



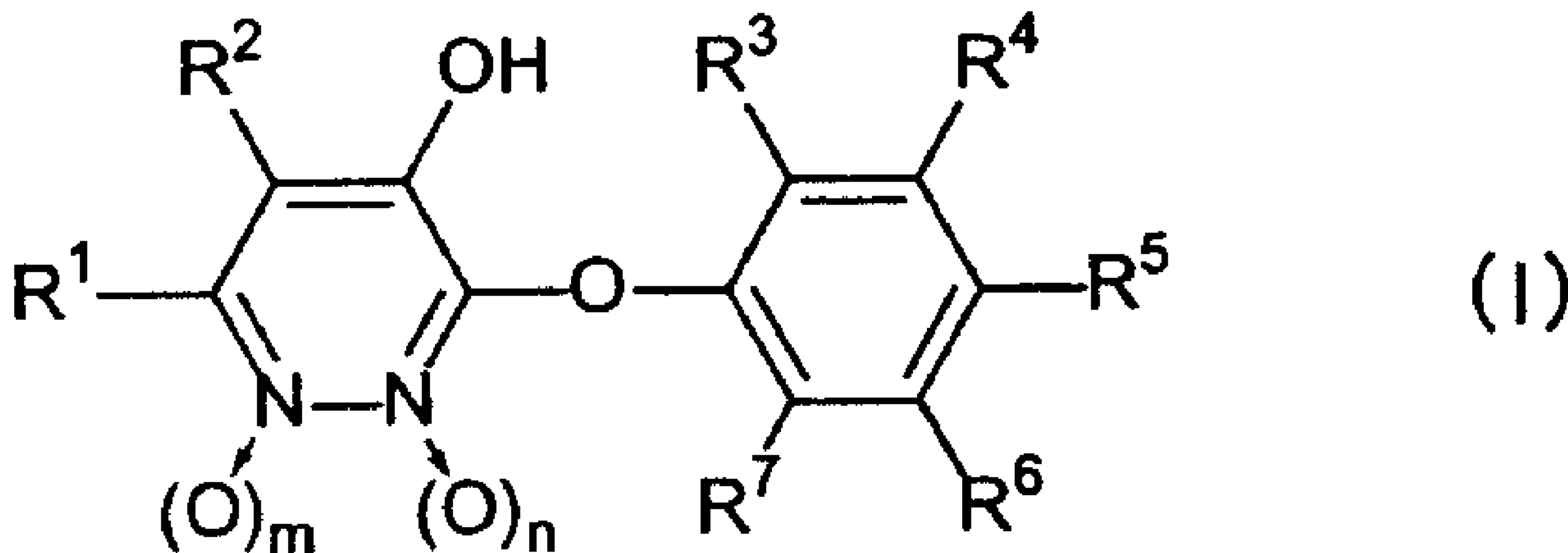
(86) Date de dépôt PCT/PCT Filing Date: 2002/08/14
(87) Date publication PCT/PCT Publication Date: 2003/02/27
(45) Date de délivrance/Issue Date: 2010/12/21
(85) Entrée phase nationale/National Entry: 2004/02/13
(86) N° demande PCT/PCT Application No.: JP 2002/008278
(87) N° publication PCT/PCT Publication No.: 2003/016286
(30) Priorités/Priorities: 2001/08/17 (JP2001-248014);
2002/03/25 (JP2002-82219)

(51) Cl.Int./Int.Cl. *C07D 237/16* (2006.01),
A01N 43/58 (2006.01), *C07D 401/12* (2006.01),
C07D 403/12 (2006.01), *C07D 405/12* (2006.01),
C07D 409/04 (2006.01), *C07D 409/12* (2006.01),
C07D 413/12 (2006.01), *C07D 417/12* (2006.01)

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(54) Titre : DERIVE DE 3-PHENOXY-4-PYRIDAZINOL ET COMPOSITION HERBICIDE LE CONTENANT
(54) Title: 3-PHENOXY-4-PYRIDAZINOL DERIVATIVES AND HERBICIDAL COMPOSITION CONTAINING THE SAME



(57) Abrégé/Abstract:

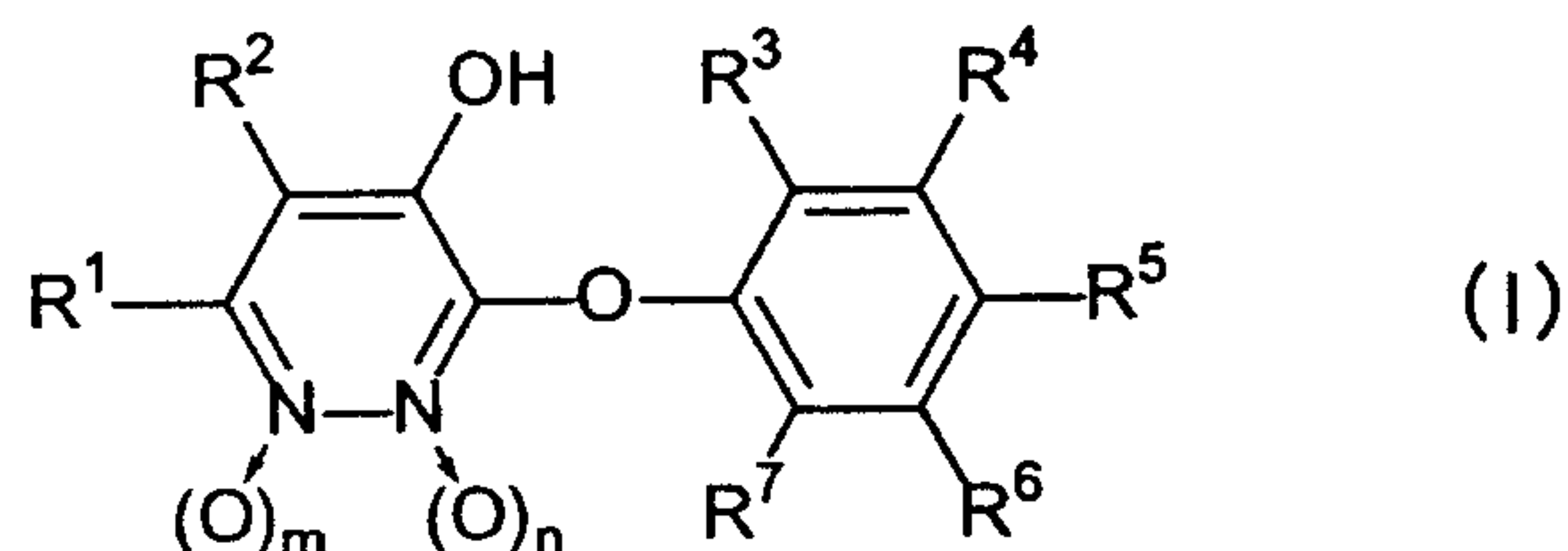
A compound represented by the formula: (see formula I) [wherein R¹ represents a hydrogen atom, a halogen atom, alkyl group, etc., R² represents a hydrogen atom, a halogen atom, alkyl group, etc., each independently represent a R³, R⁴, R⁵, R⁶ and R⁷ each independently represent a hydrogen atom, a halogen atom, a substitutable alkyl group, a substitutable alkenyl group, alkynyl group, a substituteable cycloalkyl group, etc., or R³, R⁴, R⁵, R⁶ and R⁷ may form a ring which may be substituted, which is formed by the adjacent two of them with carbon atoms to which the respective substituents are bonded, m and n each independently represent 0 or 1.] a salt thereof, an ester derivative thereof and an agricultural chemical containing the same as an effective ingredient, and a herbicidal composition containing the compound and a second herbicidally active compound as effective ingredients.

