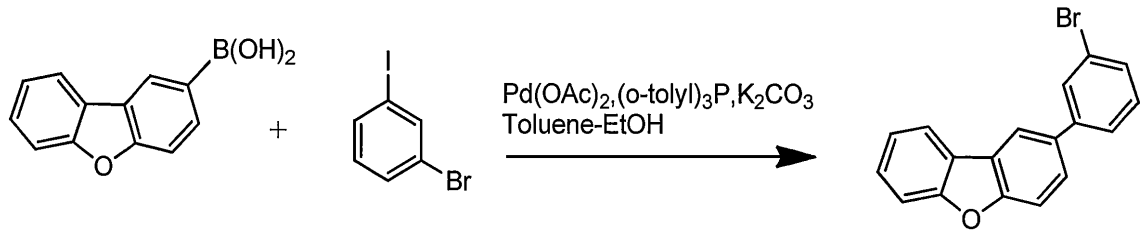
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物１１０．４ｇ（０．４４６ｍｏｌ）と脱水ＴＨＦ１０００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　４２０ｍＬ（０．６７２ｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ２００ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、ホウ酸イソプロピル〔Ｂ（ｉ－ＰｒＯ）$_3$〕２１０ｍＬ（０．９１５ｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ１４０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外し、室温に戻して２０時間、後反応させて、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸７６ｍＬと水７６４ｍＬを入れ氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル８４０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水５６０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン５３０ｍＬを加え、５０℃で１時間リンスしたのち室温まで冷却し、吸引ろ過して目的のボロン酸を５８．２ｇ（収率６１．４％）得た。

＜３＞　２－（３－ブロモフェニル）ジベンゾフランの合成

【化５３】



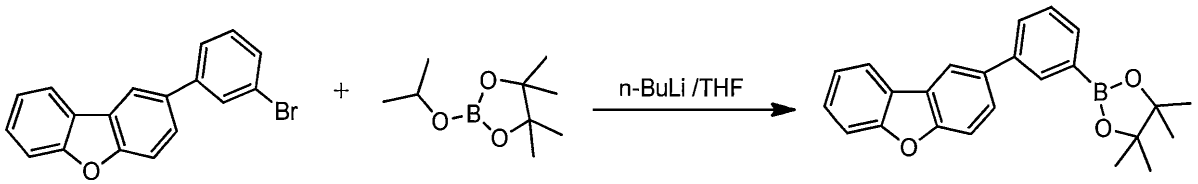
本化合物は、合成例８の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たボロン酸２１．７ｇ（１０２．４ｍｍｏｌ）、３－ヨードブロモベンゼン３１．８ｇ（１１２．４ｍｍｏｌ）、トルエン３４０ｍＬ、エタノール１７０ｍＬ、炭酸カリウム２８．２ｇ（２０３．９ｍｍｏｌ）及び水１０２ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで酢酸パラジウム０．１１ｇ（０．４７ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３１ｇ（１．０２ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２４．８ｇ（収率７５．８）を得た。

＜４＞　３－（ジベンゾフラン－２－イル）フェニルボロン酸エステルの合成

【化５４】



本化合物は、合成例８の＜３＞を参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得た臭化物２４．８ｇ（７６．７ｍｍｏｌ）と脱水ＴＨＦ１６０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いでｎ－ＢｕＬｉ　５９ｍＬ（９２．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。更に、－５０℃以下で１時間、後反応させた後、－４５℃を超えない温度で２－イソプロポキシ－４，４，５，５，－テトラメチル－１，３，２－ジオキサボロラン１５．６ｇ（９２．０ｍｍｏｌ）を滴下した。次いで等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させた。

得られた反応液に水７０ｍＬと酢酸エチル５０ｍＬを加えて３０分撹拌し、静置したのち分液した。有機層は更に飽和食塩水７５ｍＬで洗い硫酸マグネシウムで乾燥させた後、

硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗オイルをシリカゲルカラムクロマトグラフィー（展開溶媒：トルエン）で精製した後、ｎ－オクタンで再結晶させ、１４．１ｇ（収率６７．５％）の目的化合物を得た。融点は１６５．７～１６６．７℃であった。

【００７６】

合成例１１

３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステルの合成

＜１＞　２－ブロモジベンゾチオフェンの合成

【化５５】

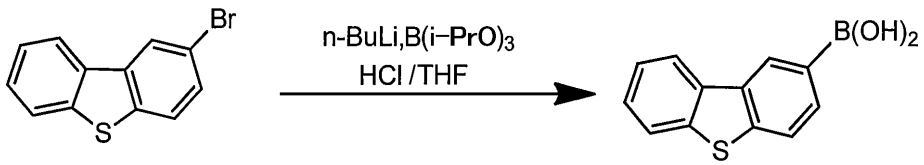
本化合物は、合成例１０の＜１＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ジベンゾチオフェン１５０．０ｇ（０．８１３ｍｏｌ）とＤＣＭ９００ｍＬを入れ、窒素気流下、氷水浴で－５℃以下に冷却した。次いで、窒素気流下、臭素１３１．３ｇ（１．６２ｍｏｌ）をＤＣＭ２１０ｍＬで希釈した溶液を－５℃以下で１．５時間かけて滴下した後、氷水浴のまま０．５時間撹拌し、更に氷水浴を外して室温で２０時間撹拌した。

得られた反応液を２Ｌの分液ロートに移し、ＤＣＭ層を、水６９０ｍＬ、２０％チオ硫酸ナトリウム水２１０ｍＬ、水３００ｍＬの順で洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶をアセトニトリルで再結晶させ、目的の臭化物１６２．８ｇ（収率７６．０％）を得た。融点は１１８．５～１２０．１℃であった。

＜２＞　２－ジベンゾチオフェンボロン酸の合成

【化５６】



本化合物は、合成例１０の＜２＞と同様にして下記の手順で合成した。

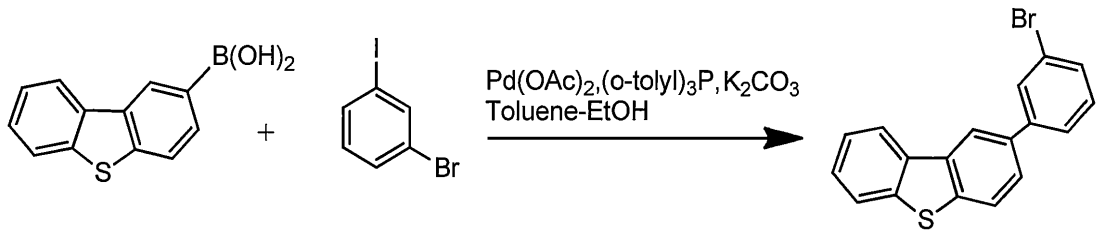
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物９１．３ｇ（０．３４７ｍｏｌ）と脱水ＴＨＦ８００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ３３０ｍＬ（０．５２８ｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ２００ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、〔Ｂ（ｉ－ＰｒＯ）$_3$〕１６０ｍＬ（０．６９７ｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ１３０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２０００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸５９ｍＬと水５９１ｍＬを入れ氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はＤＣＭ８１０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水５４０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン４５０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却して吸引ろ過し、目的のボロン酸６３．６ｇ（収率８０．６％）を得た。

＜３＞　２－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化５７】



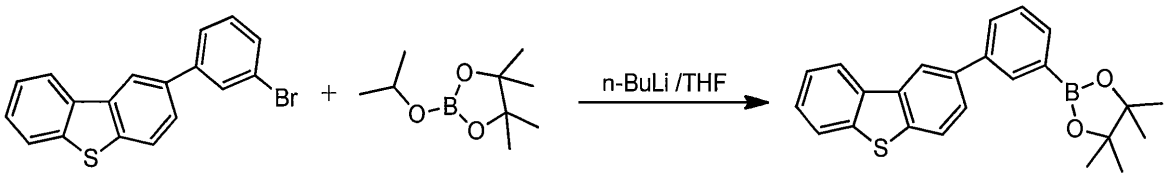
本化合物は、合成例１０の＜３＞と同様にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たボロン酸２４．０ｇ（１０５．２ｍｍｏｌ）、３－ヨードブロモベンゼン３２．８ｇ（１１５．６ｍｍｏｌ）、トルエン３５０ｍＬ、エタノール１７５ｍＬ、炭酸カリウム２９．０ｇ（２０９．８ｍｍｏｌ）及び水１０５ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで酢酸パラジウム０．１２ｇ（０．５１ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３２ｇ（１．０５ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２６．７ｇ（収率７４．８％）を得た。

＜４＞　３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステルの合成

【化５８】



本化合物は、合成例１０の＜４＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得た臭化物３５．６ｇ（１０５．２ｍｍｏｌ）と脱水ＴＨＦ２３０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　８０ｍＬ（１２８．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、２－イソプロポキシ－４，４，５，５，－テトラメチル－１，３，２－ジオキサボロラン２１．４ｇ（１２６．２ｍｍｏｌ）を－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させた。

得られた反応液に水１００ｍＬと酢酸エチル８５ｍＬを加えて３０分撹拌し、静置したのち分液した。次いで有機層を飽和食塩水１２５ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得ら

れた粗オイルをシリカゲルカラムクロマトグラフィー（展開溶媒：トルエン）で精製した後、ｎ－オクタンで再結晶させ、２６．７ｇ（収率７１．２％）の目的化合物を得た。融点は１４７．２～１４８．０℃であった。

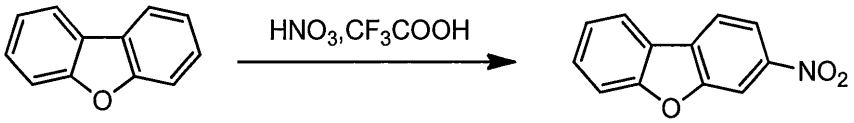
【００７７】

合成例１２

３－（ジベンゾフラン－３－イル）フェニルボロン酸の合成

＜１＞　３－ニトロジベンゾフランの合成

【化５９】



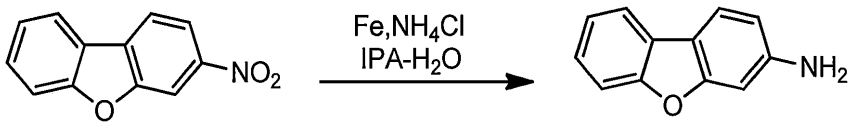
本化合物は、日本化学会誌５５巻２号６２９頁（１９８２年）を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、温度計、窒素導入管及び２００ｍＬ滴下ロートをセットした１Ｌの４つ口丸底フラスコに、ベンゾフラン４０．０ｇ（０．２４ｍｏｌ）及びトリフルオロ酢酸５００ｍＬを入れ、氷水浴で０℃以下に冷却した。次いで窒素気流下、硝酸（ｄ＝１．５２）１８．２ｇ（０．２９ｍｏｌ）を溶かしたトリフルオロ酢酸１００ｍＬを、反応液が０℃を超えないように滴下した後、０℃以下で１時間、後反応させて反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、温度計、及び２００ｍＬ滴下ロートをセットした５Ｌの４つ口丸底フラスコに、粉砕した氷３Ｋｇを加えてゆっくり撹拌しながら、上記反応液をゆっくりと投入し、析出した結晶を吸引ろ過した。ヌッチェ上の結晶を、水６００ｍＬ、５％炭酸カリウム水溶液５００ｍＬ、水１０００ｍＬの順で洗い、６０℃の真空乾燥機中で乾燥させて粗結晶を得た。次いで酢酸３５０ｍＬで再結晶させ、目的のニトロ化合物３８．７ｇ（収率７６．０％）を得た。融点は１８１．７℃～１８２．８℃であった。

＜２＞　３－アミノジベンゾフランの合成

【化６０】



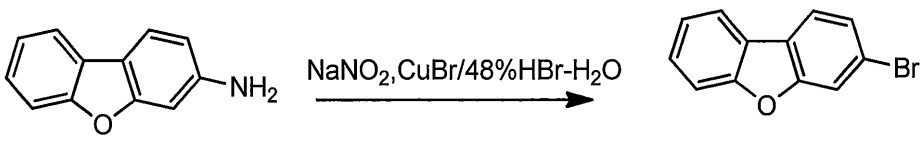
本化合物は、Ｊｏｕｒｎａｌ　ｏｆ　Ｍｅｄｉｃｉｎａｌ　Ｃｈｅｍｉｓｔｒｙ，４６（１２），２４３６－２４４５；２００３を参考にして下記の手順で合成した。

撹拌装置、アーリン冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得たニトロ化合物３６．０ｇ（０．１６７ｍｏｌ）、イソプロピルアルコール６００ｍＬ、水９０ｍ及び塩化アンモニウム２６．９ｇ（０．５０１ｍｏｌ）を入れ、室温で撹拌した。次いで、鉄粉９３．３ｇ（１．６７ｍｏｌ）を分割的に投入した後、穏やかに還流温度まで加熱し、１１時間反応させた。

得られた反応液を室温まで冷却し、セライトを用いて鉄粉を除去し、減圧下で溶媒を留去した。次いで得られた粗結晶を、ｎ－ヘキサンと酢酸エチルの混合溶媒によるシリカゲルカラムクロマトグラフィーで精製して、目的のアミン化合物１９．５ｇ（収率６２．７％）を得た。融点は８２．７～８３．４℃であった。

＜３＞　３－ブロモジベンゾフランの合成

【化６１】



本化合物は、国際公開２００２／０７８６９３号パンフレットを参考にして下記の手順で合成した。

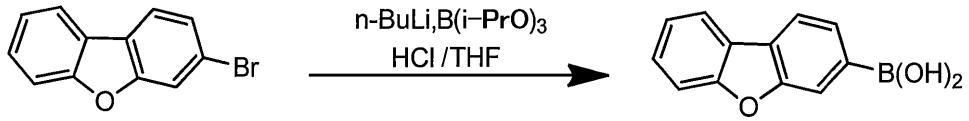
撹拌装置、リービッヒ冷却管（無くてもよい）、温度計、及び２００ｍＬ滴下ロートをセットした５００ｍＬの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物１９．０ｇ（１０２．６ｍｍｏｌ）、水１９０ｍＬ、４８％臭化水素酸５７ｍＬを入れ、一昼夜撹拌した。次いで、氷水浴で－１０℃まで冷却し、亜硝酸ナトリウム８．１ｇ（１１７．４ｍｍｏｌ）を水１５０ｍＬで溶解した溶液を、５℃以上温度が上がらないような条件で滴下し、ジアゾ化された反応液を５℃以下で１時間撹拌してジアゾニウム液を得た。

次に、撹拌装置、アーリン冷却管、温度計、及び５００ｍＬ滴下ロートをセットした１Ｌの４つ口丸底フラスコに、臭化第一銅１６．２ｇ（１１６．９ｍｍｏｌ）、４８％臭化水素酸３８ｍＬ及び水９０ｍＬを加え、０℃に冷却して撹拌した。次いで５℃を超えない温度で前記ジアゾニウム液を滴下し、同じ温度で３０分撹拌したのち４０℃まで昇温し、同じ温度で１８時間撹拌した。

得られた反応液に水２００ｍＬを投入して室温まで冷却し、ＤＣＭ２００ｍＬで２回抽出した。次いで有機層を５％亜硫酸ナトリウム水溶液１００ｍＬで洗った後、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ｎ－ヘプタンを展開液とするシリカゲルカラムクロマトグラフィーで精製して、目的の臭化物１７．２ｇ（収率６８．０％）を得た。融点は１１８．３～１１９．５℃

＜４＞　３－ジベンゾフランボロン酸の合成

【化６２】



本化合物も、国際公開２０１３／１１８５０７号パンフレットを参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜３＞で得た臭化物１７．０ｇ（６８．８ｍｍｏｌ）と脱水ＴＨＦ１６０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ５２ｍＬ（８２．６ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、〔Ｂ（ｉ－ＰｒＯ）$_3$〕２１ｍＬ（８９．５ｍｍｏｌ）を－４５℃以下で滴下した。次いで等圧式滴下ロートをＴＨＦ４０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

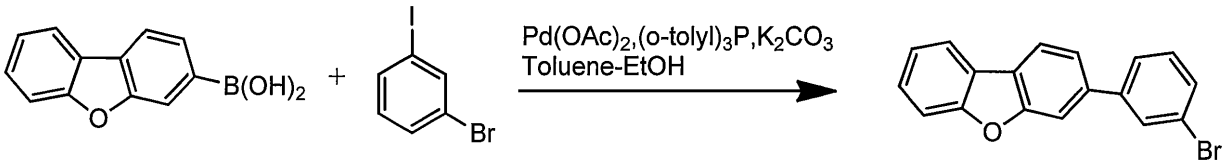
次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸１２ｍＬと水１１９ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル１７０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１２０ｍＬで洗い、硫酸マグネ

シウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１１０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して目的のボロン酸１０．７ｇ（収率７３．２％）を得た。

＜５＞　３－（３－ブロモフェニル）ジベンゾフランの合成

【化６３】



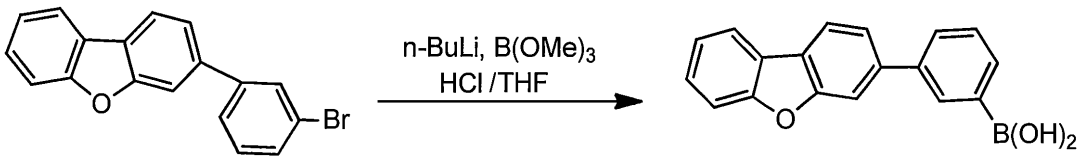
本化合物は、合成例８の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜４＞で得たボロン酸１０．５ｇ（４９．５ｍｍｏｌ）、３－ヨードブロモベンゼン１５．４ｇ（５４．４ｍｍｏｌ）、トルエン１７０ｍＬ、エタノール８５ｍＬ、炭酸カリウム１３．６ｇ（９８．７ｍｍｏｌ）及び水５０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム５３．２ｍｇ（０．２２ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．１５ｇ（０．４９ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル５０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水５０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物をｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物１４．４ｇ（収率９１．０％）を得た。

＜６＞　３－（ジベンゾフラン－３－イル）フェニルボロン酸の合成

【化６４】



本化合物は、合成例８の＜３＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜５＞で得た臭化物１４．４ｇ（４４．５ｍｍｏｌ）と脱水ＴＨＦ２２５ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ３４ｍＬ（５４．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ４０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$６．０ｇ（５７．８ｍｍｏｌ）を－４５℃を超えない温度で滴下した。次いで等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させて、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸４８ｍＬと水１２０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、

硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン４５ｍＬとトルエン１８ｍＬの混合溶液を加え、５０℃で１時間撹拌したのち室温に戻し、吸引ろ過して７．１ｇ（収率５４．３％）の目的化合物を得た。

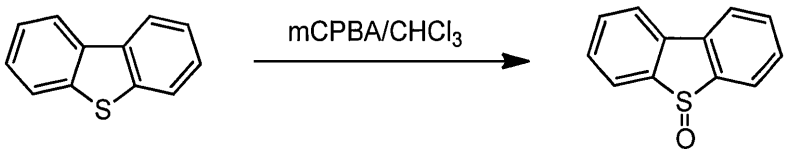
【００７８】

合成例１３

３－（ジベンゾチオフェン－３－イル）フェニルボロン酸の合成

＜１＞　ジベンゾスルホキシドの合成

【化６５】



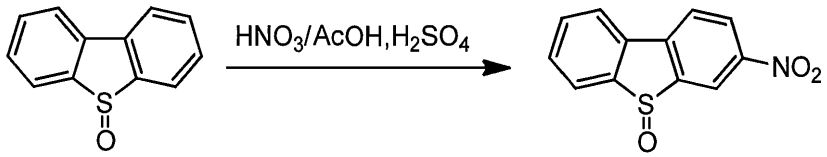
本化合物は、国際公開２０１１／１０６３４４号パンフレットを参考にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１０００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ジベンゾチオフェン６４．４ｇ（０．３５ｍｏｌ）とクロロホルム７００ｍＬを入れ、窒素気流下、アセトニトリル－ドライアイス浴で－４０℃まで冷却した。次いで、等圧滴下ロートからメタクロロ過安息香酸（ｍＣＰＢＡ）７８．３ｇ（０．３５ｍｏｌ）のクロロホルム溶液７００ｍＬを－３０℃を超えない温度で滴下した後、同じ温度で１時間撹拌し、更に室温に戻して１時間撹拌した。

得られた反応液から副生した結晶をろ過した後、２Ｌの分液ロートに移し、水３００ｍＬを加えて１０％炭酸ナトリウム水溶液で中和した。更に中和した有機層を水２００ｍＬで２回洗い、硫酸ナトリウムで乾燥させた後、硫酸ナトリウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた反応物を、ＤＣＭとｎ－ヘキサンの混合溶媒によるシリカゲルカラムクロマトグラフィーで精製し、更にエタノールで再結晶させて目的のジベンゾスルホキシド５０．５ｇ（収率７３．７％）を得た。融点は１８７．２～１８８．４℃であった。

＜２＞　３－ニトロジベンゾスルホキシドの合成

【化６６】



本化合物も、国際公開２０１１／１０６３４４号パンフレットを参考にして下記の手順で合成した。

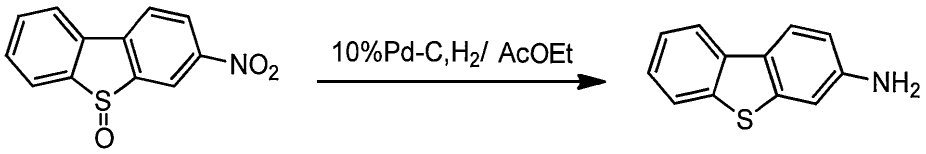
撹拌装置、リービッヒ冷却管（無くてもよい）、２００ｍＬの滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、酢酸１１０ｍＬと同体積の濃硫酸を入れ、氷水浴で０℃以下に冷却した後、前記＜１＞で得たジベンゾスルホキシド５０．０ｇ（０．２５ｍｏｌ）を撹拌しながらゆっくり投入した。次いで、０℃を超えない温度で発煙硝酸１２０ｍＬを滴下し、更に０℃以下で３０分激しく撹拌した。

得られた反応液を、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした３Ｌの４つ口丸底フラスコに入れた２Ｋｇの氷水にゆっくりと注ぎ、析出した結晶を吸引ろ過し水２Ｌで洗った。更に結晶を５００ｍＬのＤＣＭに溶解させ、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。

次いで得られた粗結晶をエタノールで再結晶させ、目的のニトロ化合物４４．３ｇ（収率６９．０％）を得た。融点は２０８．３～２０９．４℃であった。

＜３＞　３－アミノジベンゾチオフェンの合成

【化６７】

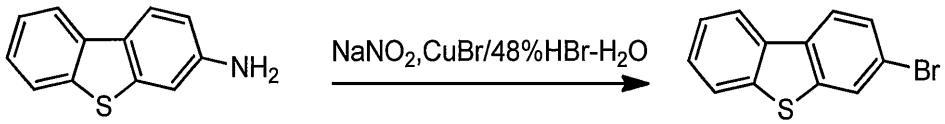


本化合物は、下記の手順で合成した。

１Ｌのオートクレーブに、前記＜２＞で得たニトロ化合物４４．０ｇ（０．１８ｍｏｌ）、１０％パラジウム炭素２０ｇ及び酢酸エチル８００ｍＬを入れ、蓋をして撹拌した。次いで水素ガスを０．３５Ｍｐａの圧力で加え、その吸収が終わるまで供給した。吸収がなくなったところで反応を止めて開封し、セライトを用いて反応液をろ過し、減圧下で溶媒を留去した。次いで得られた粗結晶を、ＤＣＭとｎ－ヘキサンの混合溶媒によるシリカゲルカラムクロマトグラフィーで精製して、目的のアミン化合物２７．１ｇ（収率７５．６％）を得た。融点は１２０．６～１２１．４℃であった。

＜４＞　３－ブロモジベンゾチオフェンの合成

【化６８】



本化合物は、合成例１２の＜３＞を参考にして下記の手順で合成した。

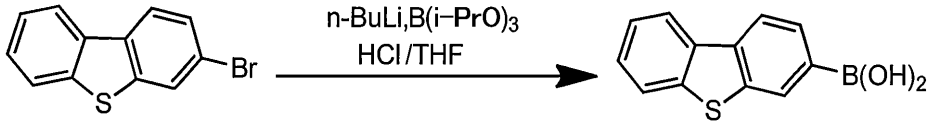
撹拌装置、リービッヒ冷却管（無くてもよい）、温度計、及び３００ｍＬ滴下ロートをセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアミノ化合物２７．０ｇ（１３５．５ｍｍｏｌ）、水２５０ｍＬ及び４８％臭化水素酸７５ｍＬを入れて一昼夜撹拌した。次いで、氷水浴で－１０℃まで冷却し、亜硝酸ナトリウム１０．７ｇ（１５５．０ｍｍｏｌ）を水２００ｍＬに溶解した溶液を、５℃以上温度が上がらないように滴下した。次いでジアゾ化された反応液を５℃以下で１時間撹拌し、ジアゾニウム液を得た。

次に、撹拌装置、アーリン冷却管、温度計、及び１Ｌ滴下ロートをセットした１Ｌの４つ口丸底フラスコに、臭化第一銅２１．４ｇ（１５４．４ｍｍｏｌ）、４８％臭化水素酸５０ｍＬ及び水１２０ｍＬを入れ、０℃に冷却して撹拌した。次いで５℃を超えない温度で前記ジアゾニウム液を滴下した後、３０分同じ温度で撹拌し、更に４０℃まで昇温して１８時間撹拌した。

得られた反応液に水２６０ｍＬを投入して室温まで冷却し、ＤＣＭ２６０ｍＬで２回抽出した。次いで有機層を５％亜硫酸ナトリウム水溶液１３０ｍＬで洗い、更に飽和食塩水１３０ｍＬで洗った後、硫酸マグネシウムで乾燥させた。次いで、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ｎ－ヘプタンを展開液とするシリカゲルカラムクロマトグラフィーで精製して目的の臭化物２８．９ｇ（収率８１．１％）を得た。融点は９７．３～９８．３℃であった。

＜５＞　３－ジベンゾチオフェンボロン酸の合成

【化６９】



本化合物は、合成例１２の＜４＞を参考にして下記の手順で合成した。

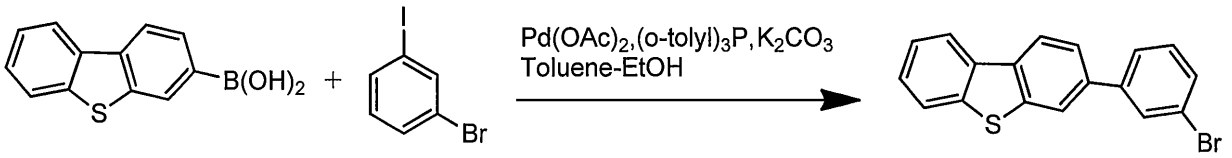
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜４＞で得た臭化物２８．５ｇ（１０８．３ｍｍｏｌ）と脱水ＴＨＦ２５０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　８２ｍＬ（１３０．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、〔Ｂ（ｉ－ＰｒＯ）$_3$〕３３ｍＬ（１４０．９ｍｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ６３ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸１９ｍＬと水１８７ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル２７０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１９０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１７０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して、目的のボロン酸１７．７ｇ（収率７１．６％）を得た。

＜６＞　３－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化７０】



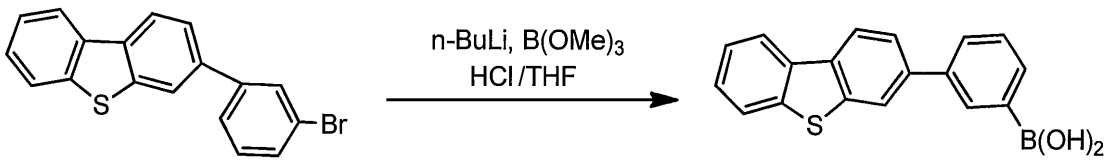
本化合物は、合成例１２の＜５＞を参照にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得たボロン酸１７．５ｇ（７６．７ｍｍｏｌ）、３－ヨードブロモベンゼン２３．９ｇ（８４．３ｍｍｏｌ）、トルエン２６０ｍＬ、エタノール１３０ｍＬ、炭酸カリウム２１．１ｇ（１５３．０ｍｍｏｌ）及び水７６ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム８２．５ｍｇ（０．３４ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２３ｇ（０．７６ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し酢酸エチル８０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水８０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２２．２ｇ（収率８５．５％）を得た。

＜７＞　３－（ジベンゾチオフェン－３－イル）フェニルボロン酸の合成

【化７１】



本化合物は、合成例１２の＜６＞と同様にして下記の手順で合成した。

攪拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得た臭化物２２．０ｇ（６４．８ｍｍｏｌ）と脱水ＴＨＦ３３０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　５０ｍＬ（８０．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ６０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、－４５℃を超えない温度でＢ（ＯＭｅ）$_3$８．７ｇ（８４．１ｍｍｏｌ）を滴下した。次いで、等圧式滴下ロートをＴＨＦ７５ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させ、ホウ素反応液を得た。

次に、攪拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸７０ｍＬと水１７５ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１５０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１５０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン６６ｍＬとトルエン２６ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して、１１．５ｇ（収率５８．４％）の目的化合物を得た。

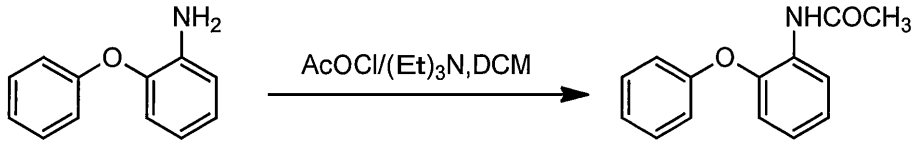
【００７９】

合成例１４

３－（ジベンゾフラン－１－イル）フェニルボロン酸の合成

＜１＞　２′－フェノキシアセトアニリドの合成

【化７２】



本化合物は、Ｃｈｅｍｉｃａｌ　Ｃｏｍｍｕｎｉｃａｔｉｏｎｓ（Ｃａｍｂｒｉｄｇｅ，Ｕｎｉｔｅｄ　Ｋｉｎｇｄｏｍ）（２０１１），４７，（２７），７８４５－７８４７を参照して下記の手順で合成した。

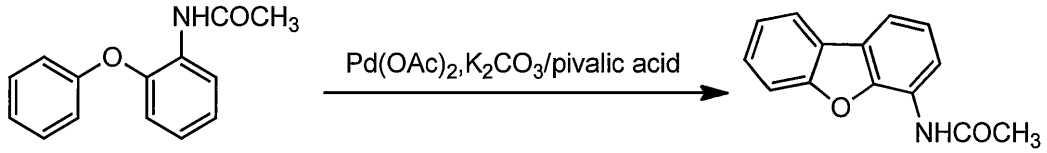
攪拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、２′－フェノキシアニリン５０．０ｇ（０．２７ｍｏｌ）とＤＣＭ５００ｍＬを入れ、窒素気流下、室温で撹拌した。次いで、トリエチルアミン４２．８ｇ（０．４１ｍｏｌ）を加えて氷水浴で－１０℃まで冷却し、滴下ロートからアセチルクロライド３０．３ｇ（０．３８ｍｏｌ）を発熱に気を付けつつ０℃以下で滴下した。更に同じ温度で３０分撹拌し、室温に戻して５時間、後反応させて反応液を得た。

次に、攪拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、粉砕した氷を２５０ｇ加えて撹拌しながら前記反応液を全量滴下した。次いで滴下ロートを１００ｍＬのＤＣＭで洗って反応液に加えた後、室温で１昼夜撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液した後、２５０ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、７３．２ｇ（収率１１９．８％）の目的化合物を得た。得られた化合物はそのまま次の反応に使用した。

＜２＞　Ｎ－４－ジベンゾフラニルアセトアミドの合成

【化７３】



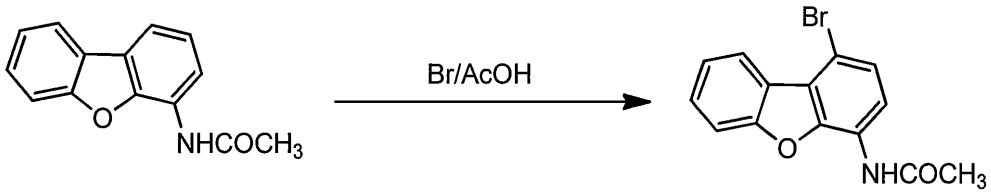
本化合物は、特表２０１３－５２０５０８号公報を参照して下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得たアセトアニリド７３．０ｇ（０．３２１ｍｏｌ）、ピバリン酸３２８．０ｇ（３．２１ｍｏｌ）、酢酸パラジウム７．２ｇ（３２．１ｍｍｏｌ）及び炭酸カリウム４．４ｇ（３２．１ｍｍｏｌ）を加えて、１０５℃で４８時間反応させ、更に１１５℃で２４時間反応させた。

得られた反応液を室温まで冷却し、水１８２５ｍＬにフィードした後、炭酸ナトリウム２５６ｇを発泡に気を付けつつ数回に分けて加えた。次いで酢酸エチル５６０ｍＬで３回抽出した有機層を、水３６０ｍＬ、水：飽和食塩水＝１：１　３６０ｍＬ、飽和食塩水３６０ｍＬの順で洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、６１．８ｇ（収率８５．５％）の目的化合物を得た。

＜３＞　１－ブロモ－Ｎ－４－ジベンゾフラニルアセトアミドの合成

【化７４】

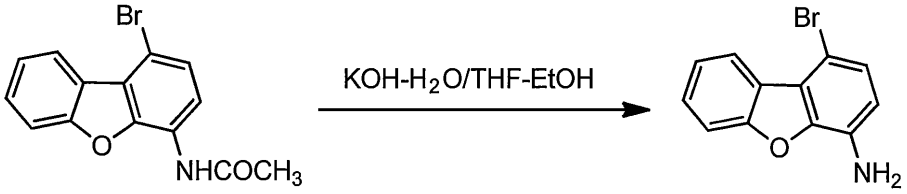


本化合物は、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たアセトアミド６０．１ｇ（０．２６７ｍｏｌ）と酢酸７２０ｍＬを入れて３５℃で撹拌した。次いで、酢酸１３５ｍＬで希釈した臭素４４．０ｇ（０．５５５ｍｏｌ）を滴下した後、滴下ロートを４５ｍＬの酢酸で洗って反応液に加えた。次いで３５～４０℃で４時間撹拌した後、反応液を５．４Ｌの水中に注ぎ更に１昼夜撹拌した。析出した結晶を吸引ろ過して目的の臭化物６８．０ｇ（収率８３．９％）を得た。

＜４＞　１－ブロモ－４－ジベンゾフランアミン（塩酸塩）の合成

【化７５】



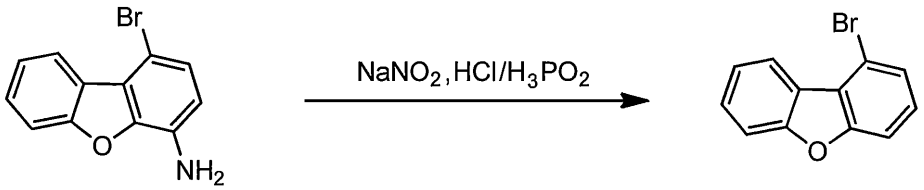
本化合物も、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜３＞で得た臭化物６８．０ｇ（０．２２４ｍｏｌ）、エタノール５８０ｍＬ、テトラヒドロフラン２４０ｍＬ、水酸化カリウム１０１．０ｇ（１．８ｍｏｌ）及び水２４０ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液から減圧下で溶媒を留去し、ジエチルエーテル６５０ｍＬで粗製物を抽出した。更に水層を分液してジエチルエーテル２２０ｍＬで抽出した後、ジエチルエーテル層を１つに纏めて炭酸カリウムで乾燥させた。次いで炭酸カリウムをろ過した後、ジエチルエーテル層を、撹拌装置、リービッヒ冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに移し、２Ｎ－塩酸ジエチルエーテル溶液２００ｍＬを滴下した。滴下と同時に目的化合物の塩酸塩が析出したが、滴下終了後、室温で１時間撹拌した後、吸引ろ過して目的化合物の塩酸塩５３．６ｇ（収率８０．５％）を得た。得られた塩酸塩はそのまま次の反応に使用した。

＜５＞　１－ブロモジベンゾフランの合成

【化７６】



本化合物も、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

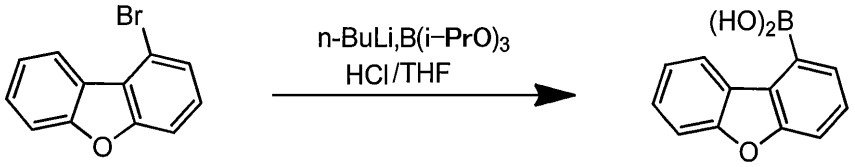
撹拌装置、リービッヒ冷却管（無くてもよい）、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜４＞で得たアミン塩酸塩５２．５ｇ（０．１７６ｍｏｌ）、酢酸２７０ｍＬ、濃塩酸６２ｍＬ及び水１６１ｍＬを入れ、氷水浴で－５℃以下に冷却した。次いで、亜硝酸ナトリウム１３．５ｇ（０．１９５ｍｏｌ）を水７５ｍＬに溶かした水溶液を滴下ロートから５℃を超えない温度で滴下した後、５℃以下で１時間撹拌してジアゾ液を得た。

次に、上記ジアゾ液を５００ｍＬの滴下ロートに移し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコにセットした。次いで５０％ジ亜リン酸２００ｍＬと水１００ｍＬを加え、氷水浴で－５℃以下に冷却した。次いで５℃を超えない温度でジアゾ液を滴下し、氷水浴で１時間撹拌したのち室温に戻し、更に４８時間撹拌した。

得られた反応液を酢酸エチル３５０ｍＬで２回抽出した後、酢酸エチル層を水３５０ｍＬで２回洗い、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗オイルを、ｎ－ヘプタンを展開液とするシリカゲルカラムで精製して、目的の臭化物３４．７ｇ（収率７８．３％）を得た。

＜６＞　１－ジベンゾフランボロン酸の合成

【化７７】



本化合物は、国際公開２０１３／１１８５０７号パンフレットを参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得た臭化物３４．５ｇ（１３９．６ｍｍｏｌ）と脱水ＴＨＦ３２５ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　１０６ｍＬ（１６７．６ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、〔Ｂ（ｉ－ＰｒＯ）$_3$〕４３ｍＬ（１８１．６ｍｍｏｌ）を－４５℃以下で滴下した。次

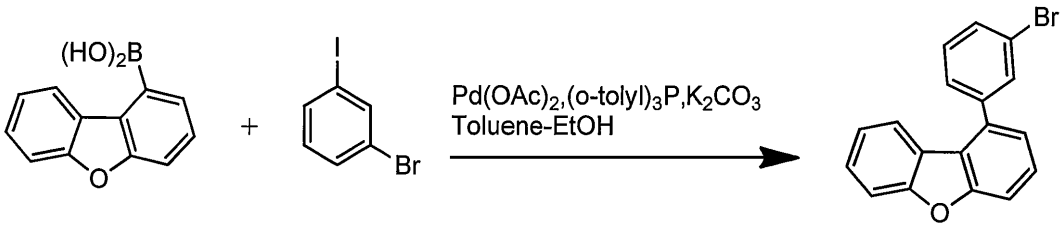
いで、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加えた後、－４５℃以下で３０分撹拌し、アセトン－ドライアイス浴を外して室温に戻し、更に２０時間、後反応させて、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸２４ｍＬと水２４１ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル３４０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２４０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン２２０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して目的のボロン酸２１．６ｇ（収率７２．８％）を得た。

＜７＞　１－（３－ブロモフェニル）ジベンゾフランの合成

【化７８】



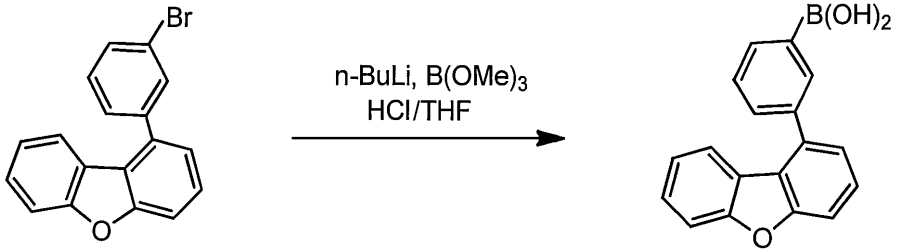
本化合物は、合成例８の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得たボロン酸２１．５ｇ（１０１．３ｍｍｏｌ）、３－ヨードブロモベンゼン３１．５ｇ（１１１．４ｍｍｏｌ）、トルエン３５０ｍＬ、エタノール１７５ｍＬ、炭酸カリウム２７．８ｇ（２０２．１ｍｍｏｌ）及び水１００ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム１０８．９ｍｇ（０．４５ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３１ｇ（１．０ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却し、水層を分液して酢酸エチル１００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーにより分離し、目的の臭化物２８．７ｇ（収率８８．５％）を得た。

＜８＞　３－（ジベンゾフラン－１－イル）フェニルボロン酸の合成

【化７９】



本化合物は、合成例８の＜３＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得た臭化物２８．５ｇ（８８．０ｍｍｏｌ）と脱水ＴＨＦ４４５ｍＬを入れ、窒素気流下

、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　６７ｍＬ（１０６．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１１．９ｇ（１１４．４ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸９５ｍＬと水２３８ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を２Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル２００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン８９ｍＬとトルエン３５ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して、１５．４ｇ（収率５９．４％）の目的化合物を得た。

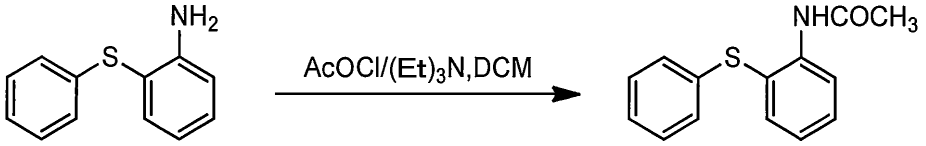
【００８０】

合成例１５

３－（ジベンゾチオフェン－１－イル）フェニルボロン酸の合成

＜１＞　２′－フェニルチオアセトアニリドの合成

【化８０】



本化合物は、Ａ　Ｅｕｒｏｐｅａｎ　Ｊｏｕｒｎａｌ，２２（３０），１０６０７－１０６１３；２０１６を参照して下記の手順で合成した。

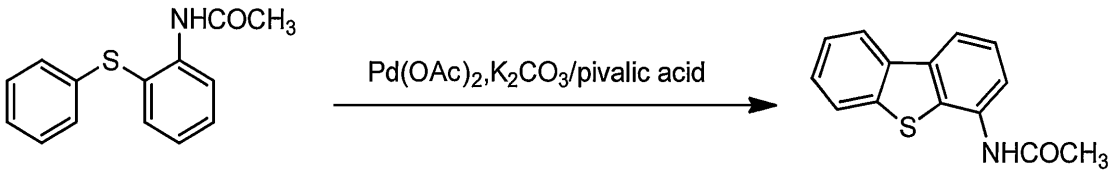
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、２′－フェニルチオアニリン５１．２ｇ（０．２５４ｍｏｌ）とＤＣＭ４７０ｍＬを入れ、窒素気流下、室温で撹拌した。次いでトリエチルアミン４０．３ｇ（０．３９ｍｏｌ）を加え、氷水浴で－１０℃まで冷却した後、アセチルクロライド２８．５ｇ（０．３５ｍｏｌ）を発熱に気を付けつつ０℃以下で滴下した。次いで同じ温度で３０分撹拌し、室温に戻して５時間、後反応させ反応液を得た。

次に、撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、粉砕した氷を２００ｇ入れて撹拌しながら前記反応液を全量滴下した。次いで滴下ロートを８０ｍＬのＤＣＭで洗って反応液に加えた後、室温で１昼夜撹拌した。

得られた反応液を１Ｌの分液ロートに移し有機層を分液した後、２００ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、酢酸エチルとトルエンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、５９．１ｇ（収率９５．６％）の目的化合物を得た。融点は９６．３～９７．１℃であった。

＜２＞　Ｎ－４－ジベンゾチオフェニルアセトアミドの合成

【化８１】



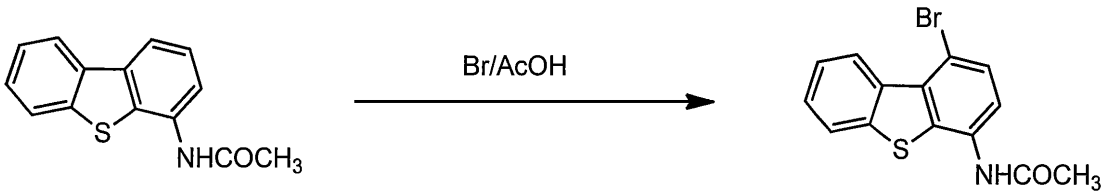
本化合物は、特表２０１３－５２０５０８号公報を参照して下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得たアセトアニリド５９．０ｇ（０．２４２ｍｏｌ）、ピバリン酸２５０．０ｇ（２．３４ｍｏｌ）、酢酸パラジウム５．５ｇ（２３．４ｍｍｏｌ）及び炭酸カリウム３．４ｇ（２４．３ｍｍｏｌ）を入れ、１０５℃で４８時間反応させ、更に１１５℃で２４時間反応させた。

得られた反応液を室温まで冷却し、水１３９０ｍＬにフィードし、炭酸ナトリウム１８５ｇを発泡に気を付けつつ数回に分けて加えた後、酢酸エチル４２０ｍＬで３回抽出した。次いで有機層を１つに纏め、水２８０ｍＬ、水：飽和食塩水＝１：１　２８０ｍＬ、飽和食塩水２８０ｍＬの順で洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、５５．４ｇ（収率９４．３％）の目的化合物を得た。

＜３＞　１－ブロモ－Ｎ－４－ジベンゾフラニルアセトアミドの合成

【化８２】



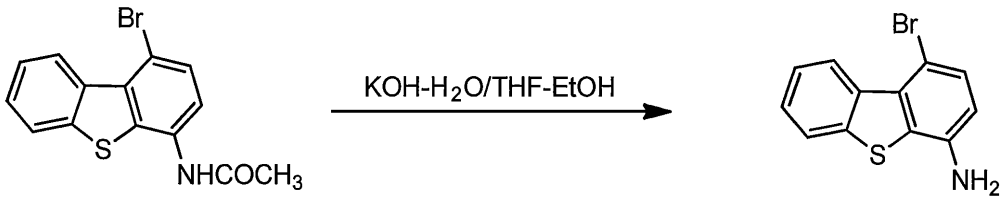
本化合物は、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たアセトアミド５５．４ｇ（０．２３０ｍｏｌ）と酢酸６２０ｍＬを入れ３５℃で撹拌した後、酢酸１１６ｍＬで希釈した臭素３７．８ｇ（０．４７７ｍｏｌ）を滴下した。次いで、滴下ロートを４０ｍＬの酢酸で洗って反応液に加えた後、３５～４０℃で４時間撹拌した。

得られた反応液を５．６Ｌの水中に注いだ後、１昼夜撹拌し、析出した結晶を吸引ろ過して目的の臭化物５８．６ｇ（収率８４．１％）を得た。

＜４＞　１－ブロモ－４－ジベンゾチオフェンアミン（塩酸塩）の合成

【化８３】



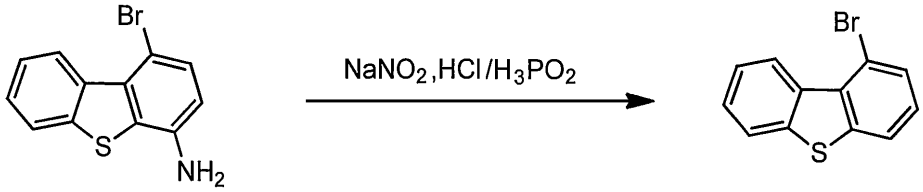
本化合物も、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜３＞で得た臭化物５８．５ｇ（０．１８３ｍｏｌ）、エタノール４７０ｍＬ、テトラヒドロフラン２００ｍＬ、水酸化カリウム８２．４ｇ（１．５ｍｏｌ）及び水１９５ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液から減圧下で溶媒を留去し、ジエチルエーテル５３０ｍＬで粗製物を抽出した。次いで水層を分液しジエチルエーテル１８０ｍＬで抽出した後、ジエチルエーテル層を１つに纏めて炭酸カリウムで乾燥させた。次いで炭酸カリウムをろ過して除去し、ジエチルエーテル層を、撹拌装置、リービッヒ冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに移し、２Ｎ－塩酸ジエチルエーテル溶液１６０ｍＬを滴下した。滴下と同時に目的化合物の塩酸塩が析出したが、滴下終了後に室温で１時間撹拌し、吸引ろ過して目的化合物の塩酸塩４４．０ｇ（収率８１．２％）を得た。得られた塩酸塩はそのまま次の反応に使用した。

＜５＞　１－ブロモジベンゾチオフェンの合成

【化８４】



本化合物も、特開２０１６－１３５７７５号公報を参考にして下記の手順で合成した。

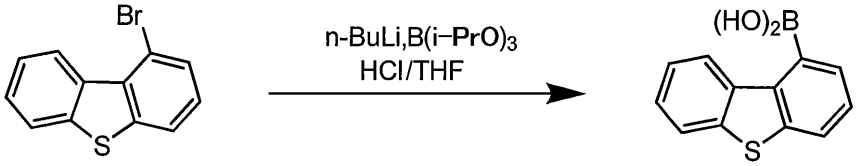
撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜４＞で得たアミン塩酸塩４３．５ｇ（０．１５６ｍｏｌ）、酢酸２４０ｍＬ、濃塩酸５５ｍＬ及び水１４３ｍＬを入れ、氷水浴で－５℃以下に冷却した。次いで、亜硝酸ナトリウム１２．０ｇ（０．１７３ｍｏｌ）を水６７ｍＬに溶かした水溶液を滴下ロートから５℃を超えない温度で滴下した後、５℃以下で１時間撹拌した。

得られたジアゾ液を１Ｌの滴下ロートに移し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした１Ｌの４つ口丸底フラスコにセットした後、該丸底フラスコに５０％ジ亜リン酸１８０ｍＬと水９０ｍＬを加え、氷水浴で－５℃以下に冷却した。次いで５℃を超えない温度でジアゾ液を滴下し、氷水浴で１時間撹拌したのち室温に戻し、４８時間室温で撹拌した。

得られた反応液を酢酸エチル３１０ｍＬで２回抽出した後、水３１０ｍＬで２回洗い、硫酸マグネシウムで乾燥させ後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗オイルを、ｎ－ヘプタンを展開液とするシリカゲルカラムで精製し、目的の臭化物３３．８ｇ（収率８２．５％）を得た。