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Abstract

A compound represented by the formula:



5 [wherein R¹ represents a hydrogen atom, a halogen atom, alkyl group, etc.,

R² represents a hydrogen atom, a halogen atom, alkyl group, etc.,

10 R³, R⁴, R⁵, R⁶ and R⁷ each independently represent a hydrogen atom, a halogen atom, a substitutable alkyl group, a substitutable alkenyl group, alkynyl group, a substitutable cycloalkyl group, etc., or R³, R⁴, R⁵, R⁶ and R⁷ may form a ring which may be substituted, which is formed by the adjacent two of them with carbon atoms to which the
15 respective substituents are bonded,

m and n each independently represent 0 or 1.]

a salt thereof, an ester derivative thereof and an agricultural chemical containing the same as an effective ingredient, and a herbicidal composition containing the
20 compound and a second herbicidally active compound as effective ingredients.

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JUMBO APPLICATIONS / PATENTS

**THIS SECTION OF THE APPLICATION / PATENT CONTAINS MORE
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Specification

3-Phenoxy-4-pyridazinol derivatives and herbicidal composition containing the same

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[Technical field]

The present invention relates to a 3-phenoxy-4-pyridazinol compound, its salt, its ester derivative and agricultural chemical containing the same as an effective ingredient, and a herbicidal composition containing 3-phenoxy-4-pyridazinol compound and a second herbicidally active compound as effective ingredients.

10

[Background art]

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In Chemical Pharmaceutical Bulletin, 1972, vol. 20, No. 10, pp. 2191-2203, 3-(2-allylphenoxy)-6-chloro-4-methoxypyridazine has been disclosed but a 3-phenoxy-4-pyridazinol compound having a hydroxyl group at the 4-position of the pyridazine has not been disclosed, and there is no description about a herbicide.

20

In Journal of the Chemical Society: Perkin Transaction I, 1975, No. 6, pp. 534-538, 3-(2-hydroxyphenoxy)-4-methoxypyridazine and 6-chloro-3-(2-hydroxyphenoxy)-4-methoxypyridazine has been disclosed but a 3-phenoxy-4-pyridazinol compound having a hydroxyl group at the 4-position of the pyridazine has not been disclosed, and there is no description about a herbicide.

25

In U.S. Patent No. 5,559,080, a 3-(phenoxy which may be substituted)pyridazine compound having a haloalkylphenoxy group at the 4-position of the pyridazine has been disclosed but a 3-phenoxy-4-pyridazinol compound having a hydroxyl group at the 4-position of the pyridazine has not been disclosed. Also, in the 3-(phenoxy which may be substituted)pyridazine compound having a haloalkylphenoxy group at the 4-position of the pyridazine, an oxygen atom bonded to the 4-position of the pyridazine is bonded by a

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benzene ring, and its herbicidal activity was insufficient.

Also, at present, a number of herbicides have been practically used as a herbicide for a paddy field, and widely been used for general purpose as a single agent and
5 a mixed agent. However, there are many kinds of paddy field weeds, and germination and growth period of the respective weeds are not uniform, in particular, occurrence of perennial weeds ranges for a long period of time. Thus, it is extremely difficult to prevent from and kill all
10 weeds with one time spread of a herbicide. Accordingly, as a herbicide, an appearance of a chemical which can kill many kinds of weeds including annual weeds and perennial weeds, that is, which has a wide weed-killing spectrum, is effective for already grown weeds, preventing and killing
15 effects of weeds of which can be maintained for a certain period of time, and has high safety to paddy rice has earnestly been desired.

Also, as upland herbicides, a number of herbicides have now been commercially available and practically used,
20 but there are many kinds of weeds to be prevented, and occurrence thereof ranges for a long period of time, so that a herbicide which has higher herbicidal effects, has broad weed-killing spectrum, and causes no chemical damage to crops has been desired.

25 One of the effective ingredient of the herbicidal composition of the present invention (hereinafter referred to as a second herbicidally active compound), 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl-p-toluenesulfonate [hereinafter referred to as Compound A. General name:
30 Pyrazolate], 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone [hereinafter referred to as Compound B. General name: Pyrazoxyfen], 2-[4-(2,4-dichloro-m-toluoyl)-1,3-dimethylpyrazol-5-yloxy]-4'-methylacetophenone [hereinafter referred to as Compound C.
35 General name: Benzofenap], 5-cyclopropyl-1,2-oxazol-4-yl α,α,α -trifluoro-2-mesyl-p-tolyl ketone [hereinafter

referred to as Compound D. General name: Isoxaflutole], 2-(2-chloro-4-mesybenzoyl)cyclohexan-1,3-dione [hereinafter referred to as Compound E. General name: sulcotrione], 2-(4-mesyl-2-nitrobenzoyl)cyclohexan-1,3-dione [hereinafter
5 referred to as Compound F. General name: mesotrion] and 4-chloro-2-(methylsulfonyl)phenyl 5-cyclopropyl-4-isoxazolyl ketone [hereinafter referred to as Compound G. General name: Isoxachlortole] are each conventionally known herbicidal compound, and each described in The Pesticide Manual
10 11th Edition, pp. 1049 to 1050, Ibid. pp. 1054 to 1055, Ibid. pp. 111 to 112, The Pesticide Manual, 12th Edition p. 563, Ibid. p. 848, Ibid. p. 602 and EP 470 856(1990). These compounds have high effects against annual broad-leaved weeds and a part of perennial weeds, but their
15 effects against rice plant weeds or a part of perennial weeds are not necessarily sufficient.

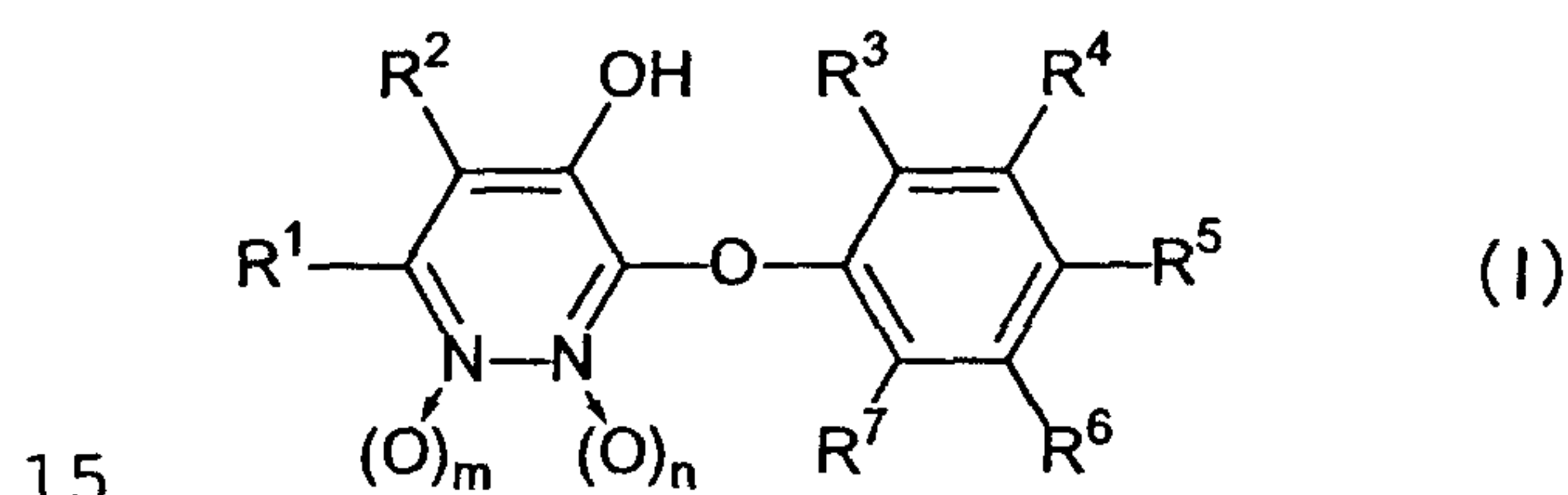
[Disclosure of the invention]

The present inventors have earnestly studied about pyridazine derivatives having a phenoxy group at the 3-
20 position thereof, and as a result, they have found that a compound having a hydroxyl group at the 4-position of the pyridazine ring shows substantially no chemical damage against paddy rice, and shows excellent herbicidal activity against a wide range of weeds in a paddy field with a low
25 dosage to accomplish the present invention. Moreover, they have found that similar herbicidal activities are possessed by an ester derivative thereof in which a bonding between an oxygen atom at the 4-position of the pyridazine ring and an acyl group is cleaved in a soil or in a plant body to be
30 converted into a compound in which a hydrogen atom binds to the oxygen atom, whereby accomplished the present invention.