＜６＞　１－ジベンゾチオフェンボロン酸の合成

【化８５】



本化合物は、国際公開２０１３／１１８５０７号パンフレットを参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得た臭化物３３．５ｇ（１２７．３ｍｍｏｌ）と脱水ＴＨＦ３００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　９７ｍＬ（１５２．８ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ９０ｍＬで洗って反応液に加えた。次いで、－５０℃以下で１時間、後反応させた後、Ｂ（ｉ－ＰｒＯ）$_3$３９ｍＬ（１６５．６ｍｍｏｌ）を－４５℃以下で滴下した。次いで等圧

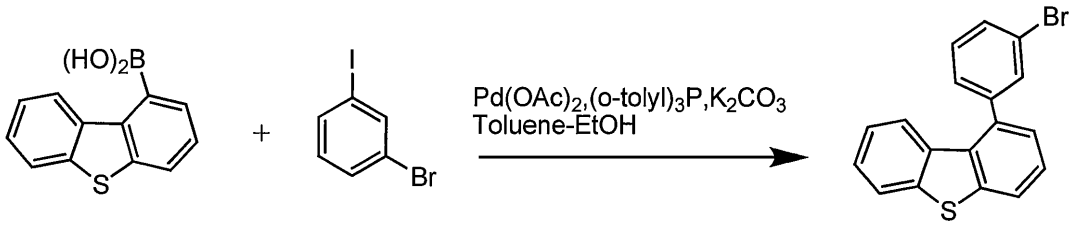
式滴下ロートをＴＨＦ７５ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸２２ｍＬと水２２０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル３１０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２２０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン２００ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却して吸引ろ過し、目的のボロン酸１９．８ｇ（収率６８．１％）を得た。

＜７＞　１－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化８６】



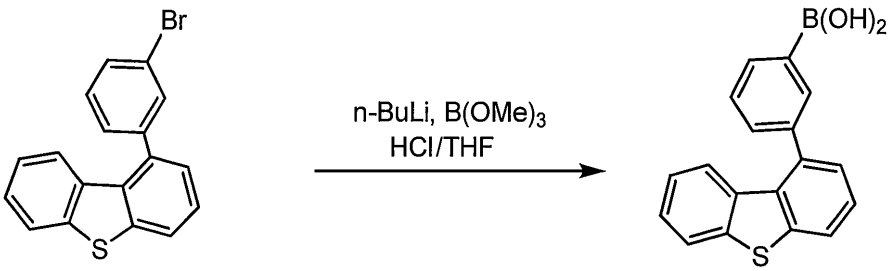
本化合物は、合成例９の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得たボロン酸１９．７ｇ（８６．３ｍｍｏｌ）、３－ヨードブロモベンゼン２６．９ｇ（９５．０ｍｍｏｌ）、トルエン３００ｍＬ、エタノール１５０ｍＬ、炭酸カリウム２３．７ｇ（１７２．３ｍｍｏｌ）及び水８５ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム９２．９ｍｇ（０．３８ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２６ｇ（０．８５ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル８５ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水８５ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２６．７ｇ（収率９１．４％）を得た。

＜８＞　３－（ジベンゾチオフェン－１－イル）フェニルボロン酸の合成

【化８７】



本化合物は、合成例９の＜３＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得た臭化物２８．５ｇ（８８．０ｍｍｏｌ）と脱水ＴＨＦ４４５ｍＬを入れ、窒素気流下

、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　６７ｍＬ（１０６．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１１．９ｇ（１１４．４ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させ、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに濃塩酸９５ｍＬと水２３８ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を２Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル２００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶にｎ－ヘプタン８９ｍＬとトルエン３５ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１５．４ｇ（収率５９．４％）の目的化合物を得た。

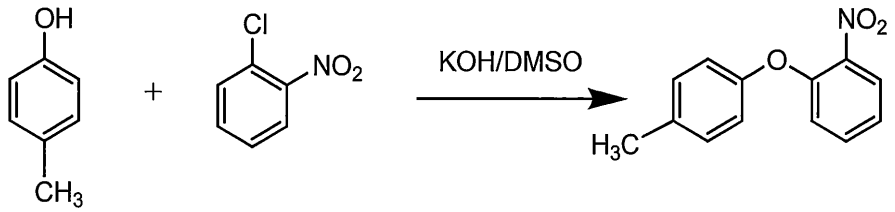
【００８１】

合成例１６

３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸の合成

＜１＞　１－（４－メチルフェノキシ）－２－ニトロベンゼンの合成

【化８８】



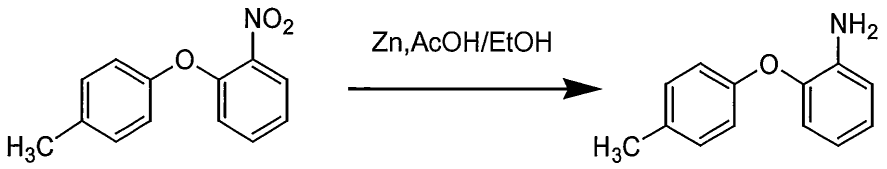
本化合物は、下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたアーリン冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ジメチルスルホキシド（ＤＭＳＯ）２５０ｍＬと水酸化カリウム５６．０ｇ（１．０ｍｏｌ）を入れ、窒素気流下で撹拌した。次いで、ｐ－クレゾール１０８．１ｇ（１．０ｍｏｌ）を５０ｍＬのＤＭＳＯで稀釈した溶液を発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで２５℃まで冷却し、ｏ－クロロニトロベンゼン１５７．５ｇ（１．０ｍｏｌ）をＤＭＳＯ１００ｍＬで稀釈した溶液を滴下した後、９０℃まで加熱して同じ温度で５時間反応させた。

得られた反応液を室温まで冷却し、２Ｌの水を入れた３Ｌの三角フラスコ中に注いで、ジエチルエーテル３００ｍＬで５回抽出した。更に抽出したエーテル層を水５００ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、２１５．９ｇ（収率９４．５％）の目的化合物を得た。得られた化合物は精製することなく次の反応に使用した。

＜２＞　１－（４－メチルフェノキシ）－２－アニリンの合成

【化８９】



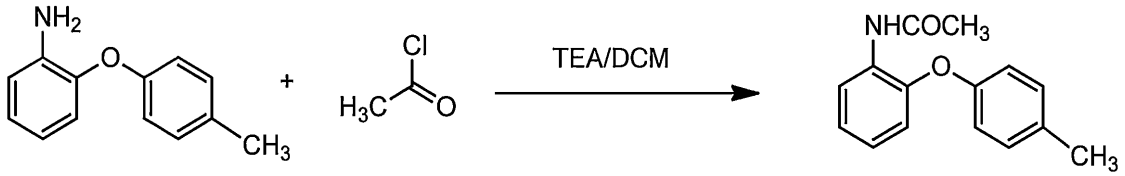
本化合物は、下記の手順で合成した。

撹拌装置、アーリン冷却管、３００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、エタノール１４１０ｍＬ、前記＜１＞で得たニトロ化合物２１４．０ｇ（０．９３ｍｏｌ）、亜鉛末３０５．７ｇ（４．６７ｍｏｌ）を入れ、よく撹拌しながら氷水浴で０℃まで冷却した。次いで、２０℃を超えない温度で酢酸２７０ｍＬを滴下した後、滴下ロートをエタノール４６５ｍＬで洗って反応液に加え、氷水浴中で１時間撹拌し、更に室温で終夜撹拌した。

得られた反応液中の亜鉛末をろ過し、ろ滓をエタノール３００ｍＬで洗い、減圧下で溶媒を留去した。次いで得られた粗生成物をトルエン１５００ｍＬで希釈し、これを撹拌装置、アーリン冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに入れて６０℃に加温した後、シリカゲル（ＢＷ－８０Ｓ）１００ｇを加えて１時間同じ温度で撹拌した。次いで同じ温度のままシリカゲルを吸引ろ過して除去し、減圧下で溶媒を留去して１０４．８ｇ（収率５６．５％）の目的化合物を得た。融点は４７．６～４８．５℃であった。

＜３＞　Ｎ－［２－（４－メチルフェノキシ）フェニル］アセトアミドの合成

【化９０】



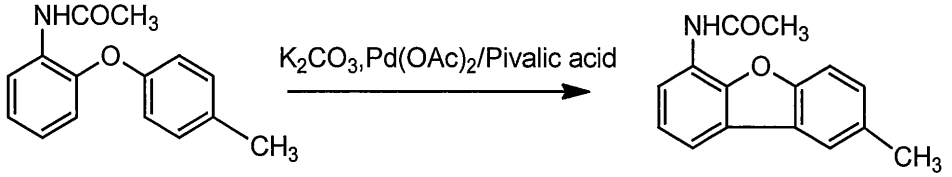
本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物１０４．０ｇ（０．５２ｍｏｌ）、ＤＣＭ８２０ｍＬ、トリエチルアミン（ＴＥＡ）８２．７ｇ（０．７９ｍｏｌ）を入れ、氷水浴で－１０℃まで冷却した。次いで０℃を超えない温度で塩化アセチル５８．６ｇ（０．７３ｍｏｌ）を滴下した後、滴下ロートをＤＣＭ１５０ｍＬで洗って反応液に加えた。次いで同じ温度で３０分撹拌した後、室温に戻し４時間撹拌した。

得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷４８０ｇを入れた２Ｌの４つ口丸底フラスコに撹拌しながら滴下した後、２Ｌの分液ロートに移して水層を分離し、ＤＣＭ２００ｍＬで抽出して、元のＤＣＭ層と一緒に４８０ｍＬの水で３回洗った。次いで、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、トルエンと酢酸エチルを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し９９．８ｇ（収率７９．５％）の目的化合物を得た。融点は９２．４～９３．３℃であった。

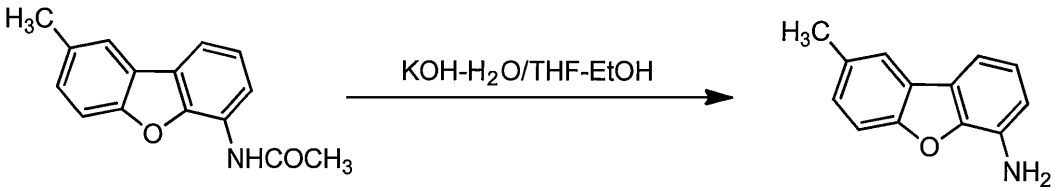
＜４＞　７－メチル－４－ジベンゾフランアセトアミドの合成

【化９１】



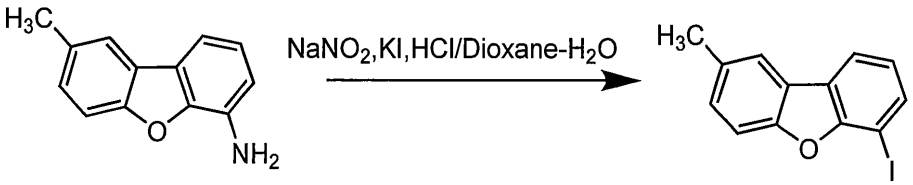
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。
撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド９９．０ｇ（０．４１０ｍｏｌ）、ピバリン酸４２０ｇ（４．１０ｍｏｌ）、炭酸カリウム５．６６ｇ（４１．０ｍｍｏｌ）及び酢酸パラジウム９．２０ｇ（４１．０ｍｍｏｌ）を入れ、１０５℃で４８時間、更に１１５℃で２４時間反応させた。
得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした５Ｌの４つ口丸底フラスコに入れた２３３０ｍＬの水に投入した。次いで撹拌しながら、炭酸ナトリウム３２６．７ｇを発泡に気を付けつつ数回に分けて投入した後、３０分撹拌し、７００ｍＬの酢酸エチルを加えて５Ｌの分液ロートで分液した。水層は更に２回７００ｍＬの酢酸エチルで抽出し、酢酸エチル層を、水４６０ｍＬ及び飽和食塩水４６０ｍＬで２回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、９４．８ｇ（収率９６．６％）の目的化合物を得た。融点は７４．２～７５．１℃であった。

＜５＞　７－メチル－４－ジベンゾフランアミンの合成
【化９２】



本化合物も、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。
撹拌装置、リービッヒ冷却管及び温度計をセットした３Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド９４．８ｇ（０．３９６ｍｏｌ）、エタノール１０２０ｍＬ、水酸化カリウム１７９．２ｇ（３．１８ｍｏｌ）、ＴＨＦ４３０ｍＬ、水４３０ｍＬを入れ、還流温度で１８時間反応させた。
得られた反応液を室温まで冷却して不溶物をろ過し、減圧下で溶媒を留去した。次いで得られた粗製物にジエチルエーテル１１６０ｍＬを加えて抽出し、分離した水層を更にジエチルエーテル３８０ｍＬで抽出した。ジエチルエーテル層を１つに纏めて水２４０ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、４５．２ｇ（収率５７．８％）の目的化合物を得た。

＜６＞　７－メチル－４－ヨードジベンゾフランの合成
【化９３】



本化合物は、下記の手順で合成した。
撹拌装置、アーリン冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物４５．０ｇ（０．２２８ｍｏｌ）、水４８０ｍＬ、濃塩酸１１０ｍＬ及びジオキサン１４５ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで、５℃を超えな

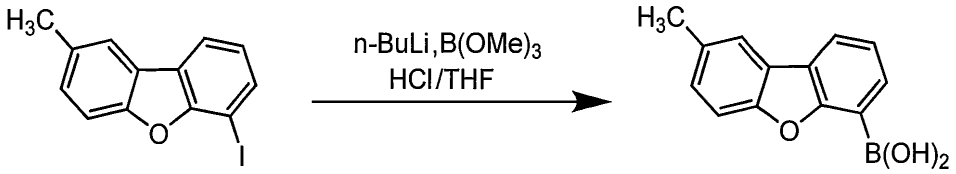
い温度で、亜硝酸ナトリウム２２．０ｇ（０．３１９ｍｏｌ）を水１５０ｍＬで溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ヨウ化カリウム５１．５ｇ（０．３１ｍｏｌ）及び水１５０ｍＬを入れて１０℃以下に保った。次いで、１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下した後、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを４８０ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液した。水層は再度４８０ｍＬのＤＣＭで抽出した。次いで、ＤＣＭ層を１つに纏めて２０％のチオ硫酸ナトリウム水溶液４００ｍＬで洗い、更に水４００ｍＬで２回洗った後、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物４１．２ｇ（収率５８．７％）を得た。

＜７＞　７－メチル－４－ジベンゾフランボロン酸の合成

【化９４】



本化合物は、下記の手順で合成した。

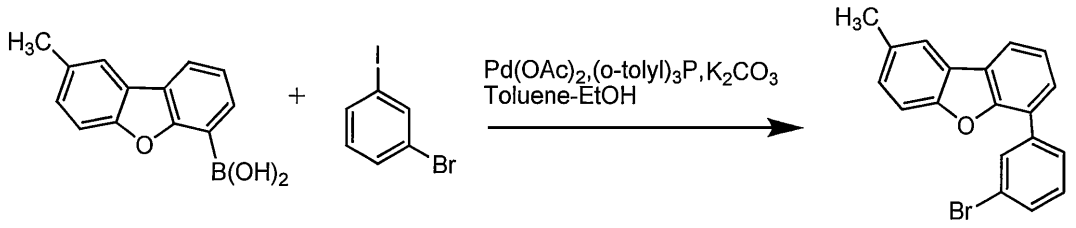
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物４１．０ｇ（１３３．０ｍｍｏｌ）と脱水ＴＨＦ３１０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　１００ｍＬ（１６０．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ９５ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１８．０ｇ（１７３．１ｍｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸２３ｍＬと水２３０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル３２５ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２３０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン２１０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却して吸引ろ過し、目的のボロン酸２２．９ｇ（収率７６．３％）を得た。

＜８＞　７－メチル－４－（３－ブロモフェニル）ジベンゾフランの合成

【化９５】



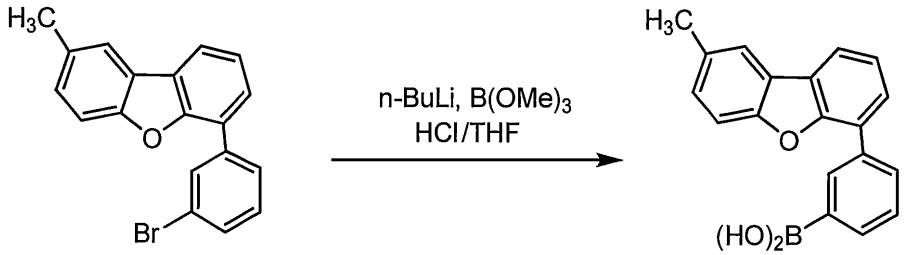
本化合物は、合成例１４の＜７＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸２２．６ｇ（１００．０ｍｍｏｌ）、３－ヨードブロモベンゼン３１．０ｇ（１０９．６ｍｍｏｌ）、トルエン３５０ｍＬ、エタノール１７５ｍＬ、炭酸カリウム２７．３ｇ（１９８．９ｍｍｏｌ）及び水１００ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム１０７．１ｍｇ（０．４４ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３１ｇ（１．０ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２９．４ｇ（収率８７．１％）を得た。

＜９＞　３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸の合成

【化９６】



本化合物は、合成例１４の＜８＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜８＞で得た臭化物２９．０ｇ（８６．０ｍｍｏｌ）と脱水ＴＨＦ４３０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　６５ｍＬ（１０４．８ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ８０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１１．６ｇ（１１１．８ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させ、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸９５ｍＬと水２３８ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を２Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル２００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶に、ｎ－ヘプタン８９ｍＬとトルエン３５ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１６．４ｇ（収率

６３．３％）の目的化合物を得た。

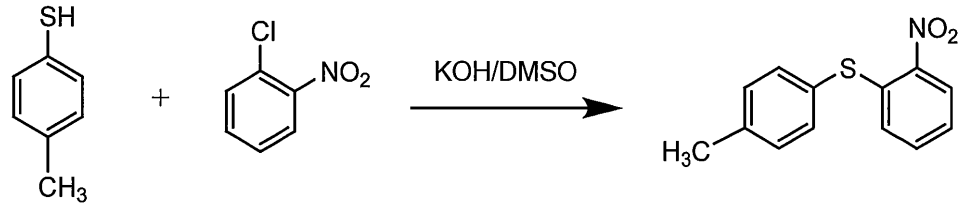
【００８２】

合成例１７

３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸の合成

＜１＞　１－［（４－メチルフェニル）チオ］－２－ニトロベンゼンの合成

【化９７】



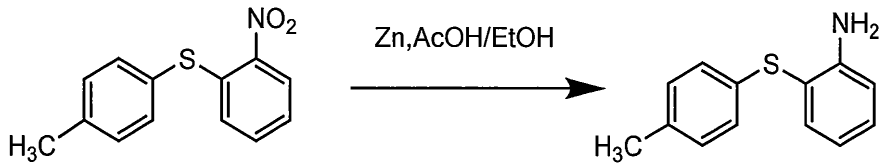
本化合物は、下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ＤＭＳＯ２５０ｍＬと水酸化カリウム５６．０ｇ（１．０ｍｏｌ）を入れ、窒素気流下で撹拌した。次いでＤＭＳＯ５０ｍＬで稀釈したｐ－トリルメルカプタン１２４．２ｇ（１．０ｍｏｌ）の溶液を、発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで、２５℃まで冷却した後、ＤＭＳＯ１００ｍＬで稀釈したｏ－クロロニトロベンゼン１５７．５ｇ（１．０ｍｏｌ）の溶液を滴下し、９０℃まで加熱し、同じ温度で５時間反応させた。

得られた反応液を室温まで冷却し、２Ｌの水を入れた３Ｌの三角フラスコ中に注いだ後、ジエチルエーテル３００ｍＬで５回抽出した。更にジエチルエーテル層を水５００ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶をｎ－ヘプタンで再結晶させ、１９６．１ｇ（収率７８．９％）の目的化合物を得た。融点は８８．５～８９．８℃であった。

＜２＞　１－（４－メチルフェニルチオ）－２－アニリンの合成

【化９８】



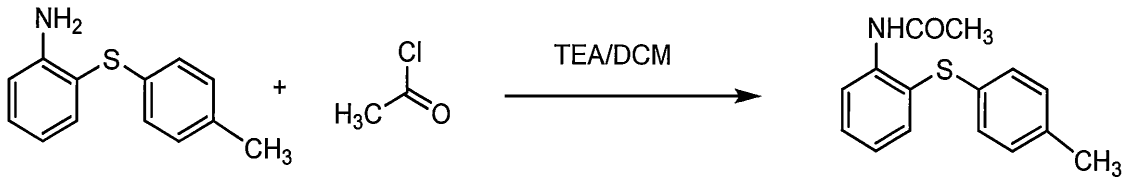
本化合物は、下記の手順で合成した。

撹拌装置、アーリン冷却管、３００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、エタノール１７００ｍＬ、前記＜１＞で得たニトロ化合物１９５．９ｇ（０．８１ｍｏｌ）、亜鉛末２６２．０ｇ（４．００ｍｏｌ）を入れ、よく撹拌しながら氷水浴で０℃まで冷却した。次いで、２０℃を超えない温度で酢酸２３３ｍＬ（４．００ｍｏｌ）を滴下した後、エタノール１４０ｍＬで滴下ロートを洗って反応液に加え、氷水浴中で１時間撹拌し、更に室温で終夜撹拌した。

得られた反応液中の亜鉛末をろ過し、ろ滓をエタノール４００ｍＬで洗い、減圧下で溶媒を留去した。次いで得られた粗生成物を酢酸エチル８００ｍＬで希釈し、２５０ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、目的化合物１３１．７ｇ（収率７６．６％）を得た。融点は４７．８～４９．１℃であった。

＜３＞　Ｎ－［２－（４－メチルフェニルチオ）フェニル］アセトアミドの合成

【化９９】



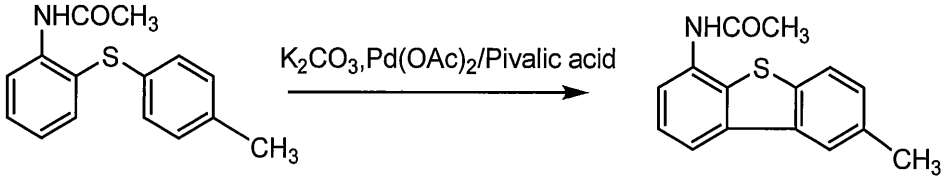
本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物１３１．５ｇ（０．６１ｍｏｌ）、ＤＣＭ１Ｌ、ＴＥＡ７２．１ｇ（０．９４ｍｏｌ）を入れ、氷水浴で－１０℃まで冷却した。次いで、０℃を超えない温度で塩化アセチル５１．１ｇ（０．８６ｍｏｌ）を滴下した後、ＤＣＭ１３０ｍＬで滴下ロートを洗って反応液に加え、同じ温度で３０分撹拌した後、室温に戻して更に４時間撹拌した。

得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷５４０ｇを入れた２Ｌの４つ口丸底フラスコに撹拌しながら滴下した。次いで２Ｌの分液ロートに移して水層を分離し、ＤＣＭ２００ｍＬで抽出し、元のＤＣＭ層と一緒にして５４０ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた。次いで、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、トルエンと酢酸エチルを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、１５２．０ｇ（収率９６．５％）の目的化合物を得た。

＜４＞　７－メチル－４－ジベンゾチオフェンアセトアミドの合成

【化１００】



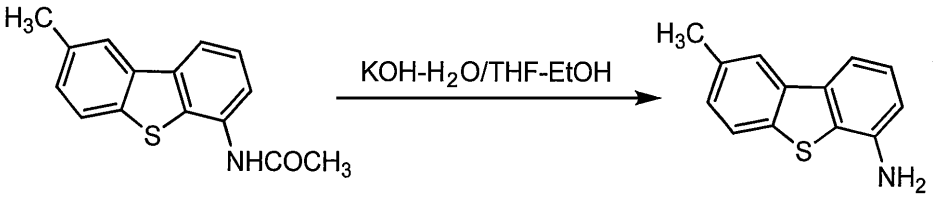
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド１０５．５ｇ（０．４１０ｍｏｌ）、ピバリン酸４２０ｇ（４．１０ｍｏｌ）、炭酸カリウム５．６６ｇ（４１．０ｍｍｏｌ）及び酢酸パラジウム９．２０ｇ（４１．０ｍｍｏｌ）を入れて、１０５℃で４８時間、更に１１５℃で２４時間反応させた。

得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした５Ｌの４つ口丸底フラスコに入れた２３３０ｍＬの水に投入した。次いで撹拌しながら、炭酸ナトリウム３２６．７ｇを発泡に気を付けつつ数回に分けて投入した後、３０分撹拌した。次いで、７００ｍＬの酢酸エチルを加えて５Ｌの分液ロートに移し分液した後、水層を更に２回、７００ｍＬの酢酸エチルで抽出した。次いで酢酸エチル層を水４６０ｍＬ及び飽和食塩水４６０ｍＬで２回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、９５．１ｇ（収率９０．８％）の目的化合物を得た。

＜５＞　７－メチル－４－ジベンゾチオフェンアミンの合成

【化１０１】



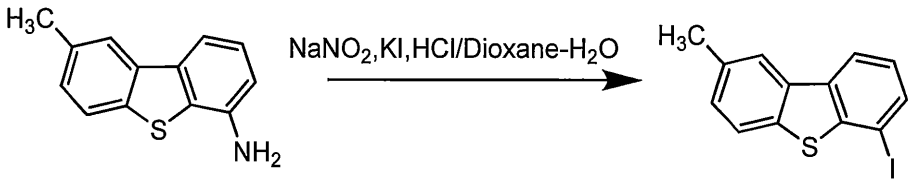
本化合物も、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした３Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド９０．１ｇ（０．２１２ｍｏｌ）、エタノール９２０ｍＬ、水酸化カリウム１６０．０ｇ（２．８３ｍｏｌ）、ＴＨＦ３８０ｍＬ、水３８０ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液を室温まで冷却して不溶物をろ過し、減圧下で溶媒を留去した。次いで得られた粗製物にジエチルエーテル１０３０ｍＬを加えて抽出し、分離した水層を更にジエチルエーテル３４０ｍＬで抽出した後、水２２０ｍＬで３回洗い、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、６０．３ｇ（収率８０．３％）の目的化合物を得た。

＜６＞　７－メチル－４－ヨードジベンゾチオフェンの合成

【化１０２】



本化合物は、下記の手順で合成した。

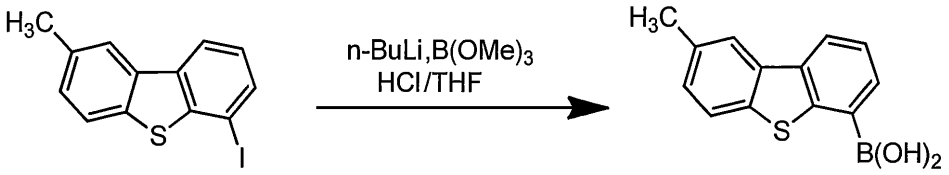
撹拌装置、アーリン冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物６０．０ｇ（０．２８１ｍｏｌ）、水４５０ｍＬ、濃塩酸１００ｍＬ及びジオキサン１３５ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで、５℃を超えない温度で、亜硝酸ナトリウム２０．４ｇ（０．２９５ｍｏｌ）を水１４０ｍＬで溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ヨウ化カリウム４７．５ｇ（０．２８６ｍｏｌ）及び水１４０ｍＬを入れ１０℃以下に保った。次いで、１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下した後、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを４５０ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液した後、水層を再度４５０ｍＬのＤＣＭで抽出した。次いでＤＣＭ層を１つに纏めて２０％のチオ硫酸ナトリウム水溶液３７０ｍＬで洗い、更に水３７０ｍＬで２回洗った後、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物５２．３ｇ（収率５７．４％）を得た。

＜７＞　７－メチル－４－ジベンゾチオフェンボロン酸の合成

【化１０３】



本化合物は、下記の手順で合成した。

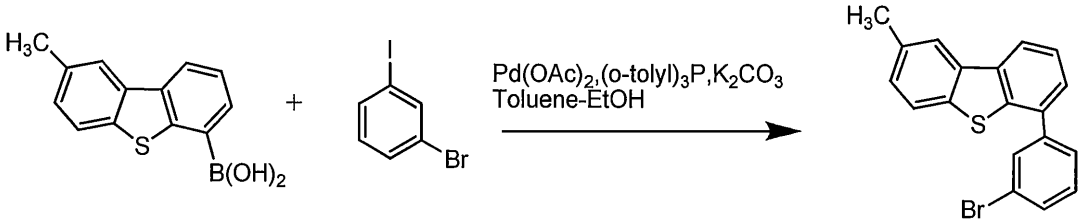
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物５２．０ｇ（２１４．８ｍｍｏｌ）と脱水ＴＨＦ５００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　１６０ｍＬ（２５６．０ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$２９．０ｇ（２７９．５ｍｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ１３０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸３７ｍＬと水３７０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル５２５ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水３７０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン３４０ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して目的のボロン酸４８．６ｇ（収率７５．０％）を得た。

＜８＞　７－メチル－４－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化１０４】



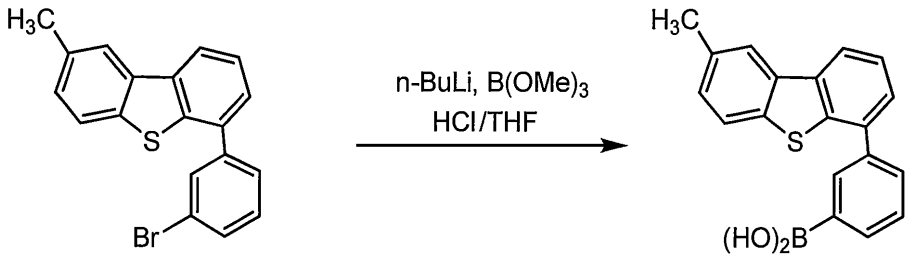
本化合物は、合成例１５の＜７＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした３Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸４８．５ｇ（２００．３ｍｍｏｌ）、３－ヨードブロモベンゼン９６．０ｇ（３１７．６ｍｍｏｌ）、トルエン１Ｌ、エタノール５００ｍＬ、炭酸カリウム７９．０ｇ（５７６．６ｍｍｏｌ）及び水２９０ｍＬを入れ、窒素気流下、室温で３０分撹拌した後、酢酸パラジウム３１０．４ｍｇ（１．２８ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．９ｇ（２．８ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル３００ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水３００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物をｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物５９．７ｇ（収率８４．５％）を得た。

＜９＞　３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸の合成

【化１０５】



本化合物は、合成例１５の＜８＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜８＞で得た臭化物５９．０ｇ（０．１６７ｍｏｌ）と脱水ＴＨＦ８３０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　１２６ｍＬ（２０３．５ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ１５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$　２２．５ｇ（２１７．１ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ２００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、２Ｌの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに、濃塩酸１８５ｍＬと水４６０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル３８０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水３８０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１７０ｍＬとトルエン６８ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して３５．０ｇ（収率６５．８％）の目的化合物を得た。

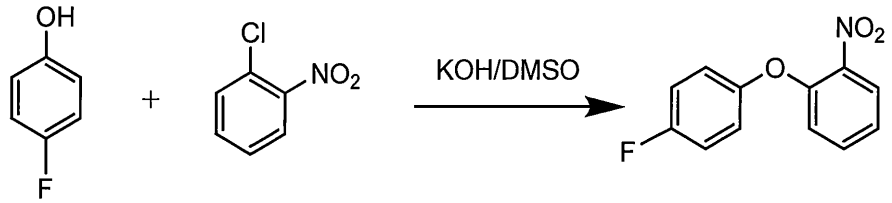
【００８３】

合成例１８

３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸の合成

＜１＞　１－（４－フルオロフェノキシ）－２－ニトロベンゼンの合成

【化１０６】

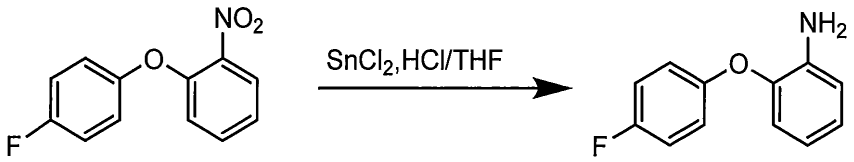


本化合物は、下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたアーリン冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ＤＭＳＯ１００ｍＬと水酸化カリウム２８．０ｇ（０．５ｍｏｌ）を入れ、窒素気流下で撹拌した。次いでｐ－フルオロフェノール５６．０ｇ（０．５ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した溶液を発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで２５℃まで冷却し、ｏ－クロロニトロベンゼン７８．５ｇ（０．５ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した

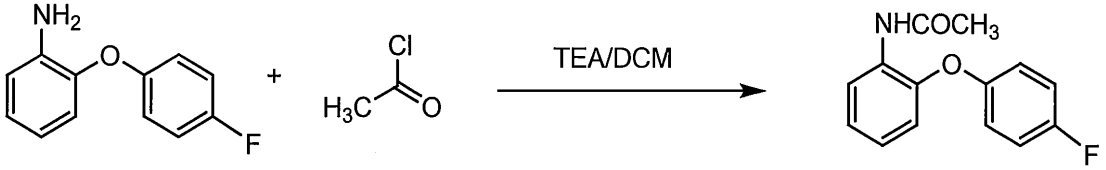
溶液を滴下した後、９０℃まで加熱し、同じ温度で５時間反応させた。
得られた反応液を室温まで冷却し、１Ｌの水を入れた２Ｌの三角フラスコ中に注いだ後、ジエチルエーテル３００ｍＬで３回抽出した。次いでジエチルエーテル層を水５０ｍＬで２回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、１２０．８ｇ（収率１０３．１％）の目的化合物を得た。得られた化合物は精製することなく次の反応に使用した。

＜２＞　１－（４－フルオロフェノキシ）－２－アニリンの合成
【化１０７】



本化合物は、下記の手順で合成した。
撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸５１０ｍＬと塩化スズ二水和物５１０ｇ（２．２６ｍｏｌ）を入れ室温で撹拌した。次いで、前記＜１＞で得たニトロ化合物１２０．０ｇ（０．５１ｍｏｌ）をＴＨＦ５１０ｍＬに溶かした溶液を、よく撹拌しながら滴下した。滴下開始とほぼ同時に発熱が始まったので、４０℃を超えたところ水浴で冷却した。滴下終了後、滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、４０℃で２時間、後反応させた後、室温まで冷却した。
得られた反応液を、撹拌装置、リービッヒ冷却管、５００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに移し、氷水浴で５℃まで冷却し、４０％水酸化ナトリウム水溶液２８５ｍＬを発熱に気を付けつつ滴下してアルカリ性にした。析出した無機塩を吸引ろ過して除去し、更に酢酸エチル１Ｌでろ滓を洗った。次いで、ろ液を３Ｌの分液ロートに移して水層を分離し、５００ｍＬの酢酸エチルで抽出した。次いで、酢酸エチル層を１つに纏めて５００ｍＬの水で洗い、炭酸カリウムで乾燥させた後、炭酸カリウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗オイルを、トルエンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、７８．６ｇ（収率７５．９％）の目的化合物を得た。

＜３＞　Ｎ－［２－（４－フルオロフェノキシ）フェニル］アセトアミドの合成
【化１０８】

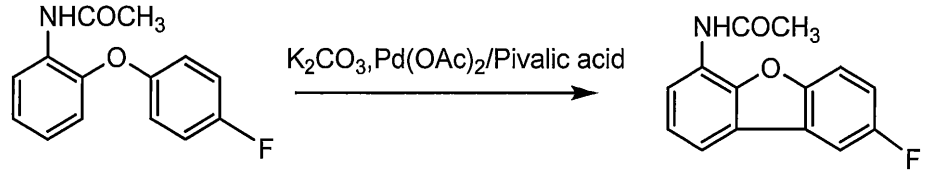


本化合物は、下記の手順で合成した。
撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物７８．４ｇ（０．３８６ｍｏｌ）、ＤＣＭ６２０ｍＬ、ＴＥＡ６１．４ｇ（０．５８ｍｏｌ）を入れ、氷水浴で－１０℃まで冷却した後、０℃を超えない温度で塩化アセチル４３．５ｇ（０．５４２ｍｏｌ）を滴下した。次いでＤＣＭ１００ｍＬで滴下ロートを洗って反応液に加え、同じ温度で３０分撹拌した後、室温に戻して更に４時間撹拌した。
得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷３４０ｇを入れた２Ｌの４つ口丸底フラスコに撹拌しながら滴下した後、２Ｌの分液ロートに移して水層を分離した。水層はＤＣＭ３４０ｍＬで抽出し、元のＤＣＭ層と一緒にして３４０ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶

媒を留去した。次いで得られた粗結晶を、トルエンとｎ－ヘプタンを溶媒とする再結晶で精製し６７．８ｇ（収率７１．６％）の目的化合物を得た。融点は７７．３～７８．２℃であった。

＜４＞　７－フルオロ－４－ジベンゾフランアセトアミドの合成

【化１０９】



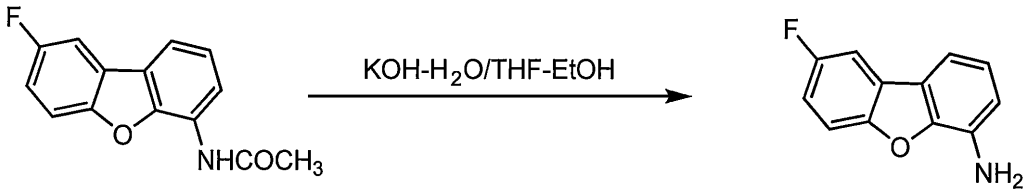
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド６７．５ｇ（０．２７５ｍｏｌ）、ピバリン酸２８２．０ｇ（２．７５ｍｏｌ）、炭酸カリウム３．８０ｇ（２７．５ｍｍｏｌ）及び酢酸パラジウム６．２０ｇ（２７．５ｍｍｏｌ）を入れ、１０５℃で４８時間、更に１１５℃で２４時間反応させた。

得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした３Ｌの４つ口丸底フラスコに入れた１２００ｍＬの水に投入した。次いで撹拌しながら、炭酸ナトリウム２１９．３ｇを発泡に気を付けつつ数回に分けて投入した後、３０分撹拌し、４７０ｍＬの酢酸エチルを加えて３Ｌの分液ロートに移し分液した。水層を更に２回４７０ｍＬの酢酸エチルで抽出した後、酢酸エチル層を水３００ｍＬ及び飽和食塩水３００ｍＬで２回洗い、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、５８．８ｇ（収率８７．９％）の目的化合物を得た。

＜５＞　７－フルオロ－４－ジベンゾフランアミンの合成

【化１１０】



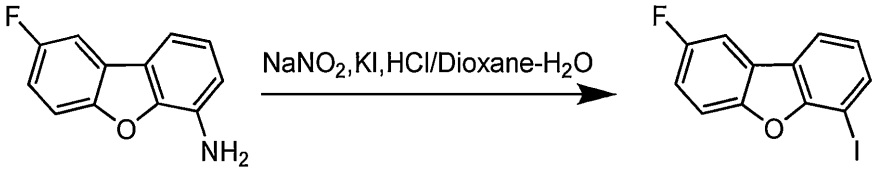
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした３Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド５８．５ｇ（０．２４１ｍｏｌ）、エタノール６２０ｍＬ、水酸化カリウム１０８．８ｇ（１．９３ｍｏｌ）、ＴＨＦ２６０ｍＬ、水２６０ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液を室温まで冷却し不溶物をろ過した後、減圧下で溶媒を留去した。次いで得られた粗製物にジエチルエーテル１１６０ｍＬを加えて抽出し、分離された水層は更にジエチルエーテル３８０ｍＬで抽出した。次いで、ジエチルエーテル層を水２４０ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、２７．０ｇ（収率５５．７％）の目的化合物を得た。

＜６＞　７－フルオロ－４－ヨードジベンゾフランの合成

【化１１１】



本化合物は、下記の手順で合成した。

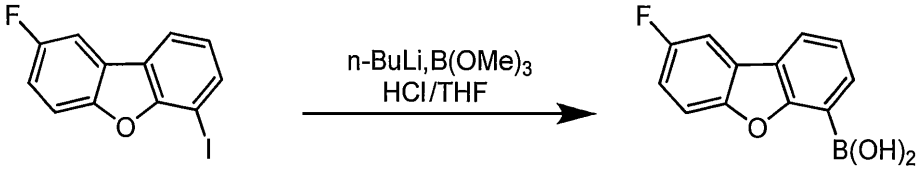
撹拌装置、アーリン冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物２７．０ｇ（０．１３４ｍｏｌ）、水２８０ｍＬ、濃塩酸６５ｍＬ及びジオキサン８５ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで、５℃を超えない温度で、亜硝酸ナトリウム１３．０ｇ（０．１８８ｍｏｌ）を水９０ｍＬで溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ヨウ化カリウム３０．２ｇ（０．１８２ｍｏｌ）及び水９０ｍＬを入れ１０℃以下に保った。次いで、１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下した後、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを２８０ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液した。水層は再度２８０ｍＬのＤＣＭで抽出した。次いで、ＤＣＭ層を１つに纏めて２０％のチオ硫酸ナトリウム水溶液２４０ｍＬで洗い、更に水２４０ｍＬで２回洗った後、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物２６．５ｇ（収率６３．４％）を得た。

＜７＞　７－フルオロ－４－ジベンゾフランボロン酸の合成

【化１１２】



本化合物は、合成例１６の＜７＞と同様にして下記の手順で合成した。

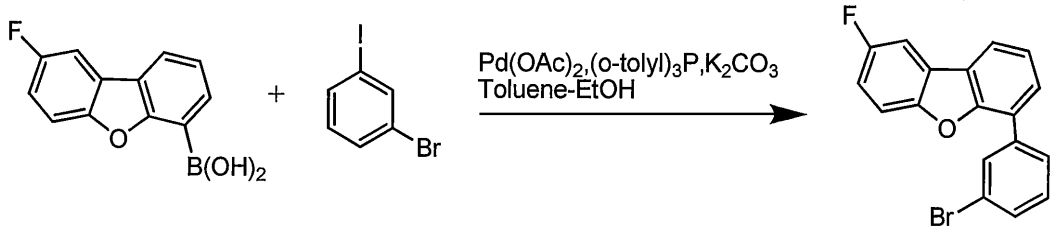
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物２６．５ｇ（８５．０ｍｍｏｌ）と脱水ＴＨＦ２００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　６４ｍＬ（１０２．２ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ６０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$　１１．５ｇ（１１０．６ｍｍｏｌ）を、－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸１５ｍＬと水１５０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル２１０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１５０ｍＬで洗浄し、硫酸マグ

ネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１３５ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して、目的のボロン酸１５．５ｇ（収率７９．５％）を得た。

＜８＞　７－フルオロ－４－（３－ブロモフェニル）ジベンゾフランの合成
【化１１３】

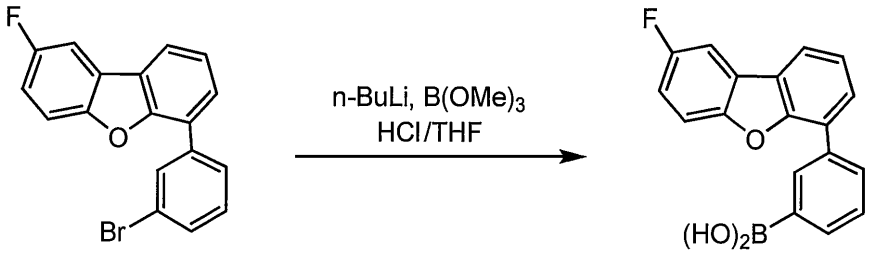


本化合物は、合成例１６の＜８＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸１５．５ｇ（６７．４ｍｍｏｌ）、３－ヨードブロモベンゼン２０．９ｇ（７３．９４ｍｍｏｌ）、トルエン２３５ｍＬ、エタノール１１８ｍＬ、炭酸カリウム１８．４ｇ（１３４．０ｍｍｏｌ）及び水６８ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム７２．２ｍｇ（０．３０ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２１ｇ（０．６７ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し酢酸エチル７０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水７０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、２０．２ｇ（収率８７．８％）の目的化合物を得た。

＜９＞　３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸の合成
【化１１４】



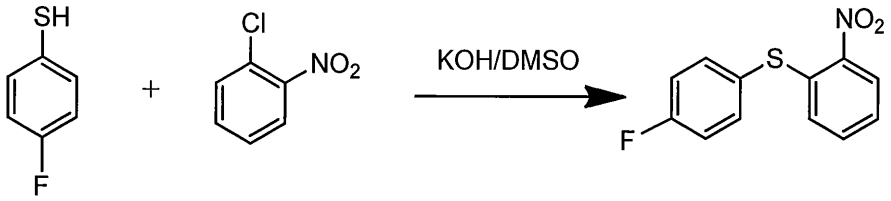
本化合物は、合成例１６の＜９＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜８＞で得た臭化物２０．０ｇ（５８．６ｍｍｏｌ）と脱水ＴＨＦ３００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　４５ｍＬ（７０．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５５ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$８．０ｇ（７６．２ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで等圧式滴下ロートをＴＨＦ７０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットしたＬの４つ口丸底フラスコに、濃塩酸６５ｍＬと水１６２ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した

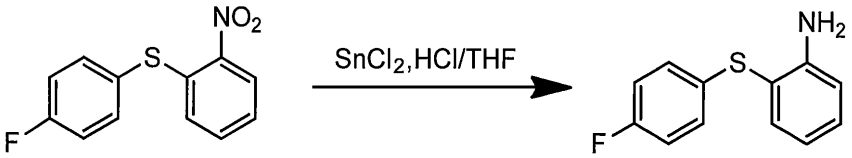
後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。
得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１４０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１４０ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン６０ｍＬとトルエン２４ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１１．８ｇ（収率６５．６％）の目的化合物を得た。
【００８４】
合成例１９
３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸の合成

＜１＞　１－［（４－フルオロフェニル）チオ］－２－ニトロベンゼンの合成
【化１１５】



本化合物は、下記の手順で合成した。
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、ＤＭＳＯ７０ｍＬと水酸化カリウム２３．１ｇ（０．４１ｍｏｌ）を入れ、窒素気流下で撹拌した。次いでｐ－フルオロチオフェノール５０．０ｇ（０．３９ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した溶液を発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで２５℃まで冷却し、ｏ－クロロニトロベンゼン６１．５ｇ（０．３９ｍｏｌ）をＤＭＳＯ４０ｍＬで稀釈した溶液を滴下した後、９０℃まで加熱し、同じ温度で５時間反応させた。
得られた反応液を室温まで冷却し、１Ｌの水を入れた２Ｌの三角フラスコ中に注いだ後、ジエチルエーテル３００ｍＬで３回、及び酢酸エチル３００ｍＬで２回抽出した。次いで有機層を１つに纏め、水５００ｍＬで３回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶を、９５％エタノールで再結晶させて、目的のニトロ化合物８４．５ｇ（収率８６．９％）を得た。融点は１１０．３～１１１．４℃であった。

＜２＞　１－（４－フルオロフェニルチオ）－２－アニリンの合成
【化１１６】

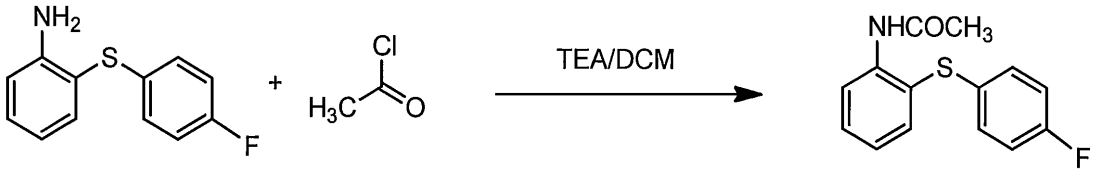


本化合物は、下記の手順で合成した。
撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸３４０ｍＬと塩化スズ二水和物３４０ｇ（１．５３ｍｏｌ）を入れ室温で撹拌した。次いで、前記＜１＞で得たニトロ化合物８４．５ｇ（０．３４ｍｏｌ）をＴＨＦ３４０ｍＬに溶かした溶液をよく撹拌しながら滴下した。滴下開始とほぼ同時に発熱が始まったので、４０℃を超えたところで水浴させて冷却した。滴下終了後、滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。更に４０℃で２時間、後反応させた後、室温まで冷却した。冷却とともに塩酸塩が析出したため、氷水浴で１０℃まで冷却し、塩酸塩の結晶を吸引ろ過して回収した。

次に、撹拌装置、リービッヒ冷却管、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、塩酸塩と酢酸エチル６００ｍＬを入れ、１０％水酸化ナトリウム水溶液３００ｍＬを発熱に気を付けつつ滴下し、反応液をアルカリ性にした。次いで、反応液を１Ｌの分液ロートに移して水層を分離し、酢酸エチル層を２００ｍＬの水で３回洗った後、炭酸カリウムで乾燥させた。次いで炭酸カリウムを吸引ろ過して除去し、減圧下で溶媒を留去して、４９．０ｇ（収率６５．７％）の目的化合物を得た。得られた化合物は精製することなく次の反応に使用した。

＜３＞　Ｎ－［２－（４－フルオロフェニルチオ）フェニル］アセトアミドの合成

【化１１７】



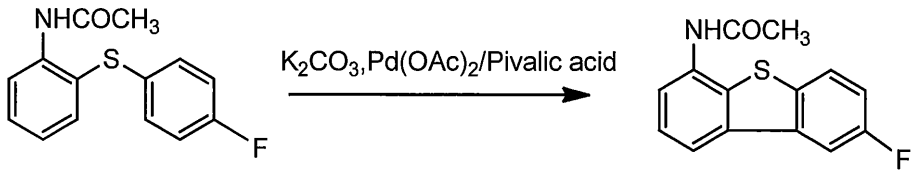
本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物４８．９ｇ（０．２２３ｍｏｌ）、ＤＣＭ４２０ｍＬ、ＴＥＡ３５．５ｇ（０．３３５ｍｏｌ）を入れ、氷水浴で－１０℃まで冷却した。次いで、０℃を超えない温度で塩化アセチル２５．１ｇ（０．３１３ｍｏｌ）を滴下した後、ＤＣＭ４０ｍＬで滴下ロートを洗浄して反応液に加え、同じ温度で３０分撹拌した後、室温に戻し更に４時間撹拌した。