Also, the present inventors have continued to search on a herbicide which can completely prevent and remove
35 various kinds of weeds with one time spread, has extremely high safety to paddy rice or upland crops, and has

extremely low toxicity against humans and animals for the purpose of overcoming the above-mentioned problems involved in the conventional herbicides such as second herbicidally active compounds A, B, C, D, E, F and G, and as a result, they have found that by formulating the above-mentioned 3-phenoxy-4-pyridazinol derivatives and the second herbicidally active compound as effective ingredients, a weed-killing spectrum can be enlarged, and serious weeds can be prevented and killed with a smaller amount of effective ingredients by their synergistic action, whereby accomplished the present invention.

The present invention relates to a compound represented by the formula:



[wherein R¹ represents a hydrogen atom, a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a C₂ to C₆ alkenyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a di(C₁ to C₆ alkyl)carbamoyl group, a phenyl group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a 5 or 6-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s).), a C₁ to C₆ alkoxy group, a phenoxy group which may be substituted (The substituent is a substituent selected from the following substituent Group A.) or a 5- or 6-membered heterocycloxy group which may be substituted (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is a substituent(s) selected from the group consisting of a

benzoyl group which may be substituted (The substituent is a substituent selected from the following substituent Group A.) and a C₁ to C₆ alkyl group.),

R² represents a hydrogen atom, a halogen atom, a C₁ to C₆ alkyl group, a (C₁ to C₆ alkoxy)C₁ to C₆ alkyl group, a benzoyl group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a C₂ to C₇ alkoxy-carbonyl group, a phenoxy group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a phenylthio group which may be substituted (The substituent is a substituent selected from the following substituent Group A.) or a tri(C₁ to C₆ alkyl)silyl group,

R³, R⁴, R⁵, R⁶ and R⁷ each independently represent a hydrogen atom, a halogen atom, a C₁ to C₆ alkyl group which may be substituted (The substituent is a substituent selected from the following substituent Group B.), a C₂ to C₆ alkenyl group which may be substituted (The substituent is a cyano group or a nitro group.), a C₂ to C₆ alkynyl group, a C₃ to C₆ cycloalkyl group which may be substituted (The substituent is a substituent selected from the following substituent Group C.), a C₄ to C₁₀ bicycloalkyl group, a cyano group, a formyl group, a C₂ to C₇ alkyl-carbonyl group, a benzoyl group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a carboxyl group, a C₂ to C₇ alkoxy-carbonyl group, a carbamoyl group, a di(C₁ to C₆ alkyl)-carbamoyl group, a phenyl group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a 3- to 6-membered heterocyclic group which may be substituted (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s), or may be fused with a benzene ring. The substituent is a substituent selected from the following substituent Group E.), an amino group which may be substi-

tuted (The substituent is a substituent selected from the following substituent Group D.), a nitro group, a hydroxyl group, a C₁ to C₆ alkoxy group, a C₁ to C₆ haloalkoxy group, a (C₁ to C₆ alkoxy)C₁ to C₆ alkoxy group, a phenoxy group which may be substituted (The substituent is a hydroxyl group or a pyridazinyloxy group substituted by a substituent(s) selected from the group consisting of a halogen atom and a C₁ to C₆ alkoxy group.), a 5- to 6-membered heterocycloxy group which may be substituted (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is a substituent selected from the following substituent Group E.), a phenylsulfonyloxy group which may be substituted (The substituent is a substituent selected from the following substituent Group A.), a C₁ to C₆ alkylthio group, a C₁ to C₆ alkylsulfinyl group, a C₁ to C₆ alkylsulfonyl group or a tri(C₁ to C₆ alkyl)silyl group, or R³, R⁴, R⁵, R⁶ and R⁷ may form a 3- to 6-membered cyclic hydrocarbon group which may be substituted, which is formed by the adjacent two of them with carbon atoms to which the respective substituents are bonded (the cyclic hydrocarbon may be interrupted by the same or different 1 to 2 hetero atom(s) selected from the group consisting of a nitrogen atom, an oxygen atom and a sulfur atom. The substituent is a halogen atom, a C₁ to C₆ alkyl group, a hydroxy-C₁ to C₆ alkyl group, a C₁ to C₆ alkoxy group, an oxo group, a hydroxyimino group or a C₁ to C₆ alkoxyimino group, and when the C₁ to C₆ alkyl group is substituted, it may form another 3-membered ring by combining with the other C₁ to C₆ alkyl group or a carbon atom(s) in the cyclic hydrocarbon.),

m and n each independently represent 0 or 1,

the substituent Group A is a group selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group and a tri(C₁ to C₆ alkyl)silyl group,

the substituent Group B is a group selected from the group consisting of a halogen atom, a C₃ to C₆ cycloalkyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a phenyl group, a C₁ to C₆ alkoxy group, a C₁ to C₆ alkylthio group, a C₁ to C₆ alkylsulfinyl group, a C₁ to C₆ alkylsulfonyl group, a C₁ to C₄ alkylenedioxy group, a hydroxyimino group and a C₁ to C₆ alkoxyimino group,

the substituent Group C is a group selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group which may be substituted (The substituent is a substituent selected from the above-mentioned substituent Group B.), a C₃ to C₆ cycloalkyl group, a C₂ to C₆ alkenyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a benzoyl group, a carboxyl group, a C₂ to C₇ alkoxy carbonyl group, a carbamoyl group, a di(C₁ to C₆ alkyl)carbamoyl group, a phenyl group which may be substituted (The substituent is a substituent selected from the above-mentioned substituent Group A.), a 5 or 6-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s).), an amino group which may be substituted (The substituent is a substituent selected from the following substituent Group D.), a nitro group, a hydroxyl group, a C₁ to C₆ alkoxy group, a C₁ to C₆ haloalkoxy group, a phenoxy group, a C₁ to C₆ alkylthio group, a phenylthio group, a C₁ to C₆ alkylsulfinyl group and a C₁ to C₆ alkylsulfonyl group,

the substituent Group D is a group selected from the group consisting of a C₁ to C₆ alkyl group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a di(C₁ to C₆ alkyl)carbamoyl group and a C₁ to C₆ alkylsulfonyl group,

the substituent Group E is a group selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a hydroxyl group, a phenylsul-

fonyl group which may be substituted (The substituent is a substituent selected from the above-mentioned substituent Group A.) and a di(C₁ to C₆ alkyl)sulfamoyl group.], its salt or its ester derivative,

5 an agricultural chemical containing the same as an effective ingredient, and,

a herbicidal composition containing one or more 3-phenoxy-4-pyridazinol derivatives selected from the group consisting of the above-mentioned compounds, their salt and their

10 ester derivatives, and one or more second herbicidally active compound selected from the group consisting of

4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl-p-toluenesulfonate, 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone, 2-[4-(2,4-dichloro-m-

15 toluoyl)-1,3-dimethylpyrazol-5-yloxy]-4'-methylacetophenone, 5-cyclopropyl-1,2-oxazol-4-yl α,α,α -trifluoro-2-mesyl-p-tolyl ketone, 2-(2-chloro-4-mesylbenzoyl)cyclohexan-1,3-dione, 2-(4-mesyl-2-nitrobenzoyl)cyclohexan-1,3-dione and 4-chloro-2-(methylsulfonyl)phenyl 5-cyclopropyl-

20 4-isoxazolyl ketone

as effective ingredients.

In the present invention, "a halogen atom" is a fluorine atom, a chlorine atom, a bromine atom or an iodine

25 atom, preferably a fluorine atom, a chlorine atom or a bromine atom, more preferably a chlorine atom or a bromine atom, still further preferably a chlorine atom.