得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷２００ｇを入れた１Ｌの４つ口丸底フラスコに撹拌しながら滴下した。次いで１Ｌの分液ロートに移して水層を分離し、ＤＣＭ１００ｍＬで抽出して元のＤＣＭ層と一緒にし、２００ｍＬの水で３回洗った後、硫酸マグネシウムで乾燥させた。次いで、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、トルエンとｎ－ヘプタンを用いた再結晶により精製し、４４．６ｇ（収率７６．５％）の目的化合物を得た。融点は９３．５～９４．４℃であった。

＜４＞　７－フルオロ－４－ジベンゾチオフェンアセトアミドの合成

【化１１８】



本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

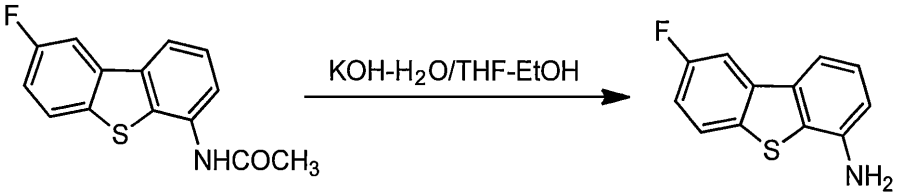
撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド４４．５ｇ（０．１７ｍｏｌ）、ピバリン酸１７５ｇ（１．７０ｍｏｌ）、炭酸カリウム２．３５ｇ（１７．０ｍｍｏｌ）及び酢酸パラジウム３．８３ｇ（１７．０ｍｍｏｌ）を入れ、１０５℃で４８時間、更に１１５℃で２４時間反応させた。

得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした３Ｌの４つ口丸底フラスコに入れた９７０ｍＬの水に投入した。次いで、撹拌しながら、炭酸ナトリウム１３５．５ｇを発泡に気を付けつつ数回に分けて投入した後、３０分撹拌し、７００ｍＬの酢酸エチルを加えて３Ｌの分液ロートに移し分液した。次いで水層を更に２回２９０ｍＬの酢酸エチルで抽出した後、酢酸エチル層を水２９０ｍＬ及び飽和食塩水２９０ｍＬで２回洗浄し、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ク

ロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、４０．１ｇ（収率９１．１％）の目的化合物を得た。

＜５＞　７－フルオロ－４－ジベンゾチオフェンアミンの合成

【化１１９】



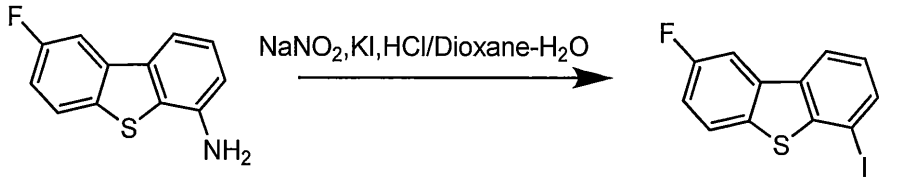
本化合物も、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド４０．１ｇ（０．１５５ｍｏｌ）、エタノール６７０ｍＬ、水酸化カリウム１１７．０ｇ（２．０７ｍｏｌ）、ＴＨＦ２８０ｍＬ、水２８０ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液を室温まで冷却して不溶物をろ過し、減圧下で溶媒を留去して得られた粗製物にジエチルエーテル７５０ｍＬを加えて抽出し、分離された水層は更にジエチルエーテル２５０ｍＬで抽出した。次いで、ジエチルエーテル層を水１６０ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、２７．５ｇ（収率８１．７％）の目的化合物を得た。

＜６＞　７－フルオロ－４－ヨードジベンゾチオフェンの合成

【化１２０】



本化合物は、下記の手順で合成した。

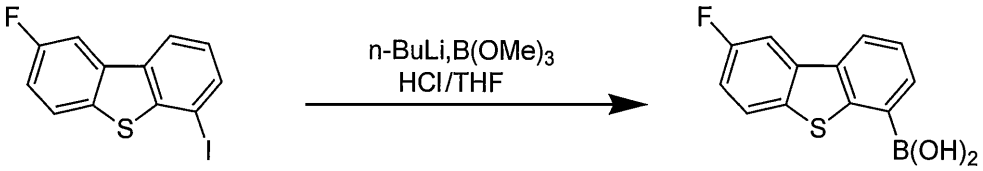
撹拌装置、アーリン冷却管、１００ｍＬの滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物２７．５ｇ（０．１２６ｍｏｌ）、水２００ｍＬ、濃塩酸４５ｍＬ及びジオキサン６０ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで５℃を超えない温度で、亜硝酸ナトリウム９．２ｇ（０．１３３ｍｏｌ）を水６３ｍＬに溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ヨウ化カリウム２１．２ｇ（０．１２８ｍｏｌ）及び水６３ｍＬを入れ、１０℃以下を保った。次いで、１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下した後、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを２００ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液した。水層は再度２００ｍＬのＤＣＭで抽出した。次いで、ＤＣＭ層を１つに纏めて２０％のチオ硫酸ナトリウム水溶液１７０ｍＬで洗い、更に水１７０ｍＬで２回洗った後、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物２５．０ｇ（収率６０．７％）を得た。

＜７＞　７－フルオロ－４－ジベンゾチオフェンボロン酸の合成

【化１２１】



本化合物は、合成例１７の＜４＞と同様にして下記の手順で合成した。

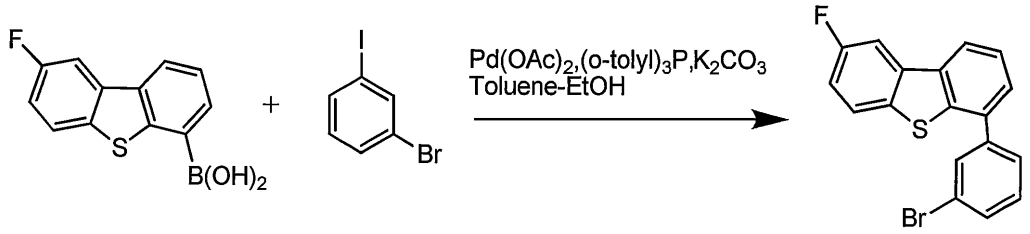
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物２５．０ｇ（７６．２ｍｍｏｌ）と脱水ＴＨＦ１８０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ５６ｍＬ（９０．８ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１０．３ｇ（９９．１ｍｍｏｌ）を、－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ４６ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸３７ｍＬと水３７０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル１９０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１３０ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶をｎ－ヘプタン１２０ｍＬに加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して、目的のボロン酸１４．０ｇ（収率７４．７％）を得た。

＜８＞　７－フルオロ－４－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化１２２】



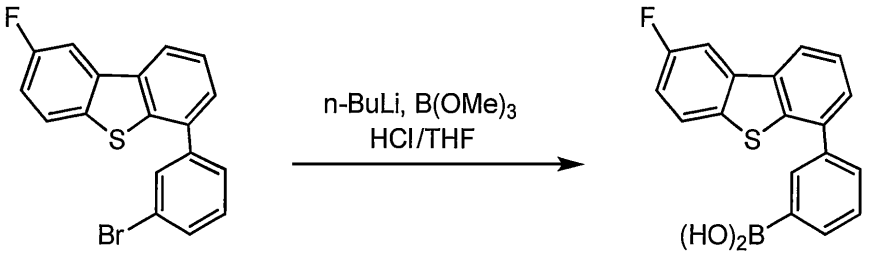
本化合物は、合成例１７の＜８＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸１４．０ｇ（５６．９ｍｍｏｌ）、３－ヨードブロモベンゼン２７．３ｇ（９０．３ｍｍｏｌ）、トルエン２８５ｍＬ、エタノール１４２ｍＬ、炭酸カリウム２２．４ｇ（１６４．０ｍｍｏｌ）及び水８３ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム８８．３ｍｇ（０．３６ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２６ｇ（０．８ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し酢酸エチル８５ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水８５ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状

物を、ｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物１６．８ｇ（収率８２．８％）を得た。

＜９＞　３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸の合成
【化１２３】



本化合物は、合成例１７の＜９＞と同様にして下記の手順で合成した。

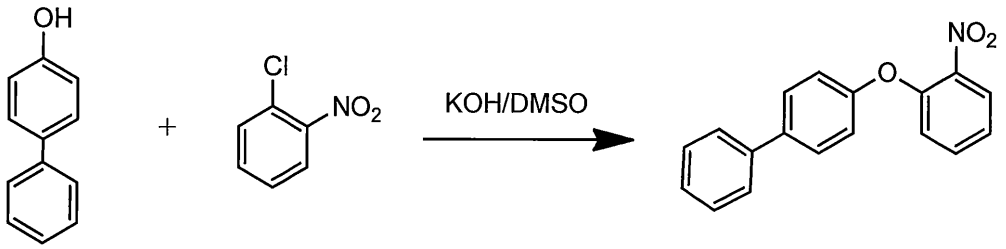
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬ」の４つ口丸底フラスコに、前記＜８＞で得た臭化物１６．８ｇ（４７．０ｍｍｏｌ）と脱水ＴＨＦ２３０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ３５ｍＬ（５６．４ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ４０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$６．３ｇ（６０．８ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させて、ホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸５１ｍＬと水１３０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶にｎ－ヘプタン５０ｍＬとトルエン２０ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１０．４ｇ（収率６８．８％）の目的化合物を得た。

【００８５】
合成例２０
３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸の合成

＜１＞　４－（２－ニトロフェノキシ）－１，１′－ビフェニルの合成
【化１２４】



本化合物は、下記の手順で合成した。

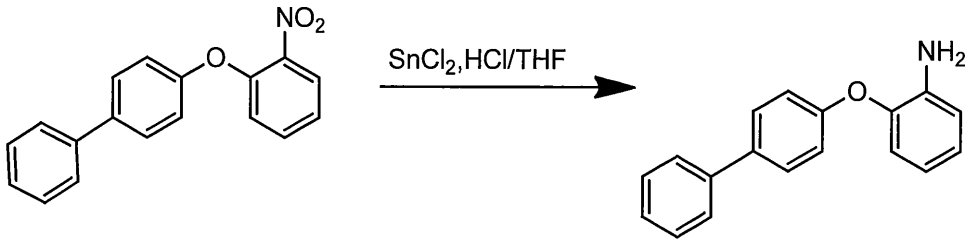
撹拌装置、塩化カルシウム管を取り付けたアーリン冷却管、窒素導入管、２００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ＤＭＳＯ１００ｍＬと水酸化カリウム２８．０ｇ（０．５ｍｏｌ）を入れ、窒素気流下で撹拌した。次い

でｐ－フェニルフェノール８５．０ｇ（０．５ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した溶液を発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで、２５℃まで冷却し、ｏ－クロロニトロベンゼン７８．５ｇ（０．５ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した溶液を滴下した後、９０℃まで加熱し、同じ温度で５時間反応させた。

得られた反応液を室温まで冷却し、水を１Ｌ入れた２Ｌの三角フラスコ中に注いだ後、ジエチルエーテル３００ｍＬで３回抽出した。次いで水５０ｍＬで２回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、１３９．８ｇ（収率９６．０％）の目的化合物を得た。得られた化合物は精製することなく次の反応に使用した。

＜２＞　２－（［１，１′－ビフェニル］－４－イルオキシ）ベンゼンアミンの合成

【化１２５】



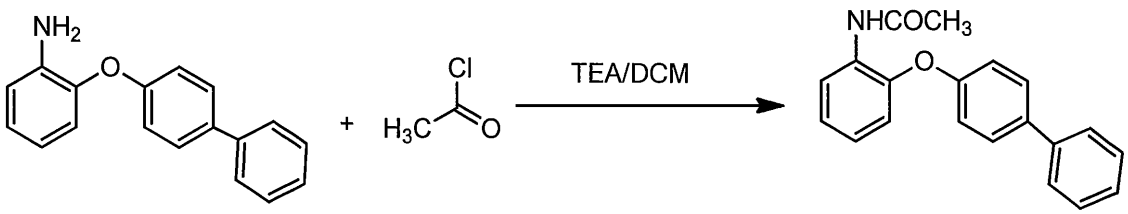
本化合物は、下記の手順で合成した。

撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸５１０ｍＬと塩化スズ二水和物５１０ｇ（２．２６ｍｏｌ）を入れ室温で撹拌した。次いで前記＜１＞で得たニトロ化合物１３９．５ｇ（０．４８ｍｏｌ）をＴＨＦ５１０ｍＬに溶かした溶液をよく撹拌しながら滴下した。滴下開始とほぼ同時に発熱が始まったので、４０℃を超えたところで水浴により冷却した。滴下終了後、滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、更に４０℃で２時間、後反応させた後、室温まで冷却した。

得られた反応液を、撹拌装置、リービッヒ冷却管、５００ｍＬの滴下ロート及び温度計をセットした３Ｌの４つ口丸底フラスコに移して氷水浴で５℃まで冷却し、４０％水酸化ナトリウム水溶液２８５ｍＬを発熱に気を付けつつ滴下してアルカリ性にした。析出した無機塩を吸引ろ過し、更に酢酸エチル１Ｌでろ滓を洗った。次いで、ろ液を３Ｌの分液ロートに移して水層を分離し、５００ｍＬの酢酸エチルで抽出した後、５００ｍＬの水で洗い、炭酸カリウムで乾燥させた。次いで、炭酸カリウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗オイルを、トルエンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製して、１００．７ｇ（収率８０．３％）の目的化合物を得た。

＜３＞　Ｎ－［２－（〔１，１′－ビフェニル］－４－イルオキシ）フェニル］アセトアミドの合成

【化１２６】



本化合物は、下記の手順で合成した。

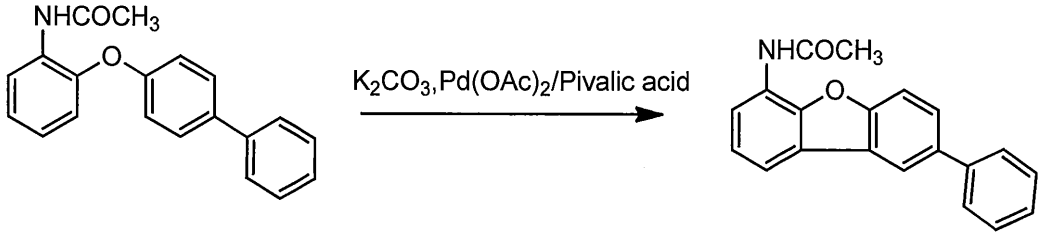
撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物１００．５ｇ（０．３８４ｍｏｌ）、ＤＣＭ６２０ｍＬ、ＴＥＡ６１．４ｇ（０．５８ｍｏｌ）を入れ、

氷水浴で－１０℃まで冷却した後、０℃を超えない温度で塩化アセチル４３．５ｇ（０．５４２ｍｏｌ）を滴下した。次いでＤＣＭ１００ｍＬで滴下ロートを洗って反応液に加え、同じ温度で３０分撹拌した後、室温に戻して更に４時間撹拌した。

得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷３４０ｇを入れた２Ｌの４つ口丸底フラスコに撹拌しながら滴下した後、２Ｌの分液ロートに移して水層を分離し、ＤＣＭ３４０ｍＬで抽出した。次いで、元のＤＣＭ層と一緒にして３４０ｍＬの水で３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶を、トルエンとｎ－ヘプタンを溶媒とする再結晶により精製し、１００．０ｇ（収率８５．７％）の目的化合物を得た。

＜４＞　７－フェニル－４－ジベンゾフランアセトアミドの合成

【化１２７】



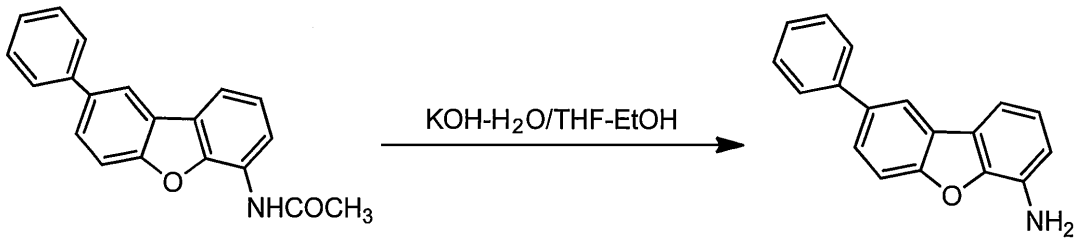
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド９５．０ｇ（０．３１３ｍｏｌ）、ピバリン酸３２１．１ｇ（３．１３ｍｏｌ）、炭酸カリウム４．３３ｇ（３１．３ｍｍｏｌ）及び酢酸パラジウム７．０６ｇ（３１．３ｍｍｏｌ）を入れ、１０５℃で４８時間、更に１１５℃で２４時間反応させた。

得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした３Ｌの４つ口丸底フラスコに入れた１３７０ｍＬの水に投入した。次いで撹拌しながら、炭酸ナトリウム２５０．０ｇを発泡に気を付けつつ数回に分けて投入し、３０分撹拌した後、５３５ｍＬの酢酸エチルを加えて３Ｌの分液ロートに移し分液した。水層は更に２回５３５ｍＬの酢酸エチルで抽出した。次いで酢酸エチル層を水３４０ｍＬ及び飽和食塩水３４０ｍＬで２回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、８０．４ｇ（収率８５．３％）の目的化合物を得た。

＜５＞　７－フェニル－４－ジベンゾフランアミンの合成

【化１２８】



本化合物も、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

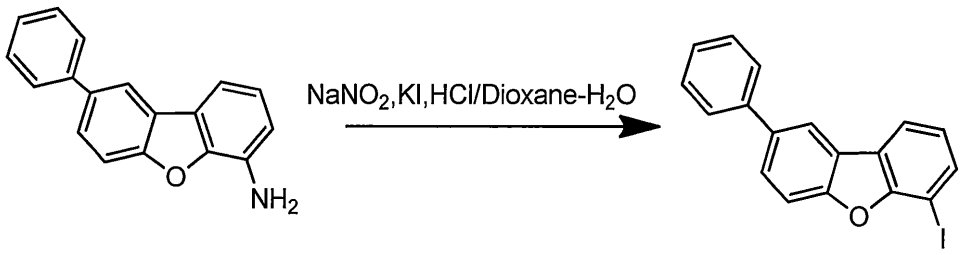
撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド８０．４ｇ（０．２６８ｍｏｌ）、エタノール６９０ｍＬ、水酸化カリウム１２０．５ｇ（２．１４ｍｏｌ）、ＴＨＦ２９０ｍＬ、水２９０ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液を室温まで冷却し不溶物をろ過した後、減圧下で溶媒を留去して得られ

た粗製物に、ジエチルエーテル１２８０ｍＬを加えて抽出し、分離された水層は更にジエチルエーテル４２０ｍＬで抽出した。次いでジエチルエーテル層を水２６５ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、４１．３ｇ（収率５９．４％）の目的化合物を得た。

＜６＞　７－フェニル－４－ヨードジベンゾフランの合成

【化１２９】



本化合物は、下記の手順で合成した。

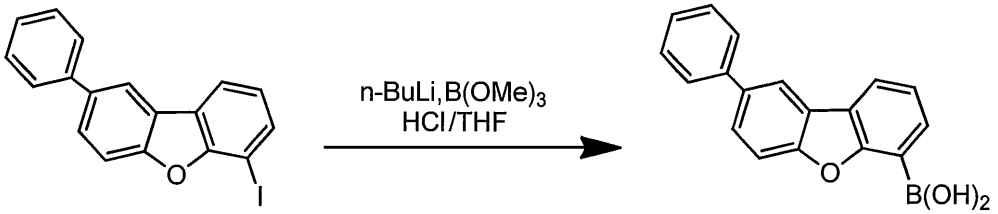
撹拌装置、アーリン冷却管、２００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物４１．２ｇ（０．１５９ｍｏｌ）、水３３０ｍＬ、濃塩酸７７ｍＬ及びジオキサン１００ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで５℃を超えない温度で、亜硝酸ナトリウム１５．４ｇ（０．２２３ｍｏｌ）を水１０６ｍＬで溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ヨウ化カリウム３５．８ｇ（０．２１６ｍｏｌ）及び水１０７ｍＬを入れ１０℃以下に保った。次いで１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下した後、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを３３０ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液した。水層は再度３３０ｍＬのＤＣＭで抽出した。次いで、ＤＣＭ層を１つに纏めて２０％のチオ硫酸ナトリウム水溶液２８０ｍＬで洗い、更に水２８０ｍＬで２回洗った後、硫酸マグネシウムで乾燥させた。次いで硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物４０．６ｇ（収率６９．０％）を得た。

＜７＞　７－フェニル－４－ジベンゾフランボロン酸の合成

【化１３０】



本化合物は、合成例１６の＜７＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物２６．５ｇ（１０９．７ｍｍｏｌ）と脱水ＴＨＦ２６０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　８３ｍＬ（１３１．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ

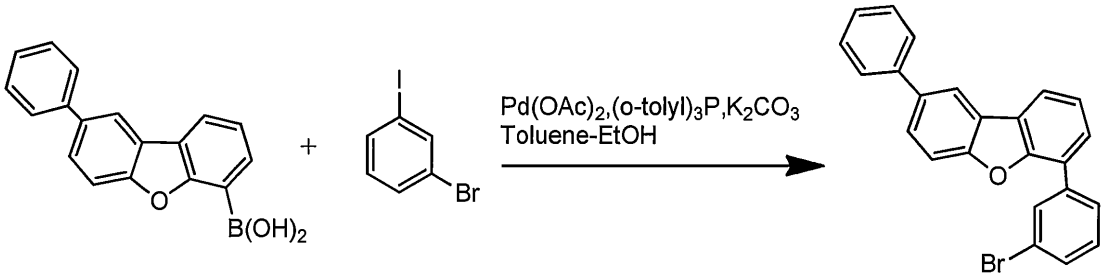
７７ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１４．８ｇ（１４２．７ｍｍｏｌ）を－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ６５ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸２０ｍＬと水１９０ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル２７０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水２００ｍＬで洗浄し、硫酸マグネシウムで乾燥した後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１７５ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して目的のボロン酸２３．５ｇ（収率７４．５％）を得た。

＜８＞　７－フェニル－４－（３－ブロモフェニル）ジベンゾフランの合成

【化１３１】



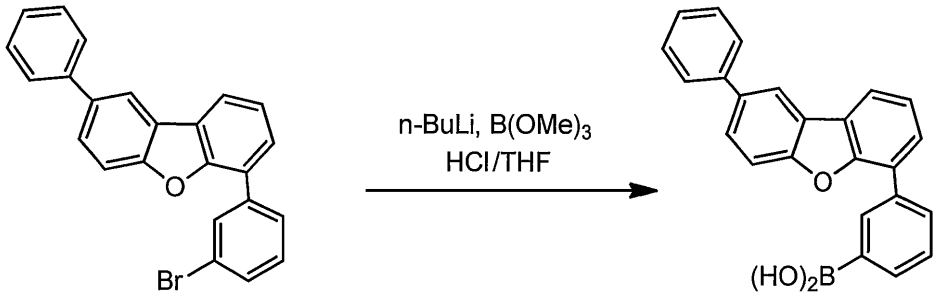
本化合物は、合成例１６の＜８＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸２３．５ｇ（８１．７ｍｍｏｌ）、３－ヨードブロモベンゼン２５．５ｇ（９０．２ｍｍｏｌ）、トルエン２８６ｍＬ、エタノール１４３ｍＬ、炭酸カリウム２２．４ｇ（１６３．５ｍｍｏｌ）及び水８３ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム８８．１ｍｇ（０．３７ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２６ｇ（０．８２ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し酢酸エチル８５ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水８５ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物をｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２３．１ｇ（収率８３．５％）を得た。

＜９＞　３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸の合成

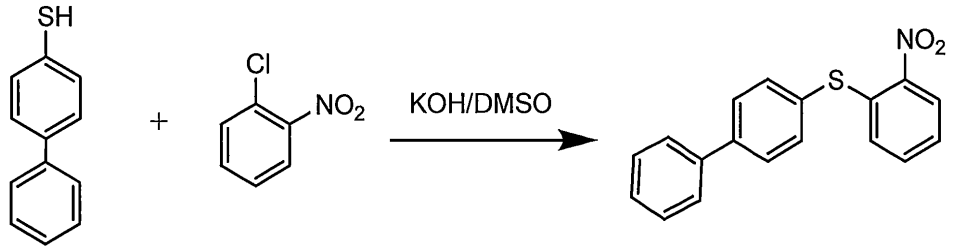
【化１３２】



本化合物は、合成例１６の＜９＞と同様にして下記の手順で合成した。
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜８＞で得た臭化物２３．１ｇ（６８．１ｍｍｏｌ）と脱水ＴＨＦ３５０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　５２ｍＬ（８２．４ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ６４ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$９．３ｇ（８８．５ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ８１ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。
次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットしたＬの４つ口丸底フラスコに、濃塩酸７５ｍＬと水１８８ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。
得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１６５ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１６５ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン７０ｍＬとトルエン２８ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１７．０ｇ（収率６８．９％）の目的化合物を得た。

【００８６】
合成例２１
３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸の合成

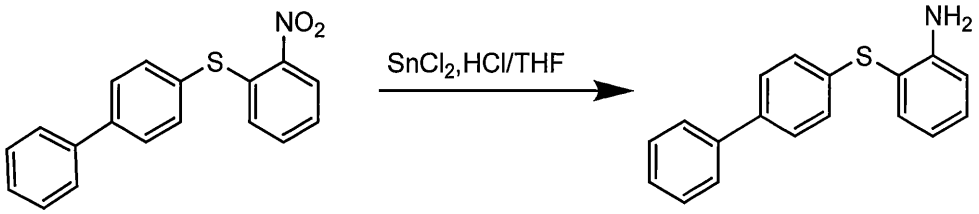
＜１＞　４－（２－ニトロチオフェノキシ）－１，１′－ビフェニルの合成
【化１３３】



本化合物は、下記の手順で合成した。
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、ＤＭＳＯ７０ｍＬと水酸化カリウム２３．１ｇ（０．４１ｍｏｌ）を入れ、窒素気流下で撹拌した。次いで、ｐ－フェニルチオフェノール７２．６ｇ（０．３９ｍｏｌ）をＤＭＳＯ５０ｍＬで稀釈した溶液を発熱に注意しながら滴下した後、４０℃で３０分撹拌した。次いで２５℃まで冷却し、ｏ－クロロニトロベンゼン６１．５ｇ（０．３９ｍｏｌ）をＤＭＳＯ４０ｍＬで稀釈した溶液を滴下した後、９０℃まで加熱し同じ温度で５時間反応させた。
得られた反応液を室温まで冷却し、１Ｌの水を入れた２Ｌの三角フラスコ中に注いだ後、ジエチルエーテル３００ｍＬで３回及び酢酸エチル３００ｍＬで２回抽出した。次いで有機層を１つに纏め、水５００ｍＬで３回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して、１０７．８ｇ（収率８９．９％）の目的化合物を得た。

＜２＞　２－（［１，１′－ビフェニル］－４－イルチオ）ベンゼンアミンの合成

【化１３４】



本化合物は、下記の手順で合成した。

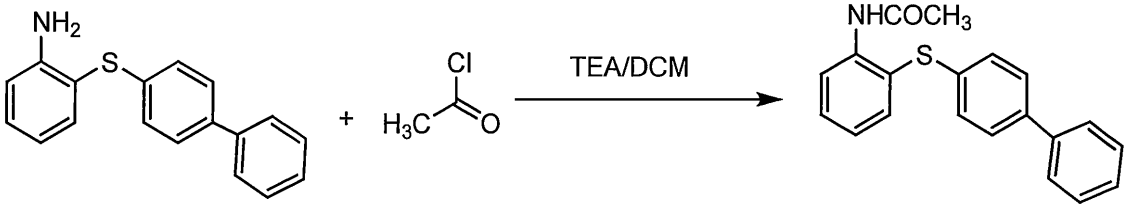
撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸３５０ｍＬと塩化スズ二水和物３５０ｇ（１．５７ｍｏｌ）を入れ室温で撹拌した。次いで前記＜１＞で得たニトロ化合物１０７．５ｇ（０．３５ｍｏｌ）をＴＨＦ３５０ｍＬに溶かした溶液をよく撹拌しながら滴下した。滴下開始とほぼ同時に発熱が始まったので４０℃を超えたところで水浴させて冷却した。滴下終了後、滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、更に４０℃で２時間、後反応させた後、室温まで冷却した。冷却とともに塩酸塩が析出したため、氷水浴で－１０℃まで冷却し、塩酸塩の結晶を吸引ろ過して回収した。

次に、撹拌装置、リービッヒ冷却管、５００ｍＬの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに前記塩酸塩と酢酸エチル６００ｍＬを入れ、１０％水酸化ナトリウム水溶液３１０ｍＬを発熱に気を付けつつ滴下しアルカリ性にした。

得られた溶液を２Ｌの分液ロートに移して水層を分離し、酢酸エチル層は２１０ｍＬの水で３回洗った後、炭酸カリウムで乾燥させた。次いで炭酸カリウムをろ過し、減圧下で溶媒を留去して、油状の目的化合物６９．１ｇ（収率７１．２％）を得た。得られた油状物は精製することなく次の反応に使用した。

＜３＞　Ｎ－［２－（〔１，１′－ビフェニル〕－４－イルチオ）フェニル］アセトアミドの合成

【化１３５】



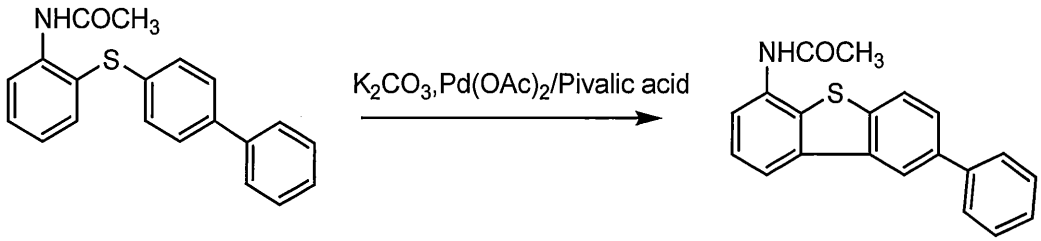
本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管（無くてもよい）、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜２＞で得たアミノ化合物６９．０ｇ（０．２４９ｍｏｌ）、ＤＣＭ４７０ｍＬ、ＴＥＡ４０．０ｇ（０．３７４ｍｏｌ）を入れ、氷水浴で－１０℃まで冷却した後、０℃を超えない温度で塩化アセチル２８．０ｇ（０．３４９ｍｏｌ）を滴下した。次いで、ＤＣＭ５０ｍＬで滴下ロートを洗って反応液に加え、同じ温度で３０分撹拌した後、室温に戻して更に４時間撹拌した。

得られた反応液を１Ｌの滴下ロートに移し、粉砕した氷２３０ｇを入れた１Ｌの４つ口丸底フラスコに撹拌しながら滴下した後、１Ｌの分液ロートに移して水層を分離し、ＤＣＭ１１０ｍＬで抽出し、元のＤＣＭ層と一緒にして２３０ｍＬの水で３回洗った。次いで硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去して得られた粗製物を、トルエンとｎ－ヘプタンを用いた再結晶により精製し、５７．２ｇ（収率７１．９％）の目的化合物を得た。

＜４＞　７－フェニル－４－ジベンゾチオフェンアセトアミドの合成

【化１３６】



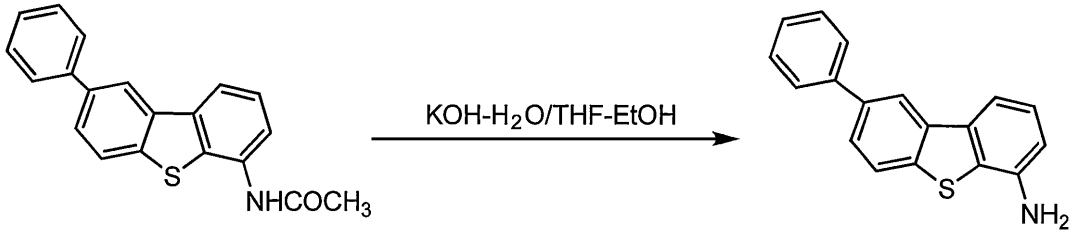
本化合物は、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜３＞で得たアセトアミド５７．０ｇ（０．１７８ｍｏｌ）、ピバリン酸１８４ｇ（１．７８ｍｏｌ）、炭酸カリウム２．４７ｇ（１７．８ｍｍｏｌ）及び酢酸パラジウム４．０１ｇ（１７．８ｍｍｏｌ）を入れ、１０５℃で４８時間、更に１１５℃で２４時間反応させた。

得られた反応物を室温まで冷却し、撹拌装置、リービッヒ冷却管（無くてもよい）及び温度計をセットした３Ｌの４つ口丸底フラスコに入れた１０２０ｍＬの水に投入し、次いで、撹拌しながら炭酸ナトリウム１４２．２ｇを発泡に気を付けつつ数回に分けて投入した。次いで３０分撹拌し、酢酸エチル７４０ｍＬを加えて３Ｌの分液ロートに移して分液し、水層は更に２回３００ｍＬの酢酸エチルで抽出した。次いで酢酸エチル層を水２９０ｍＬ及び飽和食塩水３００ｍＬで２回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、クロロホルムを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し４８．６ｇ（収率８６．１％）の目的化合物を得た。

＜５＞　７－フェニル－４－ジベンゾチオフェンアミンの合成

【化１３７】



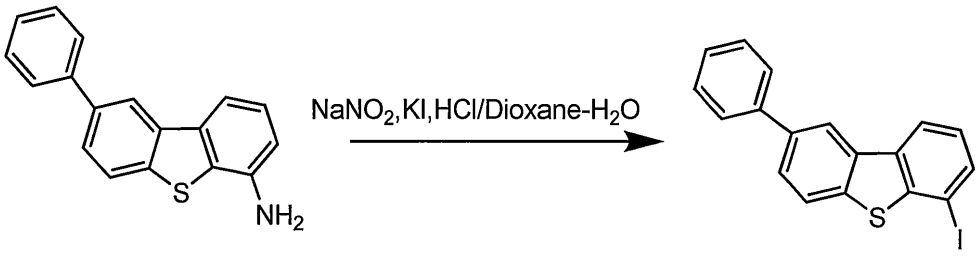
本化合物も、特表２０１３－５２０５０８号公報を参考にして下記の手順で合成した。

撹拌装置、リービッヒ冷却管及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜４＞で得たアセトアミド４８．５ｇ（０．１５２ｍｏｌ）、エタノール６６０ｍＬ、水酸化カリウム１１４．７ｇ（２．０２ｍｏｌ）、ＴＨＦ２７５ｍＬ、水２７５ｍＬを入れ、還流温度で１８時間反応させた。

得られた反応液を室温まで冷却し、不溶物をろ過し、減圧下で溶媒を留去して得られた粗製物に、ジエチルエーテル７３５ｍＬを加えて抽出し、分離された水層は、更にジエチルエーテル２４５ｍＬで抽出した。次いで、ジエチルエーテル層を水１６０ｍＬで３回洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ジクロロメタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、３５．０ｇ（収率８３．７％）の目的化合物を得た。

＜６＞　７－フェニル－４－ヨードジベンゾチオフェンの合成

【化１３８】



本化合物は、下記の手順で合成した。

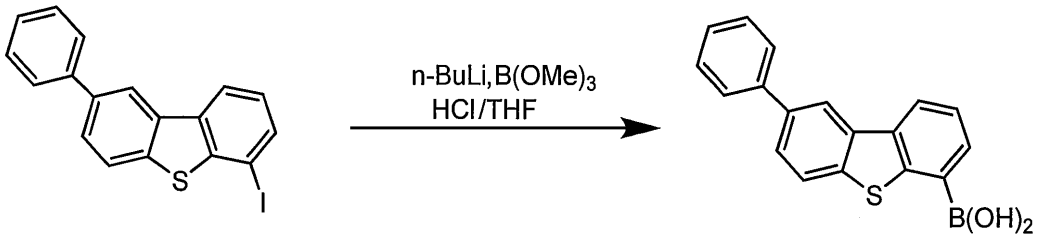
撹拌装置、アーリン冷却管、１００ｍＬの滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜５＞で得たアミノ化合物３５．０ｇ（０．１２７ｍｏｌ）、水２００ｍＬ、濃塩酸４５ｍＬ及びジオキサン６０ｍＬを入れ、還流温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで、５℃を超えない温度で、亜硝酸ナトリウム９．２ｇ（０．１３３ｍｏｌ）を水６３ｍＬで溶かした溶液を滴下し、５℃の氷水浴で３０分撹拌した後、ろ過助剤を用いてジアゾニウム塩の水溶液をろ過した。

次に、撹拌装置、アーリン冷却管、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ヨウ化カリウム２１．２ｇ（０．１２８ｍｏｌ）及び水６３ｍＬを入れ、１０℃以下に保った後、１０℃を超えない温度で前記ジアゾニウム塩の水溶液を滴下し、同じ温度で３０分撹拌し、更に４０℃で４時間撹拌した。

得られた反応液を室温まで冷却し、ＤＣＭを２００ｍＬ加えた後、２Ｌの分液ロートに移して水層を分液し、再度２００ｍＬのＤＣＭで抽出した。次いでＤＣＭ層を１つに纏め、２０％のチオ硫酸ナトリウム水溶液１７０ｍＬで洗い、更に水１７０ｍＬで２回洗った後、硫酸マグネシウムで乾燥させ、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗製物を、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物２８．６ｇ（収率５８．４％）を得た。

＜７＞　７－フェニル－４－ジベンゾチオフェンボロン酸の合成

【化１３９】



本化合物は、合成例１７の＜７＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜６＞で得たヨウ化物２８．５ｇ（７３．８ｍｍｏｌ）と脱水ＴＨＦ１７５ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ５４ｍＬ（８７．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１０．０ｇ（９５．９ｍｍｏｌ）を、－４５℃以下で滴下した。次いで、等圧式滴下ロートをＴＨＦ４５ｍＬで洗って反応液に加え、－４５℃以下で３０分撹拌した後、アセトン－ドライアイス浴を外して室温に戻し、２０時間、後反応させてホウ素反応液を得た。

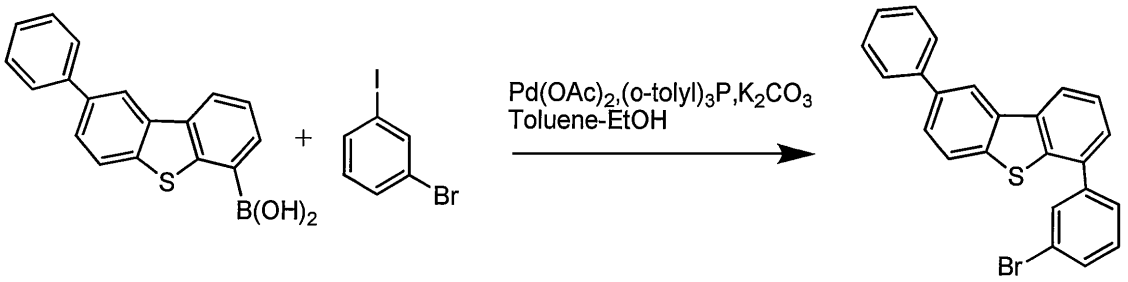
次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸３６ｍＬと水３６０ｍＬを入れ、

氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層は酢酸エチル１９０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１３０ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン１１５ｍＬを加え、５０℃で１時間リンスした後、室温まで冷却し、吸引ろ過して目的のボロン酸１５．６ｇ（収率６９．８％）を得た。

＜８＞　７－フェニル－４－（３－ブロモフェニル）ジベンゾチオフェンの合成

【化１４０】



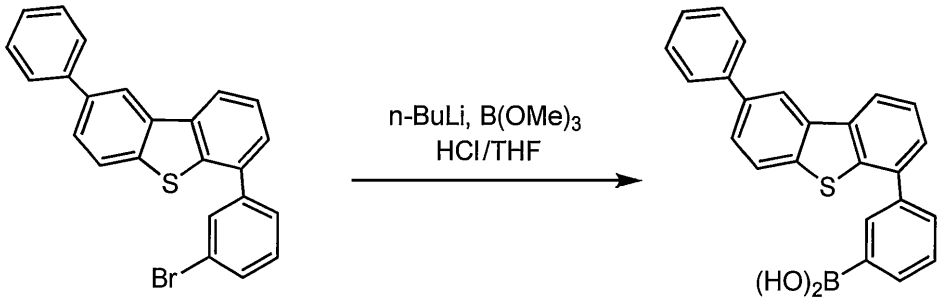
本化合物は、合成例１７の＜８＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜７＞で得たボロン酸１５．５ｇ（５１．０ｍｍｏｌ）、３－ヨードブロモベンゼン２４．４ｇ（８０．８ｍｍｏｌ）、トルエン２６０ｍＬ、エタノール１３０ｍＬ、炭酸カリウム２０．０ｇ（１４６．８ｍｍｏｌ）及び水７４ｍＬを入れ、窒素気流下、室温で３０分撹拌した後、酢酸パラジウム７９．０ｍｇ（０．３２ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２３ｇ（０．７１ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル８０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水８０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた油状物をｎ－ヘキサンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物１７．９ｇ（収率８４．７％）を得た。

＜９＞　３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸の合成

【化１４１】



本化合物は、合成例１７の＜９＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、５０ｍＬの等圧式滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、前記＜８＞で得た臭化物１７．８ｇ（４２．８ｍｍｏｌ）と脱水ＴＨＦ２１０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　３２ｍＬ（５１．４ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ４０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（Ｏ

Ｍｅ）$_3$５．７ｇ（５５．４ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、３００ｍＬの滴下ロート及び温度計をセットした５００ｍＬの４つ口丸底フラスコに、濃塩酸４７ｍＬと水１１８ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

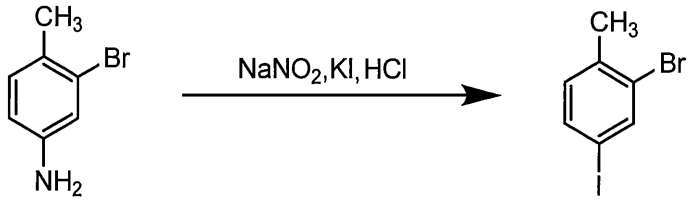
得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶にｎ－ヘプタン４５ｍＬとトルエン１８ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１０．４ｇ（収率６４．１％）の目的化合物を得た。

【００８７】

合成例２２

２－ブロモ－４－ヨードトルエンの合成

【化１４２】



本化合物は、下記の手順で合成した。

撹拌装置、アーリン冷却管、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、水４５０ｍＬ、２－ブロモ－ｐ－トルイジン５０．０ｇ（０．２６８ｍｏｌ）、濃塩酸１００ｍＬ（１．１０２ｍｏｌ）を入れ、撹拌しながら９０℃まで加熱した。次いで、同じ温度で１時間撹拌した後、室温まで冷却し、更に氷水浴で－１０℃まで冷却した。次いで、５℃を超えない温度で亜硝酸ナトリウム２２．３ｇ（０．３２３ｍｏｌ）を水７０ｍＬに溶かした水溶液を滴下した後、５℃以下で３０分撹拌し、助剤を用いてろ過し、ジアゾニウム塩の水溶液を得た。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、ヨウ化カリウム（和光純薬）６７．０ｇ（０．４０３ｍｏｌ）と水２３０ｍＬを入れ、水浴させて１０℃で撹拌した。次いで、前記ジアゾニウム塩の水溶液を滴下した後、水浴を外して室温に戻し、更に４０℃まで昇温して４時間撹拌した。

得られた反応液を再度室温まで戻し、ＤＣＭ３００ｍＬを加えて２Ｌの分液ロートに移した後、水層を分液し、更にＤＣＭ２５０ｍＬを加えて抽出した。次いでＤＣＭ層を１つに纏め、２０％チオ硫酸ナトリウム水溶液２５０ｍＬ、飽和重層水２５０ｍＬ、２５０ｍＬの水で３回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗オイルを、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、目的のヨウ化物７３．５ｇ（収率９２．２％）を得た。

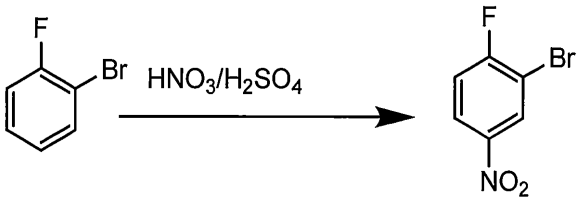
【００８８】

合成例２３

３－ブロモ－４－ヨード－１－フルオロベンゼンの合成

＜１＞　３－ブロモ－４－フルオロニトロベンゼンの合成

【化１４３】



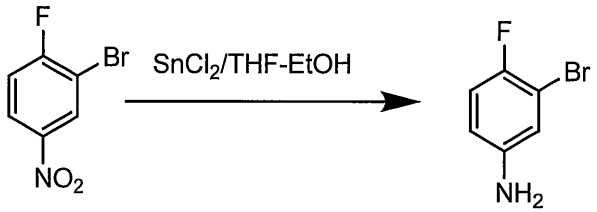
本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管、５０ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、１－ブロモ－２－フルオロベンゼン１００ｇ（０．５７ｍｏｌ）と濃硫酸５７０ｍＬを入れ、氷水浴で０℃まで冷却した後、４０℃を超えない温度で６８％硝酸４７ｍＬを滴下した。次いで２０℃まで冷却し、同じ温度で３時間、後反応させた。

得られた反応液を粉砕した氷３１５０ｇに注ぎ、析出した結晶をろ過して回収し、更に１．５Ｌの水で良く洗い、４０℃の真空乾燥機で１昼夜乾燥させた。次いで得られた粗結晶を更に石油エーテルで再結晶させて、１０３．１ｇ（収率８２．２％）の目的化合物を得た。融点は５７．５～５８．９℃であった。

＜２＞　３－ブロモ－４－フルオロアニリンの合成

【化１４４】



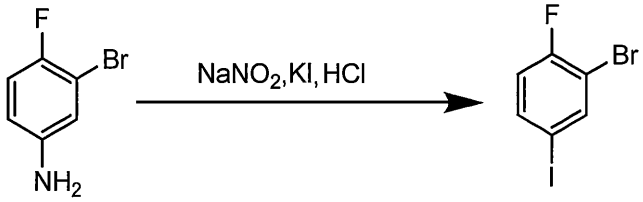
本化合物は、下記の手順で合成した。

撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、塩化スズ二水和物４６６．９ｇ（２．０７ｍｏｌ）及びエタノール７６０ｍＬを入れ、室温で撹拌した。次いで、塩化スズが完全に溶けた状態で３－ブロモ－４－フルオロニトロベンゼン１０２．７ｇ（０．４６６ｍｏｌ）のＴＨＦ溶液（７６０ｍＬ）を滴下した後、６０℃で２時間撹拌した。

得られた反応液を一旦室温に戻した後、減圧下で溶媒を留去し、得られた残渣に氷４４０ｇを入れ、更に７％水酸化ナトリウム水溶液１５８０ｍＬでアルカリ性にした。得られたスラリーを吸引ろ過して分離し、ヌッチェ上の残渣は、ＤＣＭ６００ｍＬで掛け洗いを行った。次いで、回収したろ液の有機層を分離し、水層は６００ｍＬのＤＣＭで抽出した。次いでＤＣＭ層を１つに纏めて水６００ｍＬで洗浄した後、炭酸カリウムを用いて乾燥させ、炭酸カリウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗製物を、トルエンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、５４．７ｇ（収率６１．７％）の目的化合物を得た。

＜３＞　２－ブロモ－４－ヨード－１－フルオロベンゼンの合成

【化１４５】



本化合物は、下記の手順で合成した。

撹拌装置、リービッヒ冷却管、１００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、水６３０ｍＬ、濃塩酸８４ｍＬ（０．９２６ｍｏｌ）及び３－ブロモ－４－フルオロアニリン５４．７ｇ（０．２４１ｍｏｌ）を入れ、室温で１昼夜撹拌した。次いで、氷水浴で－１０℃まで冷却し、５℃を超えない温度で、亜硝酸ナトリウム１９．０ｇ（０．２７０ｍｏｌ）の水溶液（６３ｍＬ）を滴下した後、５℃以下で３０分撹拌し、ろ過助剤を用いてろ過してジアゾニウム塩の水溶液を得た。

次に、撹拌装置、アーリン冷却管、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、ヨウ化カリウム４２．０ｇ（０．２５１ｍｏｌ）と水１２５ｍＬを入れ、水浴下、１０℃で撹拌した。次いで前記ジアゾニウム塩の水溶液を滴下した後、水浴を外し、室温に戻したのち４０℃まで昇温し、同じ温度で４時間撹拌した。

得られた反応液を再度室温まで戻し、ＤＣＭ２７０ｍＬを加えて２Ｌの分液ロートに移した後、水層を分液し、更にＤＣＭ２２０ｍＬを加えて抽出した。次いで、ＤＣＭ層を１つに纏め、２０％チオ硫酸ナトリウム水溶液２２０ｍＬ、飽和重層水２２０ｍＬ、２２０ｍＬの水で３回洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗オイルを、ｎ－ヘプタンを展開溶媒とするシリカゲルカラムクロマトグラフィーで精製し、６２．５ｇ（収率８６．０％）の目的化合物を得た。

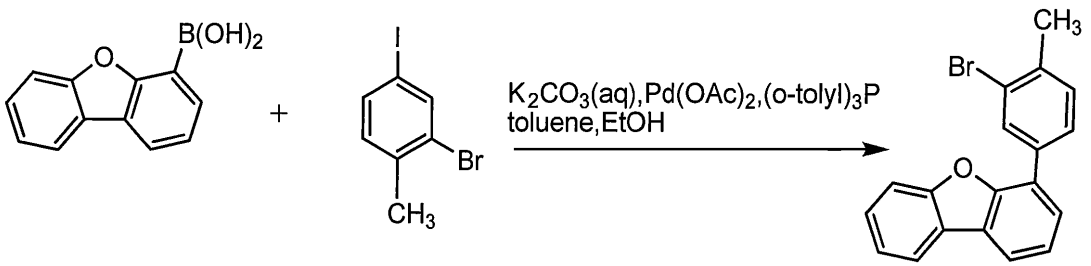
【００８９】

合成例２４

２－メチル－５－（ジベンゾフラン－４－イル）フェニルボロン酸の合成

＜１＞　４－（３－ブロモ－４－メチルフェニル）ジベンゾフランの合成

【化１４６】



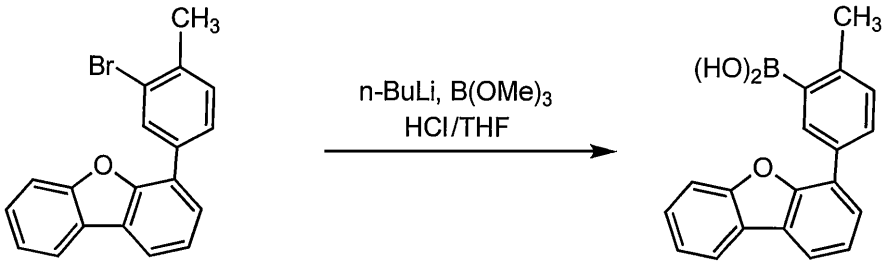
本化合物は、合成例８の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、合成例８の４－ジベンゾフランボロン酸１９．３ｇ（９１．０ｍｍｏｌ）、合成例２２の２－ブロモ－４－ヨードトルエン２６．９ｇ（１００．０ｍｍｏｌ）、トルエン３００ｍＬ、エタノール１５０ｍＬ、炭酸カリウム２５．１ｇ（１８１．５ｍｍｏｌ）及び水９０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム０．１０ｇ（０．４５ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２７ｇ（０．９１ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１００ｍＬで２回抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた油状物を、ｎ－ヘプタンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物２３．３ｇ（収率７５．９％）を得た。

＜２＞　２－メチル－５－（ジベンゾフラン－４－イル）フェニルボロン酸の合成

【化１４７】



本化合物は、合成例８の＜３＞を参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物２３．０ｇ（７１．２ｍｍｏｌ）と脱水ＴＨＦ４００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　５５ｍＬ（８５．４ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$９．７ｇ（９２．６ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸８０ｍＬと水２００ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を１Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１４０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１４０ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン７０ｍＬとトルエン３０ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１２．８ｇ（収率６２．４％）の目的化合物を得た。

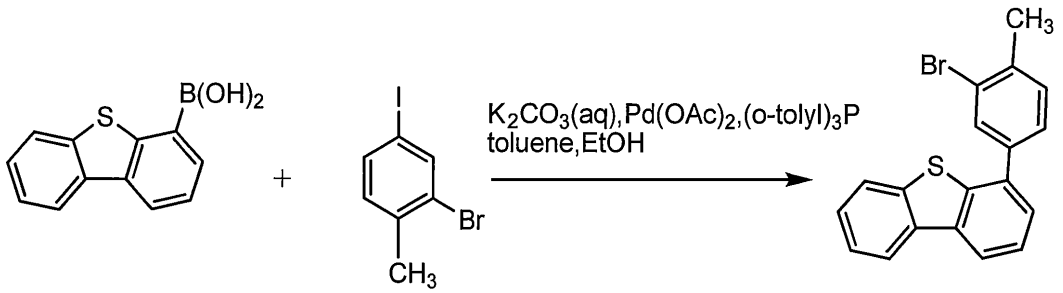
【００９０】

合成例２５

２－メチル－５－（ジベンゾチオフェン－４－イル）フェニルボロン酸の合成

＜１＞　４－（３－ブロモ－４－メチルフェニル）ジベンゾチオフェンの合成

【化１４８】

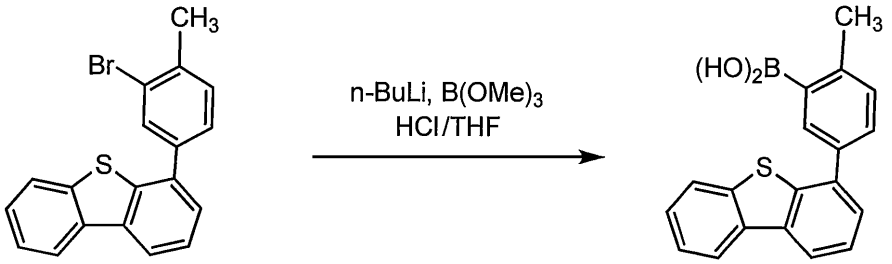


本化合物は、合成例９の＜２＞と同様にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、合成例９の４－ジベンゾチオフェンボロン酸２０．８ｇ（９１．０ｍｍｏｌ）、合成例２２の２－ブロモ－４－ヨードトルエン２６．９ｇ（１００．０ｍｍｏｌ）、トルエン３００ｍＬ、エタノール１５０ｍＬ、炭酸カリウム２５．１ｇ（１８１．５ｍｍｏｌ）及び水９０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム０．１０ｇ（０．４５ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．２７ｇ（０．９

１ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。
得られた反応液を室温まで冷却し、水層を分液して酢酸エチル１００ｍＬで２回抽出した。次いで有機層を１つに纏め、飽和食塩水１００ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過いて除去し、減圧下で溶媒を留去した。次いで、得られた油状物を、ｎ－ヘプタンとトルエンの混合溶媒を用いた再結晶により精製し、目的の臭化物１９．９ｇ（収率６１．８％）を得た。融点は１３２．０～１３３．０℃であった。

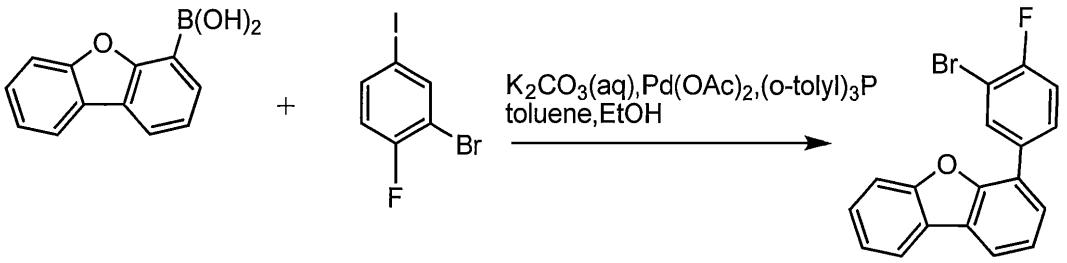
＜２＞　２－メチル－５－（ジベンゾチオフェン－４－イル）フェニルボロン酸の合成
【化１４９】



本化合物は、合成例９の＜３＞と同様にして下記の手順で合成した。
撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物１９．５ｇ（５５．２ｍｍｏｌ）と脱水ＴＨＦ３００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　４３ｍＬ（６８．８ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$７．５ｇ（７１．７ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。
次に、撹拌装置、リービッヒ冷却管（無くてもよい）、５００ｍＬの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸６３ｍＬと水１５７ｍＬを入れ、氷浴で－５℃まで冷却した。次いで１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。
得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１１０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１１０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで、得られた粗結晶にｎ－ヘプタン７５ｍＬとトルエン３２ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１２．５ｇ（収率７１．２％）の目的化合物を得た。
【００９１】
合成例２６
２－フルオロ－５－（ジベンゾフラン－４－イル）－フェニルボロン酸の合成

＜１＞　４－（３－ブロモ－４－フルオロフェニル）ジベンゾフランの合成

【化１５０】



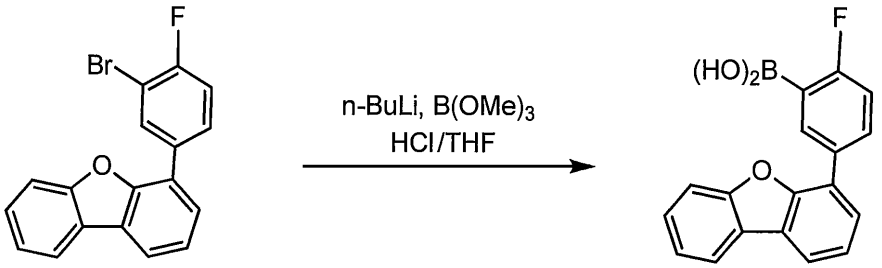
本化合物は、合成例８の＜２＞を参照して下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、合成例８の４－ジベンゾフランボロン酸２２．３ｇ（１０５．２ｍｍｏｌ）、合成例２３の３－ブロモ－４－ヨード－１－フルオロベンゼン３４．７ｇ（１１５．６ｍｍｏｌ）、トルエン３５０ｍＬ、エタノール１７５ｍＬ、炭酸カリウム２９．０ｇ（２０９．８ｍｍｏｌ）及び水１０５ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで、酢酸パラジウム０．１２ｇ（０．５４ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３２ｇ（１．０７ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１５０ｍＬで２回抽出した。有機層を１つに纏め、飽和食塩水１５０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物をｎ－ヘプタンとトルエンの混合溶媒によるシリカゲルカラムクロマトグラフィーで分離し、目的の臭化物３２．４ｇ（収率９０．３％）を得た。

＜２＞　２－フルオロ－５－（ジベンゾフラン－４－イル）－フェニルボロン酸の合成

【化１５１】



本化合物も、合成例８の＜３＞を参照して下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物３２．４ｇ（９５．０ｍｍｏｌ）と脱水ＴＨＦ４８０ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　７６ｍＬ（１２１．６ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$１２．９ｇ（１２３．５ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等圧式滴下ロートをＴＨＦ１００ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

次に、撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした２Ｌの４つ口丸底フラスコに、濃塩酸１０５ｍＬと水２６５ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

得られた反応液を２Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１７０ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１７０ｍＬで洗浄し

、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン９５ｍＬとトルエン４０ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１２．８ｇ（収率６２．４％）の目的化合物を得た。

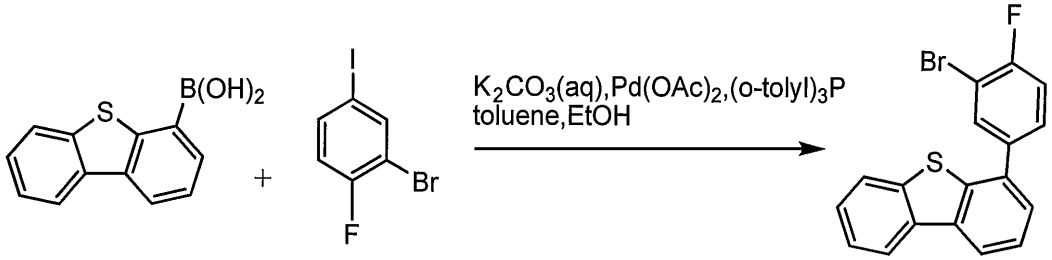
【００９２】

合成例２７

２－フルオロ－５－（ジベンゾチオフェン－４－イル）－フェニルボロン酸の合成

＜１＞　４－（３－ブロモ－４－フルオロフェニル）ジベンゾチオフェンの合成

【化１５２】



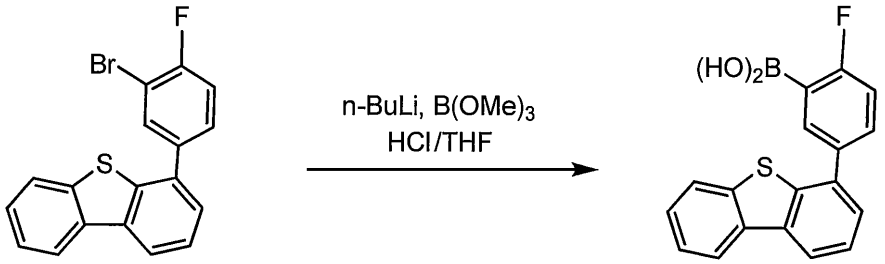
本化合物は、合成例９の＜２＞と同様にして下記の手順で合成した。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１Ｌの４つ口丸底フラスコに、合成例９の４－ジベンゾチオフェンボロン酸２３．２ｇ（１０１．８ｍｍｏｌ）、合成例２３の３－ブロモ－４－ヨード－１－フルオロベンゼン３３．６ｇ（１１１．９ｍｍｏｌ）、トルエン３４０ｍＬ、エタノール１７０ｍＬ、炭酸カリウム２８．０ｇ（２０２．６ｍｍｏｌ）及び水９０ｍＬを入れ、窒素気流下、室温で３０分撹拌した。次いで酢酸パラジウム０．１１ｇ（０．５０ｍｍｏｌ）とトリ（ｏ－トリル）ホスフィン０．３０ｇ（０．９８ｍｍｏｌ）を加えて加熱し、還流温度で２時間撹拌した。

得られた反応液を室温まで冷却して水層を分液し、酢酸エチル１５０ｍＬで抽出した。次いで有機層を１つに纏め、飽和食塩水１５０ｍＬで洗い、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた油状物をｎ－ヘプタンとトルエンの混合溶媒を用いた再結晶により精製し、１８．４ｇ（収率５３．０％）の目的化合物を得た。

＜２＞　２－フルオロ－５－（ジベンゾチオフェン－４－イル）フェニルボロン酸の合成

【化１５３】



本化合物は、合成例９の＜３＞と同様にして下記の手順で合成した。

撹拌装置、塩化カルシウム管を取り付けたリービッヒ冷却管、窒素導入管、１００ｍＬの等圧式滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、前記＜１＞で得た臭化物１９．３ｇ（５４．０ｍｍｏｌ）と脱水ＴＨＦ４００ｍＬを入れ、窒素気流下、アセトン－ドライアイス浴で－６０℃以下に冷却した。次いで、ｎ－ＢｕＬｉ　４２ｍＬ（６６．９ｍｍｏｌ）を－５０℃以下で滴下した後、等圧式滴下ロートをＴＨＦ５０ｍＬで洗って反応液に加えた。次いで－５０℃以下で１時間、後反応させた後、Ｂ（ＯＭｅ）$_3$　７．３ｇ（７０．５ｍｍｏｌ）を、－４５℃を超えない温度で滴下した。次いで、等

圧式滴下ロートをＴＨＦ７５ｍＬで洗って反応液に加え、３０分アセトン－ドライアイス浴で後反応させた後、室温に戻して更に２０時間、後反応させてホウ素反応液を得た。

撹拌装置、リービッヒ冷却管（無くてもよい）、１Ｌの滴下ロート及び温度計をセットした１Ｌの４つ口丸底フラスコに、濃塩酸６２ｍＬと水１５４ｍＬを入れ、氷浴で－５℃まで冷却した。次いで、１０℃を超えない温度で前記ホウ素反応液を滴下した後、１０℃以下で１時間撹拌し、更に室温に戻して３時間撹拌した。

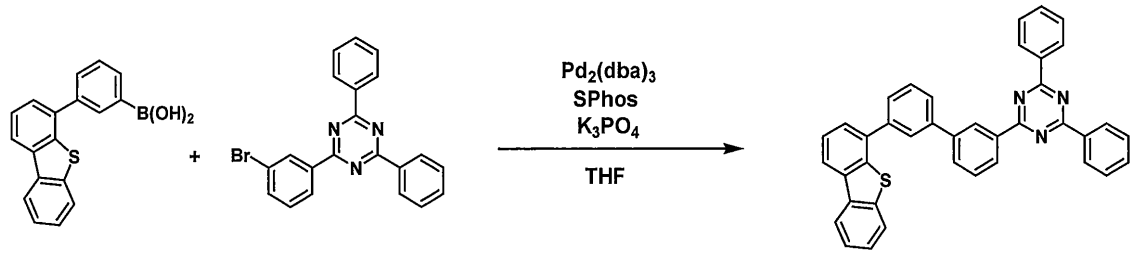
得られた反応液を３Ｌの分液ロートに移して有機層を分液し、水層はジエチルエーテル１００ｍＬで３回抽出した。次いで有機層を１つに纏め、飽和食塩水１１０ｍＬで洗浄し、硫酸マグネシウムで乾燥させた後、硫酸マグネシウムを吸引ろ過して除去し、減圧下で溶媒を留去した。次いで得られた粗結晶にｎ－ヘプタン７５ｍＬとトルエン２２ｍＬの混合溶液を加え、５０℃で１時間撹拌した後、室温に戻し、吸引ろ過して１１．８ｇ（収率６８．１％）の目的化合物を得た。

【００９３】

実施例１

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１２３３の化合物〕

【化１５４】



上記反応式による化合物の合成を以下のようにして行った。

撹拌装置、アーリン冷却管、窒素導入管及び温度計をセットした１００ｍＬの４つ口丸底フラスコに、合成例９の３－（ジベンゾ［ｂ，ｄ］チオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２６ｍｍｏｌ）、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）、１．３５Ｍリン酸三カリウム水溶液（K_3PO_4：２．７８ｇ＋H_2O：９．７ｍＬ）、ＴＨＦ２９．１ｍＬを入れ、１時間窒素バブリングを行った。次いで、トリス（ジベンジリデンアセトン）ジパラジウム（０）〔$Pd_2(dba)_3$〕０．０８１ｇ、２－ジシクロヘキシルホスフィノ－２′，６′－ジメトキシビフェニル〔ＳＰｈｏｓ〕０．０７５ｇを加え、窒素気流下で８０℃に加熱し還流・撹拌した。１５時間後に薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／３．５）で、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物に酢酸エチルを加え、分液ロートに移して飽和食塩水で洗い、更に酢酸エチルを加えて有機層を抽出した。分液中に多量の析出物が確認されたため吸引ろ過し、得られた灰白色固体をメタノール・水で洗った後、減圧乾燥した。次いでトルエンを加えて加熱還流し、シリカゲルを用いて熱ろ過を行った。薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／３．５）で確認したところ、この時点で原料由来のスポットは全て消失していた。次いで、得られた液体を濃縮し減圧乾燥した後、再結晶（使用溶媒：トルエン）により精製し、更にヘキサンで洗い、減圧乾燥して白色固体を得た（収量２．０２ｇ／収率８１．５％）。次いで、得られた白色固体を定法により昇華精製した。精製の条件と収量、収率を表５５７に示すが、高温側温度及び低温側温度は、定法における昇華作業温度である。

【表５５７】

高温側温度 [℃]	低温側温度 [℃]	仕込量 [g]	窒素流量 [cc／min]	収量 [g]	収率 [%]
20→330→335→350	20→150	0.901	5.0	0.793	88.0

昇華精製により得られた結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図１に、質量分析（Ｍａｓｓ）の結果を図２に示す。

また、元素分析の結果は以下のとおりであり、カッコ内の数字は理論値である。

炭素：８２．５０（８２．５１）、水素：４．３６（４．４４）

窒素：　７．３１（　７．４０）、硫黄：５．４３（５．６５）

これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【００９４】

得られたＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺの熱物性の評価結果を表５５８に示す。

【表５５８】

化合物	ガラス転移温度 [℃]	結晶化温度 [℃]	融点 [℃]	5%重量減衰温度 [℃]
DBT(4)－H－H－PhTRZ	101	158	249	438

次に、得られたＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺの各種特性を測定するため、真空一貫型蒸着装置を用いた抵抗加熱蒸着法によりＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ単膜（厚さ４０ｎｍ）を作製した。

次に、上記単膜について、島津製作所製の紫外・可視（ＵＶ－ｖｉｓ）分光光度計ＵＶ－３１５０を用いて紫外－可視（ＵＶ－ｖｉｓ）吸収スペクトルを測定し、堀場製作所製のＦｌｕｏｒｏ　Ｍａｘ－４を用いてフォトルミネッセンス（ＰＬ）スペクトルを測定した。結果を図３に示す。

また、上記単膜について、住友重機械工業社製の光電子収量（ＰＹＳ）装置を用いて、真空中でイオン化ポテンシャル（Ｉｐ）を測定した。結果を図４に示す。Ｉｐは有機エレクトロルミネッセンス素子を作製するのに必要なデータである。

更に有機ＥＬ素子は全固体型の発光素子であるから固体状態での光学特性が重要であるが、エネルギーギャップ（Ｅｇ）はＵＶ－ｖｉｓ吸収スペクトルの吸収端から見積もることができるし、電子親和力（Ｅａ）は、ＩｐからＥｇを引けば算出できる。

ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺのイオン化ポテンシャル（Ｉｐ）、電子親和力（Ｅａ）及びエネルギーギャップ（Ｅｇ）の結果を表５５９に示す。

【表５５９】

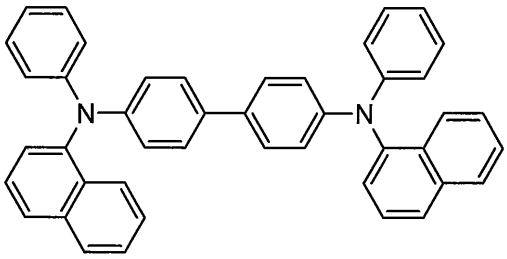
化合物	I_p [eV]	E_a [eV]	E_g [eV]
DBT(4)－H－H－PhTRZ	−6.23	−2.79	3.44

【００９５】

次に、ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ及び下記式で示されるα－ＮＰＤの特性を測定するため、真空一貫型蒸着装置を用いた抵抗加熱蒸着法により、α－ＮＰＤ単膜（厚さ４０ｎｍ）、ＤＢＴ－ＴＲＺ単膜（厚さ４０ｎｍ）、α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ

－ＰｈＴＲＺ（１：１）共蒸着膜（厚さ３０ｎｍ）を作製した。

【化１５５】



α－ＮＰＤ

次いで、上記各膜について、島津製作所製の紫外・可視（ＵＶ－ｖｉｓ）分光光度計ＵＶ－３１５０を用いて紫外－可視（ＵＶ－ｖｉｓ）吸収スペクトルを測定した。測定結果を図５に示す。

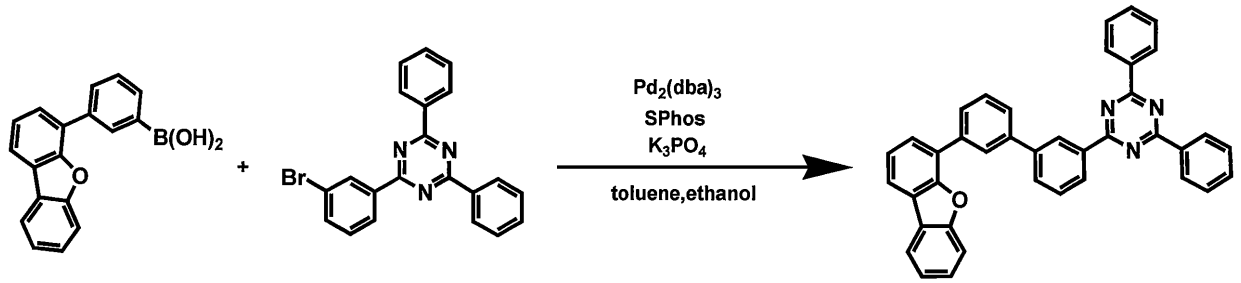
また、上記各膜について、堀場製作所製のＦｌｕｏｒｏ　Ｍａｘ－４を用いてフォトルミネッセンス（ＰＬ）スペクトルを測定した。測定結果を図６に示す。α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（１：１）共蒸着膜からは、それぞれのフォトルミネッセンス領域とは異なる結果が得られたことから、両者はエキサイプレックスを形成し、そのフォトルミネッセンスが観察されたものと考えられる。

【００９６】

実施例２

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１の化合物〕

【化１５６】



上記反応式による化合物の合成を以下のようにして行った。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１００ｍＬの４つ口丸底フラスコに、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．６９ｇ（５．５５ｍｍｏｌ）、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．０４ｇ（２．６８ｍｍｏｌ）、１Ｍのリン酸三カリウム水溶液（K_3PO_4：１．５２ｇ＋H_2O：５．３２ｍＬ)、トルエン１０．６４ｍＬ、エタノール５．３２ｍＬを入れ、１時間窒素バブリングを行った。次いで、トリス（ジベンジリデンアセトン）ジパラジウム（０）〔$Pd_2(dba)_3$〕３．２ｍｇ、２－ジシクロヘキシルホスフィノ－２′，６′－ジメトキシビフェニル〔ＳＰｈｏｓ〕２９．８ｍｇを加え、８０℃に加熱し環流・攪拌した。２時間後に薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／２）で、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を水・メタノールで一晩分散洗浄した後、吸引ろ過した。次いで、ろ物をトルエン３００ｍＬで熱ろ過し、ろ液を濃縮し、減圧乾燥して白色固体を得た（収量１．６３ｇ／収率８１．５％）。

得られた白色固体を定法により昇華精製した。精製の条件と収量、収率を表５６０に示すが、高温側温度及び低温側温度は、定法における昇華作業温度である。

【表５６０】

高温側温度 [℃]	低温側温度 [℃]	窒素流量 [cc／min]	収量 [g]	収率 [%]
330	100	10.0	0.968	72.0

昇華精製により得られた結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図７に示す。また、質量分析の結果、目的化合物を表す５５２に分子イオンピークを示すことが分かった。また元素分析の結果は以下のとおりであり、カッコ内の数字は理論値である。なお、元素分析には燃焼操作が含まれるため、化合物中の酸素の値は測定できない。

炭素：８４．８９（８４．９１）、水素：４．５４（４．５７）

窒素：　７．５４（　７．６２）

これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【００９７】

実施例３～５

実施例１で合成したＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺを用いて、α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（１：１）共蒸着膜（厚さ３０ｎｍ）のフォトルミネッセンスを測定したところ、長波長側でエキサイプレックスを形成していたことから、深赤色リン光材料Ｉｒ（ＤＰＱ）$_{2}$（ｄｐｍ）の三重項励起錯体（^{3}ＭＬＣＴ）との重なりが大きく、エキサイプレックスから発光材料への効率的なエネルギー移動が期待できる。そこでエキサイプレックスホスト（α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ）の混合比を下記実施例３～５のように変化させた発光層を有する有機ＥＬ素子を作製し最適混合比について検討した。

・実施例３

α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝８：２（厚さ２０ｎｍ）／７：３（厚さ２０ｎｍ）

・実施例４

α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝５：５（厚さ４０ｎｍ）

・実施例５

α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝３：７（厚さ２０ｎｍ）／２：８（厚さ２０ｎｍ）

なお、上記実施例３は、混合比が８：２の層と７：３の層を積層したものである。

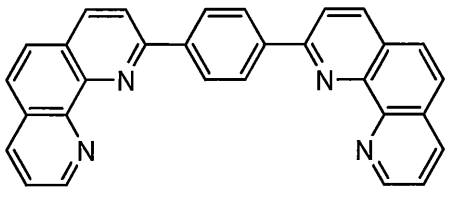
また、上記実施例５は、混合比が３：７の層と２：８の層を積層したものである。

有機ＥＬ素子の層構成は次のとおりであり、発光層のｘ：ｙが前記変化させた混合比に相当する。なお、発光層にはＩｒ（ＤＰＱ）$_{2}$（ｄｐｍ）を１ｗｔ％ドープした。また、カッコ内の数字は膜厚である。

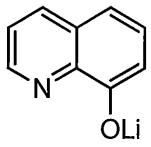
ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝ｘ：ｙ〔１ｗｔ％Ｉｒ（ＤＰＱ）$_{2}$（ｄｐｍ）ドープ〕（４０ｎｍ）（発光層）／ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ（３０ｎｍ）（電子輸送層）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（２０ｎｍ）（電子注入層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ（陰極）

用いた主な材料の化学構造は以下のとおりである。（ＤＮＴＰＤは前述した。）

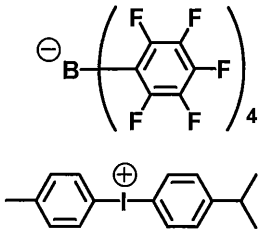
【化１５７】



DPB



Liq



PPBI

【００９８】

上記素子構成のエネルギーダイヤグラムを図８に示す。

また、作製した素子の、

電圧－電流密度特性を図９に、

電圧－輝度特性を図１０に、

電流密度－外部量子効率特性を図１１に、

輝度－外部量子効率特性を図１２に、

ＥＬスペクトルを図１３に、

素子寿命を図１４に、それぞれ示す。

また、各ホスト混合比率と、１ｃｄ／ｍ^2、１００ｃｄ／ｍ^{2}及び１０００ｃｄ／ｍ^{2}における電圧、電力効率、電流効率、外部量子効率、色度座標値の関係を、表５６１～表５６３に示す。

【００９９】

【表５６１】

ホスト混合比率（NPD:DBT(4)－H－H－PhTRZ）	1cd／m^2				
	電圧（V）	電力効率（lm／W）	電流効率（cd／A）	外部量子効率（%）	色度座標（x, y）
8:2／7:3（実施例3）	2.35	3.0	2.23	17.1	0.69, 0.28
5:5（実施例4）	2.41	3.27	2.51	18.2	0.70, 0.29
3:7／2:8（実施例5）	2.61	2.71	2.25	18.2	0.70, 0.30

【表５６２】

ホスト混合比率（NPD:DBT(4)－H－H－PhTRZ）	100cd／m^2				
	電圧（V）	電力効率（lm／W）	電流効率（cd／A）	外部量子効率（%）	色度座標（x, y）
8:2／7:3（実施例3）	3.27	1.92	2.00	15.0	0.70, 0.29
5:5（実施例4）	3.51	2.22	2.47	17.9	0.70, 0.29
3:7／2:8（実施例5）	4.33	1.41	1.94	15.6	0.70, 0.29

【表５６３】

ホスト混合比率（NPD:DBT(4)－H－H－PhTRZ）	1000cd／m^2				
	電圧（V）	電力効率（lm／W）	電流効率（cd／A）	外部量子効率（%）	色度座標（x, y）
8:2／7:3（実施例3）	5.51	0.78	1.36	9.51	0.67, 0.31
5:5（実施例4）	5.80	1.06	1.96	13.5	0.69, 0.30
3:7／2:8（実施例5）	7.45	0.59	1.40	10.9	0.70, 0.30

【０１００】

実施例６～７

有機ＥＬ素子の寿命改善を目的として、リチウムドープ領域について検討した。

即ち、下記の層構成の有機ＥＬ素子を作製した。カッコ内の数字は層の厚さである。

・Ｄｅｖｉｃｅ１（実施例６）

ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝５０：５０：〔１ｗｔ％Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）ドープ〕（４０ｎｍ）（発光層）／ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ（３０ｎｍ）（電子輸送層）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（２０ｎｍ）（電子注入層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ（陰極）

・Ｄｅｖｉｃｅ２（実施例７）

ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝５０：５０：〔１ｗｔ％Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）ドープ〕（４０ｎｍ）（発光層）／ＤＢＴ－ＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（５０ｎｍ）（電子注入層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ

Ｄｅｖｉｃｅ１の素子構成のエネルギーダイヤグラムを図８に、Ｄｅｖｉｃｅ２の素子構成のエネルギーダイヤグラムを図１５に示す。

また、作製した素子の、

電圧－電流密度特性を図１６に、

電圧－輝度特性を図１７に、

電流密度－外部量子効率特性を図１８に、

輝度－外部量子効率特性を図１９に、

ＥＬスペクトルを図２０に、

素子寿命を図２１に、それぞれ示す。

また、Ｄｅｖｉｃｅ１及びＤｅｖｉｃｅ２の、１ｃｄ／ｍ^2、１００ｃｄ／ｍ^2、及び１０００ｃｄ／ｍ^{2}における電圧、電力効率、電流効率、外部量子効率、色度座標値の関係を、表５６４～表５６６に示す。

【０１０１】

【表５６４】

Device	1cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例6)	2.41	3.27	2.51	18.2	0.70, 0.29
2(実施例7)	2.42	2.98	2.29	17.0	0.71, 0.29

【表５６５】

Device	100cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例6)	3.51	2.22	2.47	17.9	0.70, 0.29
2(実施例7)	3.71	1.96	2.31	16.9	0.71, 0.29

【表５６６】

Device	1000cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例6)	5.80	1.06	1.96	13.5	0.69, 0.30
2(実施例7)	6.21	0.96	1.89	13.0	0.70, 0.30

【０１０２】

実施例８～９

発光層に使用しているＩｒ（ＤＰＱ）$_2$（ｄｐｍ）の添加量を１ｗｔ％（実施例８）、及び２ｗｔ％（実施例９）として、素子の寿命に与える影響を調べた。

作製した有機ＥＬ素子の層構成は以下のとおりである。

・実施例８

ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝５０：５０：〔１ｗｔ％Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）ドープ〕（４０ｎｍ）（発光層）／ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（５０ｎｍ）（電子注入層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ

・実施例９

ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ＝５０：５０：〔２ｗｔ％Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）ドープ〕（４０ｎｍ）（発光層）／ＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（５０ｎｍ）（電子注入層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ

実施例８～９の素子構成のエネルギーダイヤグラムを図１５に示す。

また、作製した素子の、

電圧－電流密度特性を図２２に、

電圧－輝度特性を図２３に、
電流密度－外部量子効率特性を図２４に、
輝度－外部量子効率特性を図２５に、
ＥＬスペクトルを図２６に、
素子寿命を図２７に、それぞれ示す。
図２７から分かるように、添加量が２ｗｔ％の実施例９では、発光強度の１０％減衰時間が約１５００時間であり、十分実用可能である。
また実施例８～９の各素子の１ｃｄ／ｍ^2、１００ｃｄ／ｍ^{2}及び１０００ｃｄ／ｍ^{2}における電圧、電力効率、電流効率、外部量子効率、色度座標値の関係を、表５６７～表５６９に示す。

【０１０３】
【表５６７】

添加量 (wt%)	1cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例8)	2.42	2.98	2.29	17.0	0.71, 0.29
2(実施例9)	2.41	2.58	1.97	16.6	0.72, 0.28

【表５６８】

添加量 (wt%)	100cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例8)	3.71	1.96	2.31	16.9	0.71, 0.29
2(実施例9)	3.75	1.66	1.98	16.3	0.72, 0.28

【表５６９】

添加量 (wt%)	1000cd／m^2				
	電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)	色度座標 (x, y)
1(実施例8)	6.21	0.96	1.89	13.0	0.70, 0.30
2(実施例9)	6.29	0.78	1.55	10.9	0.71, 0.29

【０１０４】
実施例１０
実施例２で合成したＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺを真空蒸着で組み込んだ下記層構成の素子を作製し評価を行った。ＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ以外の主な材料の化学構造は実施例３～５と同じである。

ＩＴＯ／ＤＮＴＰＤ：ＰＰＢＩ（２０ｎｍ）（ホール注入層）／α－ＮＰＤ（２０ｎｍ）（ホール輸送層）／α－ＮＰＤ：ＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：Ｉｒ（ＤＰＱ）$_2$（ｄｐｍ）＝５０：５０：１ｗｔ％（４０ｎｍ）（発光層）／ＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ（２０ｎｍ）（発光層）／ＤＰＢ（３０ｎｍ）／ＤＰＢ：２０ｗｔ％Ｌｉｑ（２０ｎｍ）（電子輸送層）／Ｌｉｑ（１ｎｍ）（電子注入層）／Ａｌ（８０ｎｍ）

【０１０５】
上記素子構成のエネルギーダイヤグラムを図２８に示す。
また、作製した素子の、
電圧－電流密度特性を図２９に、
電圧－輝度特性を図３０に、
輝度－電流効率特性を図３１に
輝度－電力効率特性を図３２に
電流密度－外部量子効率特性を図３３に、
輝度－外部量子効率特性を図３４に、
ＥＬスペクトルを図３５に、それぞれ示す。
また、本実施例１０の素子の、１ｃｄ／ｍ^2、１００ｃｄ／ｍ^{2}及び１０００ｃｄ／ｍ^{2}における電圧、電力効率、電流効率、外部量子効率の関係を表５７０～表５７２に、更に励起光３４０ｎｍにおけるフォトルミネッセンスの量子収率を表５７３にそれぞれ示す。

【０１０６】
【表５７０】

1cd／m^2			
電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)
2.40	2.87	2.19	15.60

【表５７１】

100cd／m^2			
電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)
3.44	1.95	2.14	14.80

【表５７２】

1000cd／m^2			
電圧 (V)	電力効率 (lm／W)	電流効率 (cd／A)	外部量子効率 (%)
5.82	0.92	1.70	10.80

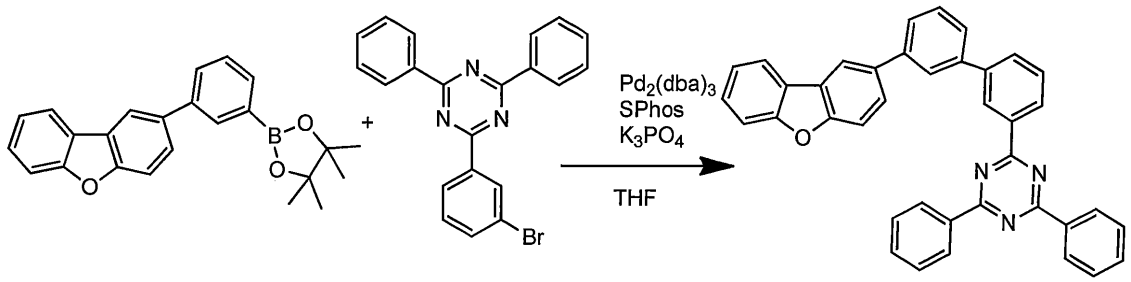
【表５７３】

PLQY(%) (Exc.340nm)
54.0

【０１０７】
実施例１１

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－３５３の化合物〕

【化１５８】



上記反応式による化合物の合成を以下のようにして行った。

撹拌装置、アーリン冷却管、窒素導入管、及び温度計をセットした１００ｍＬの４つ口丸底フラスコに、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）、１．３５Ｍリン酸三カリウム水溶液（K_3PO_4：２．７８ｇ＋H_2O：９．７ｍＬ）、ＴＨＦ２９．１ｍＬを入れ、１時間窒素バブリングを行った。次いで、トリス（ジベンジリデンアセトン）ジパラジウム（０）〔$Pd_2(dba)_3$〕０．０８１ｇ、２－ジシクロヘキシルホスフィノ－２′，６′－ジメトキシビフェニル〔ＳＰｈｏｓ〕０．０７５ｇを加え、窒素気流下で８０℃に加熱し還流・撹拌した。１５時間後に薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／３．５）で、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物に酢酸エチルを加え、分液ロートに移して飽和食塩水で洗い、更に酢酸エチルを加えて有機層を抽出した。分液中に多量の析出物が確認されたため吸引ろ過し、得られた灰白色固体をメタノール・水で洗った後、減圧乾燥した。次いでトルエンを加えて加熱還流し、シリカゲルを用いて熱ろ過し、薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／３．５）で確認したところ、この時点で原料由来のスポットは全て消失していた。得られた液体を濃縮し減圧乾燥した後、再結晶（使用溶媒：トルエン）により精製した。次いで、ヘキサンで洗い、減圧乾燥して白色固体を得た（収量２．００ｇ／収率８３．０％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図３６（全領域）及び図３７（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_3$）：δ　９．０８（ｔ，Ｊ＝１．８Ｈｚ，１Ｈ），８．８１（ｄｄ，Ｊ＝７．９，１．６Ｈｚ，５Ｈ），８．２７（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．０３（ｑ，Ｊ＝２．１Ｈｚ，２Ｈ），７．９６－７．９１（ｍ，１Ｈ），７．８４－７．５６（ｍ，１４Ｈ），７．５４－７．４６（ｍ，１Ｈ），７．３８（ｔ，Ｊ＝７．５Ｈｚ，１Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．９５（８４．９１）、水素：４．６０（４．５７）

窒素：　７．５９（　７．６２）

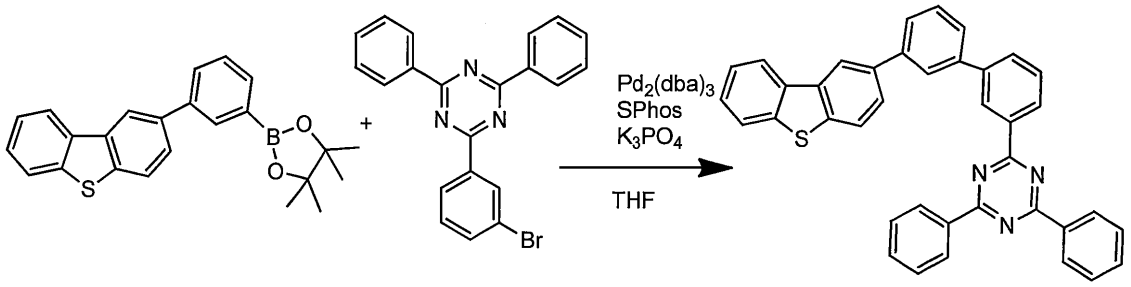
また、質量分析の結果は、ｍ／ｚ　５５１［Ｍ］$^+$であり、これらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１０８】

実施例１２

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－５２９の化合物〕

【化１５９】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９２ｇ／収率７７．１％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図３８（全領域）及び図３９（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．０８（ｄ，Ｊ＝１．４Ｈｚ，１Ｈ），８．８１（ｄｔ，Ｊ＝８．２，２．０Ｈｚ，５Ｈ），８．４７（ｄ，Ｊ＝１．４Ｈｚ，１Ｈ），８．２９－８．２２（ｍ，１Ｈ），８．０６（ｓ，１Ｈ），８．００－７．８６（ｍ，３Ｈ），７．８０（ｄｄｄ，Ｊ＝１５．１，８．０，１．５Ｈｚ，３Ｈ），７．７４－７．５５（ｍ，８Ｈ），７．５３－７．４３（ｍ，２Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．４７（８２．５１）、水素：４．５１（４．４４）

窒素：　７．２９（　７．４０）、硫黄：５．７３（５．６５）

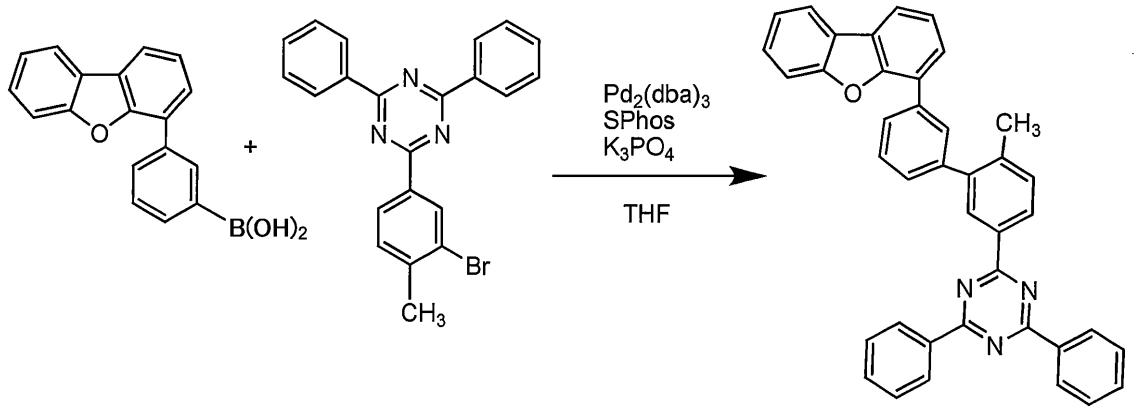
また、質量分析の結果は、ｍ／ｚ　５６７［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１０９】

実施例１３

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（１）－１０６１の化合物〕

【化１６０】



合成例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍ

ｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６３ｇ／収率６５．６％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図４０（全領域）及び図４１（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_3$）：δ　８．８１－８．７５（ｍ，４Ｈ），８．７４－８．６９（ｍ，２Ｈ），８．２４（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．００（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），７．８１－７．７３（ｍ，３Ｈ），７．６８－７．４３（ｍ，１２Ｈ），７．３９－７．３２（ｍ，１Ｈ），２．４６（ｓ，３Ｈ）ｐｐｍ；

また、熱分解温度（ＴＧ－ＤＴＡ）の結果を図４２に示す。

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．９５（８４．９３）、水素：４．６０（４．８１）

窒素：　７．３９（　７．４３）

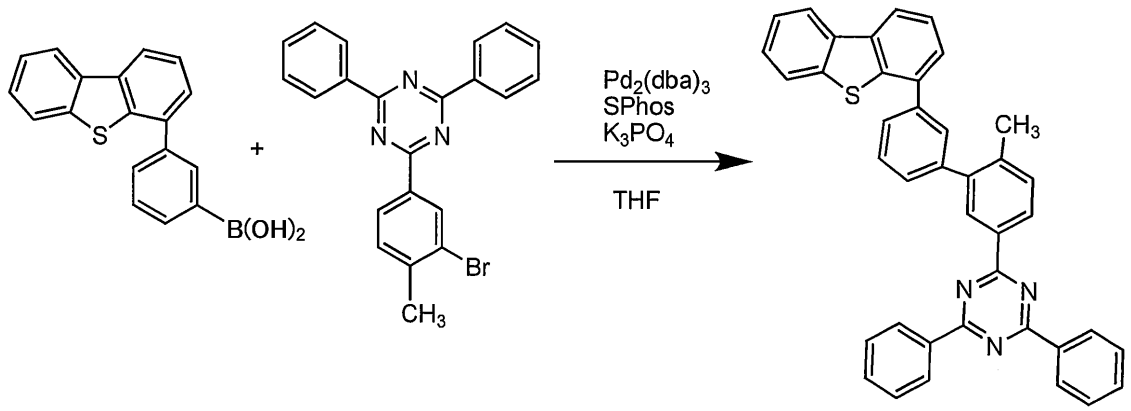
また、質量分析の結果は、ｍ／ｚ　５６６［Ｍ］$^+$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１１０】

実施例１４

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（１）－１２３７の化合物〕

【化１６１】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６５ｇ／収率６４．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図４３（全領域）及び図４４（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_3$）：δ　８．７９（ｄｄ，Ｊ＝８．０，１．１Ｈｚ，４Ｈ），８．７５（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．７０（ｄｄ，Ｊ＝８．２，１．８Ｈｚ，１Ｈ），８．２５－８．１３（ｍ，２Ｈ），７．８６（ｓ，１Ｈ），７．８３－７．７７（ｍ，２Ｈ），７．６７（ｔ，Ｊ＝７．６Ｈｚ，１Ｈ），７．６３－７．４０（ｍ，１２Ｈ），２．４９（ｄ，Ｊ＝１３．３Ｈｚ，３Ｈ）ｐｐｍ；

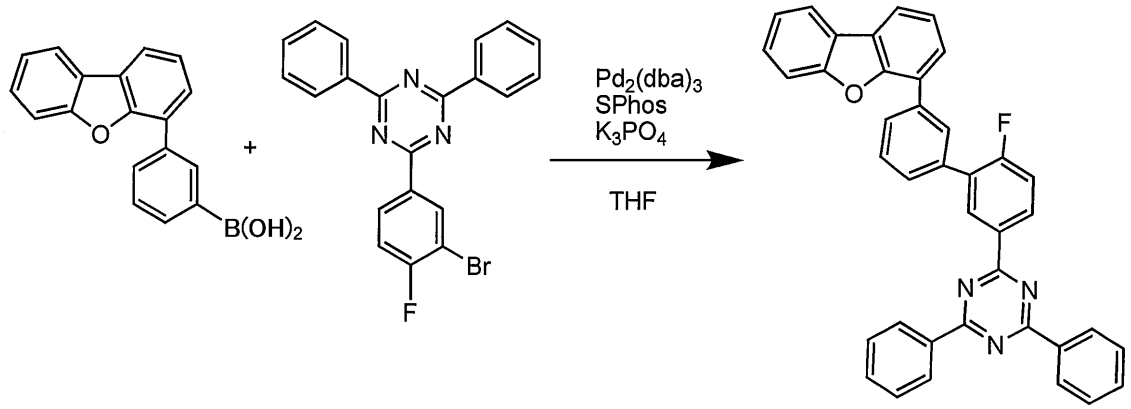
また、元素分析の結果は以下のとおりであり、カッコ内の数字は理論値である。
炭素：８２.６１（８２．５９）、水素：４．６０（４．６８）
窒素：　７．３１（　７．２２）、硫黄：５．４８（５．５１）
また、質量分析の結果は、ｍ／ｚ　５８１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１１１】

実施例１５

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（１）－１２０６の化合物〕

【化１６２】



実施例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．７４ｇ／収率６９．５％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図４５（全領域）及び図４６（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　８．９６（ｄｄ，Ｊ＝７．８，２．３Ｈｚ，１Ｈ），８．８５－８．７５（ｍ，５Ｈ），８．２４（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．０５－７．９５（ｍ，２Ｈ），７．８５－７．７４（ｍ，２Ｈ），７．７３－７．５５（ｍ、１０Ｈ），７．５４－７．４４（ｍ，１Ｈ），７．４５－７．３３（ｍ，２Ｈ）ｐｐｍ；

また、熱分解温度（ＴＧ－ＤＴＡ）の結果を図４７に示す。

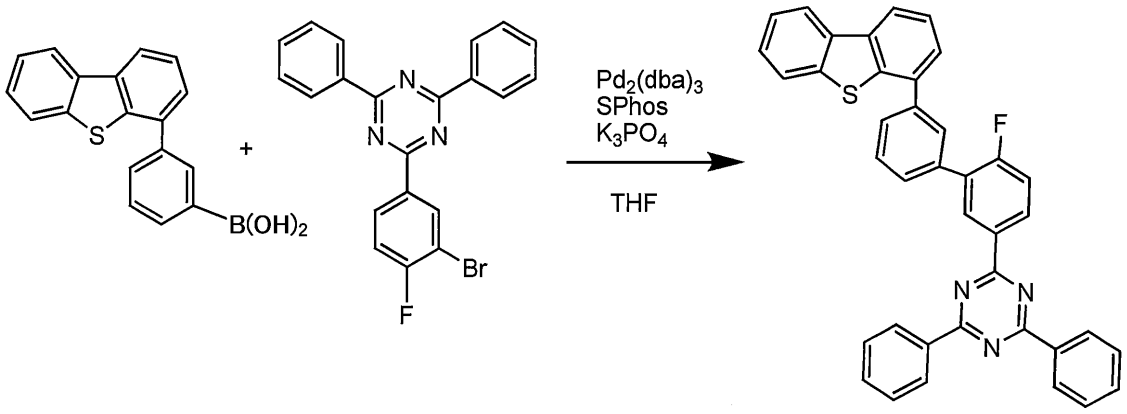
また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：８２．１４（８２．２３）、　水素：４．１２（４．２５）
窒素：　７．３５（　７．３８）、フッ素：３．３９（３．３４）
また、質量分析の結果は、ｍ／ｚ　５７０［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１１２】

実施例１６

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－１３８２の化合物〕

【化１６３】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０１ｇ／収率７８．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図４８（全領域）及び図４９（拡大図）に示す。

^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．００（ｄｄ，Ｊ＝７．８，２．３Ｈｚ，１Ｈ），８．８４－８．７２（ｍ，５Ｈ），８．２０（ｑ，Ｊ＝４．１Ｈｚ，２Ｈ），８．１０（ｓ，１Ｈ），７．８８－７．７４（ｍ，３Ｈ），７．７０（ｔ，Ｊ＝７．８Ｈｚ，１Ｈ），７．６５－７．５１（ｍ，８Ｈ），７．５１－７．３４（ｍ，３Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素　：８０．１０（７９．９８）、水素：４．２２（４．１３）