In the present invention, the "C₁ to C₆ alkyl group" is a straight or branched alkyl group having 1 to 6 carbon

30 atoms, for example, it may be methyl, ethyl, propyl, isopropyl, butyl, isobutyl, s-butyl, t-butyl, pentyl, isopentyl, 2-methylbutyl, neopentyl, 1-ethylpropyl, hexyl, 4-methylpentyl, 3-methylpentyl, 2-methylpentyl, 1-methyl-

35 pentyl, 3,3-dimethylbutyl, 2,2-dimethylbutyl, 1,1-dimethylbutyl, 1,2-dimethylbutyl, 1,3-dimethylbutyl, 2,3-dimethyl-

butyl or 2-ethylbutyl group, preferably a straight or branched alkyl group having 1 to 4 carbon atoms (a C₁ to C₄ alkyl group), more preferably a straight or branched alkyl group having 1 to 3 carbon atoms (a C₁ to C₃ alkyl group),
5 still further preferably an alkyl group having 1 to 2 carbon atoms (a C₁ to C₂ alkyl group), particularly preferably a methyl group.

In the present invention, the "C₁ to C₆ haloalkyl group" is the "C₁ to C₆ alkyl group" to which the same or
10 different above-mentioned 1 to 5 "a halogen atom(s)" is/are substituted, and for example, it may be chloromethyl, dichloromethyl, trichloromethyl, 1-chloroethyl, 2-chloroethyl, 2,2,2-trichloroethyl, 1-chloropropyl, 3-
15 chloropropyl, 1-chlorobutyl, 4-chlorobutyl, fluoromethyl, difluoromethyl, trifluoromethyl, 1-fluoroethyl, 2-fluoroethyl, 2,2,2-trifluoroethyl, pentafluoroethyl, fluoro-chloromethyl, bromomethyl, 1-bromoethyl, 2-bromoethyl or iodomethyl group, preferably a C₁ to C₃ alkyl group
20 substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom, more preferably a C₁ to C₂ alkyl group substituted by the same 1 to 3 fluorine atom(s) or chlorine atom(s), still further preferably a
25 fluoromethyl, difluoromethyl, trifluoromethyl or 2,2,2-trichloroethyl group, particularly preferably a trifluoromethyl group.

In the present invention, the "C₃ to C₆ cycloalkyl group" is a cyclopropyl, cyclobutyl, cyclopentyl or
30 cyclohexyl group, preferably cyclopropyl or cyclobutyl group, more preferably cyclopropyl group.

In the present invention, the "C₂ to C₆ alkenyl group" is a straight or branched alkenyl group having 2 to
35 6 carbon atoms, for example, it may be vinyl, 1-methylvinyl, 1-propenyl, 1-methyl-1-propenyl, 2-propenyl, 1-

5 methyl-2-propenyl, 2-methyl-2-propenyl, 2-ethyl-2-propenyl, 2-butenyl, 1-methyl-2-butenyl, 2-methyl-2-butenyl, 1-ethyl-2-butenyl, 3-butenyl, 1-methyl-3-butenyl, 2-methyl-3-butenyl, 1-ethyl-3-butenyl, 2-pentenyl, 1-methyl-2-pentenyl, 2-methyl-2-pentenyl, 3-pentenyl, 1-methyl-3-pentenyl, 2-methyl-3-pentenyl, 4-pentenyl, 1-methyl-4-pentenyl, 2-methyl-4-pentenyl, 2-hexenyl, 3-hexenyl, 4-hexenyl or 5-hexenyl group, preferably a straight or branched alkenyl group having 2 to 4 carbon atoms (a C₂ to C₄ alkenyl group), more preferably a vinyl, 1-methylvinyl, 2-propenyl or 1-methyl-2-propenyl group.

15 In the present invention, the "C₂ to C₇ alkylcarbonyl group" is a carbonyl group to which the above-mentioned "C₁ to C₆ alkyl group" is bonded, and for example, it may be an acetyl, propionyl, butyryl, isobutyryl, valeryl, isovaleryl, pivaloyl, hexanoyl or heptanoyl group, preferably a carbonyl group to which a straight or branched alkyl group having 1 to 4 carbon atoms is bonded (a C₂ to C₅ alkylcarbonyl group), still further preferably a carbonyl group to which a straight or branched alkyl group having 1 to 3 carbon atoms is bonded (a C₂ to C₄ alkylcarbonyl group), particularly preferably an acetyl, propionyl, valeryl or pivaloyl group, most preferably an acetyl group.

25

30 In the present invention, the "di(C₁ to C₆ alkyl)-carbamoyl group" is a carbamoyl group in which the same or different two above-mentioned "C₁ to C₆ alkyl groups" are bonded to a nitrogen atom, and for example, it may be a dimethylcarbamoyl, methylethylcarbamoyl, diethylcarbamoyl, dipropylcarbamoyl, dibutylcarbamoyl or dihexylcarbamoyl group, preferably a carbamoyl group in which the same two straight or branched alkyl groups having 1 to 3 carbon atoms are bonded {a di(C₁ to C₃ alkyl)carbamoyl group}, 35 more preferably a dimethylcarbamoyl group or a diethylcarbamoyl group, still further preferably a dimethyl-

carbamoyl group.

In the present invention, the "tri(C₁ to C₆ alkyl)-silyl group" is a silicon atom to which the same or
5 different three above-mentioned "C₁ to C₆ alkyl groups" are bonded, and for example, it may be a trimethylsilyl, triethylsilyl, triisopropylsilyl, dimethylisopropylsilyl, t-butyl dimethylsilyl or trihexylsilyl group, preferably a silicon atom to which the same or different three straight
10 or branched alkyl groups having 1 to 3 carbon atoms are bonded {a tri(C₁ to C₃ alkyl)silyl group}, more preferably a trimethylsilyl or dimethylisopropylsilyl group, still further preferably a trimethylsilyl group.

15 In the present invention, "a phenyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a phenyl group which may be substituted by the same or different 1 to 5 substituent(s) selected from the group consisting of the above-
20 mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)-silyl group", and for example, it may be a phenyl, fluoro-
25 phenyl, difluorophenyl, trifluorophenyl, chlorophenyl, dichlorophenyl, trichlorophenyl, fluorochlorophenyl, methylphenyl, dimethylphenyl, trimethylphenyl, tetramethylphenyl, pentamethylphenyl, ethylphenyl, fluoro-(methyl)phenyl, chloro(methyl)phenyl, bromo(methyl)phenyl,
30 cyclopropylphenyl, cyclopropyl(fluoro)phenyl, chloro(cyclopropyl)phenyl, cyclopropyl(methyl)phenyl, (trifluoromethyl)phenyl or fluoro(trifluoromethyl)phenyl group, preferably a phenyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the
35 group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl

group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, more preferably a phenyl, chlorophenyl, methylphenyl, trifluorophenyl or cyanophenyl group.

In the present invention, the "5 or 6-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s).)" is a 5- to 6-membered heterocyclic group which contains one nitrogen atom, oxygen atom or sulfur atom as a hetero atom and may further contain 1 to 2 nitrogen atom(s), and for example, it may be a furyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, preferably a 5-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring.), more preferably a furyl or thienyl group.

In the present invention, the "C₁ to C₆ alkoxy group" is a straight or branched alkoxy group having 1 to 6 carbon atoms, and for example, it may be a methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, s-butoxy, t-butoxy, pentoxy, isopentoxy, 2-methylbutoxy, neopentoxy, 1-ethylpropoxy, hexyloxy, 4-methylpentoxy, 3-methylpentoxy, 2-methylpentoxy, 1-methylpentoxy, 3,3-dimethylbutoxy, 2,2-dimethylbutoxy, 1,1-dimethylbutoxy, 1,2-dimethylbutoxy, 1,3-dimethylbutoxy, 2,3-dimethylbutoxy or 2-ethylbutoxy group, preferably a straight or branched alkoxy group having 1 to 3 carbon atoms (a C₁ to C₃ alkoxy group), more preferably a methoxy or ethoxy group, still further preferably a methoxy group.

In the present invention, the "phenoxy group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a phenoxy group which may be substituted by the same or different 1 to 5
5 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)-
10 silyl group", and for example, it may be a phenoxy, fluorophenoxy, difluorophenoxy, trifluorophenoxy, chlorophenoxy, dichlorophenoxy, trichlorophenoxy, fluorochlorophenoxy, methylphenoxy, dimethylphenoxy, trimethylphenoxy, tetramethylphenoxy, pentamethylphenoxy, ethylphenoxy,
15 fluoro(methyl)phenoxy, chloro(methyl)phenoxy, bromo(methyl)phenoxy, cyclopropylphenoxy, cyclopropyl(fluoro)-phenoxy, chloro(cyclopropyl)phenoxy, cyclopropyl(methyl)-phenoxy, (trifluoromethyl)phenoxy or fluoro(trifluoromethyl)phenoxy group, preferably a phenoxy group which may
20 be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group substituted by the same or different 1 to 3 substituent(s) selected from the group
25 consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, more preferably a phenoxy, chlorophenoxy, methylphenoxy, trifluorophenoxy or cyanophenoxy group.

30

In the present invention, "a benzoyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a benzoyl group which may be substituted by the same or different 1 to 5
35 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to

C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)-silyl group", and for example, it may be a benzoyl, 5 fluorobenzoyl, difluorobenzoyl, trifluorobenzoyl, chlorobenzoyl, dichlorobenzoyl, trichlorobenzoyl, fluorochlorobenzoyl, methylbenzoyl, dimethylbenzoyl, trimethylbenzoyl, tetramethylbenzoyl, pentamethylbenzoyl, ethylbenzoyl, fluoro(methyl)benzoyl, chloro(methyl)benzoyl, bromo- 10 (methyl)benzoyl, cyclopropylbenzoyl, cyclopropyl(fluoro)-benzoyl, chloro(cyclopropyl)benzoyl, cyclopropyl(methyl)-benzoyl, (trifluoromethyl)benzoyl or fluoro(trifluoromethyl)benzoyl group, preferably a benzoyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom 15 and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, more preferably a benzoyl, chlorobenzoyl, dichlorobenzoyl, methylbenzoyl, trifluorobenzoyl or cyanobenzoyl group.

25 In the present invention, "the 5- or 6-membered heterocycloxy group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s)}. The substituent may be substituted by a 30 substituent(s) selected from the group consisting of a benzoyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.) and a C₁ to C₆ alkyl group.}" is "a 5- to 6-membered heterocycloxy group which contains one nitrogen atom, 35 oxygen atom or sulfur atom as a hetero atom, and may contain further 1 or 2 nitrogen atom(s)" which may be

substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of the above-mentioned "a benzoyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" and the above-mentioned "C₁ to C₆ alkyl group", preferably a benzoyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, and "a 5-membered heterocycloxy group which contains one nitrogen atom, oxygen atom or sulfur atom as a hetero atom, and which may contain further one nitrogen atom" substituted by the same two C₁ to C₃ alkyl groups, more preferably a benzoyl group substituted by two chlorine atoms and a pyrazolyloxy group substituted by two C₁ to C₂ alkyl groups.

In the present invention, "the (C₁ to C₆ alkoxy)-C₁ to C₆ alkyl group" is the above-mentioned "C₁ to C₆ alkyl group" substituted by one of the above-mentioned "C₁ to C₆ alkoxy groups", and for example, it may be a methoxymethyl, ethoxymethyl, propoxymethyl, butoxymethyl, s-butoxymethyl, t-butoxymethyl, pentyloxymethyl, hexyloxymethyl, methoxyethyl, ethoxyethyl, propoxyethyl, butoxyethyl, methoxypropyl, methoxybutyl, methoxypentyl or methoxyhexyl group, preferably a C₁ to C₆ alkyl group substituted by one C₁ to C₃ alkoxy group, more preferably a methoxyethyl, ethoxyethyl or ethoxymethyl group.

In the present invention, "C₂ to C₇ alkoxy carbonyl group" is a carbonyl group to which the above-mentioned "C₁ to C₆ alkoxy group" is bonded, and for example, it may be a

methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, isopropoxycarbonyl, butoxycarbonyl, isobutoxycarbonyl, s-butoxycarbonyl, t-butoxycarbonyl, pentoxycarbonyl, isopentoxycarbonyl, 2-methylbutoxycarbonyl, neopentoxycarbonyl, 1-ethylpropoxycarbonyl, hexyloxycarbonyl, 4-methylpentoxycarbonyl, 3-methylpentoxycarbonyl, 2-methylpentoxycarbonyl, 1-methylpentoxycarbonyl, 3,3-dimethylbutoxycarbonyl, 2,2-dimethylbutoxycarbonyl, 1,1-dimethylbutoxycarbonyl, 1,2-dimethylbutoxycarbonyl, 1,3-dimethylbutoxycarbonyl, 2,3-dimethylbutoxycarbonyl or 2-ethylbutoxycarbonyl group, preferably a carbonyl group to which a C₁ to C₃ alkoxy group is bonded (a C₂ to C₄ alkoxycarbonyl group), more preferably a methoxycarbonyl or ethoxycarbonyl group, still further preferably a methoxycarbonyl group.

15

In the present invention, "the phenylthio group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a phenylthio group which may be substituted by the same or different 1 to 5 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)-silyl group", and for example, it may be a phenylthio, fluorophenylthio, difluorophenylthio, trifluorophenylthio, chlorophenylthio, dichlorophenylthio, trichlorophenylthio, fluoro-chlorophenylthio, methylphenylthio, dimethylphenylthio, trimethylphenylthio, tetramethylphenylthio, penta-methylphenylthio, ethylphenylthio, fluoro(methyl)phenylthio, chloro(methyl)phenylthio, bromo(methyl)phenylthio, cyclopropylphenylthio, cyclopropyl(fluoro)phenylthio, chloro(cyclopropyl)phenylthio, cyclopropyl(methyl)phenylthio, (trifluoromethyl)phenylthio or fluoro(trifluoro-methyl)phenylthio group, preferably a phenylthio group which may be substituted by the same or different 1 to 3

substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group which is substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, more preferably a phenylthio, chlorophenylthio, methylphenylthio, trifluorophenylthio or cyanophenylthio group.

10

In the present invention, "the C₁ to C₆ alkylthio group" is a straight or branched alkylthio group having 1 to 6 carbon atoms, and for example, it may be a methylthio, ethylthio, propylthio, isopropylthio, butylthio, isobutylthio, s-butylthio, t-butylthio, pentylthio, isopentylthio, 2-methylbutylthio, neopentylthio, 1-ethylpropylthio, hexylthio, 4-methylpentylthio, 3-methylpentylthio, 2-methylpentylthio, 1-methylpentylthio, 3,3-dimethylbutylthio, 2,2-dimethylbutylthio, 1,1-dimethylbutylthio, 1,2-dimethylbutylthio, 1,3-dimethylbutylthio, 2,3-dimethylbutylthio or 2-ethylbutylthio group, preferably a straight or branched alkylthio group having 1 to 3 carbon atoms (a C₁ to C₃ alkylthio group), more preferably a methylthio or ethylthio group, still further preferably a methylthio group.