窒素　：　７．０４（　７．１７）、硫黄：５．４０（５．４７）

フッ素：　３．２４（　３．２４）

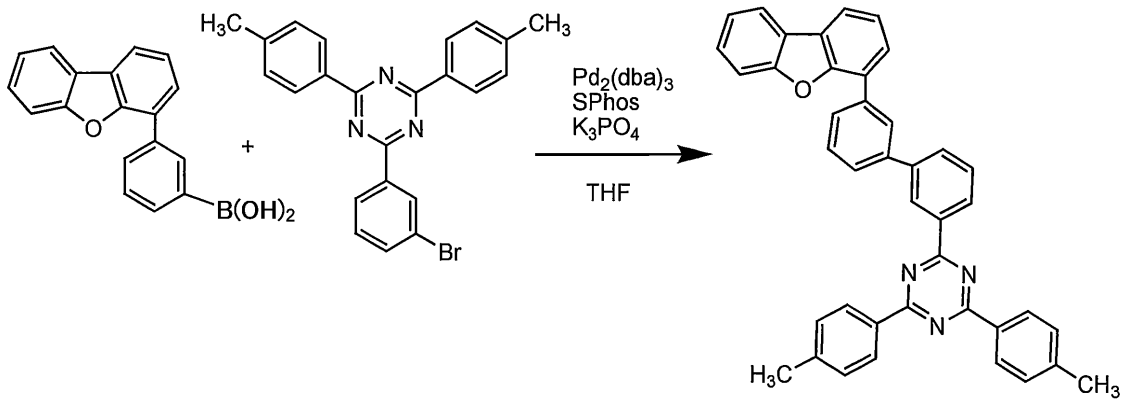
また、質量分析の結果は、ｍ／ｚ　５８１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１１３】

実施例１７

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－１０６４の化合物〕

【化１６４】



実施例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６１ｇ／収率６３．１％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図５０（全領域）及び図５１（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．０６（ｓ，１Ｈ），８．７９（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），８．６８（ｄ，Ｊ＝８．２Ｈｚ，４Ｈ），８．２６（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．０４（ｄ，Ｊ＝３．２Ｈｚ，２Ｈ），７．９１（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），７．８３－７．５９（ｍ，７Ｈ），７．５４－７．４６（ｍ，１Ｈ），７．３７（ｄ，Ｊ＝７．８Ｈｚ，５Ｈ），２．４８（ｓ，６Ｈ）ｐｐｍ；

また、熱分解温度（ＴＧ－ＤＴＡ）の結果を図５２に示す。

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８０（８４．９５）、水素：４．９８（５．０４）

窒素：　７．２１（　７．２５）

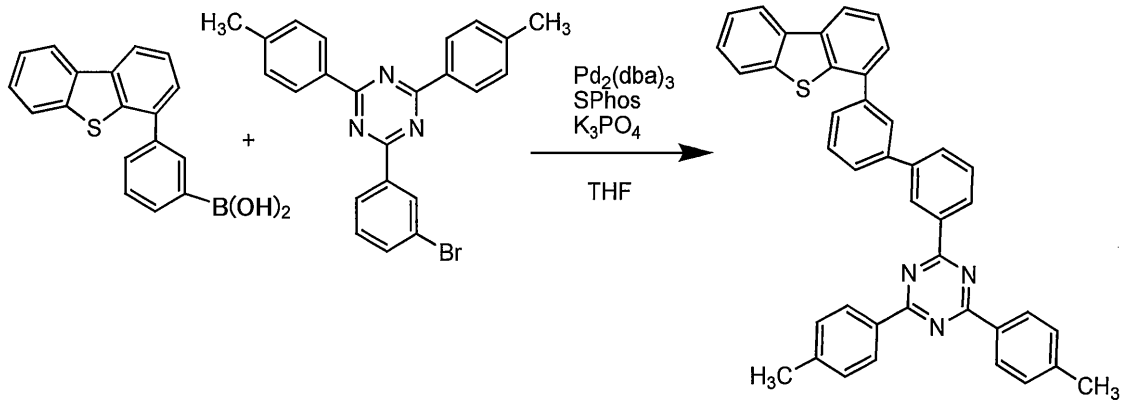
また、質量分析の結果は、ｍ／ｚ　５８０［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１１４】

実施例１８

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－１２４０の化合物〕

【化１６５】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０４ｇ／収率７８．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図５３（全領域）及び図５４（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_3$）：δ　９．１０（ｄ，Ｊ＝１．４Ｈｚ，１Ｈ），８．７８（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），８．６８（ｄ，Ｊ＝８．２Ｈｚ，４Ｈ），８．２８－８．１１（ｍ，３Ｈ），７．９３（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），７．８８－７．７４（ｍ，３Ｈ），７．７４－７．５５（ｍ，４Ｈ），７．５５－７．４１（ｍ，２Ｈ），７．４０－７．２８（ｍ，４Ｈ），２．４８（ｄ，Ｊ＝１４．２Ｈｚ，６Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．５９（８２．６６）、水素：５．０２（４．９１）

窒素：　７．０４（　７．０５）、硫黄：５．３５（５．３８）

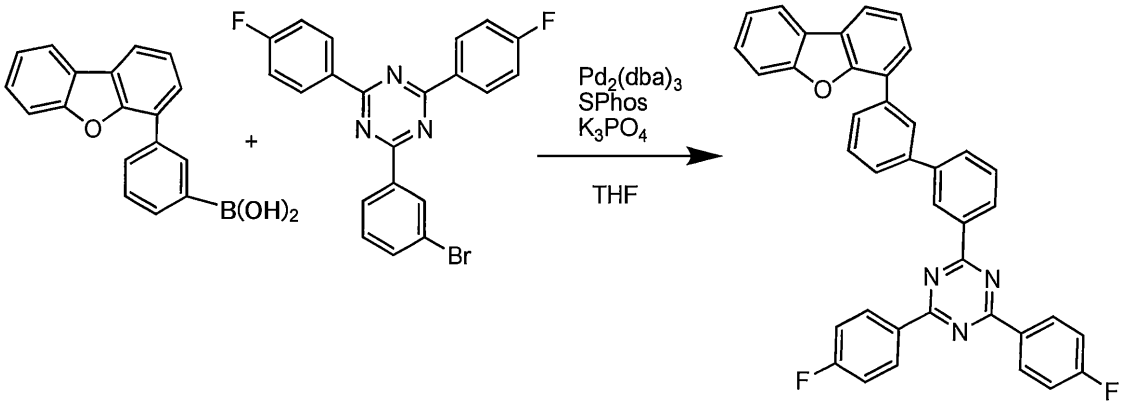
また、質量分析の結果は、ｍ／ｚ　５９５［Ｍ］$^+$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１１５】

実施例１９

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１２０９の化合物〕

【化１６６】



実施例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．７０ｇ／収率６６．２％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図５５（全領域）及び図５６（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＤＭＳＯ－ｄ６）：δ　９．０１（ｓ，１Ｈ），８．８４（ｄｄ，Ｊ＝８．７，５．５Ｈｚ，４Ｈ），８．７８（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），

８．６５（ｄ，Ｊ＝１．８Ｈｚ，１Ｈ），８．２６（ｄ，Ｊ＝７．６Ｈｚ，１Ｈ），８．１６（ｄ，Ｊ＝６．９Ｈｚ，２Ｈ），７．９７（ｄｄ，Ｊ＝８．７，１．８Ｈｚ，１Ｈ），７．８９－７．７７（ｍ，４Ｈ），７．７６－７．６７（ｍ，２Ｈ），７．５６（ｔ，Ｊ＝７．８Ｈｚ，１Ｈ），７．５２－７．４０（ｍ，４Ｈ）ｐｐｍ；

また、熱分解温度（ＴＧ－ＤＴＡ）の結果を図５７に示す。

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．６６（７９．７１）、　水素：３．７０（３．９５）

窒素：　７．１１（　７．１５）、フッ素：７．３２（７．１５）

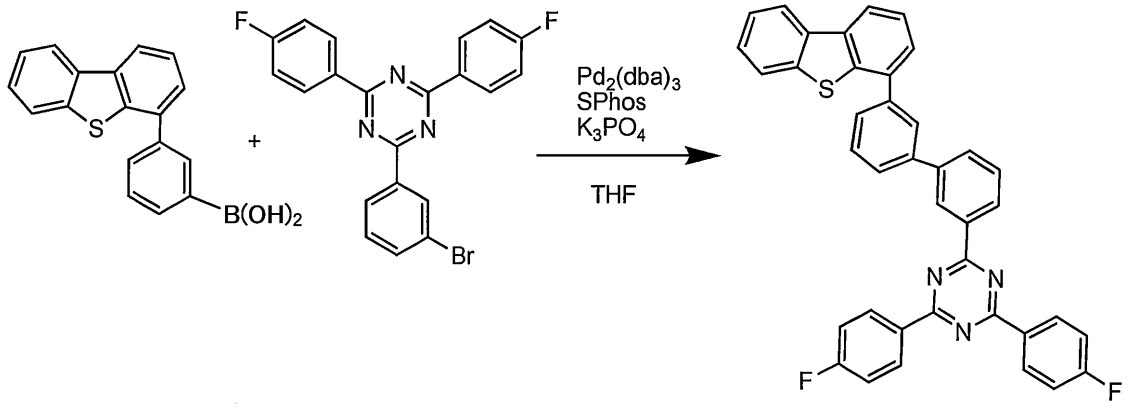
また、質量分析の結果は、ｍ／ｚ　５８８［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１１６】

実施例２０

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１３８５の化合物〕

【化１６７】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１０ｇ／収率７９．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図５８（全領域）及び図５９（拡大図）に示す。

^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．２１－８．９７（ｍ，１Ｈ），８．７９（ｄ，Ｊ＝５．４Ｈｚ，５Ｈ），８．３０－８．１３（ｍ，３Ｈ），７．９９－７．９０（ｍ，１Ｈ），７．９０－７．７５（ｍ，３Ｈ），７．６５（ｄ，Ｊ＝３５．８Ｈｚ，４Ｈ），７．５６－７．３９（ｍ，２Ｈ），７．２１（ｄ，Ｊ＝８．６Ｈｚ，４Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．４１（７７．５９）、水素：３．７５（３．８４）

窒素：　７．０３（　６．９６）、硫黄：５．２５（５．３１）

また、質量分析の結果は、ｍ／ｚ　６０３［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

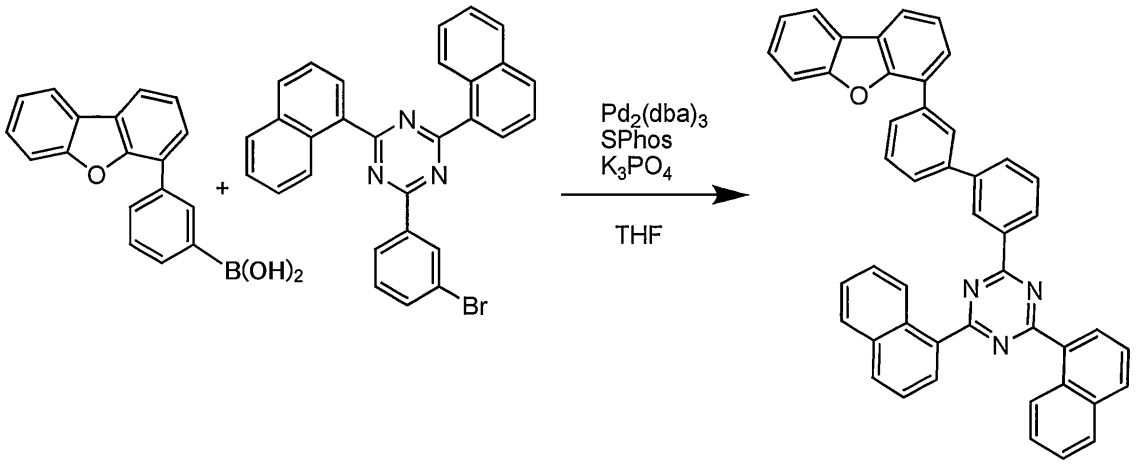
【０１１７】

実施例２１

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（

１－ナフチル）－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－７３３の化合物〕

【化１６８】



実施例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物に酢酸エチルを加え、分液ロートに移して飽和食塩水で洗い、更に酢酸エチルを加えて有機層を抽出した。分液中に多量の析出物が確認されたため吸引ろ過し、得られた灰白色固体をメタノール・水で洗った後、減圧乾燥した。次いでトルエンを加えて加熱還流し、シリカゲルを用いて熱ろ過し、薄層クロマトグラフィー（SiO_2、展開溶媒：ジクロロメタン／ヘキサン＝１／３．５）で確認したところ、この時点で原料由来のスポットは全て消失していた。得られた液体を濃縮し減圧乾燥した後、再結晶（使用溶媒：クロロベンゼン）により精製した。次いで、ヘキサンで洗い、減圧乾燥して白色固体を得た（収量２．２７ｇ／収率７５．６％）。更に白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図６０（全領域）及び図６１（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，$CDCl_3$）：δ　９．２７（ｄ，Ｊ＝８．７Ｈｚ，２Ｈ　９．２７（ｄ，Ｊ＝８．７Ｈｚ，２Ｈ),９．１５（ｓ，１Ｈ），８．８１（ｄ，Ｊ＝８．２Ｈｚ，１Ｈ），８．６１（ｄ，Ｊ＝７．３Ｈｚ，２Ｈ），８．２２（ｄ，Ｊ＝１．４Ｈｚ，１Ｈ），８．０９（ｄ,Ｊ＝７．８Ｈｚ，２Ｈ），８．０４（ｓ，１Ｈ），７．９７（ｔ，Ｊ＝４．１Ｈｚ,４Ｈ），７．８４－７．５７（ｍ，１１Ｈ），７．５６－７．４４（ｍ，３Ｈ），７．４２－７．２７（ｍ，１Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．５９（８６．６１）、水素：４．５２（４．４８）

窒素：　６．４１（　６．４５）

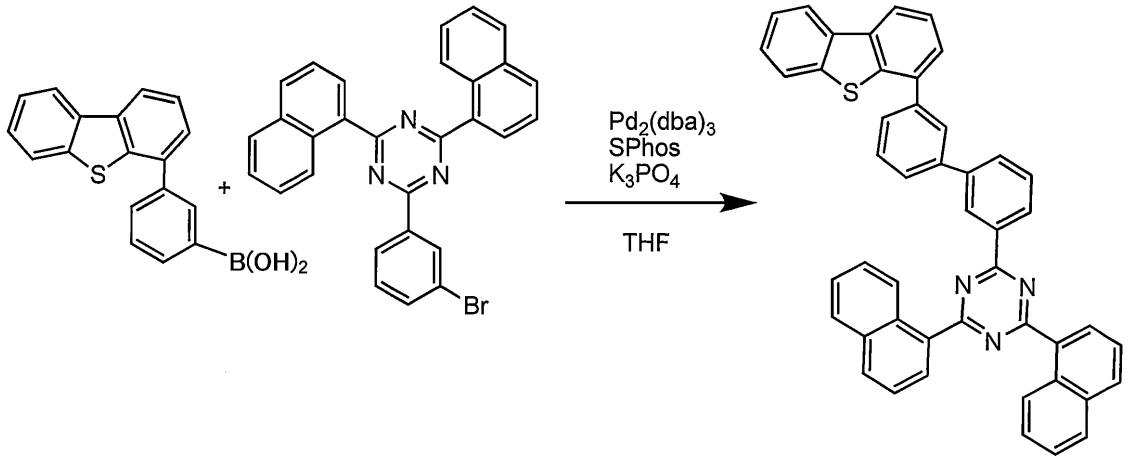
また、質量分析の結果は、ｍ／ｚ　６５１［Ｍ］$^+$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１１８】

実施例２２

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－８５５の化合物〕

【化１６９】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０５ｇ／収率５６．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図６２（全体図）及び図６３（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．２５（ｄ，Ｊ＝８．２Ｈｚ，２Ｈ），９．１７（ｓ，１Ｈ），８．８０（ｄ，Ｊ＝７．８Ｈｚ，１Ｈ），８．６０（ｄ，Ｊ＝６．９Ｈｚ，２Ｈ），８．２５－８．１８（ｍ，２Ｈ），８．１６（ｓ，１Ｈ），８．０８（ｄ，Ｊ＝８．２Ｈｚ，２Ｈ），７．９７（ｔ，Ｊ＝９．２Ｈｚ，３Ｈ），７．８０（ｄｄ，Ｊ＝１９．５，７．６Ｈｚ，２Ｈ），７．７４－７．３９（ｍ，１３Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．４８（８４．５３）、水素：４．４６（４．３８）

窒素：　６．３８（　６．２９）、硫黄：４．６８（４．８０）

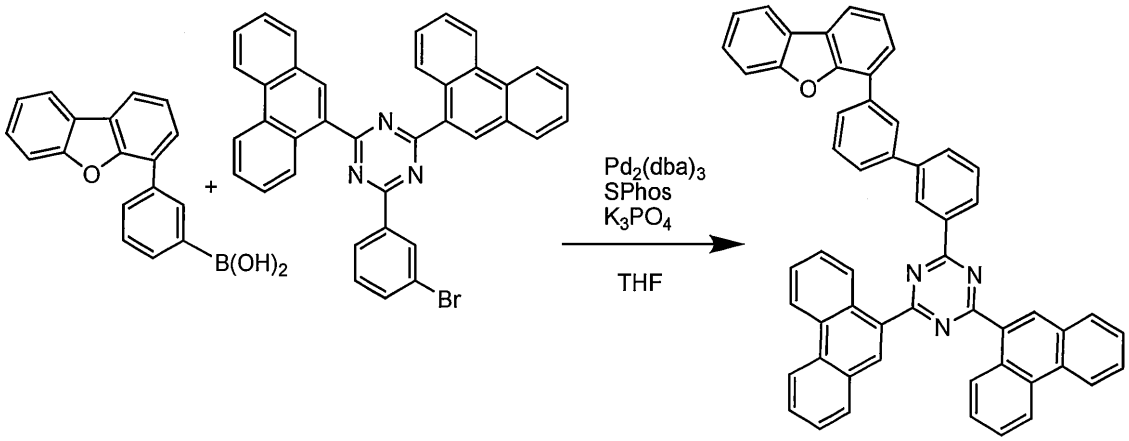
また、質量分析の結果は、ｍ／ｚ　６６７［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１１９】

実施例２３

２－｛３－〔３－（ジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＦ（４）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－３５６５の化合物〕

【化１７０】



実施例１１における出発物質を、合成例８の３－（ジベンゾフラン－４－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０１ｇ／収率６１．２％）。更に白色固体を定法により昇華精製し結晶を得た。

この結晶の元素分析の結果は以下のとおりであり、カッコ内の数字は理論値である。

炭素：８７．８１（８７．８６）、水素：４．４９（４．４２）

窒素：　５．６３（　５．５９）

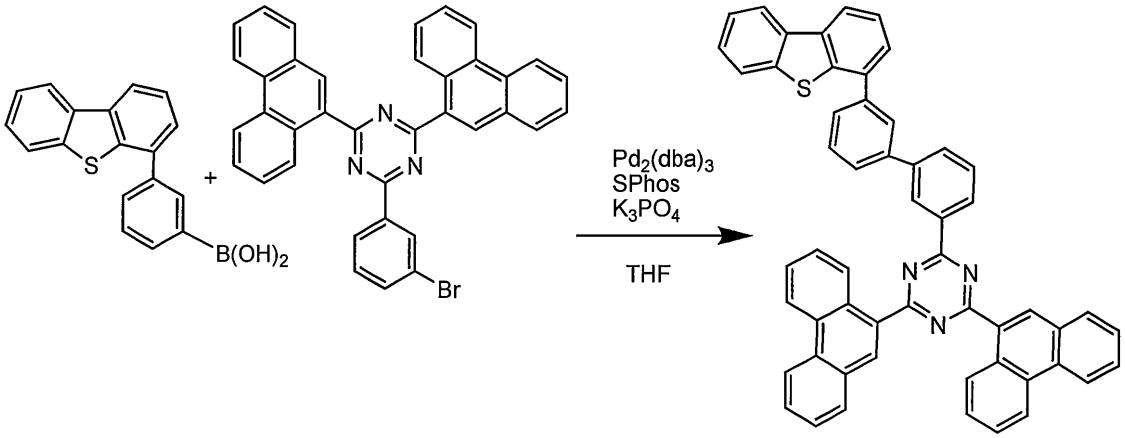
また、質量分析の結果は、ｍ／ｚ　７５１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１２０】

実施例２４

２－｛３－〔３－（ジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＴ（４）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－４１５９の化合物〕

【化１７１】



実施例１１における出発物質を、合成例９の３－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０５ｇ／収率６９．９％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８７（８４．９１）、水素：４．４９（４．５７）

窒素：　７．６３（　７．６２）

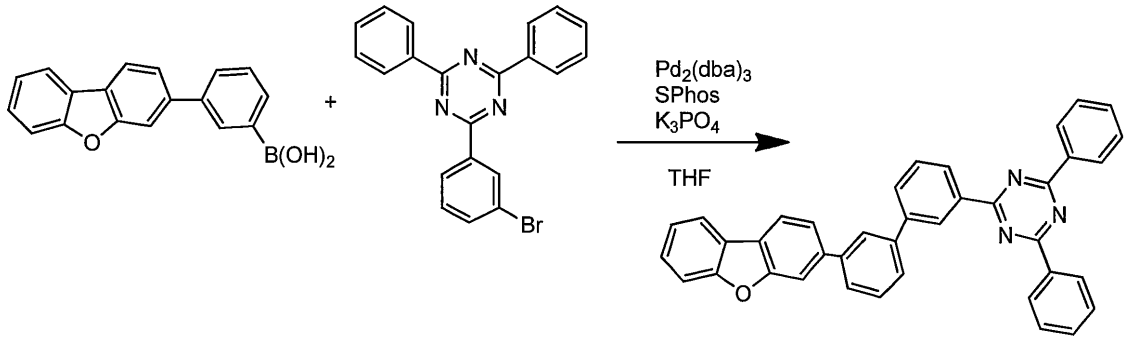
また、質量分析の結果は、ｍ／ｚ　６６７［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１２１】

実施例２５

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－７０５の化合物〕

【化１７２】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．８４ｇ／収率７６．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８７（８４．９１）、水素：４．４９（４．５７）

窒素：　７．６３（　７．６２）

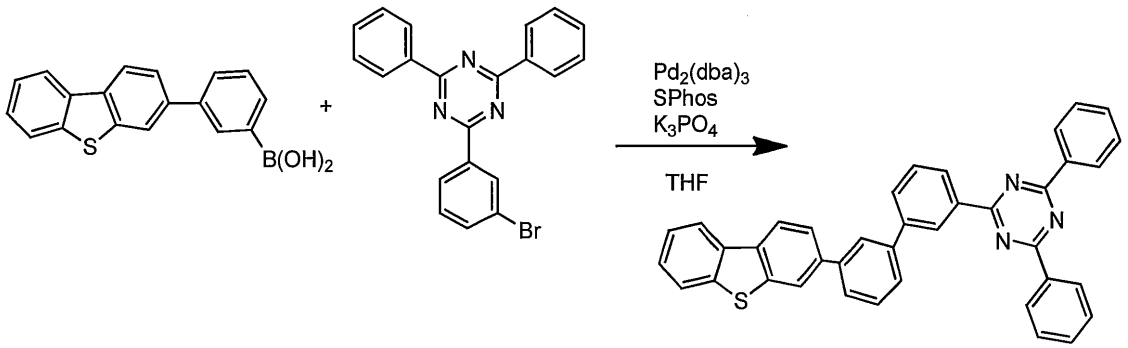
また、質量分析の結果は、ｍ／ｚ　５５１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２２】

実施例２６

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－８８１の化合物〕

【化１７３】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）

フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０７ｇ／収率８３．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．５７（８２．５１）、水素：４．４９（４．４４）

窒素：　７．４２（　７．４０）、硫黄：５．５２（５．６５）

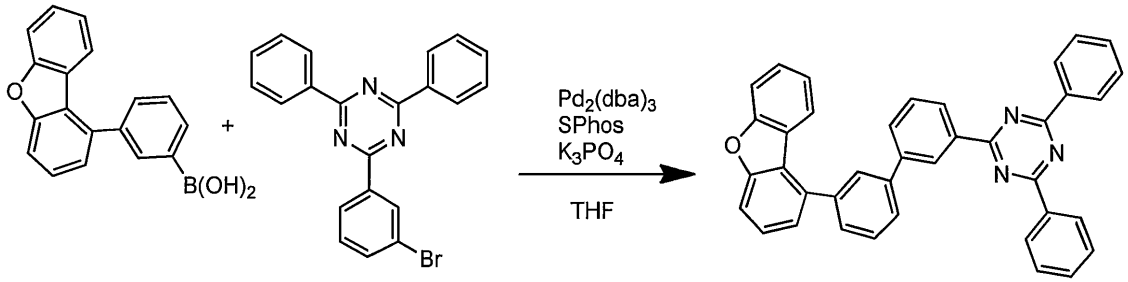
また、質量分析の結果は、ｍ／ｚ　５６７［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２３】

実施例２７

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１の化合物〕

【化１７４】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０３ｇ／収率８４．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８４（８４．９１）、水素：４．６１（４．５７）

窒素：　７．６６（　７．６２）

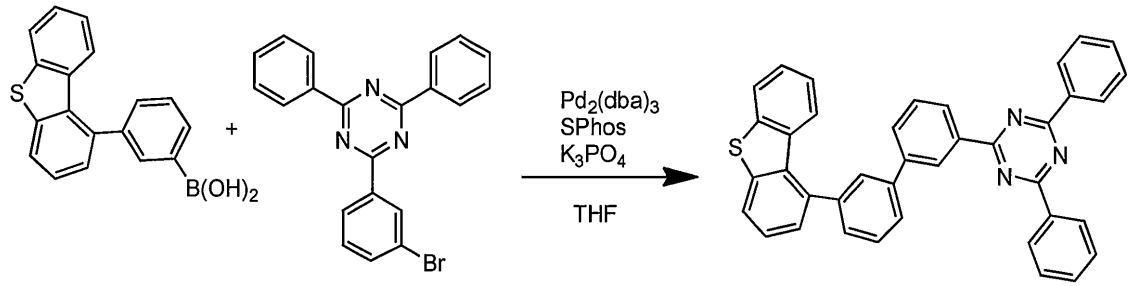
また、質量分析の結果は、ｍ／ｚ　５５１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２４】

実施例２８

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１７７の化合物〕

【化１７５】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０３ｇ／収率８１．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．５５（８２．５１）、水素：４．４１（４．４４）

窒素：　７．５３（　７．４０）、硫黄：５．４１（５．６５）

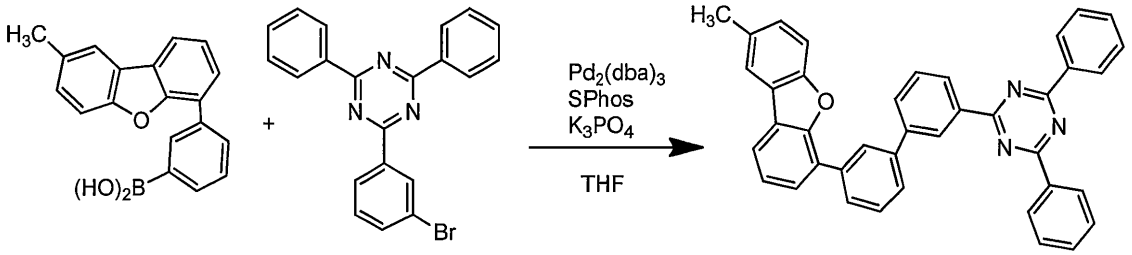
また、質量分析の結果は、ｍ／ｚ　５６７［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２５】

実施例２９

２－｛３－〔３－（７－メチルジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１０５９の化合物〕

【化１７６】



実施例１１における出発物質を、合成例１６の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．５８ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．００ｇ／収率８０．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８９（８４．９３）、水素：４．７６（４．８１）

窒素：　７．４６（　７．４３）

また、質量分析の結果は、ｍ／ｚ　５６５［Ｍ］$^{+}$であり、これらのデータから、得られた化合物が（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

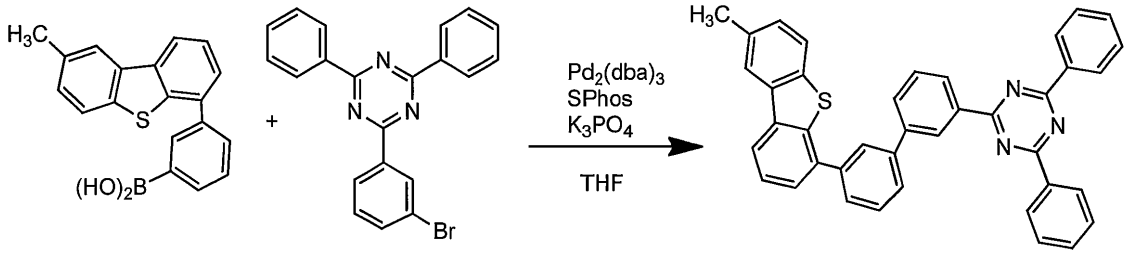
【０１２６】

実施例３０

２－｛３－〔３－（７－メチルジベンゾチオフェン－４－イル）フェニル〕フェニル｝

－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１２３５の化合物〕

【化１７７】



実施例１１における出発物質を、合成例１７の３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１３ｇ／収率８３．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．５５（８２．５９）、水素：４．６１（４．６８）

窒素：　７．２３（　７．２２）、硫黄：５．６１（５．５１）

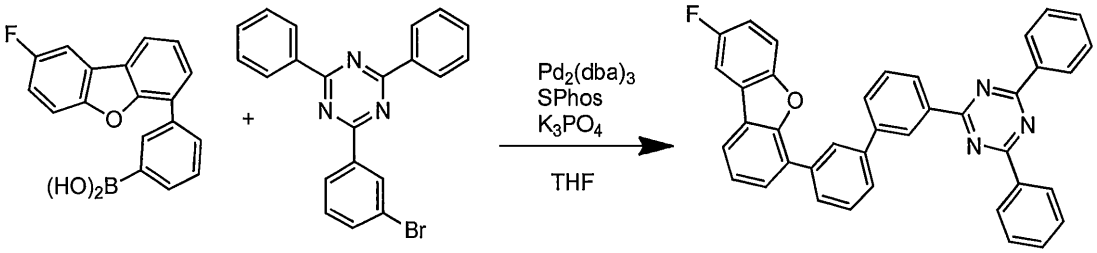
また、質量分析の結果は、ｍ／ｚ　５８１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物が（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２７】

実施例３１

２－｛３－〔３－（７－フルオロジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１２０４の化合物〕

【化１７８】



実施例１１における出発物質を、合成例１８の３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．００ｇ／収率８０．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．３１（８２．２３）、　水素：４．２６（４．２５）

窒素：　７．３３（　７．２８）、フッ素：３．３１（３．３４）

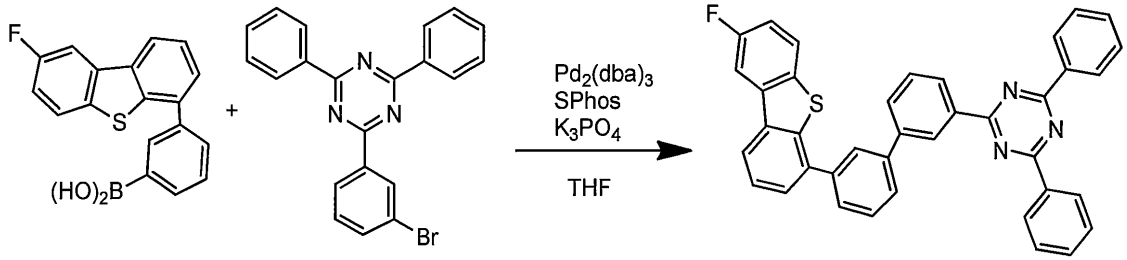
また、質量分析の結果は、ｍ／ｚ　５６９［Ｍ］$^{+}$であり、これらのデータから、得られた化合物が（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１２８】

実施例３２

２－｛３－〔３－（７－フルオロジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１３８０の化合物〕

【化１７９】



実施例１１における出発物質を、合成例１９の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸１．６９ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０４ｇ／収率７９．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素　：７９．９０（７９．９８）、水素：４．１１（４．１３）
窒素　：　７．１５（　７．１７）、硫黄：５．５４（５．４７）
フッ素：　３．３０（　３．２４）

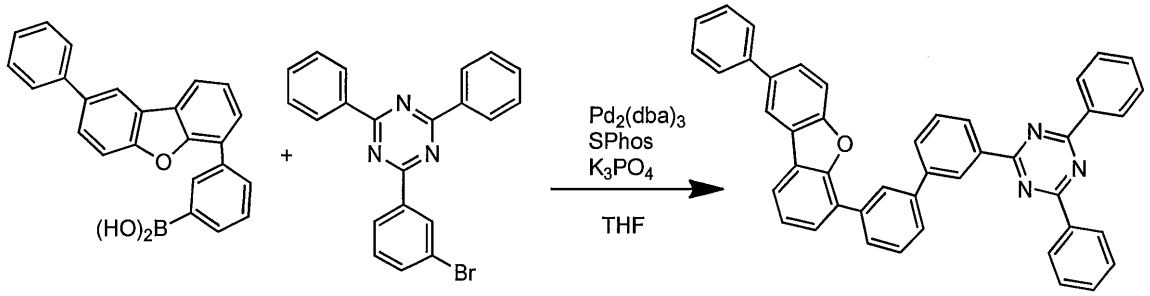
また、質量分析の結果は、ｍ／ｚ　５８６［Ｍ］$^{+}$であり、これらのデータから、得られた化合物が（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ　であることが確認された。

【０１２９】

実施例３３

２－｛３－〔３－（７－フェニルジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：表にない化合物〕

【化１８０】



実施例１１における出発物質を、合成例２０の３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸１．９１ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２５ｇ／収率８１．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．１４（８６．１０）、水素：４．６３（４．６６）

窒素：　７．６３（　７．６９）

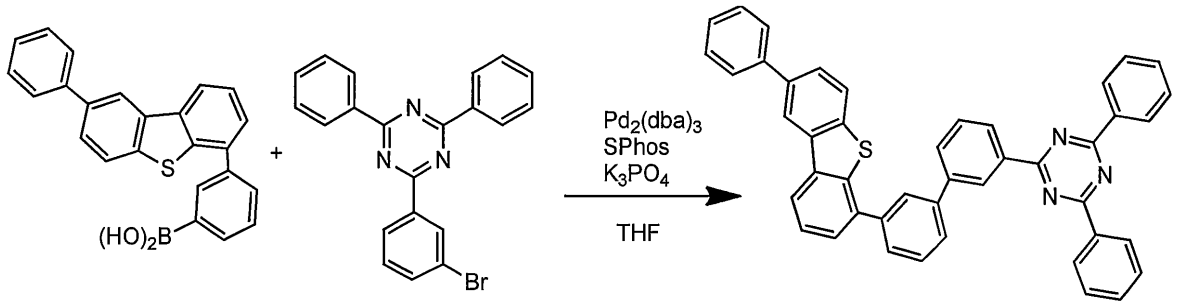
また、質量分析の結果は、ｍ／ｚ　６２７［Ｍ］$^+$であり、これらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１３０】

実施例３４

２－｛３－〔３－（７－フェニルジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺ：表にない化合物〕

【化１８１】



実施例１１における出発物質を、合成例２１の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸２．００ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．３４ｇ／収率８２．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８３．８９（８３．９５）、水素：４．５１（４．５４）

窒素：　６．５５（　６．５３）、硫黄：５．０５（４．９８）

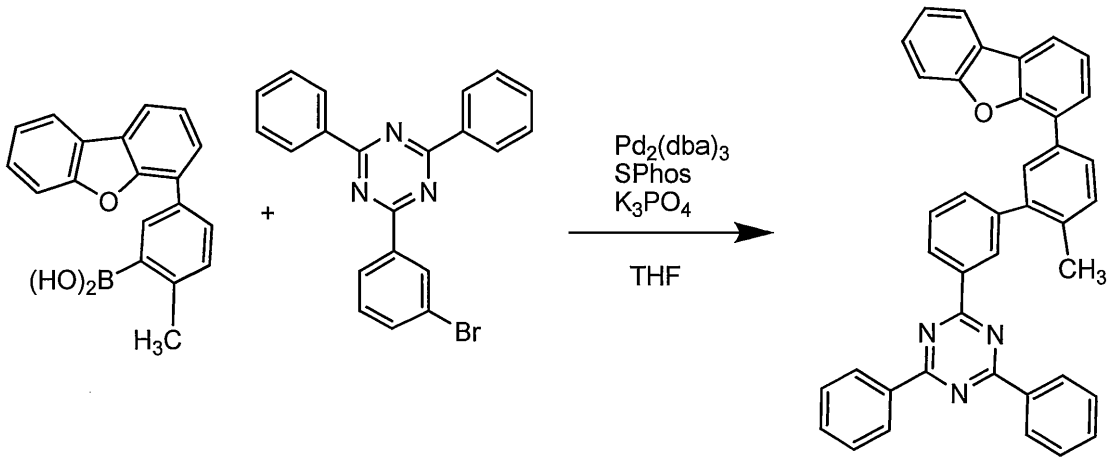
また、質量分析の結果は、ｍ／ｚ　６４３［Ｍ］$^+$であり、これらのデータから、得られた化合物が（７）ＰｈＤＢＴ（４）－Ｈ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１３１】

実施例３５

２－｛３－〔３－（ジベンゾフラン－４－イル）－６－メチルフェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（４）－Ｍｅ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１０５８の化合物〕

【化１８２】



実施例１１における出発物質を、合成例２４の２－メチル－５－（ジベンゾフラン－４－イル）フェニルボロン酸１．５９ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブ

ロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１２ｇ／収率８５．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図６４（全領域）及び図６５（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　８．８６（ｓ，１Ｈ），８．８４－８．７５（ｍ，５Ｈ），８．０６－７．８５（ｍ，４Ｈ），７．７２－７．６４（ｍ，３Ｈ），７．６４－７．５０（ｍ，８Ｈ），７．４３（ｔｄ，Ｊ＝７．３，３．２Ｈｚ，２Ｈ），７．３５（ｔ，Ｊ＝７．３Ｈｚ，１Ｈ），２．４５（ｓ，３Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８８（８４．９３）、水素：４．８３（４．８１）

窒素：　７．６３（　７．６７）

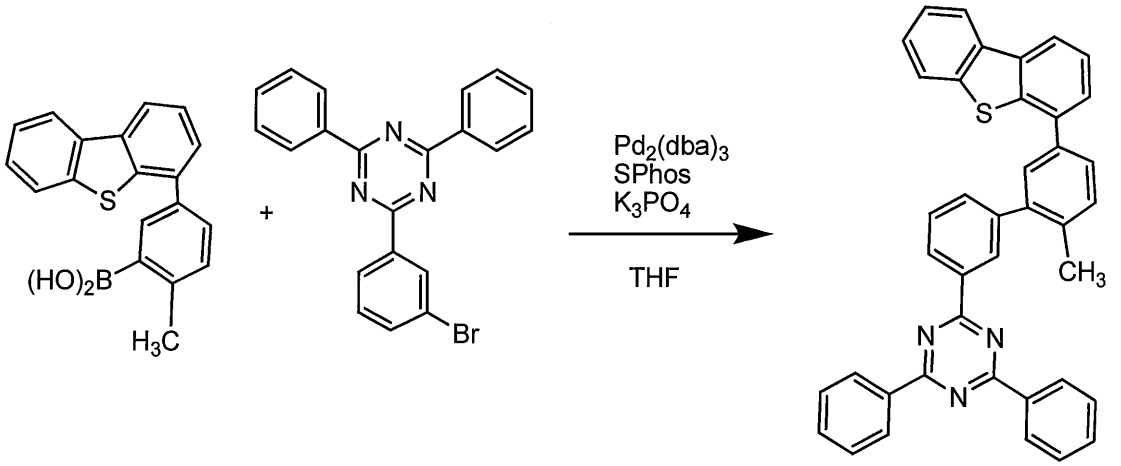
また、質量分析の結果は、ｍ／ｚ　５６５［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｍｅ－Ｈ－ＰｈＴＲＺであることが確認された。

【０１３２】

実施例３６

２－｛３－〔３－（ジベンゾチオフェン－４－イル）－６－メチルフェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（ＤＢＴ（４）－Ｍｅ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１２３４の化合物〕

【化１８３】



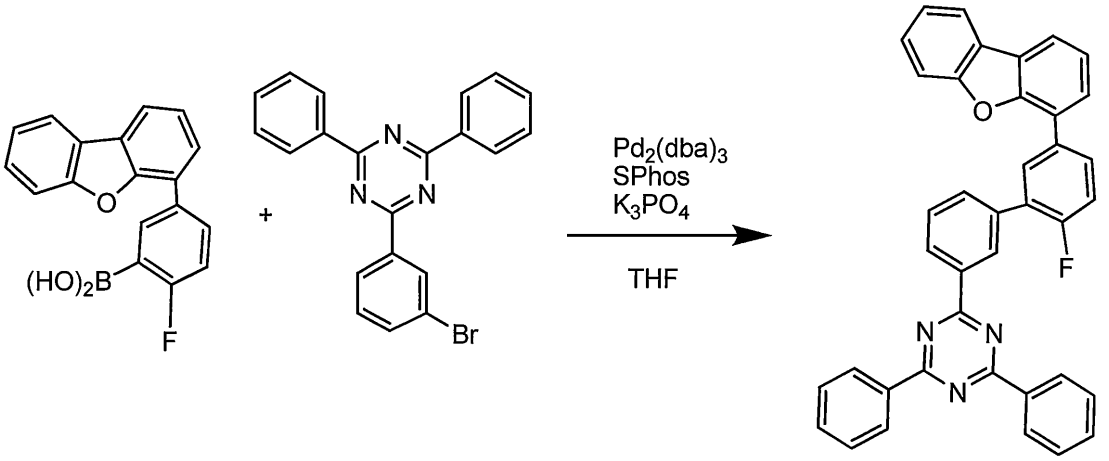
実施例１１における出発物質を、合成例２５の２－メチル－５－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６８ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０７ｇ／収率８１．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図６６（全領域）及び図６７（拡大図）に示す。^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　８．８７（ｓ，１Ｈ），８．７９（ｄｄ，Ｊ＝７．９，１．６Ｈｚ，５Ｈ），８．２３－８．１２（ｍ，２Ｈ），７．８３－７．３９（ｍ，１７Ｈ），２．４４（ｄ，Ｊ＝１５．０Ｈｚ，３Ｈ）ｐｐｍ；

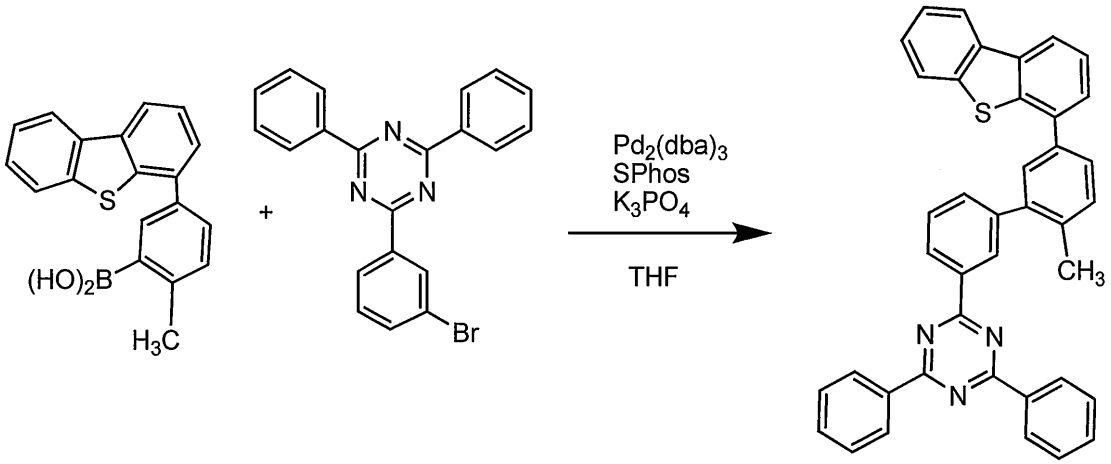
また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．７１（８２．５９）、水素：４．６１（４．６８）
窒素：　７．１７（　７．２２）、硫黄：５．５１（５．５１）
また、質量分析の結果は、ｍ／ｚ　５８１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｍｅ－Ｈ－ＰｈＴＲＺ　であることが確認された。
【０１３３】
実施例３７
２－｛３－〔３－（ジベンゾフラン－４－イル）－６－フルオロフェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（４）－Ｆ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１２０３の化合物〕
【化１８４】



実施例１１における出発物質を、合成例２６の２－フルオロ－５－（ジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．１４ｇ／収率８５．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図６８（全領域）及び図６９（拡大図）に示す。
^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。
^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．０４（ｓ，１Ｈ），８．８６－８．７６（ｍ，５Ｈ），８．１１（ｄｄ，Ｊ＝７．８，２．３Ｈｚ，１Ｈ），８．０４－７．８５（ｍ，４Ｈ），７．７５－７．５２（ｍ，９Ｈ），７．５１－７．２８（ｍ，４Ｈ）ｐｐｍ；
また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：８２．０４（８２．２３）、　水素：４．８３（４．８１）
窒素：　７．６３（　７．６７）、フッ素：３．２０（３．３４）
また、質量分析の結果は、ｍ／ｚ　５６９［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（４）－Ｆ－Ｈ－ＰｈＴＲＺであることが確認された。
【０１３４】
実施例３８
２－｛３－〔３－（ジベンゾチオフェン－４－イル）－６－フルオロフェニル〕フェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（ＤＢＴ（４）－Ｆ－Ｈ－ＰｈＴＲＺ：（Ｉ）－１３７９の化合物〕

【化１８５】



実施例１１における出発物質を、合成例２７の２－フルオロ－５－（ジベンゾチオフェン－４－イル）フェニルボロン酸１．６８ｇ（５．２７ｍｍｏｌ）と、合成例１の２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７０ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０９ｇ／収率８１．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の核磁気共鳴スペクトル（^{1}Ｈ－ＮＭＲ）を図７０（全領域）及び図７１（拡大図）に示す。

^{1}Ｈ－ＮＭＲスペクトルの帰属は以下のとおりである。

^{1}Ｈ－ＮＭＲ（４００ＭＨｚ，ＣＤＣｌ$_{3}$）：δ　９．０６（ｄ，Ｊ＝１．４Ｈｚ，１Ｈ），８．８６－８．７４（ｍ，６Ｈ），８．２０（ｔｄ，Ｊ＝６．９，１．４Ｈｚ，２Ｈ），８．０１（ｄｄ，Ｊ＝７．６，２．５Ｈｚ，１Ｈ），７．９１（ｄｄ，Ｊ＝７．６，１．１Ｈｚ，１Ｈ），７．８２－７．６７（ｍ，３Ｈ），７．６６－７．３６（ｍ，１３Ｈ）ｐｐｍ；

また、元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素　：８０．０３（７９．９８）、水素：４．０５（４．１３）

窒素　：　７．１６（　７．１７）、硫黄：５．５１（５．４７）

フッ素：　３．２５（　３．２４）

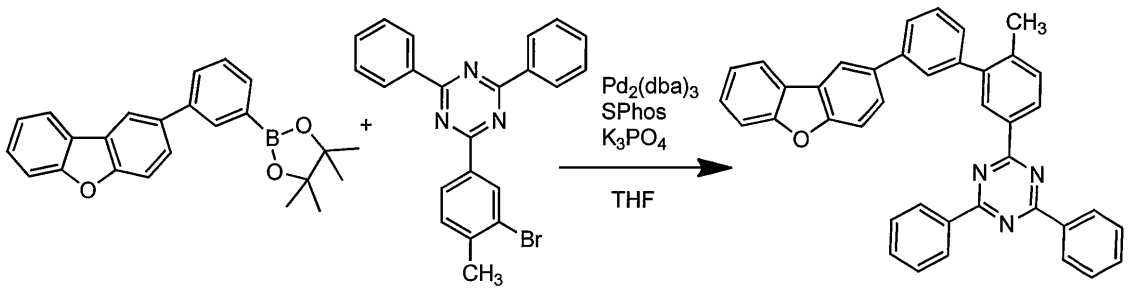
また、質量分析の結果は、ｍ／ｚ　５８５［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（４）－Ｆ－Ｈ－ＰｈＴＲＺ　であることが確認された。

【０１３５】

実施例３９

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－７５３の化合物〕

【化１８６】



合成例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ

－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０９ｇ／収率８４．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８５．０２（８４．９３）、水素：４．８４（４．８１）

窒素：　７．４１（　７．４３）

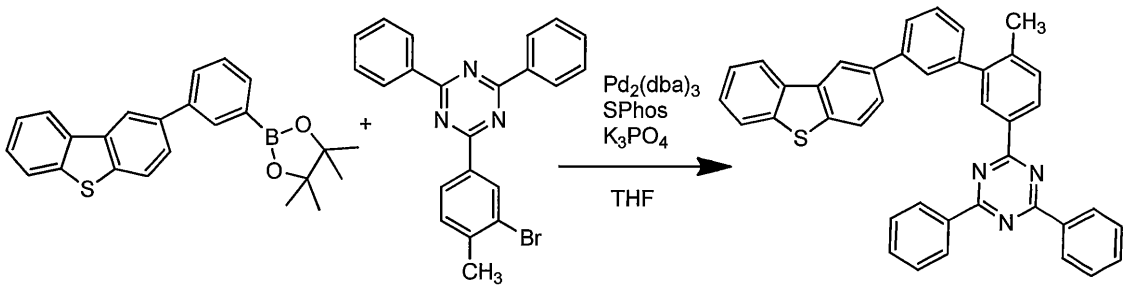
また、質量分析の結果は、ｍ／ｚ　５６５［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１３６】

実施例４０

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－５３３の化合物〕

【化１８７】



合成例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６５ｇ／収率６４．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．６７（８２．５９）、水素：４．７６（４．６８）

窒素：　７．３０（　７．２２）、硫黄：５．２７（５．５１）

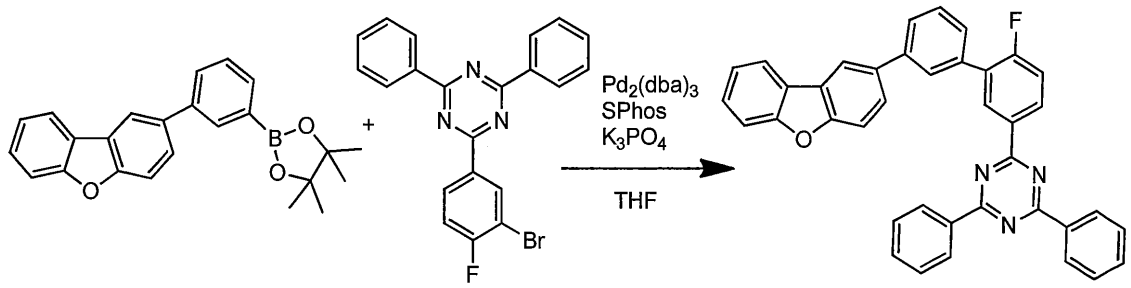
また、質量分析の結果は、ｍ／ｚ　５８１［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１３７】