25

In the present invention, "the C₁ to C₆ alkylsulfinyl group" is a straight or branched alkylsulfinyl group having 1 to 6 carbon atoms, and for example, it may be a methylsulfinyl, ethylsulfinyl, propylsulfinyl, isopropylsulfinyl, butylsulfinyl, isobutylsulfinyl, s-butylsulfinyl, t-butylsulfinyl, pentylsulfinyl, isopentylsulfinyl, 2-methylbutylsulfinyl, neopentylsulfinyl, 1-ethylpropylsulfinyl, hexylsulfinyl, 4-methylpentylsulfinyl, 3-methylpentylsulfinyl, 2-methylpentylsulfinyl, 1-methylpentylsulfinyl, 3,3-dimethylbutylsulfinyl, 2,2-dimethylbutylsulfinyl, 1,1-

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dimethylbutylsulfinyl, 1,2-dimethylbutylsulfinyl, 1,3-dimethylbutylsulfinyl, 2,3-dimethylbutylsulfinyl or 2-ethylbutylsulfinyl group, preferably a straight or branched alkylsulfinyl group having 1 to 3 carbon atoms (a C₁ to C₃ alkylsulfinyl group), more preferably a methylsulfinyl or ethylsulfinyl group, still further preferably a methylsulfinyl group.

In the present invention, "the C₁ to C₆ alkylsulfonyl group" is a straight or branched alkylsulfonyl group having 1 to 6 carbon atoms, and for example, it may be a methylsulfonyl, ethylsulfonyl, propylsulfonyl, isopropylsulfonyl, butylsulfonyl, isobutylsulfonyl, s-butylsulfonyl, t-butylsulfonyl, pentylsulfonyl, isopentylsulfonyl, 2-methylbutylsulfonyl, neopentylsulfonyl, 1-ethylpropylsulfonyl, hexylsulfonyl, 4-methylpentylsulfonyl, 3-methylpentylsulfonyl, 2-methylpentylsulfonyl, 1-methylpentylsulfonyl, 3,3-dimethylbutylsulfonyl, 2,2-dimethylbutylsulfonyl, 1,1-dimethylbutylsulfonyl, 1,2-dimethylbutylsulfonyl, 1,3-dimethylbutylsulfonyl, 2,3-dimethylbutylsulfonyl or 2-ethylbutylsulfonyl group, preferably a straight or branched alkylsulfonyl group having 1 to 3 carbon atoms (a C₁ to C₃ alkylsulfonyl group), more preferably a methylsulfonyl or ethylsulfonyl group, still further preferably a methylsulfonyl group.

In the present invention, "the C₁ to C₄ alkylenedioxy group" is a straight or branched alkylenedioxy group having 1 to 4 carbon atoms, and for example, it may be a methylenedioxy, ethylenedioxy, propylenedioxy, trimethylenedioxy or tetramethylenedioxy group, preferably an alkylenedioxy group having 1 to 2 carbon atoms, more preferably a 1,2-ethylenedioxy group.

In the present invention, "the C₁ to C₆ alkoxyimino group" is a straight or branched alkoxyimino group having 1 to 6 carbon atoms, and for example, it may be a methoxy-

imino, ethoxyimino, propoxyimino, isopropoxyimino, butoxyimino, isobutoxyimino, s-butoxyimino, t-butoxyimino, pentoxyimino, isopentoxyimino, 2-methylbutoxyimino, neopentoxyimino, 1-ethylpropoxyimino, hexyloxyimino, 4-methylpentoxyimino, 3-methylpentoxyimino, 2-methylpentoxyimino, 1-methylpentoxyimino, 3,3-dimethylbutoxyimino, 2,2-dimethylbutoxyimino, 1,1-dimethylbutoxyimino, 1,2-dimethylbutoxyimino, 1,3-dimethylbutoxyimino, 2,3-dimethylbutoxyimino or 2-ethylbutoxyimino group, preferably a straight or branched alkoxyimino group having 1 to 3 carbon atoms (a C₁ to C₃ alkoxyimino group), more preferably a methoxyimino or ethoxyimino group, still further preferably a methoxyimino group.

15 In the present invention, "the C₁ to C₆ alkyl group which may be substituted (The substituent is a substituent selected from the substituent Group B.)" is the above-mentioned "C₁ to C₆ alkyl group" which may be substituted by the above-mentioned "a halogen atom", or by the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group, the above-mentioned "C₂ to C₇ alkylcarbonyl group", the above-mentioned "C₂ to C₇ alkoxy carbonyl group", a phenyl group, the above-mentioned "C₁ to C₆ alkoxy group", the above-mentioned "C₁ to C₆ alkylthio group", the above-mentioned "C₁ to C₆ alkylsulfinyl group", the above-mentioned "C₁ to C₆ alkylsulfonyl group", the above-mentioned "C₁ to C₄ alkylenedioxy group", a hydroxyimino group or the above-mentioned "C₁ to C₆ alkoxyimino group", and for example, it may be a fluoromethyl, difluoromethyl, trifluoromethyl, 2,2,2-trichloroethyl, cyclopropylmethyl, cyanomethyl, acetylmethyl, acetylethyl, methoxycarbonylmethyl, methoxycarbonylethyl, ethoxycarbonylmethyl, ethoxycarbonylethyl, benzyl, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, methylthiomethyl, methylthioethyl, ethylthiomethyl, ethylthioethyl, methylsulfinylmethyl, methylsulfonylmethyl, 2-(1,3-dioxolanyl), hydroxyiminomethyl or methoxyimino-

5 methyl group, preferably a C₁ to C₃ alkyl group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom, or a C₁ to C₃ alkyl group which
10 may be substituted by a C₃ to C₄ cycloalkyl group, a cyano group, a C₂ to C₄ alkylcarbonyl group, a C₂ to C₄ alkoxy-carbonyl group, a phenyl group, a C₁ to C₃ alkoxy group, a C₁ to C₃ alkylthio group, a C₁ to C₃ alkylsulfinyl group, a C₁ to C₃ alkylsulfonyl group, a C₁ to C₂ alkylenedioxy
15 group, a hydroxyimino group or a C₁ to C₃ alkoxyimino group, more preferably a C₁ to C₂ alkyl group substituted by the same 1 to 3 fluorine atom(s) or chlorine atom(s), or a C₁ to C₂ alkyl group which may be substituted by a cyclopropyl group, a cyano group, a C₂ to C₃ alkylcarbonyl
20 group, a C₂ to C₃ alkoxy carbonyl group, a phenyl group, a C₁ to C₂ alkoxy group, a C₁ to C₂ alkylthio group, a C₁ to C₂ alkylsulfinyl group, a C₁ to C₂ alkylsulfonyl group, an ethylenedioxy group, a hydroxyimino group or a C₁ to C₂ alkoxyimino group.

20

In the present invention, "the substituted C₂ to C₆ alkenyl group (The substituent is a cyano group or a nitro group.)" is the above-mentioned "C₂ to C₆ alkenyl group" substituted by a cyano group or a nitro group, preferably a
25 C₂ to C₃ alkenyl group substituted by a cyano group or a nitro group, more preferably a cyanovinyl or nitrovinyl group.

In the present invention, "the C₂ to C₆ alkynyl
30 group" is a straight or branched alkynyl group having 2 to 6 carbon atoms, and for example, it may be ethynyl, 2-propynyl, 1-methyl-2-propynyl, 1-ethyl-2-propynyl, 2-butynyl, 1-methyl-2-butynyl, 1-ethyl-2-butynyl, 3-butynyl, 1-methyl-3-butynyl, 2-methyl-3-butynyl, 1-ethyl-3-butynyl,
35 2-pentynyl, 1-methyl-2-pentynyl, 1-ethyl-2-pentynyl, 3-pentynyl, 1-methyl-3-pentynyl, 2-methyl-3-pentynyl, 4-

pentynyl, 1-methyl-4-pentynyl, 2-methyl-4-pentynyl, 2-hexynyl, 3-hexynyl, 4-hexynyl or 5-hexynyl, preferably a straight or branched alkynyl group having 3 to 4 carbon atoms (a C₃ to C₄ alkynyl group), more preferably an ethynyl, 1-propynyl or 2-propynyl group.