実施例４１

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－５０２の化合物〕

【化１８８】



実施例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１２ｇ／収率８２．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．１９（８２．２３）、　水素：４．２４（４．２５）

窒素：　７．４０（　７．３８）、フッ素：３．４１（３．３４）

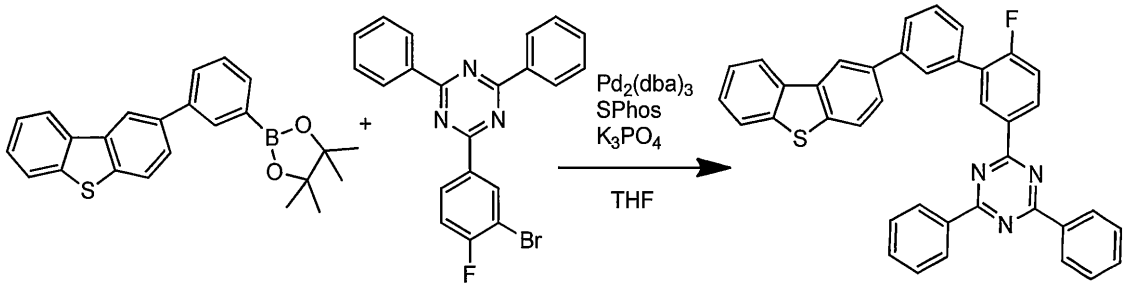
また、質量分析の結果は、ｍ／ｚ　５６９［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１３８】

実施例４２

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－６７８の化合物〕

【化１８９】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０６ｇ／収率８２．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

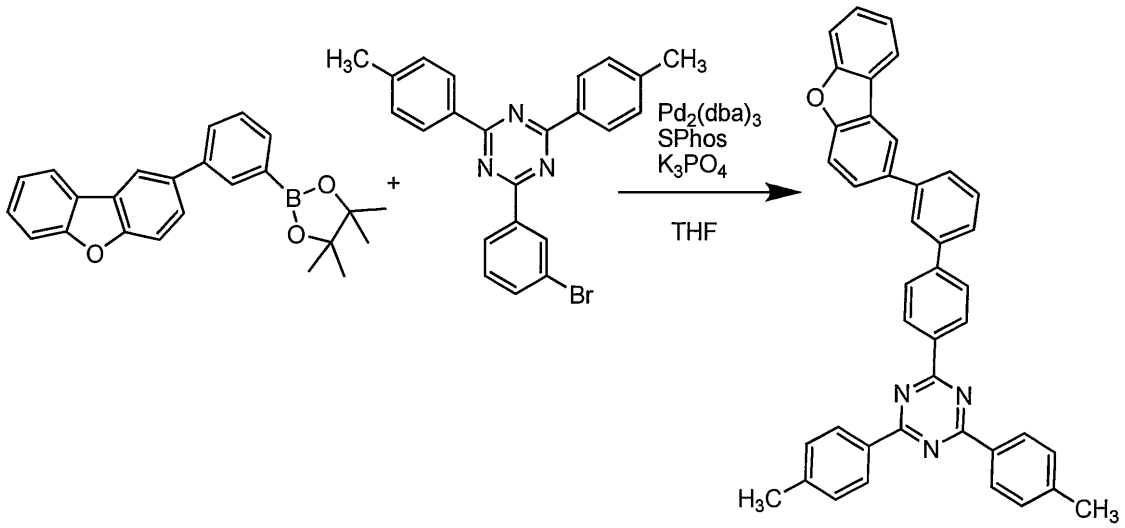
炭素　：７９．９２（７９．９８）、水素：４．１０（４．１３）

窒素　：　７．１４（　７．１７）、硫黄：５．４１（５．４７）

フッ素：　３．４３（　３．２４）

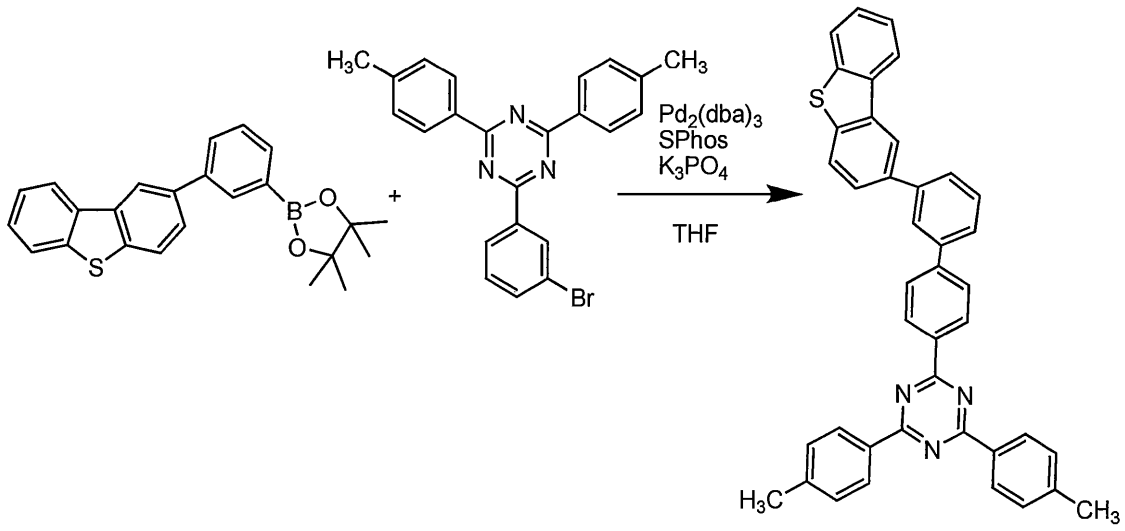
また、質量分析の結果は、ｍ／ｚ　５８５［Ｍ］$^{+}$であり、これらのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１３９】
実施例４３
２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－３６０の化合物〕の合成
【化１９０】



実施例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．７４ｇ／収率６８．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：８４．８２（８４．９５）、水素：４．９４（５．０４）
窒素：　７．２１（　７．２５）
質量分析の結果は、ｍ／ｚ　５８０［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。
【０１４０】
実施例４４
２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－５３６の化合物〕の合成

【化１９１】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０４ｇ／収率７８．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．７８（８２．６６）、水素：４．９４（４．９１）

窒素：　７．１１（　７．０５）、硫黄：５．１７（５．３８）

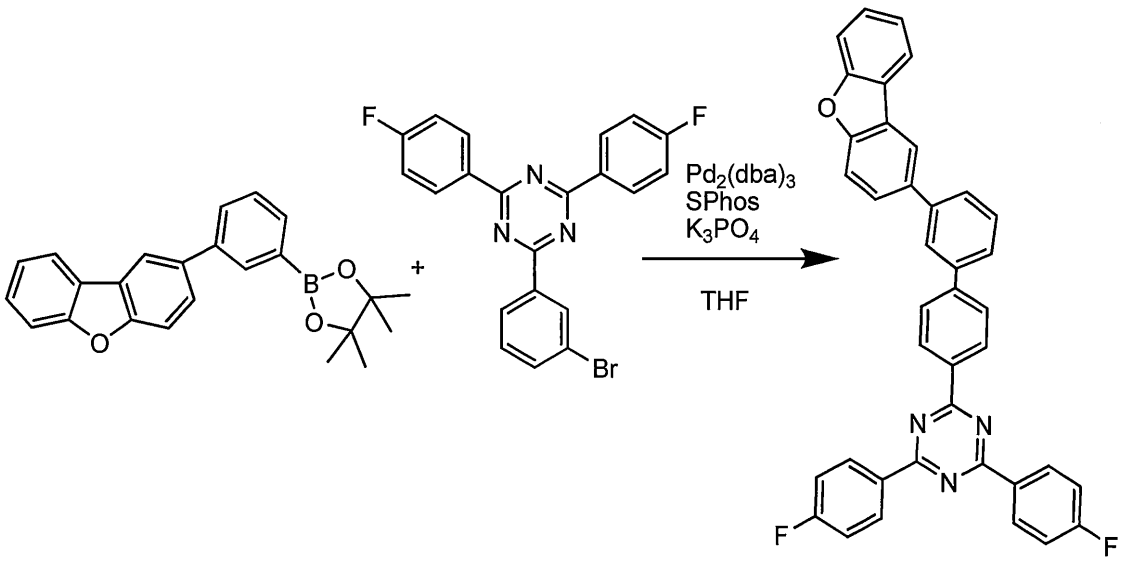
質量分析の結果は、ｍ／ｚ　５９５［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１４１】

実施例４５

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－５０５の化合物〕の合成

【化１９２】



実施例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェ

ニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．７０ｇ／収率６６．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．６８（７９．７１）、　水素：３．８２（３．９５）

窒素：　７．０４（　７．１５）、フッ素：７．２２（７．１５）

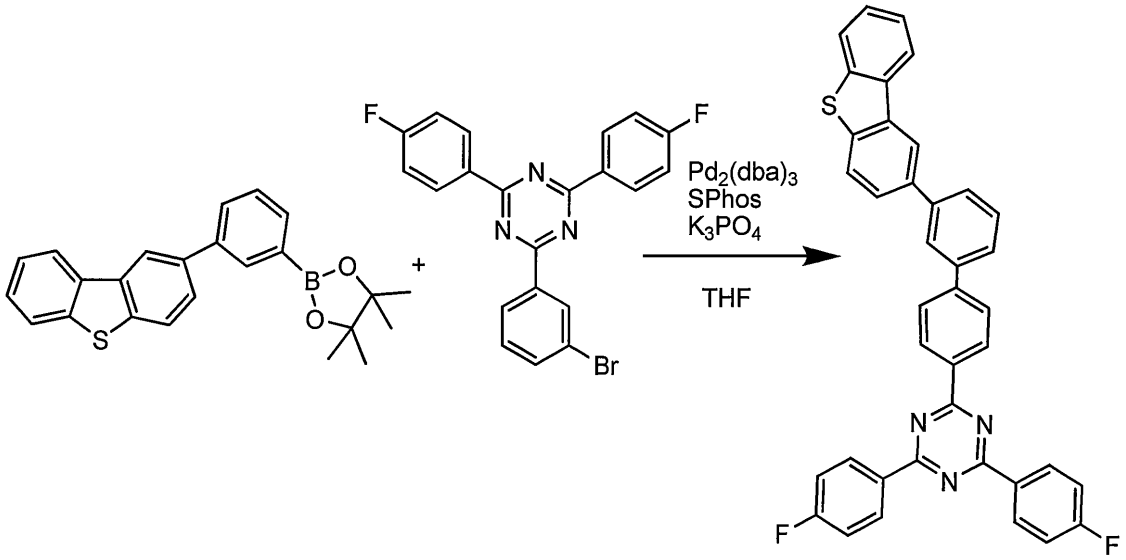
質量分析の結果は、ｍ／ｚ　５８８［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１４２】

実施例４６

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－６８１の化合物〕の合成

【化１９３】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１１ｇ／収率７９．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．５２（７７．５９）、水素：３．７６（３．８４）

窒素：　６．８８（　６．９６）、硫黄：５．２７（５．３１）

フッ素：　６．５７（　６．２９）

質量分析の結果は、ｍ／ｚ　６０４［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

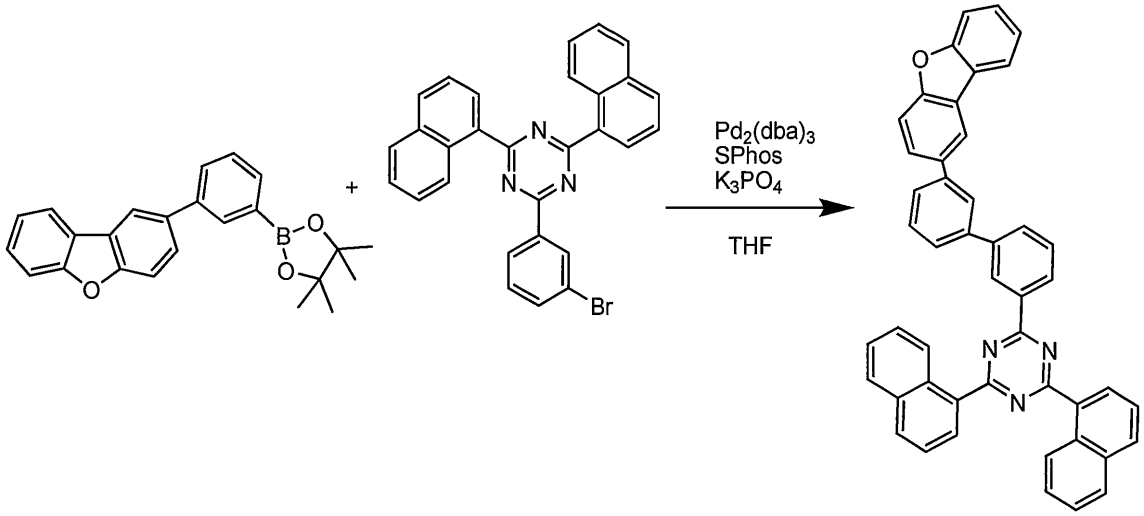
【０１４３】

実施例４７

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕フェニル｝－４，６－ジ（

１－ナフチル）－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－２４５の化合物〕の合成

【化１９４】



実施例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２４ｇ／収率７８．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．５９（８６．６１）、水素：４．５２（４．４８）

窒素：　６．４１（　６．４５）

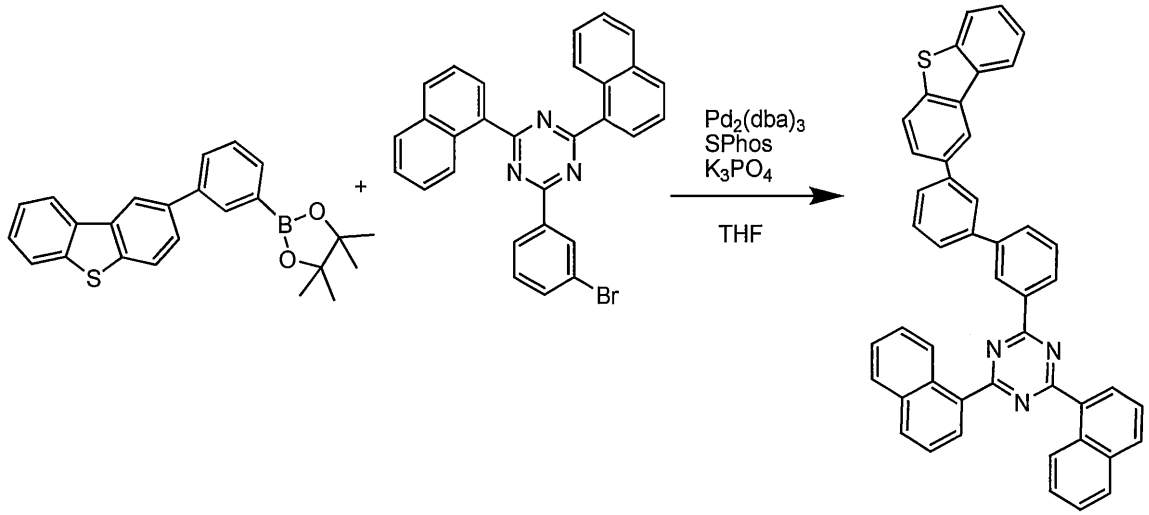
質量分析の結果は、ｍ／ｚ　６５１［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１４４】

実施例４８

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－３６７の化合物〕の合成

【化１９５】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６７ｇ／収率５６．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．４８（８４．５３）、水素：４．４６（４．３８）

窒素：　６．３３（　６．２９）、硫黄：４．７３（４．８０）

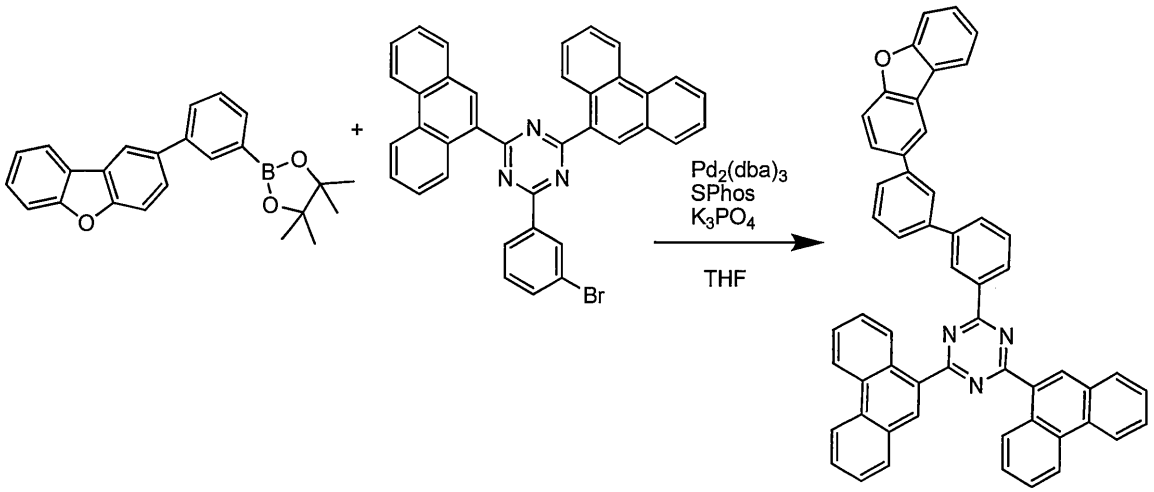
質量分析の結果は、ｍ／ｚ　６６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１４５】

実施例４９

２－｛３－〔３－（ジベンゾフラン－２－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＦ（２）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－１１８９の化合物〕の合成

【化１９６】



実施例１１における出発物質を、合成例１０の３－（ジベンゾフラン－２－イル）フェニルボロン酸エステル１．９５ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０２ｇ／収率６１．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８７．７７（８７．８６）、水素：４．３５（４．４２）

窒素：　５．５２（　５．５９）

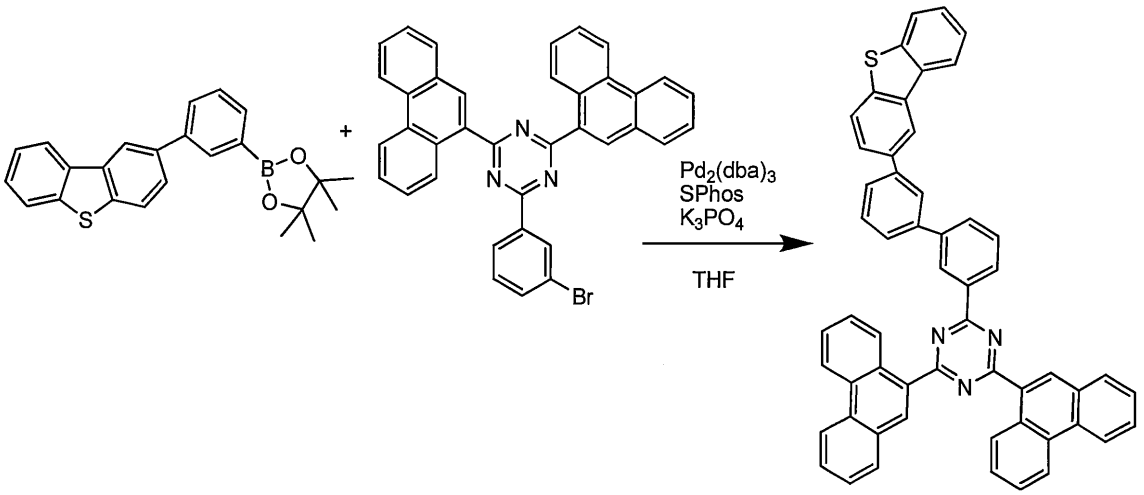
質量分析の結果は、ｍ／ｚ　７５２［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（２）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１４６】

実施例５０

２－｛３－〔３－（ジベンゾチオフェン－２－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＴ（２）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－１７８３の化合物〕の合成

【化１９７】



実施例１１における出発物質を、合成例１１の３－（ジベンゾチオフェン－２－イル）フェニルボロン酸エステル２．０３ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量１．９２ｇ／収率５６．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

）により精製した。得られた白色固体をヘキサンで洗浄した後、減圧乾燥して白色固体を得た（収量１．９２ｇ／収率５６．８％）。その後、得られた白色固体を定法により昇華精製した。昇華精製により得られた結晶の元素分析の結果は以下のとおりであり、カッコ内の数字は理論値である。

炭素：８６．１１（８６．０２）、水素：４．２５（４．３３）

窒素：　５．５５（　５．４７）、硫黄：４．０９（４．１８）

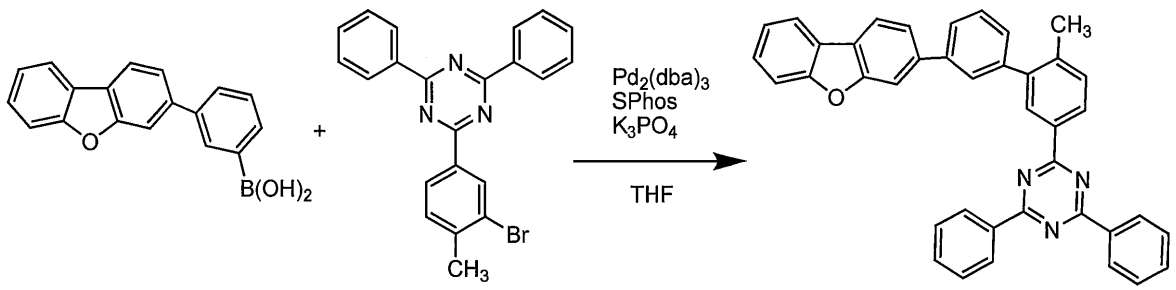
質量分析の結果は、ｍ／ｚ　７６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（２）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１４７】

実施例５１

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－７０９の化合物〕の合成

【化１９８】



合成例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合

物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０８ｇ／収率８３．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８５．１１（８４．９３）、水素：４．７９（４．８１）

窒素：　７．５４（　７．４３）

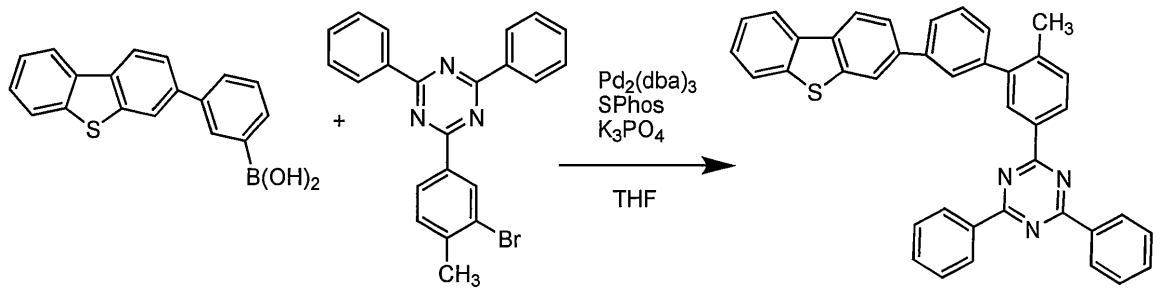
質量分析の結果は、ｍ／ｚ　５６５［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１４８】

実施例５２

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－８８５の化合物〕の合成

【化１９９】



合成例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．６５ｇ／収率６４．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．４１（８２．５９）、水素：４．５５（４．６８）

窒素：　７．３４（　７．２２）、硫黄：５．７０（５．５１）

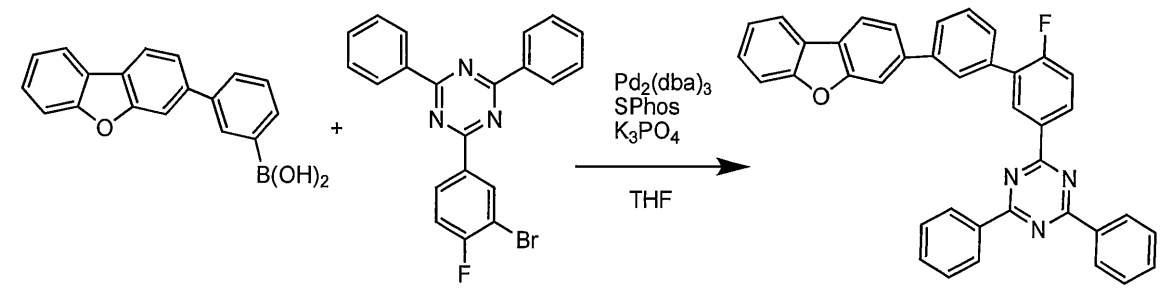
質量分析の結果は、ｍ／ｚ　５８０［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１４９】

実施例５３

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－８５４の化合物〕の合成

【化２００】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェ

ニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９８ｇ／収率７９．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．１４（８２．２３）、　水素：４．３４（４．２５）

窒素：　７．３３（　７．３８）、フッ素：３．３９（３．３４）

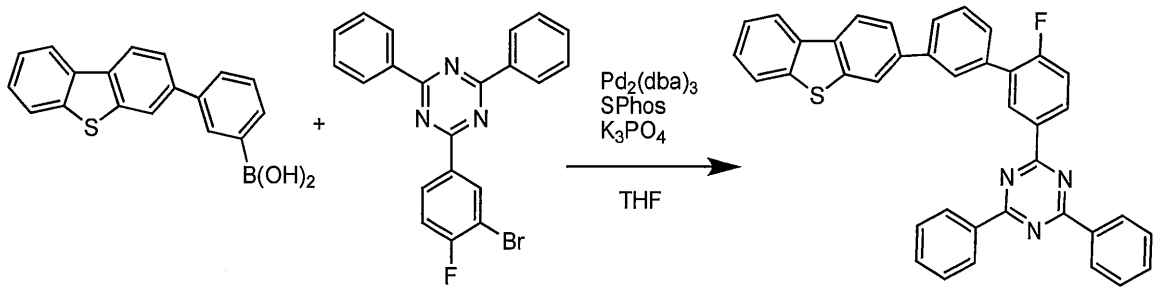
質量分析の結果は、ｍ／ｚ　５７０［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１５０】

実施例５４

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－１０３０の化合物〕の合成

【化２０１】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０９ｇ／収率８１．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．７８（７９．９８）、水素：４．０６（４．１３）

窒素：　７．２２（　７．１７）、硫黄：５．４９（５．４７）

フッ素：　３．４５（　３．２４）

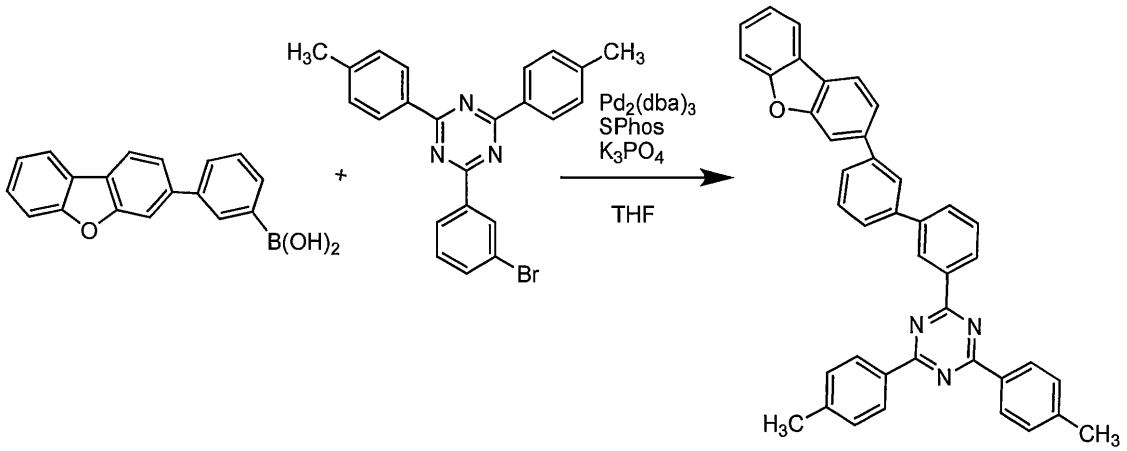
質量分析の結果は、ｍ／ｚ　５８６［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１５１】

実施例５５

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－７１２の化合物〕の合成

【化２０２】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．８６ｇ／収率７３．０％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８０（８４．９５）、水素：５．１１（５．０４）

窒素：　７．２７（　７．２５）

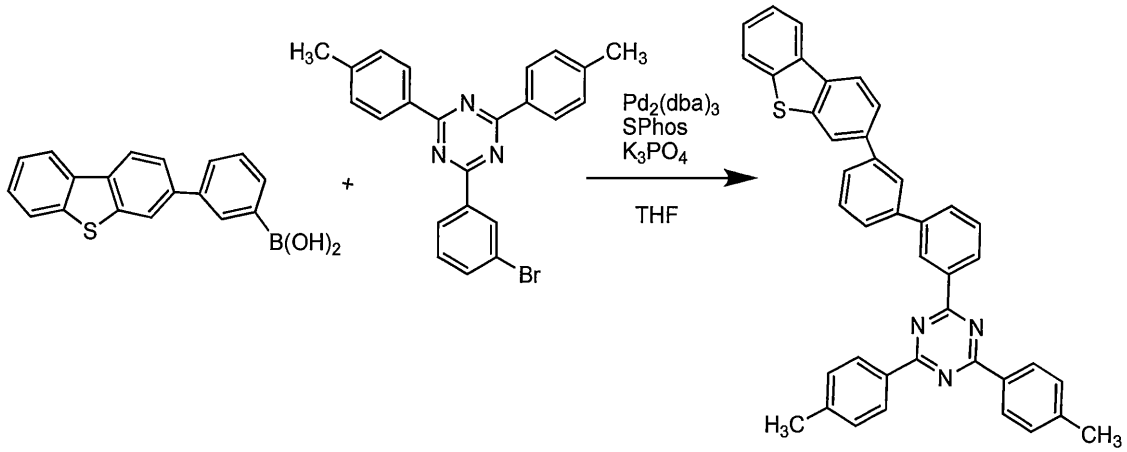
質量分析の結果は、ｍ／ｚ　５７９［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１５２】

実施例５６

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－８８８の化合物〕の合成

【化２０３】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１７ｇ／収率８３．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．７８（８２．６６）、水素：５．０２（４．９１）

窒素：　７．１６（　７．０５）、硫黄：５．０４（５．３８）

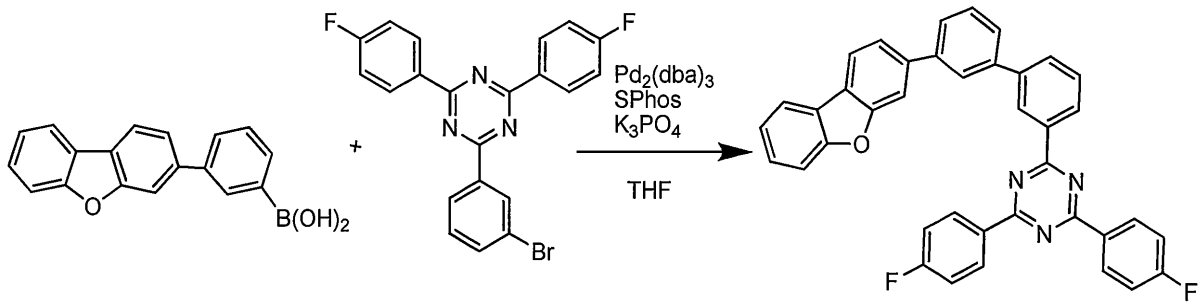
質量分析の結果は、ｍ／ｚ　５９５［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１５３】

実施例５７

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－８５７の化合物〕の合成

【化２０４】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９５ｇ／収率７５．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．６３（７９．７１）、　水素：４．０１（３．９５）

窒素：　７．１４（　７．１５）、フッ素：６．４０（６．４７）

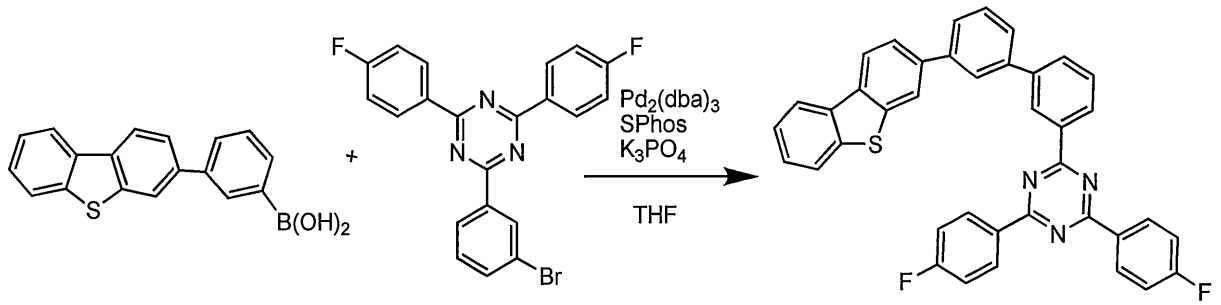
質量分析の結果は、ｍ／ｚ　５８８［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１５４】

実施例５８

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１０３３の化合物〕の合成

【化２０５】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェ

ニル）－４，６－ジ（p－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（p－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１３ｇ／収率８０．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．６３（７７．５９）、水素：３．９２（３．８４）
窒素：　６．０４（　６．２９）、硫黄：５．２６（５．３１）
フッ素：　７．１５（　６．９６）

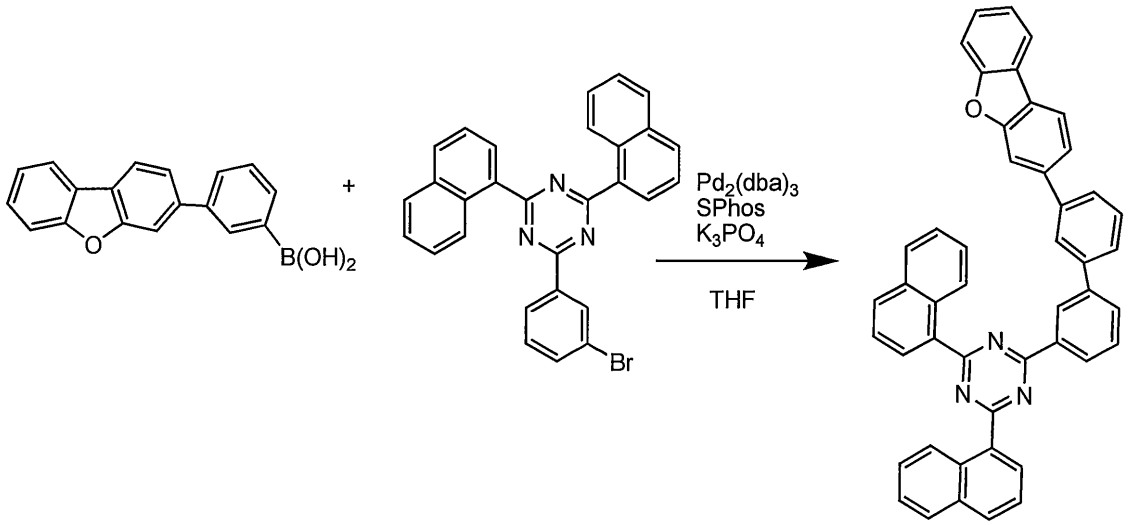
質量分析の結果は、ｍ／ｚ　６０４［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１５５】

実施例５９

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－４８９の化合物〕の合成

【化２０６】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．３０ｇ／収率８０．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．７２（８６．６１）、水素：４．４４（４．４８）
窒素：　６．２９（　６．４５）

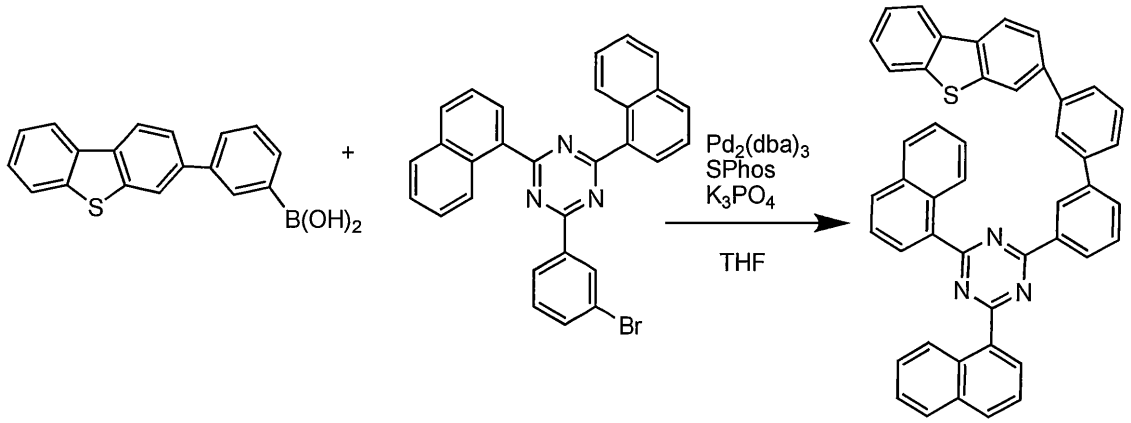
質量分析の結果は、ｍ／ｚ　６５１［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１５６】

実施例６０

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－６１１の化合物〕の合成

【化２０７】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．７３ｇ／収率５９．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．６１（８４．５３）、水素：４．４０（４．３８）

窒素：　６．３７（　６．２９）、硫黄：４．６２（４．８０）

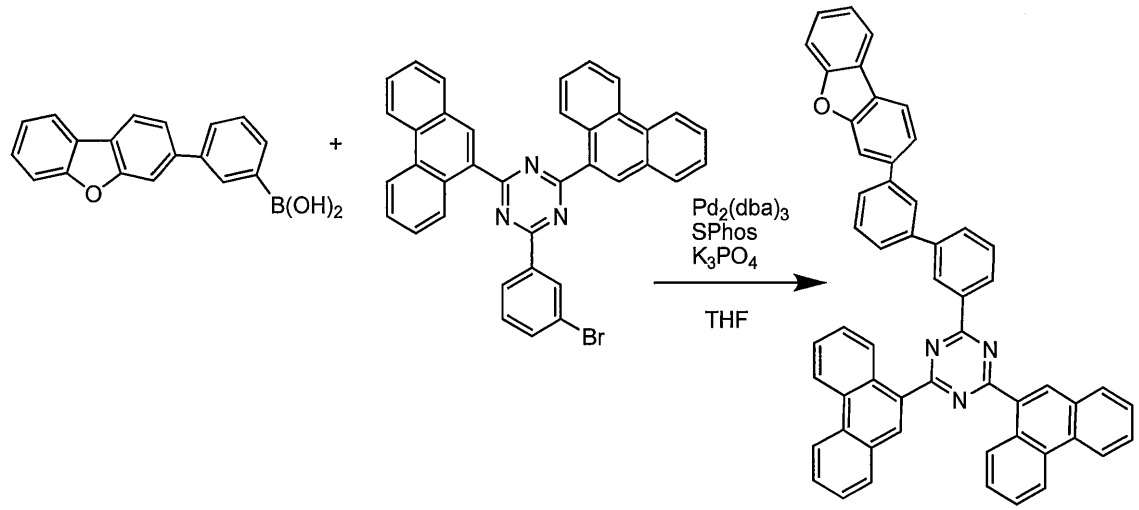
質量分析の結果は、ｍ／ｚ　６６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１５７】

実施例６１

２－｛３－〔３－（ジベンゾフラン－３－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＦ（３）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－２３７７の化合物〕の合成

【化２０８】



実施例１１における出発物質を、合成例１２の３－（ジベンゾフラン－３－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）

－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．００ｇ／収率６０．７％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８７．８９（８７．８６）、水素：４．３１（４．４２）

窒素：　５．６３（　５．５９）

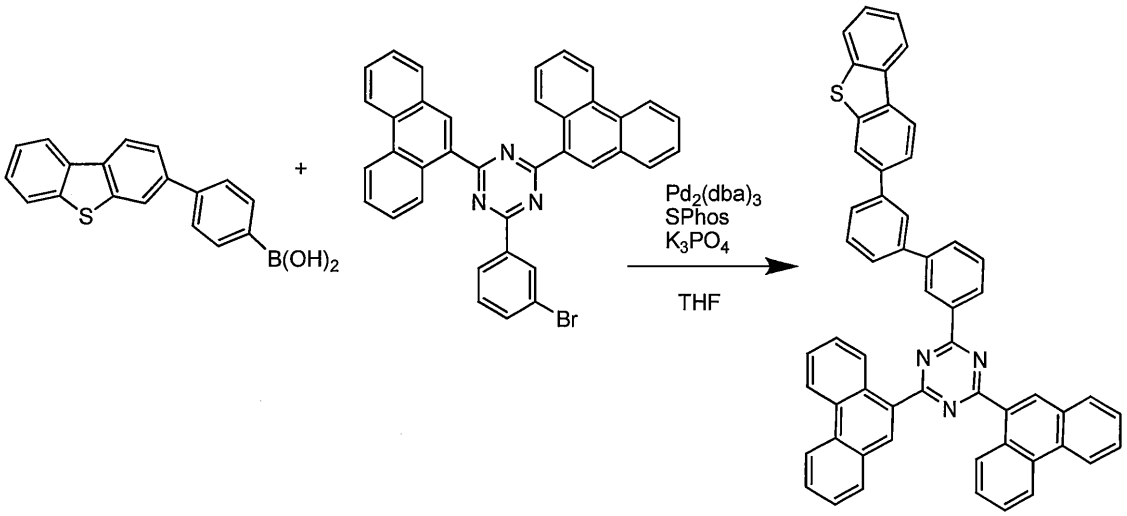
質量分析の結果は、ｍ／ｚ　７５２［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（３）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１５８】

実施例６２

２－｛３－〔３－（ジベンゾチオフェン－３－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＴ（３）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－２９７１の化合物〕の合成

【化２０９】



実施例１１における出発物質を、合成例１３の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０８ｇ／収率６１．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．０７（８６．０２）、水素：４．３９（４．３３）

窒素：　５．４９（　５．４７）、硫黄：４．０５（４．１８）

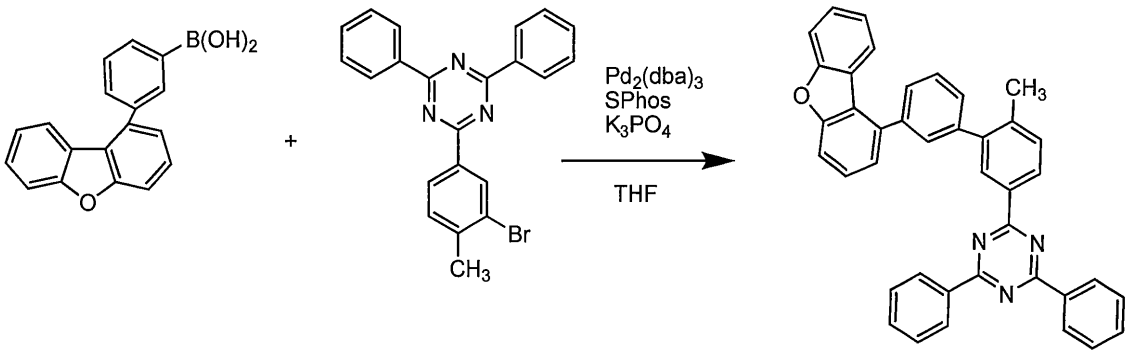
質量分析の結果は、ｍ／ｚ　７６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（３）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１５９】

実施例６３

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－５の化合物〕の合成

【化２１０】



合成例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９８ｇ／収率８０．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８２（８４．９３）、水素：４．７９（４．８９）

窒素：　７．５４（　７．６２）

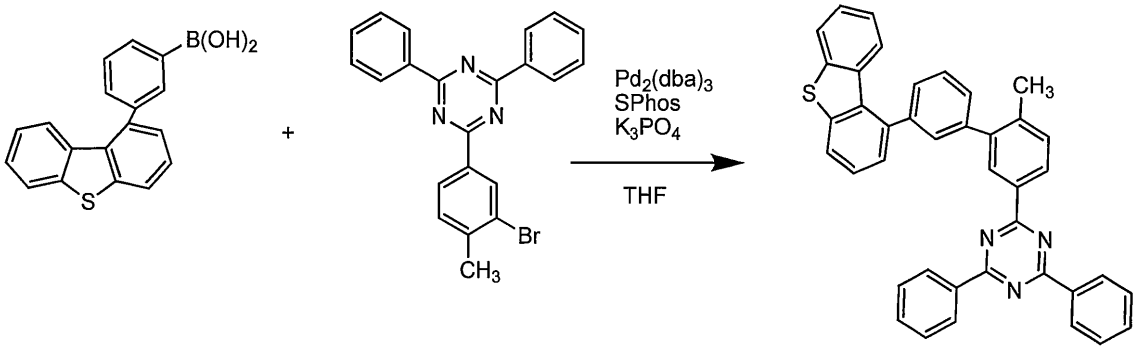
質量分析の結果は、ｍ／ｚ　５６５［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１６０】

実施例６４

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－１８１の化合物〕の合成

【化２１１】



合成例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－３－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９９ｇ／収率７８．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．６８（８２．５９）、水素：４．５１（４．６８）

窒素：　７．３０（　７．２２）、硫黄：５．５１（５．５１）

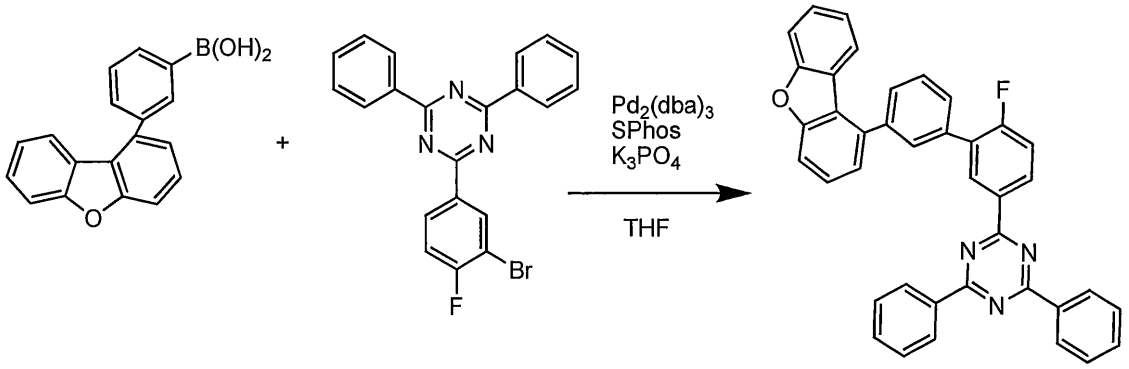
質量分析の結果は、ｍ／ｚ　５８０［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１６１】

実施例６５

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－１５０の化合物〕の合成

【化２１２】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９４ｇ／収率７７．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．３３（８２．２３）、　水素：４．１０（４．２５）

窒素：　７．３３（　７．３８）、フッ素：３．２９（３．３４）

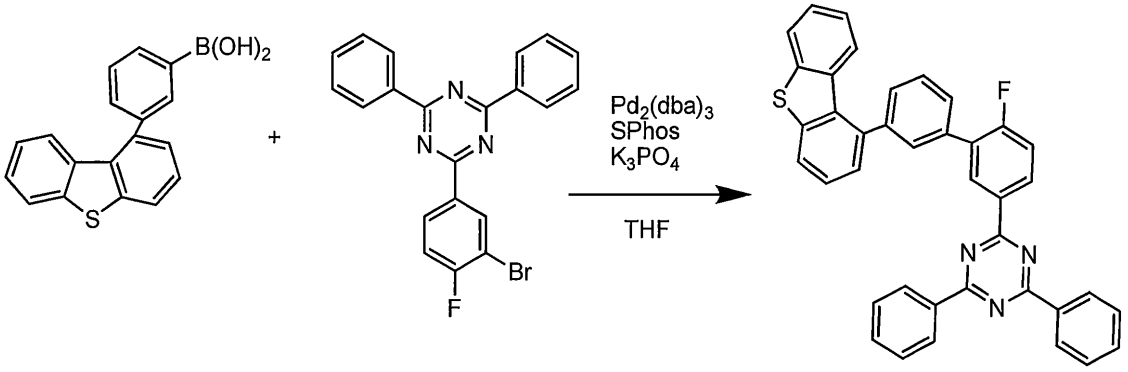
質量分析の結果は、ｍ／ｚ　５７０［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１６２】

実施例６６

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－３２６の化合物〕の合成

【化２１３】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－１－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４

－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０２ｇ／収率７８．９％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．８３（７９．９８）、水素：４．１７（４．１３）
窒素：　７．３０（　７．１７）、硫黄：５．４０（５．４７）
フッ素：　３．３０（　３．２４）

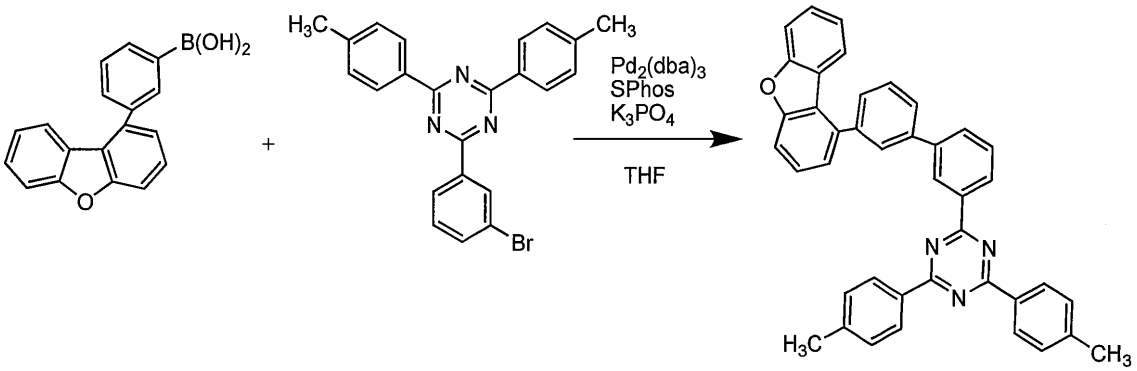
質量分析の結果は、ｍ／ｚ　５８６［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１６３】

実施例６７

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－８の化合物〕の合成

【化２１４】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９９ｇ／収率７８．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８５．０４（８４．９５）、水素：４．９９（５．０４）
窒素：　７．３４（　７．２５）

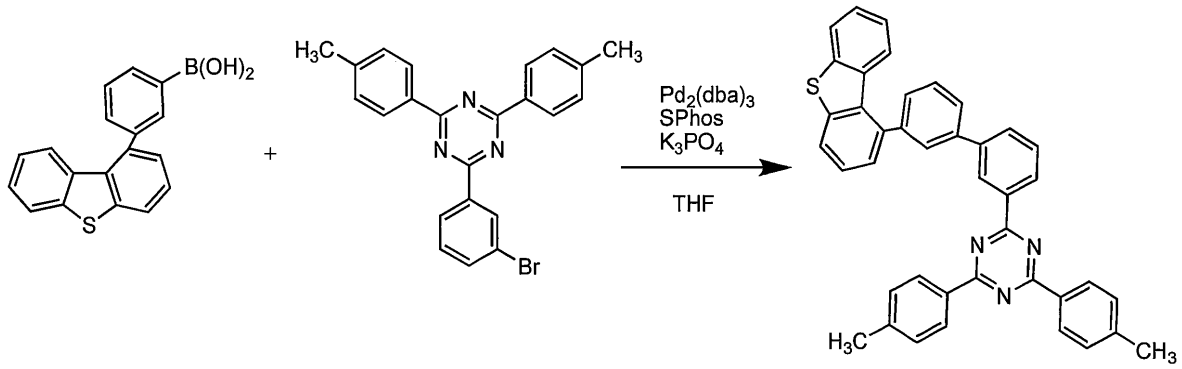
質量分析の結果は、ｍ／ｚ　５７９［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１６４】

実施例６８

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－１８１の化合物〕の合成

【化２１５】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－１－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１７ｇ／収率８３．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．７８（８２．６６）、水素：５．０２（４．９１）

窒素：　７．１６（　７．０５）、硫黄：５．０４（５．３８）

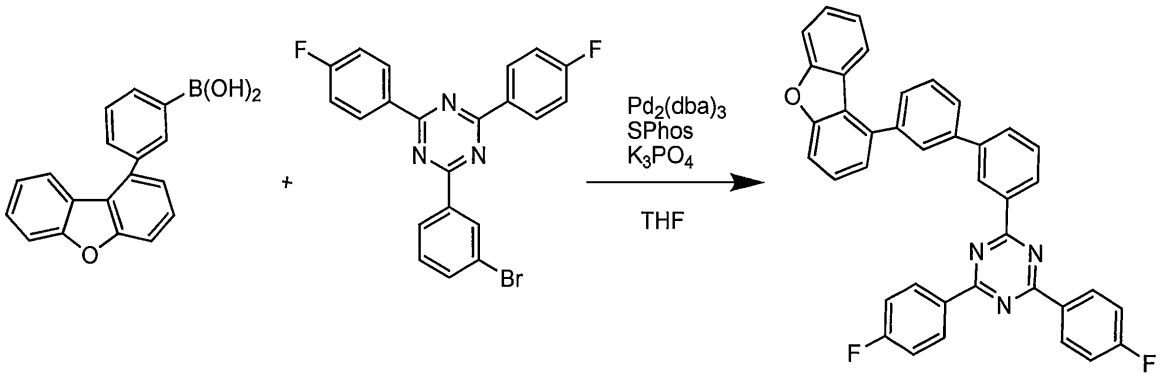
質量分析の結果は、ｍ／ｚ　５９６［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１６５】

実施例６９

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１５３の化合物〕の合成

【化２１６】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９９ｇ／収率７７．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．８３（７９．７１）、　水素：４．０９（３．９５）

窒素：　７．２２（　７．１５）、フッ素：６．４４（６．４７）

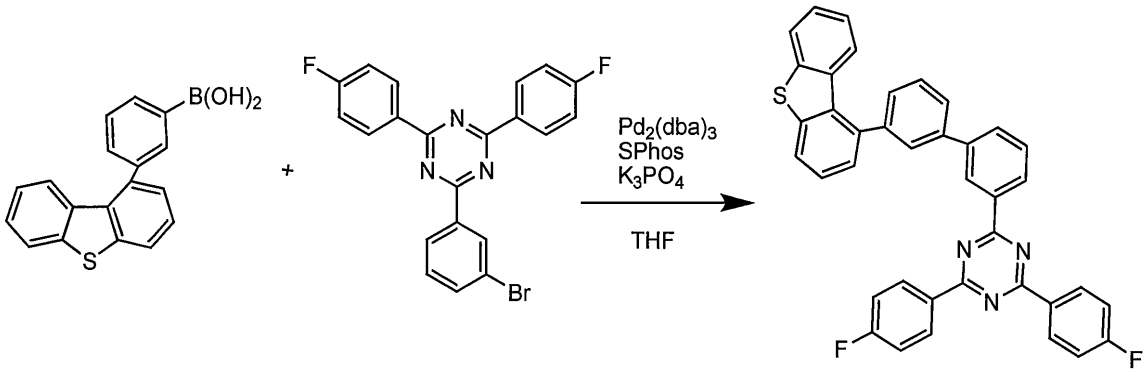
質量分析の結果は、ｍ／ｚ　５８８［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１６６】

実施例７０

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－３２９の化合物〕の合成

【化２１７】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－１－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０７ｇ／収率７８．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．６３（７７．５９）、水素：３．９２（３．８４）

窒素：　６．８４（　６．９６）、硫黄：５．２７（５．３１）

フッ素：　６．３４（　６．２９）

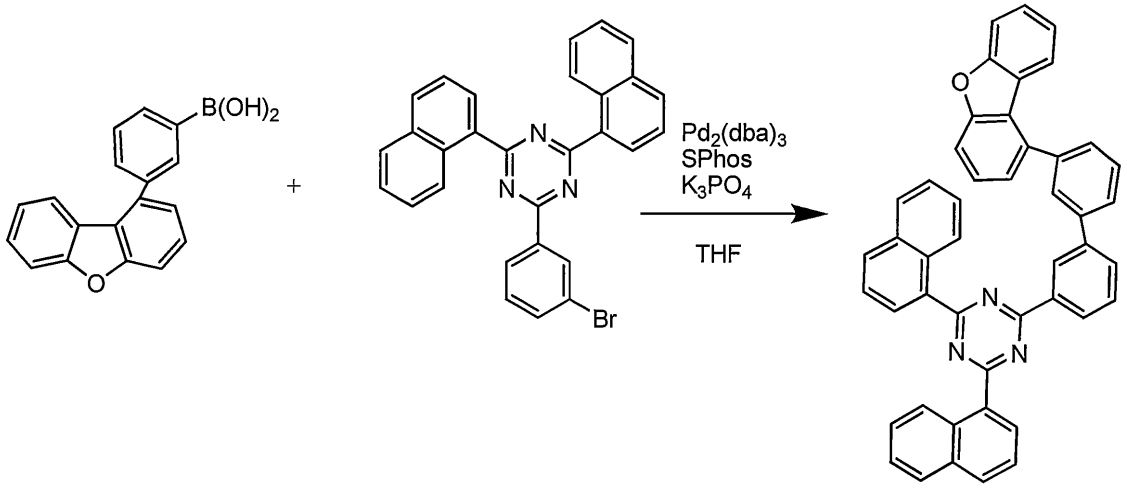
質量分析の結果は、ｍ／ｚ　６０３［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１６７】

実施例７１

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－１の化合物〕の合成

【化２１８】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－1－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２４ｇ／収率７８．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．５４（８６．６１）、水素：４．３５（４．４８）

窒素：　６．３３（　６．４５）

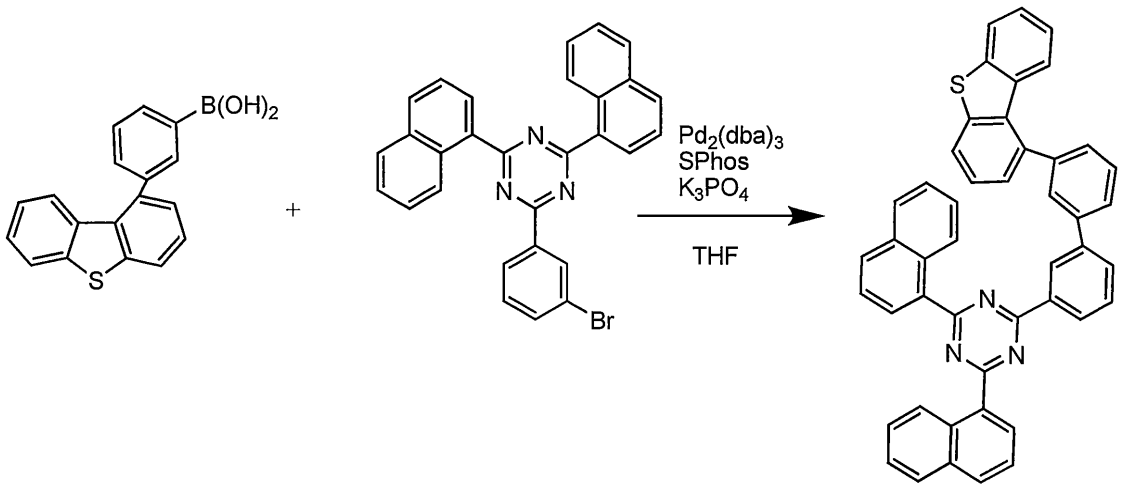
質量分析の結果は、ｍ／ｚ　６５１［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１６８】

実施例７２

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕フェニル｝－４，６－ジ（１－ナフチル）－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺ：（ＩＩ）－１２３の化合物〕の合成

【化２１９】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－１－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例６の２－（３－ブロモフェニル）－４，６－ジ（１－ナフチル）－１，３，５－トリアジン２．１３ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）

－４，６－ジ（１－ナフチル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量１．９０ｇ／収率６４．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．４４（８４．５３）、水素：４．３１（４．３８）

窒素：　６．１９（　６．２９）、硫黄：５．０６（４．８０）

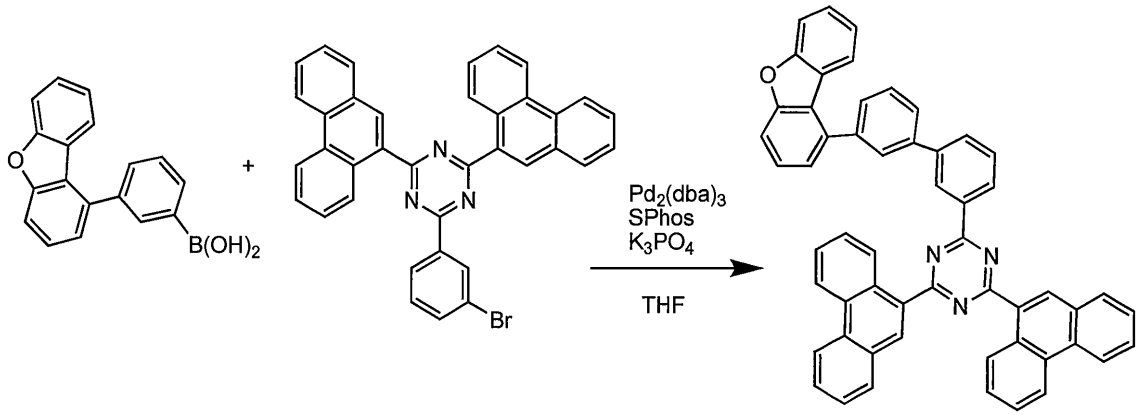
質量分析の結果は、ｍ／ｚ　６６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｈ－ＤｉＮａｐＴＲＺであることが確認された。

【０１６９】

実施例７３

２－｛３－〔３－（ジベンゾフラン－１－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＦ（１）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－１の化合物〕の合成

【化２２０】



実施例１１における出発物質を、合成例１４の３－（ジベンゾフラン－１－イル）フェニルボロン酸１．５１ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．１４ｇ／収率６５．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８７．９８（８７．８６）、水素：４．４７（４．４２）

窒素：　５．５２（　５．５９）

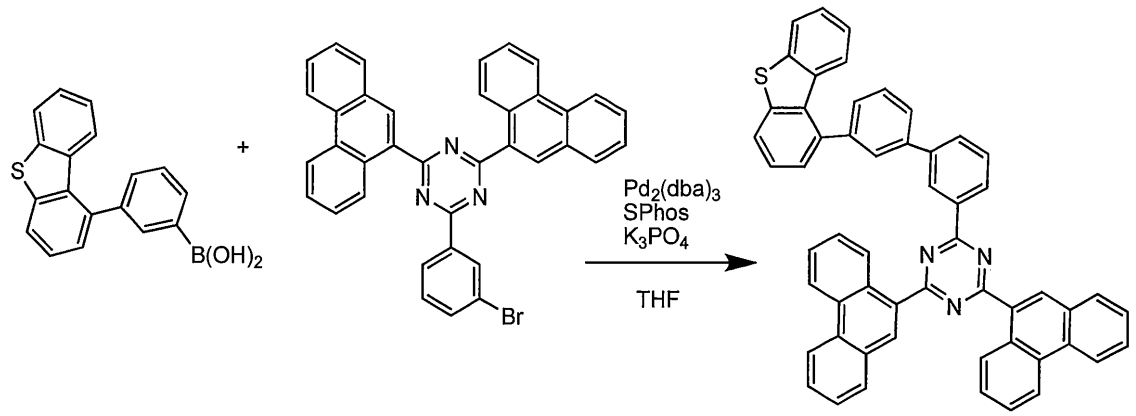
質量分析の結果は、ｍ／ｚ　７５２［Ｍ］$^{+}$でこれらのデータから、得られた化合物がＤＢＦ（１）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１７０】

実施例７４

２－｛３－〔３－（ジベンゾチオフェン－１－イル）フェニル〕フェニル｝－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン〔ＤＢＴ（１）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺ：（ＶＩＩＩ）－５９５の化合物〕の合成

【化２２１】



実施例１１における出発物質を、合成例１５の３－（ジベンゾチオフェン－1－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例７の２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジン２．５８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（９－フェナントロ）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．０４ｇ／収率６０．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．１４（８６．０２）、水素：４．２７（４．３３）

窒素：　５．５８（　５．４７）、硫黄：４．０１（４．１８）

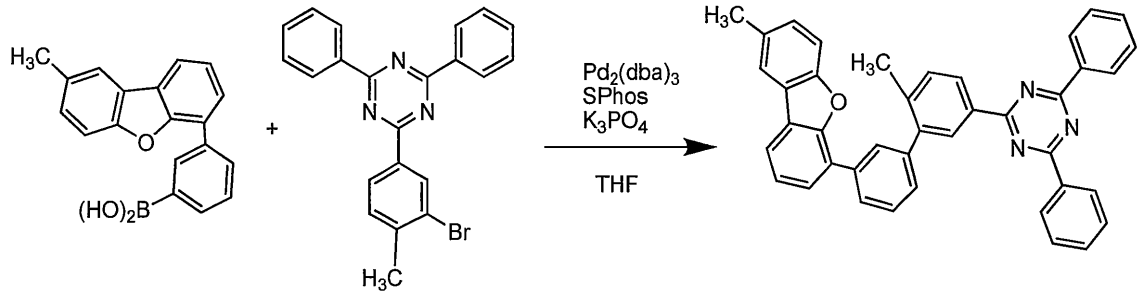
質量分析の結果は、ｍ／ｚ　７６８［Ｍ］$^{+}$でこのデータから、得られた化合物がＤＢＴ（１）－Ｈ－Ｈ－ＤｉＰｈｅｎＴＲＺであることが確認された。

【０１７１】

実施例７５

２－｛３－〔３－（７－メチルジベンゾフラン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－１１４５の化合物〕の合成

【化２２２】



合成例１１における出発物質を、合成例１６の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．５８ｇ（５．２６ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０９ｇ／収率８２．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８４．８９（８４．９５）、水素：５．０９（５．０４）

窒素：　７．２６（　７．２５）

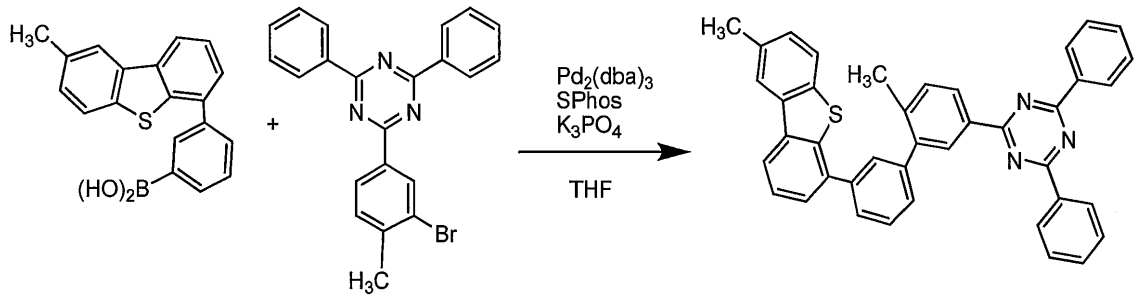
質量分析の結果は、ｍ／ｚ　５７９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１７２】

実施例７６

２－｛３－〔３－（７－メチルジベンゾチオフェン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－１３２１の化合物〕の合成

【化２２３】



合成例１１における出発物質を、合成例１７の３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１８ｇ／収率８３．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．５８（８２．６６）、水素：４．８７（４．９１）

窒素：　６．９８（　７．０５）、硫黄：５．５７（５．３８）

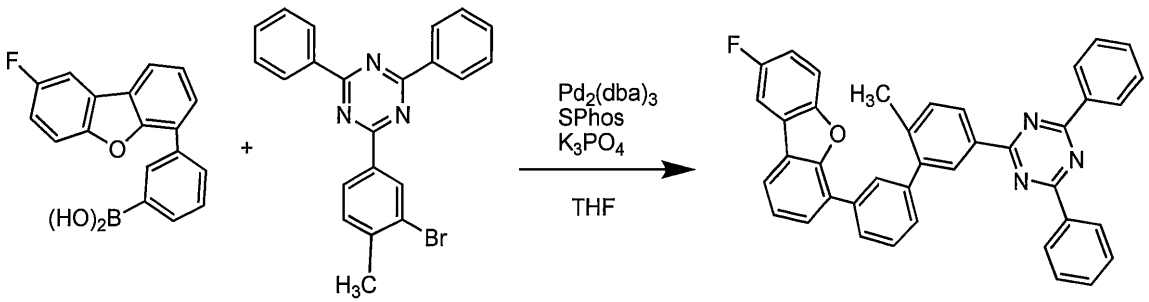
質量分析の結果は、ｍ／ｚ　５９６［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ　であることが確認された。

【０１７３】

実施例７７

２－｛３－〔３－（７－フルオロジベンゾフラン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：表にない化合物〕の合成

【化２２４】



合成例１１における出発物質を、合成例１８の３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１２ｇ／

収率８２．９％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．３１（８２．３１）、　水素：４．３６（４．４９）

窒素：　７．３３（　７．２０）、フッ素：３．２０（３．２６）

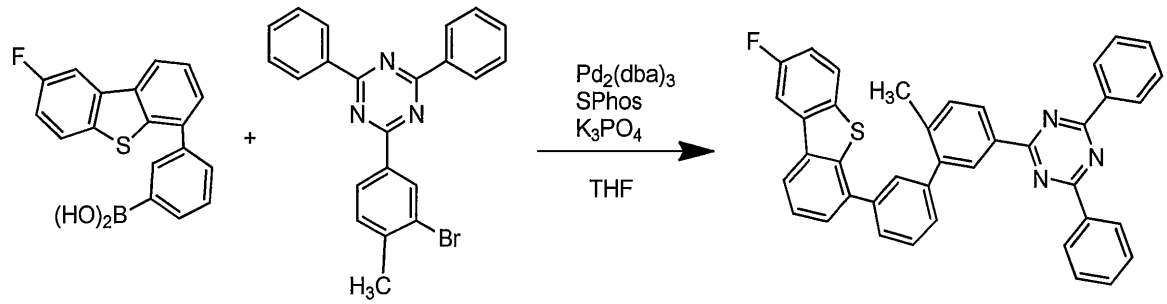
質量分析の結果は、ｍ／ｚ　５８３［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１７４】

実施例７８

２－｛３－〔３－（７－フルオロジベンゾチオフェン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：表にない化合物〕の合成

【化２２５】



合成例１１における出発物質を、合成例１９の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸１．６９ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１４ｇ／収率８１．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．９５（８０．１１）、水素：４．３０（４．３７）

窒素：　７．０３（　７．０１）、硫黄：５．３１（５．３５）

フッ素：　３．４１（　３．１７）

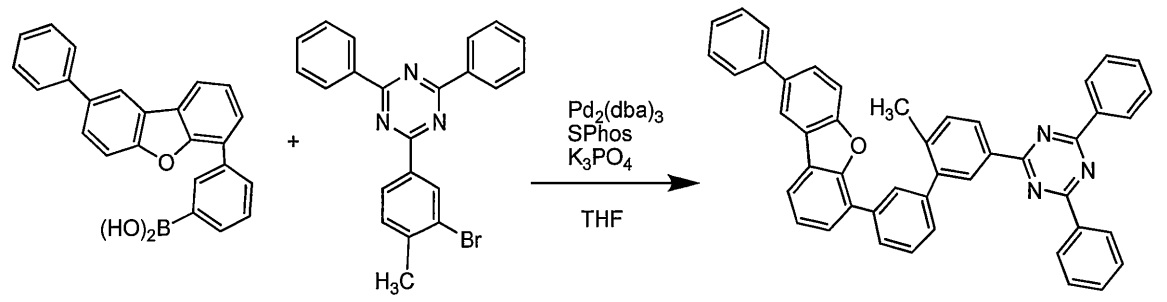
質量分析の結果は、ｍ／ｚ　５９９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ　であることが確認された。

【０１７５】

実施例７９

２－｛３－〔３－（７－フェニルジベンゾフラン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－２０６５の化合物〕の合成

【化２２６】



合成例１１における出発物質を、合成例２０の３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸１．９１ｇ（５．２６ｍｍｏｌ）と、合成例２の２－（３－ブ

ロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２３ｇ／収率７９．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．１１（８６．０９）、水素：４．８５（４．８７）

窒素：　６．６１（　６．５５）

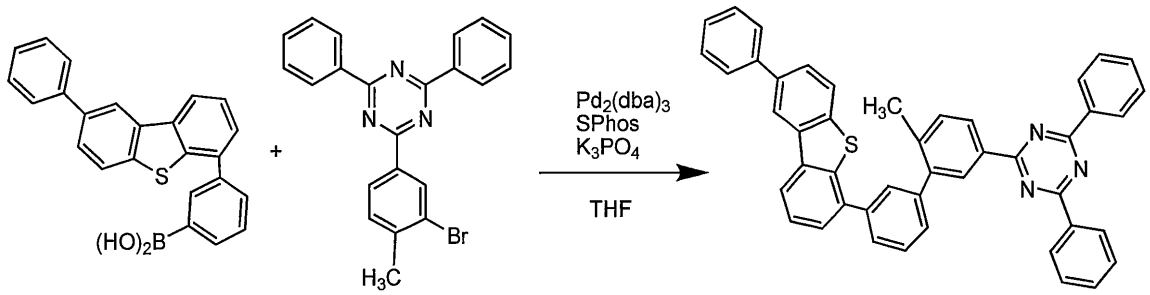
質量分析の結果は、ｍ／ｚ　６４０［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺであることが確認された。

【０１７６】

実施例８０

２－｛３－〔３－（７－フェニルジベンゾチオフェン－４－イル）フェニル〕－４－メチルフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ：（Ｉ）－２１４７の化合物〕の合成

【化２２７】



合成例１１における出発物質を、合成例２１の３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸２．００ｇ（５．２７ｍｍｏｌ）と、合成例２の２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７６ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－メチルフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．３３ｇ／収率８１．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８３．９６（８３．９９）、水素：４．７１（４．７５）

窒素：　６．３５（　６．３９）、硫黄：４．９８（４．８７）

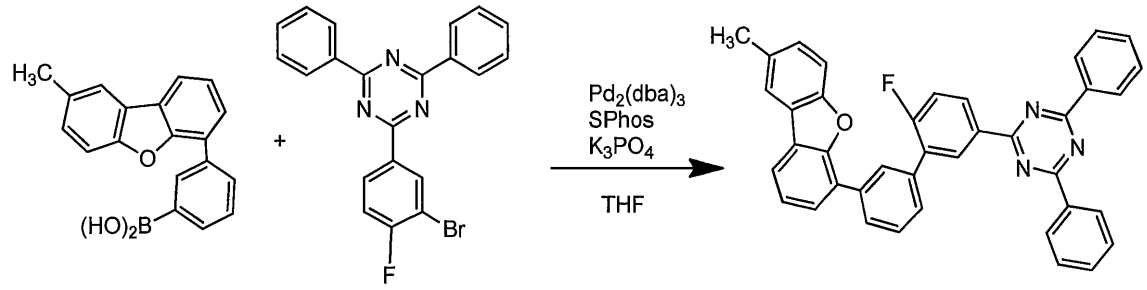
質量分析の結果は、ｍ／ｚ　６５７［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＴ（４）－Ｈ－Ｍｅ－ＰｈＴＲＺ　であることが確認された。

【０１７７】

実施例８１

２－｛３－〔３－（７－メチルジベンゾフラン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：表にない化合物〕の合成

【化２２８】



実施例１１における出発物質を、合成例１６の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．５８ｇ（５．２６ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１０ｇ／収率８２．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．２９（８２．３１）、　水素：４．５２（４．４９）

窒素：　７．２６（　７．２０）、フッ素：３．１９（３．２６）

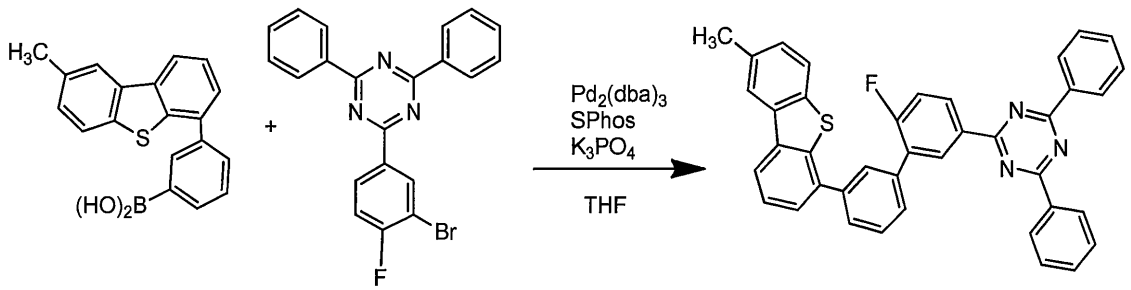
質量分析の結果は、ｍ／ｚ　５８３［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１７８】

実施例８２

２－｛３－〔３－（７－メチルジベンゾチオフェン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＭｅＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：表にない化合物〕の合成

【化２２９】



実施例１１における出発物質を、合成例１７の３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．２１ｇ／収率８４．２％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

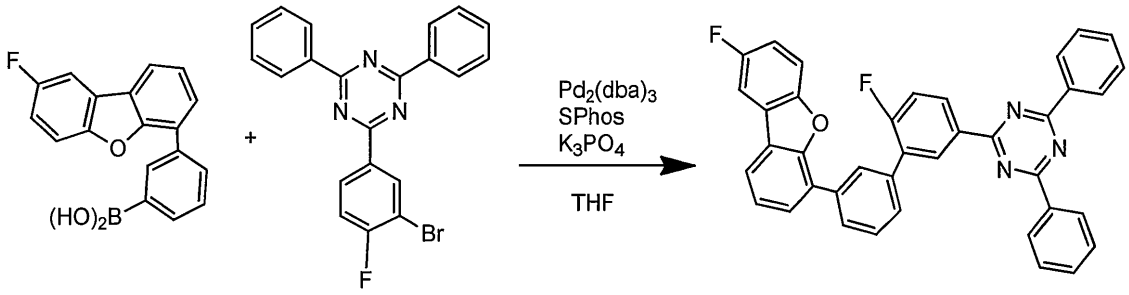
炭素：８０．０８（８０．１１）、水素：４．３０（４．３７）

窒素：　６．９８（　７．０１）、硫黄：５．３７（５．３５）

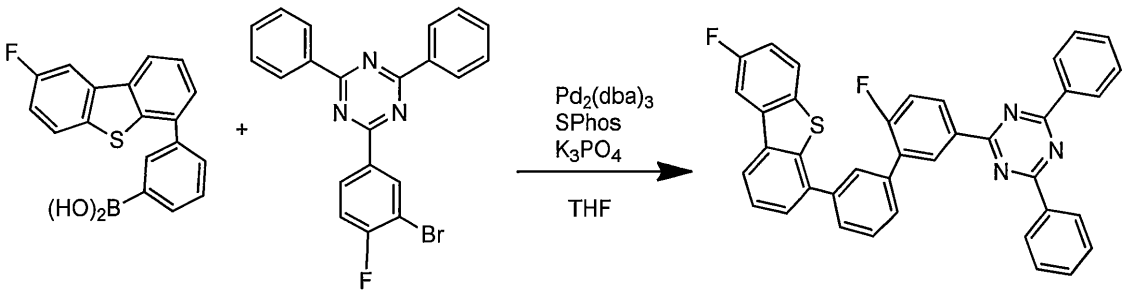
フッ素：　３．２７（　３．１７）

質量分析の結果は、ｍ／ｚ　５９９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ　であることが確認された。

【０１７９】
実施例８３
２－｛３－〔３－（７－フルオロジベンゾフラン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－１２１８の化合物〕の合成
【化２３０】



実施例１１における出発物質を、合成例１８の３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１６ｇ／収率８４．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：７９．７４（７９．７１）、　水素：３．９１（３．９５）
窒素：　７．１１（　７．１５）、フッ素：６．５４（６．４７）
質量分析の結果は、ｍ／ｚ　５８７［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。
【０１８０】
実施例８４
２－｛３－〔３－（７－フルオロジベンゾチオフェン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＦＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－１３９４の化合物〕の合成
【化２３１】



実施例１１における出発物質を、合成例１９の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸１．６９ｇ（５．２６ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１５ｇ／収率８２．０％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８０．１３（８０．１１）、水素：４．４１（４．３７）
窒素：　６．９５（　７．０１）、硫黄：５．３３（５．３５）
フッ素：　３．１８（　３．１７）

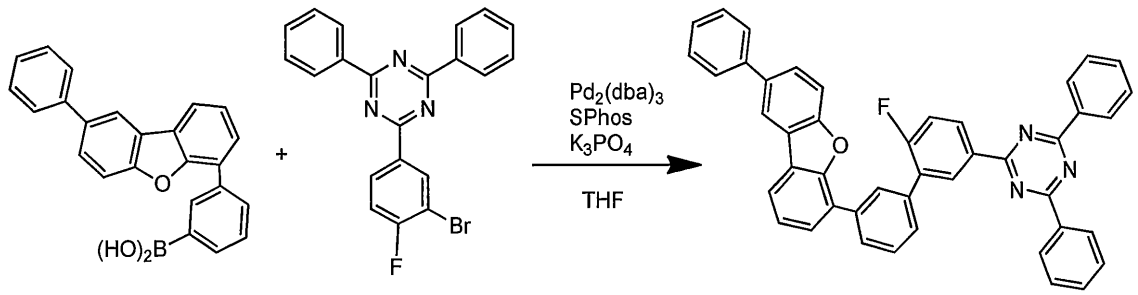
質量分析の結果は、ｍ／ｚ　５９９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１８１】

実施例８５

２－｛３－〔３－（７－フェニルジベンゾフラン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－２１００の化合物〕の合成

【化２３２】



実施例１１における出発物質を、合成例２０の３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸１．９１ｇ（５．２６ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．１７ｇ／収率７６．９％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８３．７３（８３．７０）、　水素：４．２９（４．３７）
窒素：　６．５６（　６．５１）、フッ素：２．９５（２．９４）

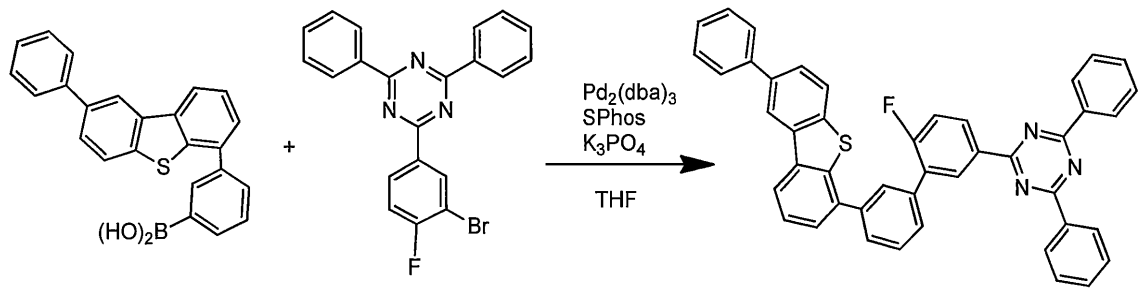
質量分析の結果は、ｍ／ｚ　６４５［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｆ－ＰｈＴＲＺであることが確認された。

【０１８２】

実施例８６

２－｛３－〔３－（７－フェニルジベンゾチオフェン－４－イル）フェニル〕－４－フルオロフェニル｝－４，６－ジフェニル－１，３，５－トリアジン〔（７）ＰｈＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ：（Ｉ）－２２２４の化合物〕の合成

【化２３３】



実施例１１における出発物質を、合成例２１の３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸２．００ｇ（５．２７ｍｍｏｌ）と、合成例３の２－（３－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３

－ブロモ－４－フルオロフェニル）－４，６－ジフェニル－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．３９ｇ／収率８２．６％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８１．６１（８１．６７）、水素：４．３１（４．２６）
窒素：　６．２５（　６．３５）、硫黄：４．７９（４．８５）
フッ素：　３．０４（　２．８７）

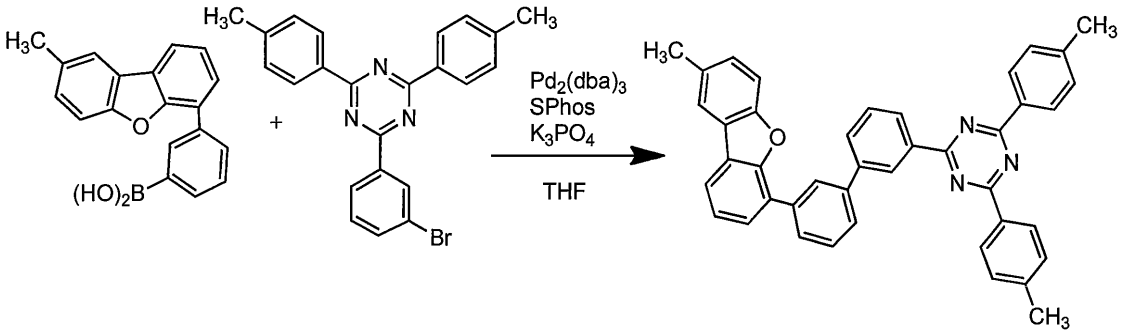
質量分析の結果は、ｍ／ｚ　６６０［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＴ（４）－Ｈ－Ｆ－ＰｈＴＲＺ　であることが確認された。

【０１８３】

実施例８７

２－｛３－〔３－（７－メチルジベンゾフラン－４－イル）フェニル〕－フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－１１４８の化合物〕の合成

【化２３４】



実施例１１における出発物質を、合成例１６の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．５８ｇ（５．２６ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１０ｇ／収率８０．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８５．０３（８４．９６）、水素：５．２２（５．２６）
窒素：　７．１２（　７．０８）

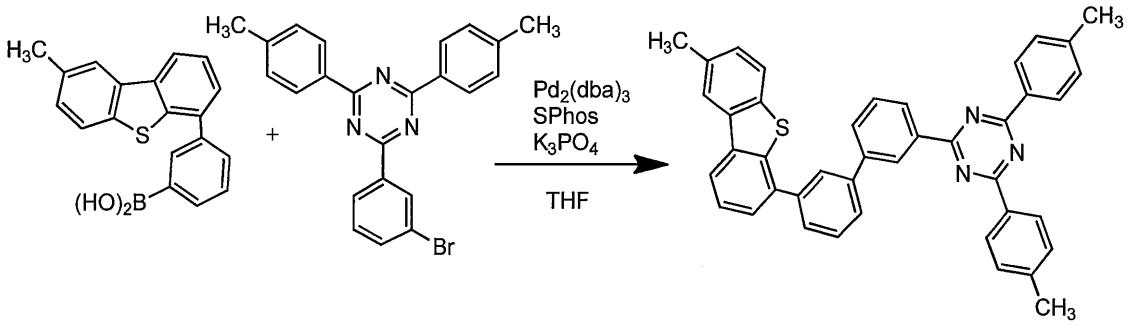
質量分析の結果は、ｍ／ｚ　５９３［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１８４】

実施例８８

２－｛３－〔３－（７－メチルジベンゾチオフェン－４－イル）フェニル〕－フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－１３２４の化合物〕の合成

【化２３５】



実施例１１における出発物質を、合成例１７の３－（７－メチルジベンゾチオフェン－４－イル）フェニルボロン酸１．６０ｇ（５．２６ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．２５ｇ／収率８４．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．７７（８２．７３）、水素：５．０８（５．１２）

窒素：　６．８８（　６．８９）、硫黄：５．２７（５．２６）

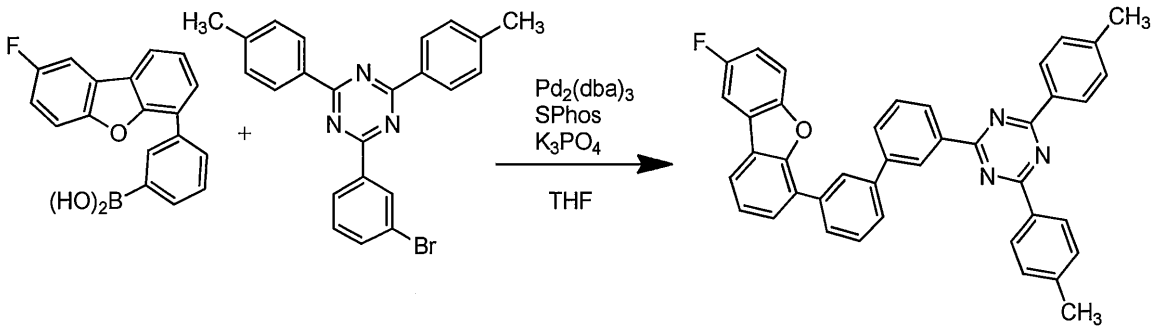
質量分析の結果は、ｍ／ｚ　６０９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１８５】

実施例８９

２－｛３－〔３－（７－フルオロジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：表にない化合物〕の合成

【化２３６】



実施例１１における出発物質を、合成例１８の３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．２２ｇ／収率８５．３％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８２．３５（８２．３９）、　水素：４．６８（４．７２）

窒素：　７．１０（　７．０３）、フッ素：３．１６（３．１８）

質量分析の結果は、ｍ／ｚ　５９７［Ｍ］$^{+}$でこれらのデータから、得られた化合物が

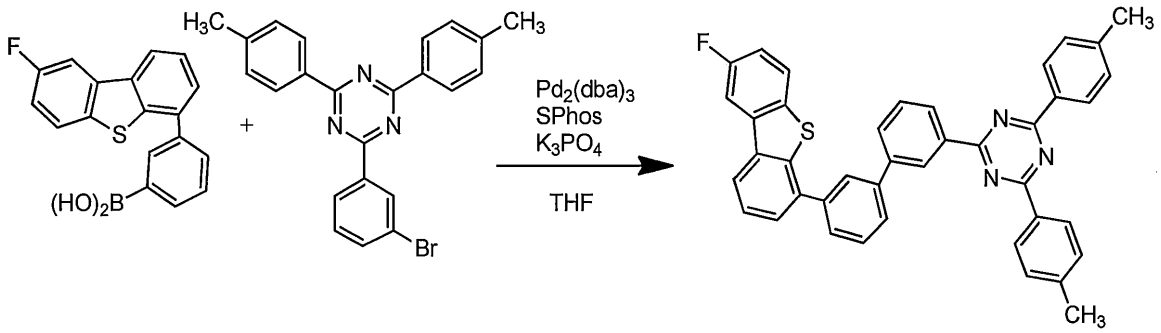
（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１８６】

実施例９０

２－｛３－〔３－（７－フルオロジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＰｈＴＲＺ：表にない化合物〕の合成

【化２３７】



実施例１１における出発物質を、合成例１９の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸１．６９ｇ（５．２６ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

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炭素：８０．２０（８０．２４）、水素：４．６８（４．６０）

窒素：　６．８８（　６．８５）、硫黄：５．１４（５．２２）

フッ素：　３．１０（　３．１０）

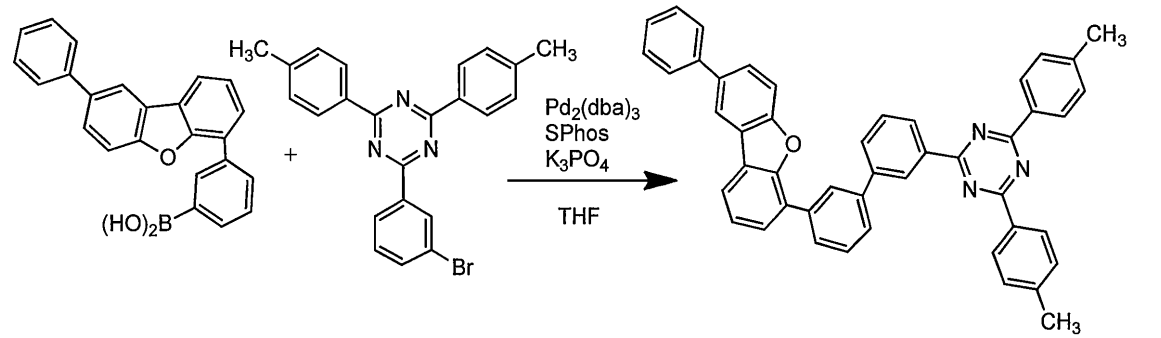
質量分析の結果は、ｍ／ｚ　６１３［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ　であることが確認された。

【０１８７】

実施例９１

２－｛３－〔３－（７－フェニルジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－２０６８の化合物〕の合成

【化２３８】



実施例１１における出発物質を、合成例２０の３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸１．９１ｇ（５．２６ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合

物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２６ｇ／収率７８．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８６．１２（８６．０８）、水素：５．０１（５．０７）

窒素：　６．４５（　６．４１）、

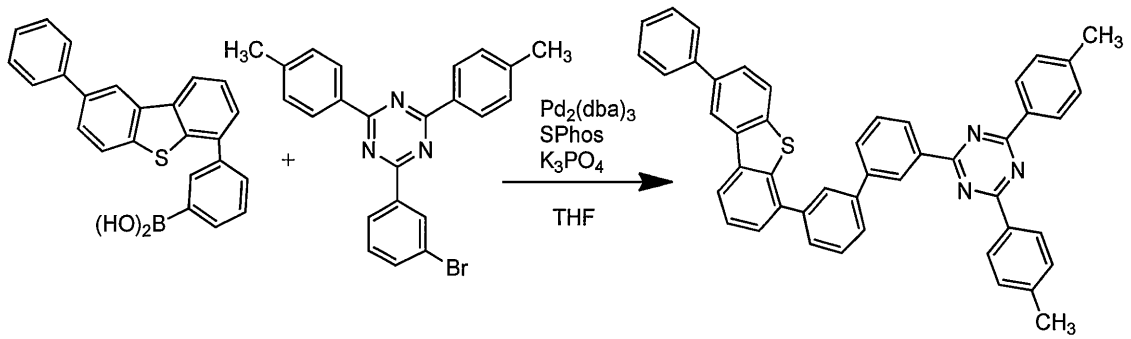
質量分析の結果は、ｍ／ｚ　６５５［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１８８】

実施例９２

２－｛３－〔３－（７－フェニルジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン〔（７）ＰｈＤＢＴ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺ：（Ｉ）－２１７７の化合物〕の合成

【化２３９】



実施例１１における出発物質を、合成例２１の３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸２．００ｇ（５．２７ｍｍｏｌ）と、合成例４の２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジン１．８２ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－トリル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２２ｇ／収率７５．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：８３．９５（８４．０２）、水素：５．０１（４．９５）

窒素：　６．４５（　６．４１）、硫黄：４．５９（４．７７）

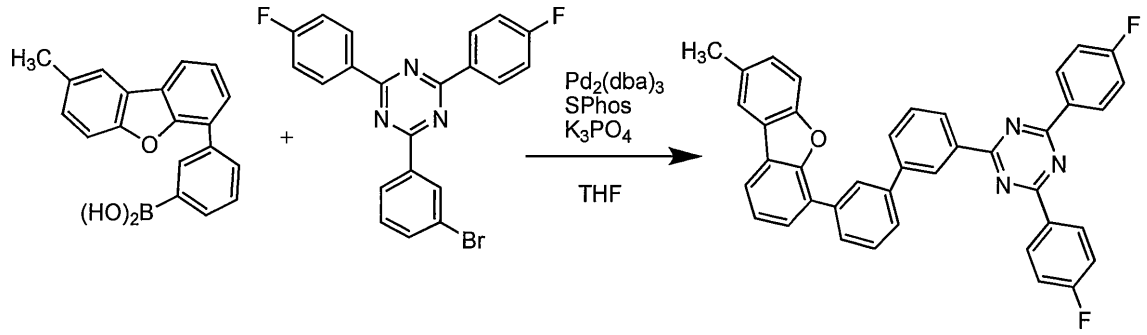
質量分析の結果は、ｍ／ｚ　６７１［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＤｉＭｅＴＲＺであることが確認された。

【０１８９】

実施例９３

２－｛３－〔３－（７－メチルジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：表にない化合物〕の合成

【化２４０】



実施例１１における出発物質を、合成例１６の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．５８ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．０３ｇ／収率７７．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．８０（７９．８５）、　水素：４．２０（４．１９）

窒素：　６．９５（　６．９８）、フッ素：６．２５（６．３２）

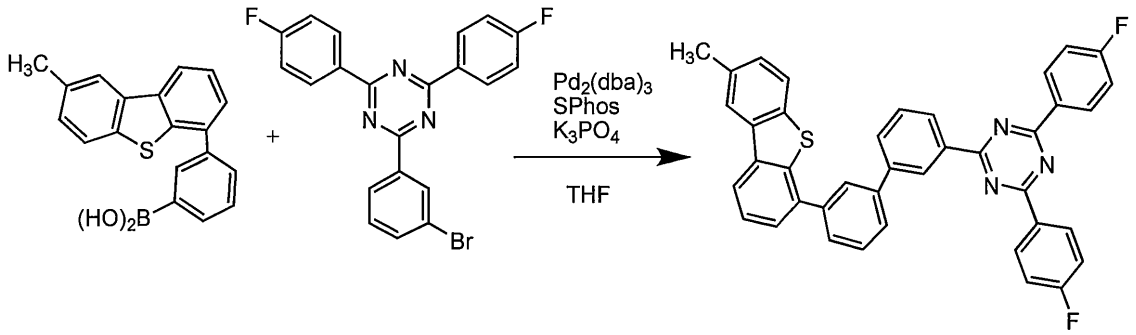
質量分析の結果は、ｍ／ｚ　６００［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１９０】

実施例９４

２－｛３－〔３－（７－メチルジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：表にない化合物〕の合成

【化２４１】



実施例１１における出発物質を、合成例１７の３－（７－メチルジベンゾフラン－４－イル）フェニルボロン酸１．６０ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１２ｇ／収率７８．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．７０（７７．７８）、水素：４．０６（４．０８）

窒素：　６．７５（　６．８０）、硫黄：５．２１（５．１９）

フッ素：　６．２８（　６．１５）

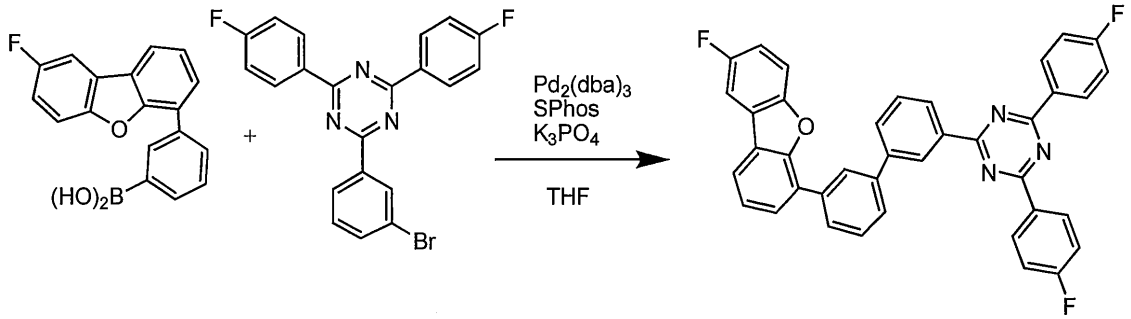
質量分析の結果は、ｍ／ｚ　６１７［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＭｅＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１９１】

実施例９５

２－｛３－〔３－（７－フルオロジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１２２１　の化合物〕の合成

【化２４２】



実施例１１における出発物質を、合成例１８の３－（７－フルオロジベンゾフラン－４－イル）フェニルボロン酸１．６１ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１４ｇ／収率８０．４％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７７．３５（７７．３５）、　水素：３．６８（３．６６）

窒素：　７．００（　６．９４）、フッ素：９．４５（９．４１）

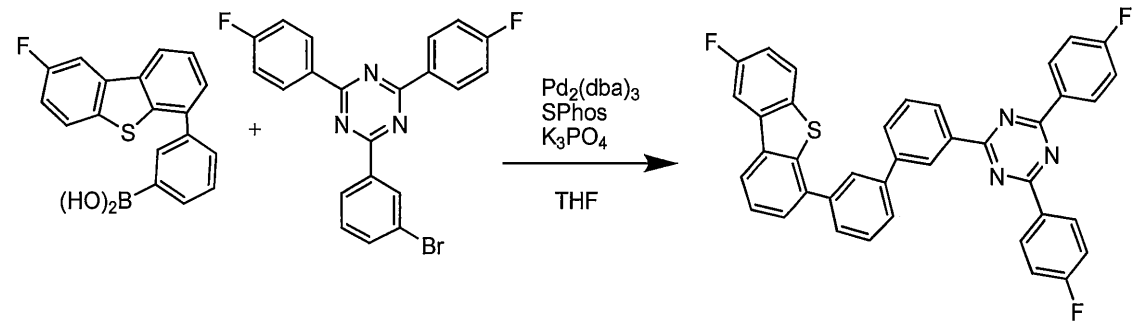
質量分析の結果は、ｍ／ｚ　６０５［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１９２】