In the present invention, "the amino group which may be substituted (The substituent is a substituent selected from the substituent Group D.)" is an amino group which may be substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₂ to C₇ alkylcarbonyl group", the above-mentioned "C₂ to C₇ alkoxy carbonyl group", the above-mentioned "di(C₁ to C₆ alkyl)carbonyl group" and the above-mentioned "C₁ to C₆ alkylsulfonyl group", and for example, it may be an amino, methylamino, ethylamino, propylamino, isopropylamino, butylamino, isobutylamino, s-butylamino, t-butylamino, pentylamino, isopentylamino, (2-methylbutyl)amino, neopentylamino, (1-ethylpropyl)amino, hexylamino, (4-methylpentyl)amino, (3-methylpentyl)amino, (2-methylpentyl)amino, (1-methylpentyl)amino, (3,3-dimethylbutyl)amino, (2,2-dimethylbutyl)amino, (1,1-dimethylbutyl)amino, (1,2-dimethylbutyl)amino, (1,3-dimethylbutyl)amino, (2,3-dimethylbutyl)amino, (2-ethylbutyl)amino, dimethylamino, (methyl)(ethyl)amino, diethylamino, dipropylamino, (methyl)(isopropyl)amino, di(isopropyl)amino, dibutylamino, di(isobutyl)amino, di(s-butyl)amino, di(t-butyl)amino, dipentylamino, diisopentylamino, di(2-methylbutyl)amino, dineopentylamino, di(1-ethylpropyl)amino, dihexylamino, di(4-methylpentyl)amino, di(3-methylpentyl)amino, di(2-methylpentyl)amino, di(1-methylpentyl)amino, di(3,3-dimethylbutyl)amino, di(2,2-dimethylbutyl)amino, di(1,1-dimethylbutyl)amino, di(1,2-dimethylbutyl)amino, di(1,3-dimethylbutyl)amino, di(2,3-dimethylbutyl)amino, di(2-ethylbutyl)amino,

acetylamino, propionylamino, butanoylamino, (2-methylpropanoyl)amino, pentanoylamino, (2,2-dimethylpropanoyl)amino, (2,2-dimethylpentanoyl)amino, (2-methylbutanoyl)amino, (3-methylbutanoyl)amino, 5 hexanoylamino, heptanoyl amino, (3,3-dimethylbutanoyl)amino, methoxycarbonylamino, ethoxycarbonylamino, propoxycarbonylamino, isopropoxycarbonylamino, butoxycarbonylamino, isobutoxycarbonylamino, s-butoxycarbonylamino, t-butoxycarbonylamino, 10 pentoxycarbonylamino, isopentoxycarbonylamino, (2-methylbutoxycarbonyl)amino, neopentoxycarbonylamino, (1-ethylpropoxycarbonyl)amino, hexyloxycarbonylamino, (4-methylpentoxycarbonyl)amino, (3-methylpentoxycarbonyl)amino, (2-methylpentoxycarbonyl)amino, (1-methylpentoxycarbonyl)amino, (3,3-dimethylbutoxycarbonyl)- 15 amino, (2,2-dimethylbutoxycarbonyl)amino, (1,1-dimethylbutoxycarbonyl)amino, (1,2-dimethylbutoxycarbonyl)amino, (1,3-dimethylbutoxycarbonyl)amino, (2,3-dimethylbutoxycarbonyl)amino, (2-ethylbutoxycarbonyl)amino, dimethylcarbamoylelamino, (methylethylcarbamoylel)amino, diethylcarbamoylelamino, dipropylcarbamoylelamino, dibutylcarbamoylel- 20 amino, dihexylcarbamoylelamino, methylsulfonylamino, ethylsulfonylamino, propylsulfonylamino, isopropylsulfonylamino, butylsulfonylamino, t-butylsulfonylamino or hexylsulfonyl- 25 amino, preferably an amino group which may be substituted by the same or different 1 to 2 C₁ to C₃ alkyl groups, or a C₂ to C₄ alkylcarbonyl group, a C₂ to C₄ alkoxy carbonyl group, a di(C₁ to C₃ alkyl)carbamoylel group or a C₁ to C₃ alkylsulfonyl group, more preferably an methylamino, 30 ethylamino, dimethylamino, diethylamino, acetylamino, propionylamino, (2-methylpropanoyl)amino, (2,2-dimethylpropanoyl)amino, methoxycarbonylamino, ethoxycarbonylamino, dimethylcarbamoylelamino, diethylcarbamoylelamino, methylsulfonylamino or 35 ethylsulfonylamino group.

In the present invention, "the C₁ to C₆ haloalkoxy

group" is the above-mentioned "C₁ to C₆ alkoxy group" substituted by the same or different 1 to 5 above-mentioned "halogen atoms", and for example, it may be a chloromethoxy, dichloromethoxy, trichloromethoxy, 1-chloroethoxy, 2-chloroethoxy, 2,2,2-trichloroethoxy, 1-chloropropoxy, 3-chloropropoxy, 1-chlorobutoxy, 4-chlorobutoxy, fluoromethoxy, difluoromethoxy, trifluoromethoxy, 1-fluoroethoxy, 2-fluoroethoxy, 2,2,2-trifluoroethoxy, pentafluoroethoxy, fluoro-chloromethoxy, bromomethoxy, 1-bromoethoxy, 2-bromoethoxy or iodomethoxy group, preferably a C₁ to C₃ alkoxy group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom, more preferably a C₁ to C₂ alkoxy group substituted by the same 1 to 3 fluorine atom(s) or chlorine atom(s), still further preferably a fluoromethoxy, difluoromethoxy, trifluoromethoxy or 2,2,2-trichloroethoxy group, particularly preferably a trifluoromethoxy group.

20 In the present invention, "the substituted C₃ to C₆ cycloalkyl group (The substituent is a substituent selected from the substituent Group C.)" is the above-mentioned "C₃ to C₆ cycloalkyl group" substituted by the same or different 1 to 5 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group which may be substituted (The substituent is a substituent selected from the substituent Group B.)", the above-mentioned "C₃ to C₆ cycloalkyl group", the above-mentioned "C₂ to C₆ alkenyl group", a cyano group, the above-mentioned "C₂ to C₇ alkylcarbonyl group", a benzoyl group, a carboxyl group, the above-mentioned "C₂ to C₇ alkoxy-carbonyl group", a carbamoyl group, the above-mentioned "di(C₁ to C₆ alkyl)-carbamoyl group", the above-mentioned "phenyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)", the above-

mentioned "5 or 6-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s).)", the above-mentioned "amino group which
5 may be substituted (The substituent is a substituent selected from the substituent Group D.)", a nitro group, a hydroxyl group, the above-mentioned "C₁ to C₆ alkoxy group", the above-mentioned "C₁ to C₆ haloalkoxy group", a phenoxy group, the above-mentioned "C₁ to C₆ alkylthio
10 group", a phenylthio group, the above-mentioned "C₁ to C₆ alkylsulfinyl group" and the above-mentioned "C₁ to C₆ alkylsulfonyl group", and for example, it may be a fluorocyclopropyl, difluorocyclopropyl, chlorocyclopropyl, dichlorocyclopropyl, bromocyclopropyl, dibromocyclopropyl,
15 iodocyclopropyl, methylcyclopropyl, ethylcyclopropyl, propylcyclopropyl, isopropylcyclopropyl, butylcyclopropyl, t-butylcyclopropyl, hexylcyclopropyl, cyclopropylcyclopropyl, cyclobutylcyclopropyl, cyclopentylcyclopropyl, (fluoromethyl)cyclopropyl, (chloromethyl)cyclopropyl,
20 (bromomethyl)cyclopropyl, (difluoromethyl)cyclopropyl, (trifluoromethyl)cyclopropyl, (trichloromethyl)cyclopropyl, (2,2,2-trifluoroethyl)cyclopropyl, (2,2,2-trichloroethyl)-cyclopropyl, vinylcyclopropyl, (methoxymethyl)cyclopropyl, (ethoxymethyl)cyclopropyl, (isopropoxymethyl)cyclopropyl,
25 (methylthiomethyl)cyclopropyl, (ethylthiomethyl)cyclopropyl, (isopropylthiomethyl)cyclopropyl, (methylsulfinylmethyl)cyclopropyl, (ethylsulfinylmethyl)cyclopropyl, (methylsulfonylmethyl)cyclopropyl, (ethylsulfonylmethyl)-cyclopropyl, cyanocyclopropyl, (1-methoxyiminoethyl)-
30 cyclopropyl, acetylcyclopropyl, propionylcyclopropyl, benzoylcyclopropyl, carboxylcyclopropyl, methoxycarbonylcyclopropyl, ethoxycarbonylcyclopropyl, carbamoylcyclopropyl, (dimethylcarbamoyl)cyclopropyl, (diethylcarbamoyl)-cyclopropyl, phenylcyclopropyl, (fluorophenyl)cyclopropyl,
35 (chlorophenyl)cyclopropyl, tolylcyclopropyl, furylcyclopropyl, thienylcyclopropyl, pyridylcyclopropyl, amino-