実施例９６

２－｛３－〔３－（７－フルオロジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－１３９７の化合物〕の合成

【化２４３】



実施例１１における出発物質を、合成例１９の３－（７－フルオロジベンゾチオフェン－４－イル）フェニルボロン酸１．６９ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン

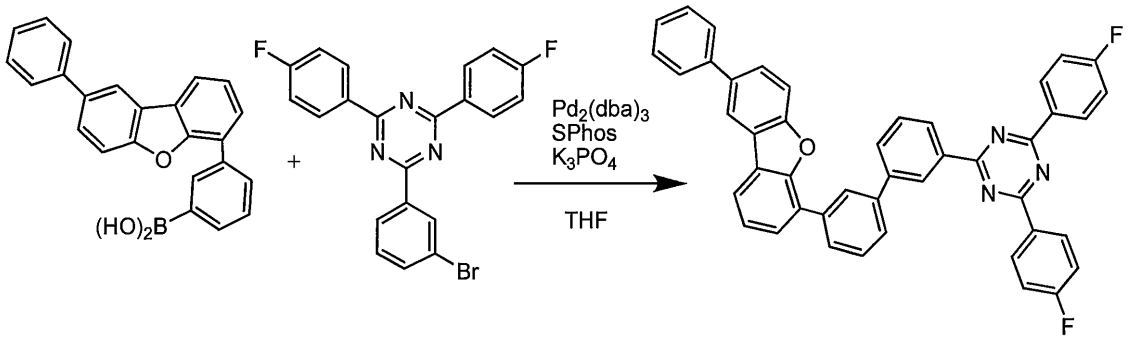
の消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例１１と同様に処理して白色固体を得た（収量２．１８ｇ／収率７９．８％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：７５．２２（７５．３５）、水素：３．５５（３．５７）
窒素：　６．８８（　６．７６）、硫黄：５．１４（５．１６）
フッ素：　９．２１（　９．１７）
質量分析の結果は、ｍ／ｚ　６２１［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＦＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１９３】

実施例９７

２－｛３－〔３－（７－フェニルジベンゾフラン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－２１２４の化合物〕の合成

【化２４４】



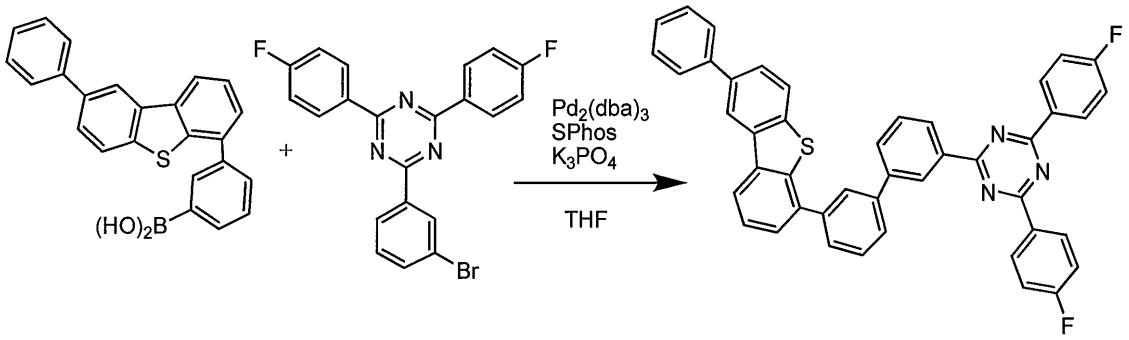
実施例１１における出発物質を、合成例２０の３－（７－フェニルジベンゾフラン－４－イル）フェニルボロン酸１．９１ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。
得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．２６ｇ／収率７７．５％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。
炭素：８１．３８（８１．４３）、　水素：４．１５（４．１０）
窒素：　６．４０（　６．３３）、フッ素：５．６９（５．７２）
質量分析の結果は、ｍ／ｚ　６６３［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＦ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【０１９４】

実施例９８

２－｛３－〔３－（７－フェニルジベンゾチオフェン－４－イル）フェニル〕フェニル｝－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン〔（７）ＰｈＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺ：（Ｉ）－２２１７の化合物〕の合成

【化２４５】



実施例１１における出発物質を、合成例２１の３－（７－フェニルジベンゾチオフェン－４－イル）フェニルボロン酸２．００ｇ（５．２６ｍｍｏｌ）と、合成例５の２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジン１．７８ｇ（４．３９ｍｍｏｌ）に変えた点以外は、全く同様にして反応させた後、２－（３－ブロモフェニル）－４，６－ジ（ｐ－フルオロフェニル）－１，３，５－トリアジンの消失を確認し、反応混合物を室温まで冷却した。

得られた反応混合物を実施例２１と同様に処理して白色固体を得た（収量２．３６ｇ／収率７９．１％）。更に、白色固体を定法により昇華精製し結晶を得た。この結晶の元素分析の結果は以下のとおりであり、カッコ内の数値は理論値である。

炭素：７９．４８（７９．５１）、水素：４．０５（４．００）
窒素：　６．２１（　６．１８）、硫黄：４．５７（４．７２）
フッ素：　５．６９（　５．５９）

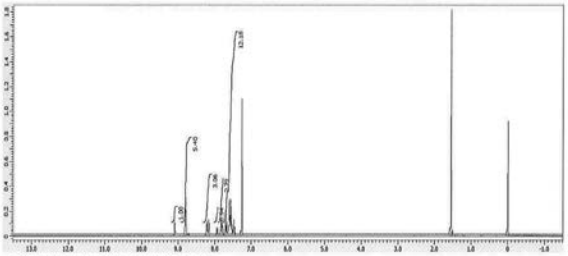
質量分析の結果は、ｍ／ｚ　６７９［Ｍ］$^{+}$でこれらのデータから、得られた化合物が（７）ＰｈＤＢＴ（４）－Ｈ－Ｈ－ＤｉＦＴＲＺであることが確認された。

【符号の説明】

【０１９５】

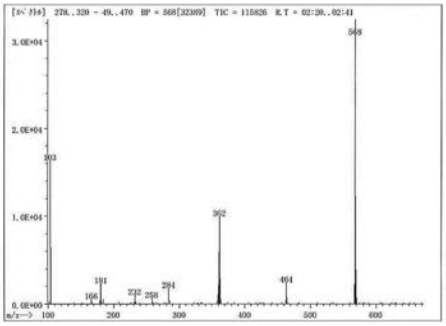
１　基板
２　陽極（ＩＴＯ）
３　発光層
４　陰極
５　正孔（ホール）輸送層
６　電子輸送層
７　正孔（ホール）注入層
８　電子注入層
９　ホールブロック層

【図１】



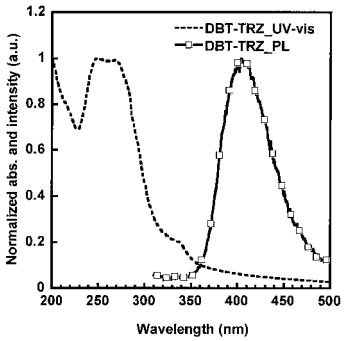
横軸は磁場、縦軸は強度を示す。

【図２】



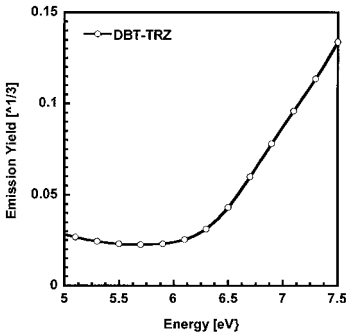
横軸は分子量、縦軸はイオン強度を表す。

【図３】



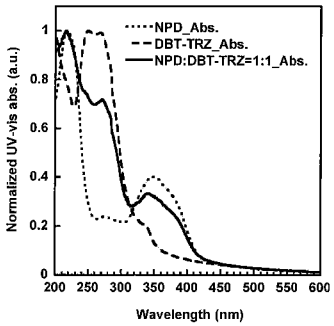
横軸は波長（ｎｍ）、縦軸は標準化された吸引と発光強度を表す。
ＵＶ－ｖｉｓは紫外－可視をＰＬはフォトルミネッセンスを意味する。

【図４】



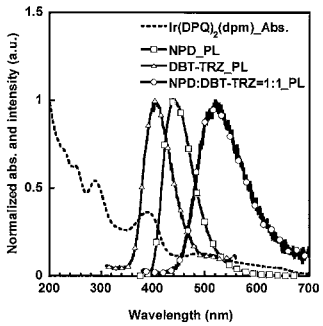
横軸はエネルギーを、縦軸は発光収率を表す。

【図５】



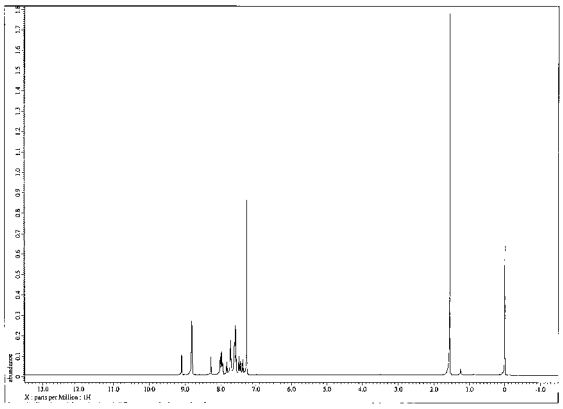
横軸は波長（ｎｍ）、縦軸は標準化された吸収強度を表す。
ＵＶ－ｖｉｓは紫外－可視を意味する。

【図６】



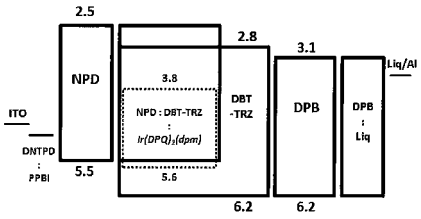
横軸は波長（ｎｍ）、縦軸は標準化された吸引と発光強度を表す。
Ａｂｓ．は吸収をＰＬはフォトルミネッセンスを意味する。

【図７】



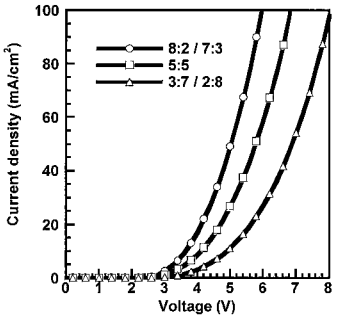
横軸は磁場、縦軸は強度を表す。

【図８】



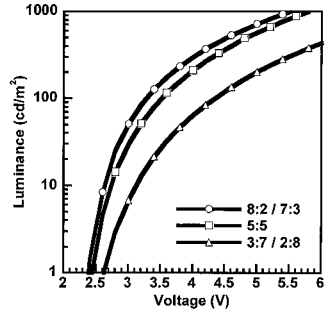
上側の数値は最低空軌道（ＬＵＭＯ）の値を、
下側の数値は最高被占軌道（ＨＯＭＯ）の値を表す。

【図９】



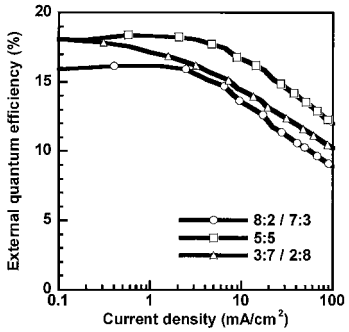
横軸は電圧、縦軸は電流密度を表す。

【図１０】



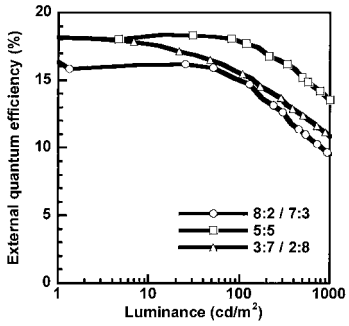
横軸は電圧、縦軸は輝度を表す。

【図１１】



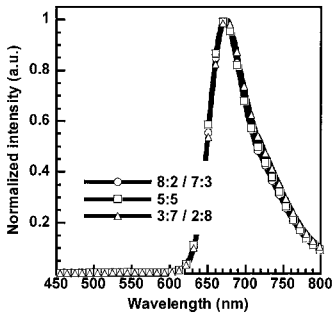
横軸は電流密度、縦軸は外部量子効率を表す。

【図１２】



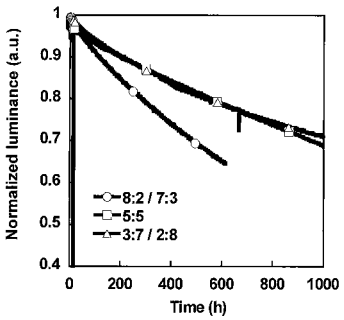
横軸は輝度、縦軸は外部量子効率を表す。

【図１３】



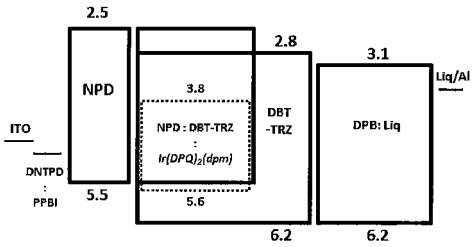
横軸は波長、縦軸は（標準化された）強度を表す。

【図１４】



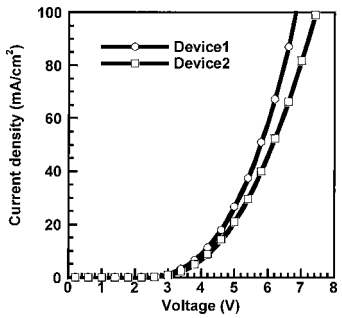
横軸は時間、縦軸は（標準化された）発光強度を表す。

【図１５】



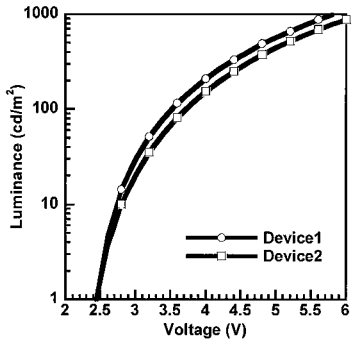
上側の数値は最低空軌道（ＬＵＭＯ）の値を、
下側の数値は最高被占軌道（ＨＯＭＯ）の値を表す。

【図１６】



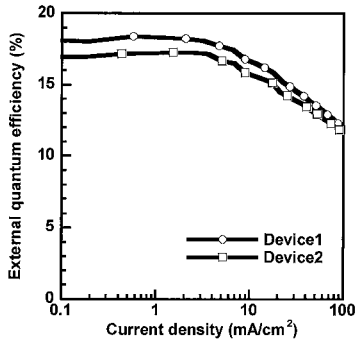
横軸は電圧、縦軸は電流密度を表す。

【図１７】



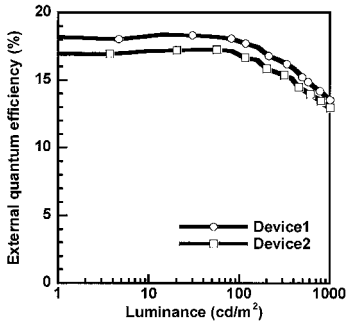
横軸は電圧、縦軸は輝度を表す。

【図１８】



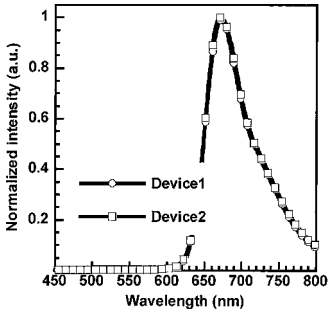
横軸は電流密度、縦軸は外部量子効率を表す。

【図１９】



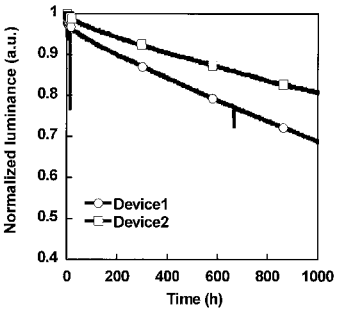
横軸は輝度、縦軸は外部量子効率を表す。

【図２０】



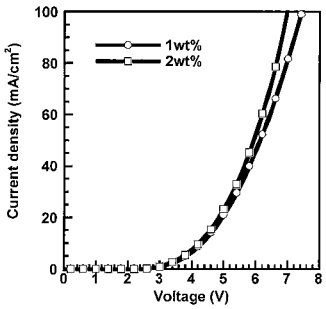
横軸は波長、縦軸は（標準化された）強度を表す。

【図２１】



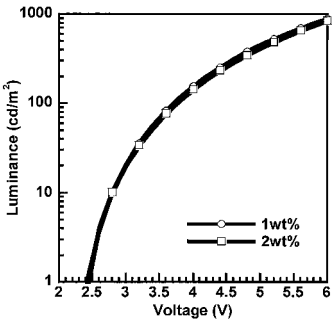
横軸は時間、縦軸は（標準化された）発光強度を表す。

【図２２】



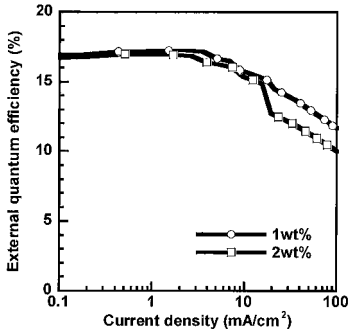
横軸は電圧、縦軸は電流密度を表す。

【図２３】



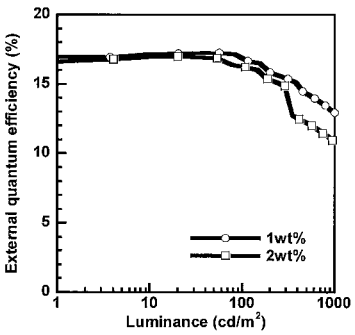
横軸は電圧、縦軸は輝度を表す。

【図２４】



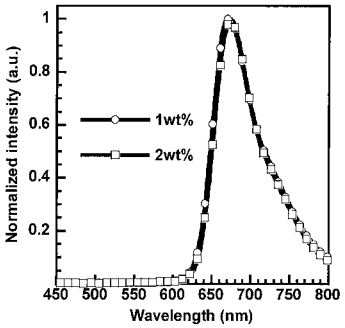
横軸は電流密度、縦軸は外部量子効率を表す。

【図２５】



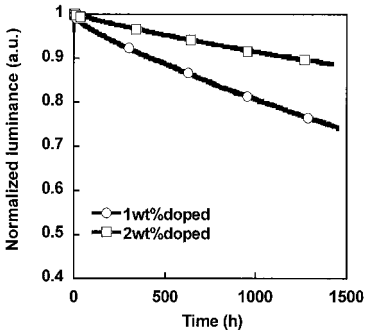
横軸は輝度、縦軸は外部量子効率を表す。

【図２６】



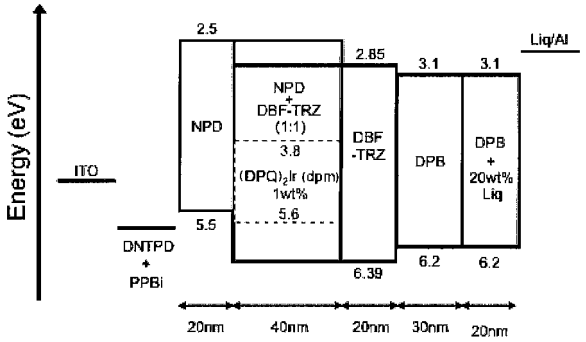
横軸は波長、縦軸は（標準化された）強度を表す。

【図２７】



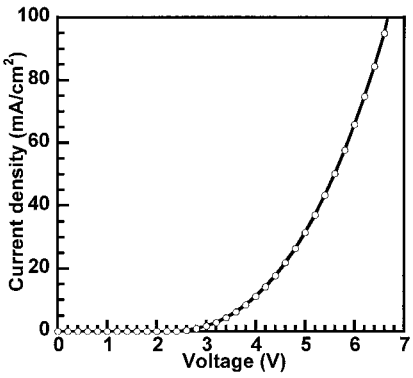
横軸は時間、縦軸は（標準化された）発光強度を表す。

【図２８】



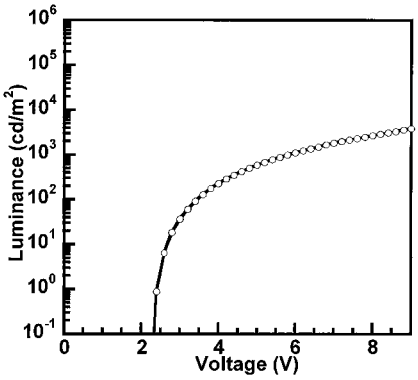
上側の数値は、最低空軌道（ＬＵＭＯ）の値を、
下側の数値は、最高被占軌道（ＨＯＭＯ）の値を表す。
矢印に挟まれた数値は膜の厚みを示す。

【図２９】



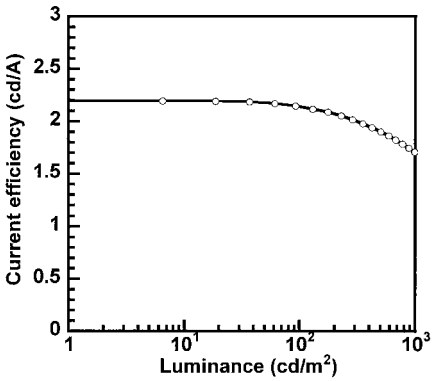
横軸は電圧、縦軸は電流密度を表す。

【図３０】



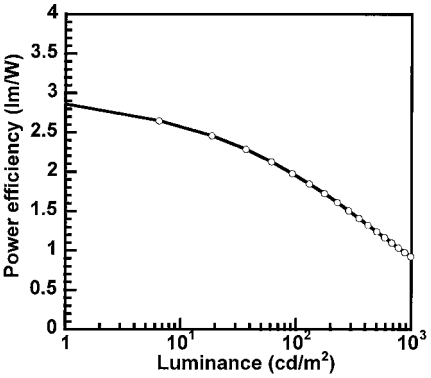
横軸は電圧、縦軸は輝度を表す。

【図３１】



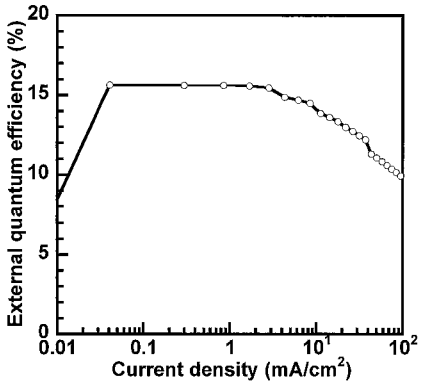
横軸は輝度、縦軸は電流効率を表す。

【図３２】



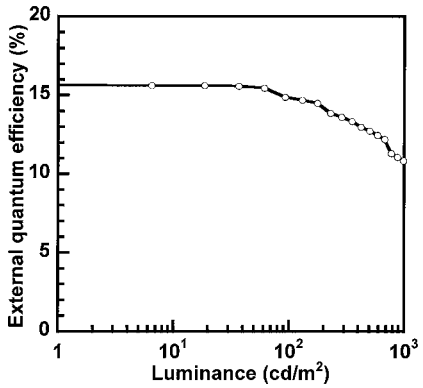
横軸は輝度、縦軸は電力効率を表す。

【図３３】



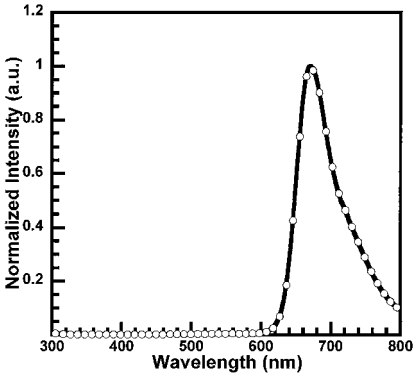
横軸は電流密度、縦軸は外部量子効率を表す。

【図３４】



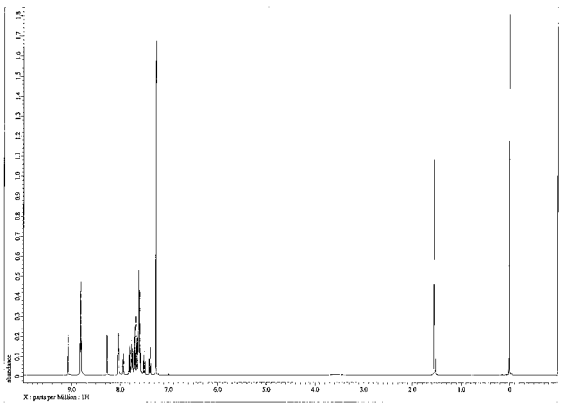
横軸は輝度、縦軸は外部量子効率を表す。

【図３５】



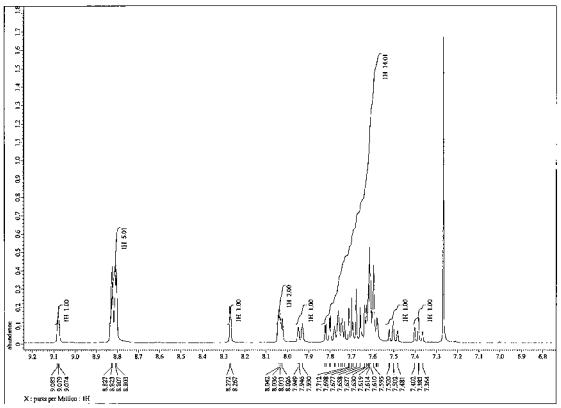
横軸は波長、縦軸は（標準化された）強度を表す。

【図３６】



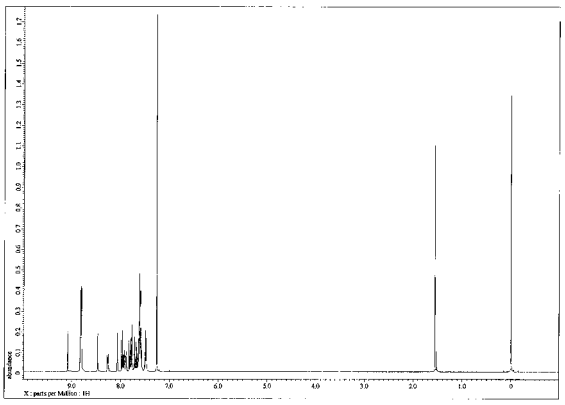
横軸は強度、縦軸は磁場を表す。（全領域）

【図３７】



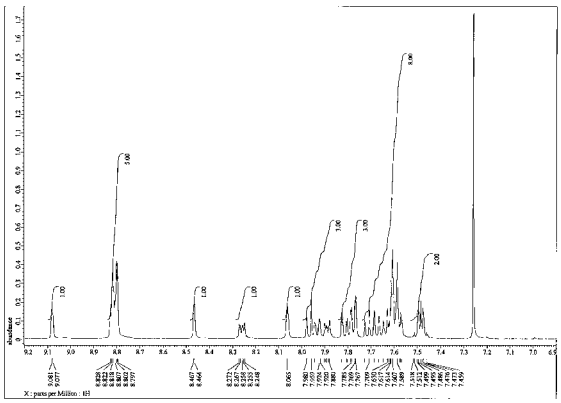
横軸は強度、縦軸は磁場を表す。（拡大図）

【図３８】



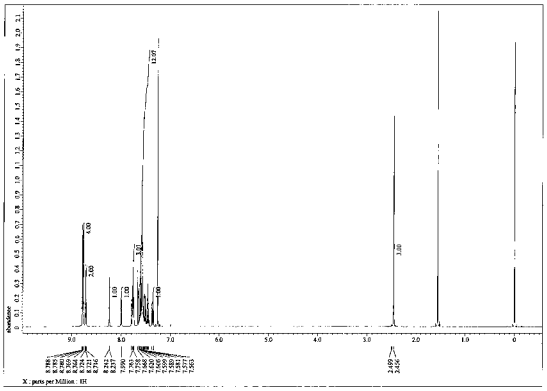
横軸は強度、縦軸は磁場を表す。（全領域）

【図３９】



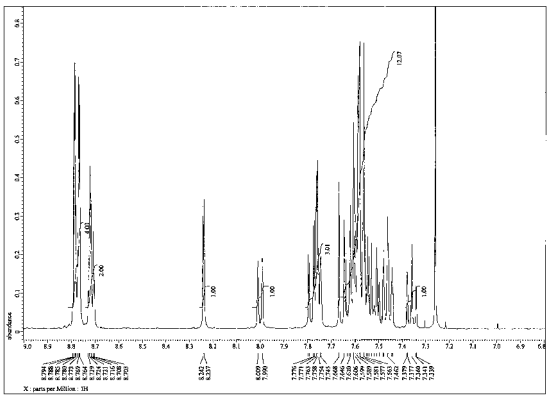
横軸は強度、縦軸は磁場を表す。（拡大図）

【図４０】



横軸は強度、縦軸は磁場を表す。（全領域）

【図４１】



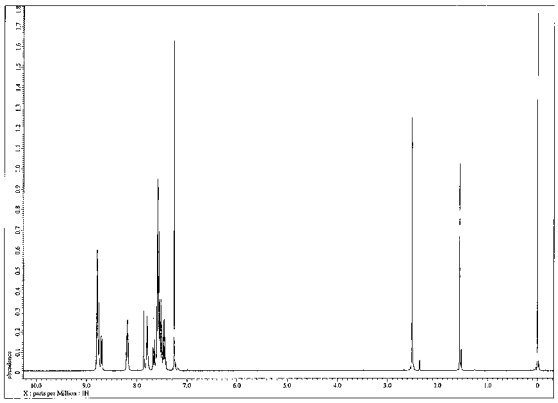
横軸は強度、縦軸は磁場を表す。（拡大図）

【図４２】

Sample	T_g	T_m	T_{d5}
DBF(4)-H-Me-PhTRZ	92.1	241.1	421.7

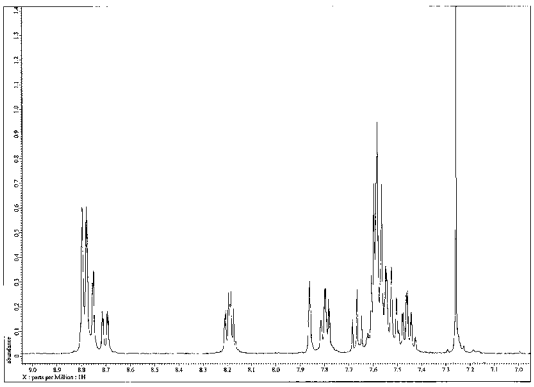
Tg は、ガラス転移温度、Tm は、融点、Td5 は、５％分解温度を表す。単位は、摂氏（℃）

【図４３】



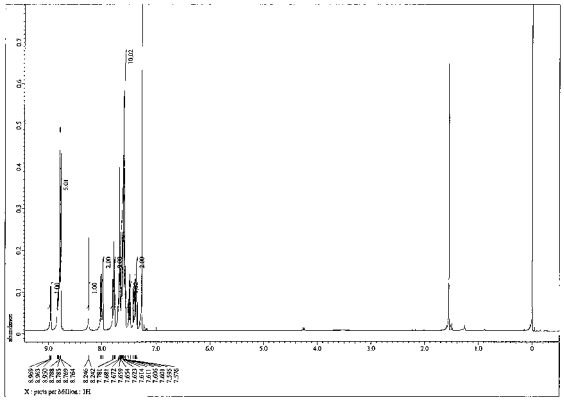
横軸は強度、縦軸は磁場を表す。（全領域）

【図４４】



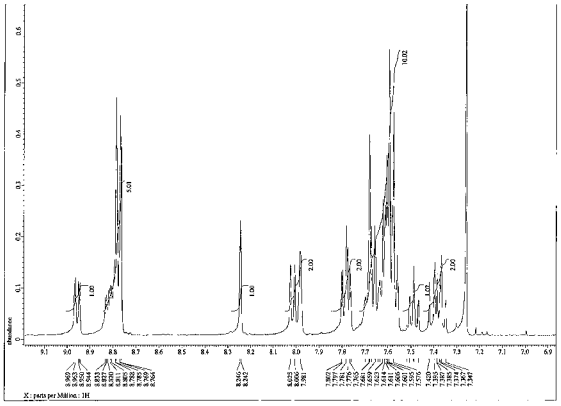
横軸は強度、縦軸は磁場を表す。（拡大図）

【図４５】



横軸は強度、縦軸は磁場を表す。（全領域）

【図４６】



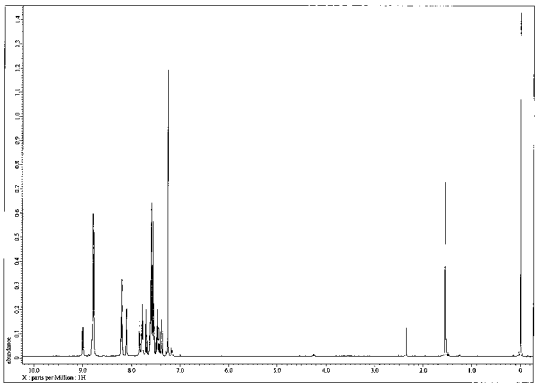
横軸は強度、縦軸は磁場を表す。（拡大図）

【図４７】

Sample	T_g	T_m	T_{d5}
DBF(4)-H-F-PhTRZ	82.0	244.1	428.0

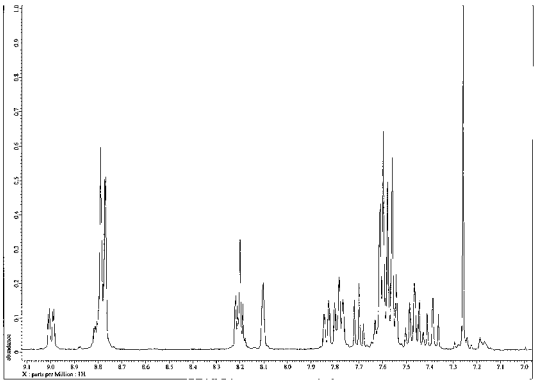
Tg は、ガラス転移温度、Tm は、融点、Td5 は、５％分解温度を表す。単位は、摂氏（℃）

【図４８】



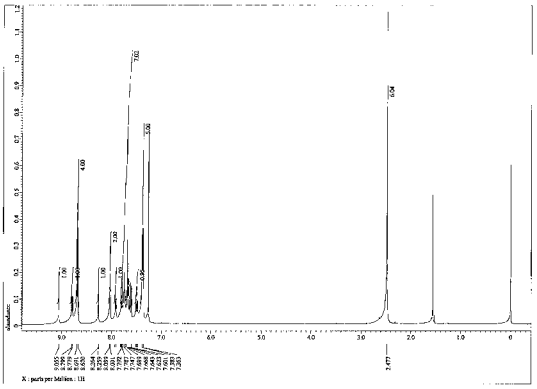
横軸は強度、縦軸は磁場を表す。（全領域）

【図４９】



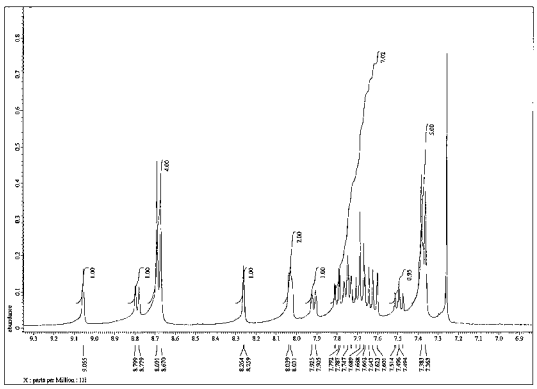
横軸は強度、縦軸は磁場を表す。（拡大図）

【図５０】



横軸は強度、縦軸は磁場を表す。（全領域）

【図５１】



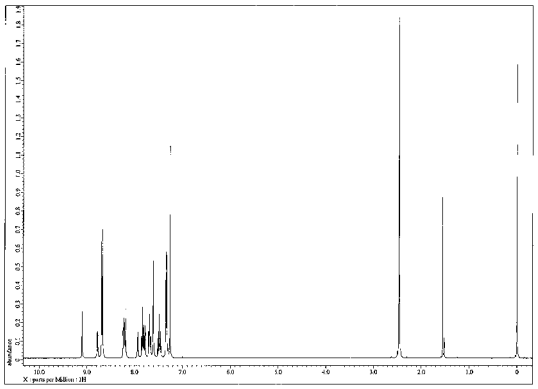
横軸は強度、縦軸は磁場を表す。（拡大図）

【図５２】

Sample	T_g	T_m	T_{d5}
DBF(4)-H-H-DiMeTRZ	86.1	217.2	440.4

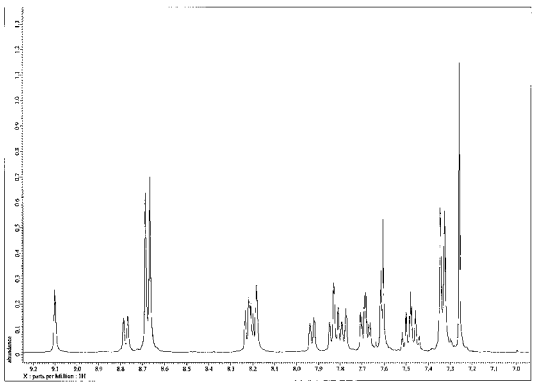
Tg は、ガラス転移温度、Tm は、融点、Td5 は、５％分解温度を表す。単位は、摂氏（℃）

【図５３】



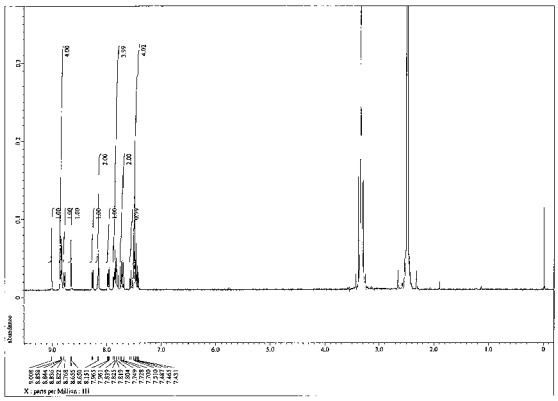
横軸は強度、縦軸は磁場を表す。（全領域）

【図５４】



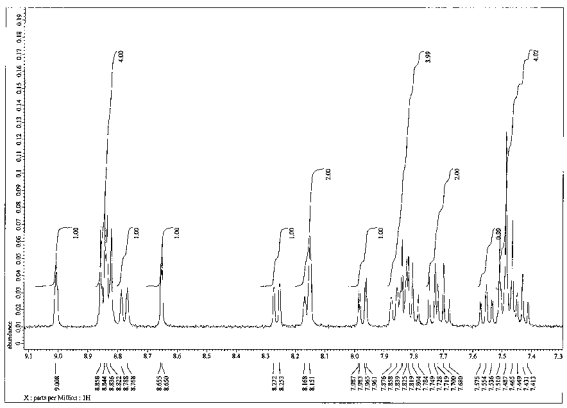
横軸は強度、縦軸は磁場を表す。（拡大図）

【図５５】



横軸は強度、縦軸は磁場を表す。（全領域）

【図５６】



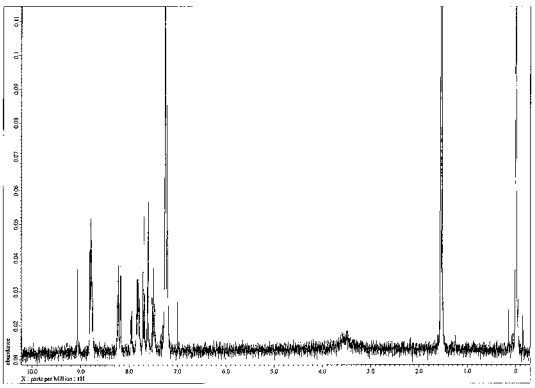
横軸は強度、縦軸は磁場を表す。（拡大図）

【図５７】

Sample	T_g	T_m	T_{d5}
DBF(4)-H-H-DiFTRZ	81.7	222.6	425.2

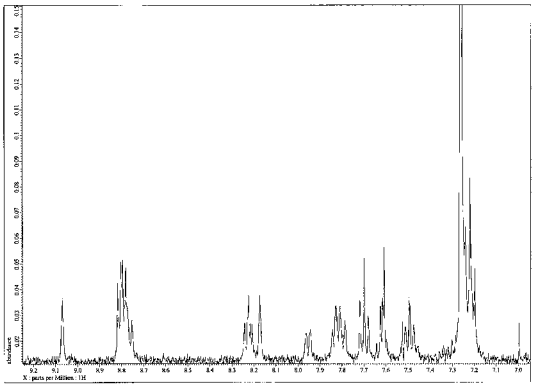
Tgは、ガラス転移温度、Tmは、融点、Td5は、５％分解温度を表す。単位は、摂氏（℃）

【図５８】



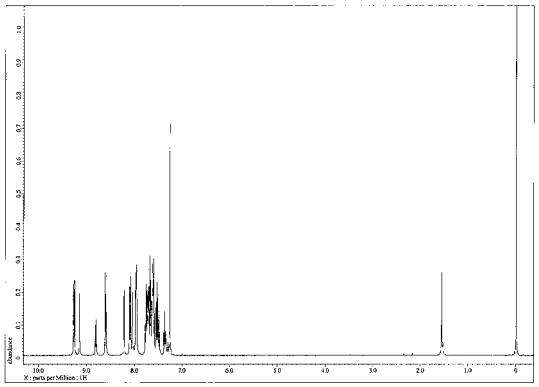
横軸は強度、縦軸は磁場を表す。（全領域）

【図５９】



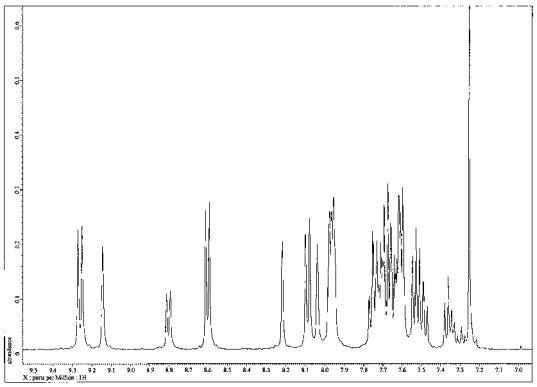
横軸は強度、縦軸は磁場を表す。（拡大図）

【図６０】



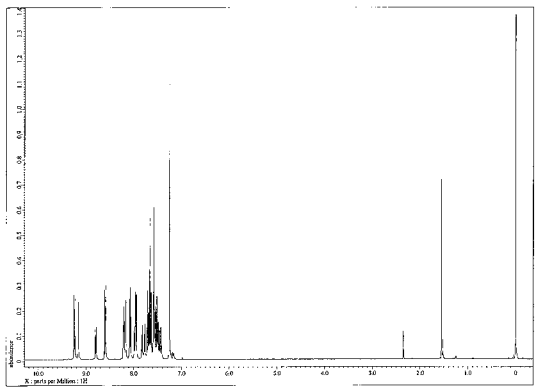
横軸は強度、縦軸は磁場を表す。（全領域）

【図６１】



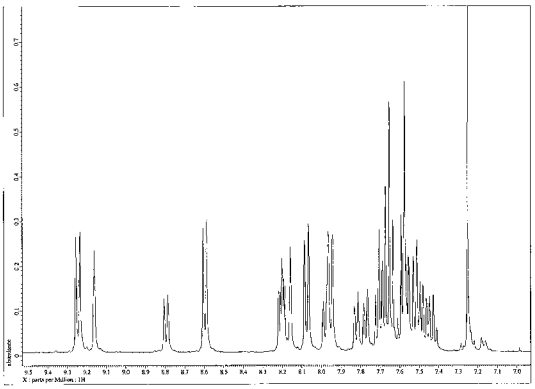
横軸は強度、縦軸は磁場を表す。（拡大図）

【図６２】



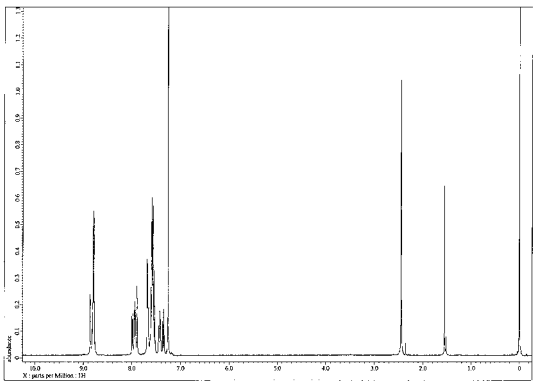
横軸は強度、縦軸は磁場を表す。（全領域）

【図６３】



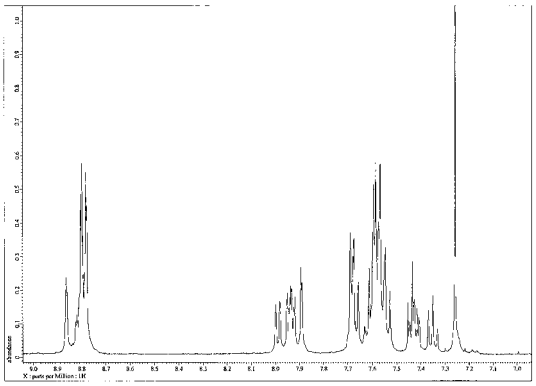
横軸は強度、縦軸は磁場を表す。（拡大図）

【図６４】



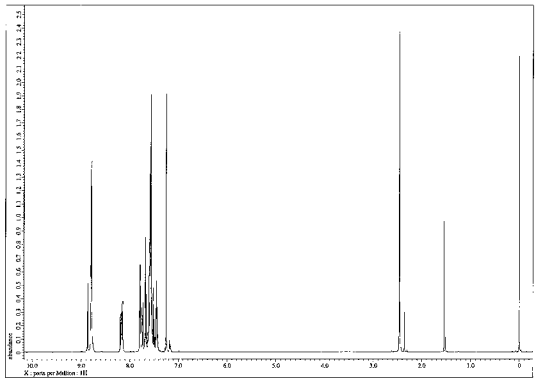
横軸は強度、縦軸は磁場を表す。（全領域）

【図６５】



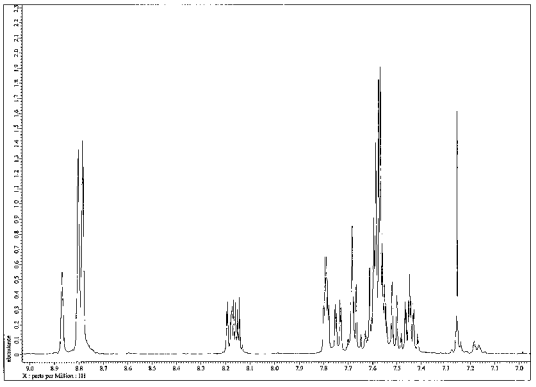
横軸は強度、縦軸は磁場を表す。（拡大図）

【図６６】



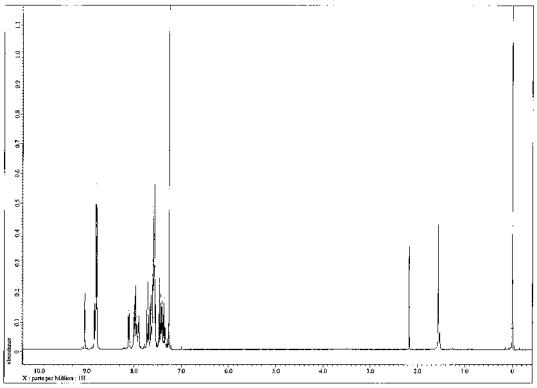
横軸は強度、縦軸は磁場を表す。（全領域）

【図６７】



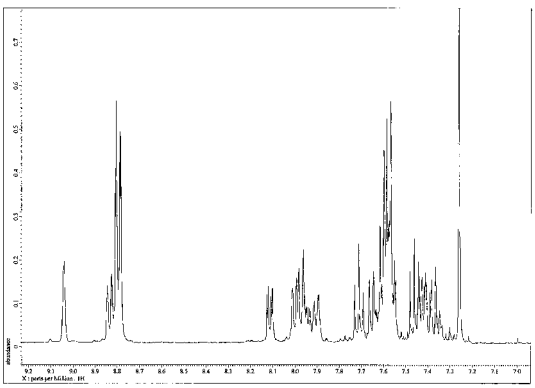
横軸は強度、縦軸は磁場を表す。（拡大図）

【図６８】



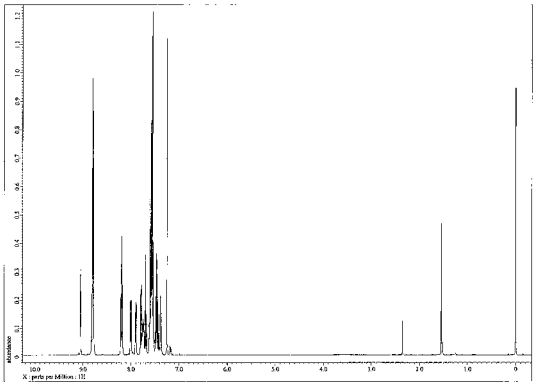
横軸は強度、縦軸は磁場を表す。（全領域）

【図６９】



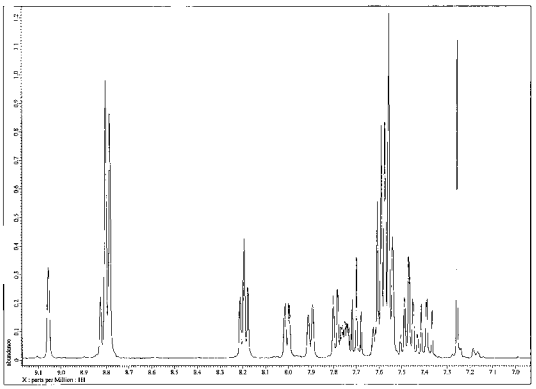
横軸は強度、縦軸は磁場を表す。（拡大図）

【図７０】



横軸は強度、縦軸は磁場を表す。（全領域）

【図７１】



横軸は強度、縦軸は磁場を表す。（拡大図）

【図７２】

4
6
3
5
2
1

【図７３】

4
6
3
5
7
2
1

【図７４】

4
8
6
3
5
2
1

【図７５】

4
8
6
3
5
7
2
1

【図７６】

4
6
9
3
5
2
1

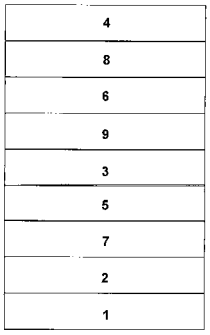
【図７７】

4
6
9
3
5
7
2
1

【図７８】

4
8
6
9
3
5
2
1

【図７９】



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