cyclopropyl, (methylamino)cyclopropyl, (dimethylamino)-
cyclopropyl, (acetylamino)cyclopropyl, (methoxycarbonyl-
amino)cyclopropyl, (3,3-dimethylureido)cyclopropyl,
(methylsulfonylamino)cyclopropyl, nitrocyclopropyl,
5 hydroxycyclopropyl, methoxycyclopropyl, ethoxycyclopropyl,
(trifluoromethoxy)cyclopropyl, phenoxycyclopropyl, methyl-
thiocyclopropyl, ethylthiocyclopropyl, phenylthiocyclo-
propyl, methylsulfinylcyclopropyl, ethylsulfinylcyclo-
propyl, methylsulfonylcyclopropyl, ethylsulfonylcyclo-
10 propyl, dimethylcyclopropyl, methyl(ethyl)cyclopropyl,
diethylcyclopropyl, biscyanocyclopropyl, trimethylcyclo-
propyl, tetramethylcyclopropyl, pentamethylcyclopropyl,
methylcyclobutyl, vinylcyclobutyl, cyanocyclobutyl,
carboxylcyclobutyl, acetylcyclobutyl, methoxycarbonyl-
15 cyclobutyl or aminocyclobutyl group, preferably a C₃ to C₄
cycloalkyl group substituted by the same or different 1 to
5 substituent(s) selected from the group consisting of a
fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃
alkyl group, a C₃ to C₄ cycloalkyl group and a cyano group,
20 or substituted by "a C₁ to C₃ alkyl group substituted by
the same or different 1 to 3 substituent(s) selected from
the group consisting of a fluorine atom, a chlorine atom
and a bromine atom, or a C₁ to C₃ alkyl group substituted
by a C₃ to C₄ cycloalkyl group, a cyano group, a C₂ to C₄
25 alkylcarbonyl group, a C₂ to C₄ alkoxycarbonyl group, a
phenyl group, a C₁ to C₃ alkoxy group, a C₁ to C₃ alkylthio
group, a C₁ to C₃ alkylsulfinyl group, a C₁ to C₃ alkyl-
sulfonyl group, a C₁ to C₂ alkylenedioxy group, an imino
group or a C₁ to C₃ alkoxyimino group", a C₂ to C₄ alkenyl
30 group, a C₂ to C₄ alkylcarbonyl group, a benzoyl group, a
carboxyl group, a C₂ to C₄ alkoxycarbonyl group, a
carbamoyl group, a di(C₁ to C₃ alkyl)carbamoyl group, "a
phenyl group which may be substituted by the same or
different 1 to 3 substituent(s) selected from the group
35 consisting of a fluorine atom, a chlorine atom, a bromine
atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group

substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group",
5 a 5-membered heterocyclic group (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring.), "an amino group which may be substituted by the same or different 1 to 2 C₁ to C₃ alkyl group, or by a C₂ to C₄ alkylcarbonyl group, a C₂ to C₄ alkoxy carbonyl group, a
10 di(C₁ to C₃ alkyl)carbamoyl group or a C₁ to C₃ alkylsulfon-yl group", a nitro group, a hydroxyl group, a C₁ to C₃ alkoxy group, a C₁ to C₃ haloalkoxy group, a phenoxy group, a C₁ to C₃ alkylthio group, a phenylthio group, a C₁ to C₃ alkylsulfinyl group or a C₁ to C₃ alkylsulfonyl group, more
15 preferably a cyclopropyl group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a chlorine atom, a bromine atom, a C₁ to C₂ alkyl group, cyclopropyl group and a cyano group, or by "a C₁ to C₂ alkyl group substituted by a C₁ to C₂ alkyl group
20 which is substituted by the same 1 to 3 substituent(s) selected from the group consisting of a chlorine atom and a bromine atom, or substituted by a cyclopropyl group, a cyano group, a C₂ to C₃ alkylcarbonyl group, a C₂ to C₃ alkoxy carbonyl group, a phenyl group, a C₁ to C₂ alkoxy
25 group, a C₁ to C₂ alkylthio group, a C₁ to C₂ alkylsulfinyl group, a C₁ to C₂ alkylsulfonyl group, a 1,2-ethylenedioxy group, an imino group or a C₁ to C₂ alkoxyimino group", a C₂ to C₃ alkenyl group, a C₂ to C₃ alkylcarbonyl group, a benzoyl group, a carboxyl group, a C₂ to C₃ alkoxy carbonyl
30 group, a carbamoyl group, a di(C₁ to C₂ alkyl)carbamoyl group, "a phenyl group which may be substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of a chlorine atom, a bromine atom, a C₁ to C₂ alkyl group, "a C₁ to C₂ alkyl group substituted by the
35 same 1 to 3 fluorine atom(s) or chlorine atom(s)", a cyclopropyl group, a cyano group and a tri(C₁ to C₂ alkyl)-

silyl group", a furyl group, a thienyl group, "an amino group which may be substituted by the same 1 to 2 C₁ to C₂ alkyl group(s), or by a C₂ to C₃ alkylcarbonyl group, a C₂ to C₃ alkoxy carbonyl group, a di(C₁ to C₂ alkyl) carbamoyl group or a C₁ to C₂ alkylsulfonyl group", a nitro group, a hydroxyl group, a C₁ to C₂ alkoxy group, a C₁ to C₂ haloalkoxy group, a phenoxy group, a C₁ to C₂ alkylthio group, a phenylthio group, a C₁ to C₂ alkylsulfinyl group or a C₁ to C₂ alkylsulfonyl group.

10

In the present invention, "the C₄ to C₁₀ bicycloalkyl group" is a bicyclic hydrocarbon having 4 to 10 carbon atoms, and for example, it may be a bicyclobutyl, bicycle-pentyl, bicyclohexyl, bicycloheptyl, bicyclooctyl, bicyclononyl or bicyclodecyl group, preferably a bicycle-hexyl or bicycleheptyl group, more preferably a bicycle-[3.1.0]hexyl or bicyclo[4.1.0]heptyl group, still further preferably a bicyclo[3.1.0]hexan-6-yl group.

In the present invention, "the phenylsulfonyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a phenylsulfonyl group which may be substituted by the same or different 1 to 5 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)silyl group", and for example, it may be a phenylsulfonyl, fluorophenylsulfonyl, difluorophenylsulfonyl, trifluorophenylsulfonyl, chlorophenylsulfonyl, dichlorophenylsulfonyl, trichlorophenylsulfonyl, fluorochlorophenylsulfonyl, methylphenylsulfonyl, dimethylphenylsulfonyl, trimethylphenylsulfonyl, tetramethylphenylsulfonyl, pentamethylphenylsulfonyl, ethylphenylsulfonyl, fluoro(methyl)phenylsulfonyl, chloro(methyl)phenylsulfonyl,

bromo(methyl)phenylsulfonyl, cyclopropylphenylsulfonyl, cyclopropyl(fluoro)phenylsulfonyl, chloro(cyclopropyl)phenylsulfonyl, cyclopropyl(methyl)-phenylsulfonyl, (trifluoromethyl)phenylsulfonyl or fluoro-
5 (trifluoromethyl)phenylsulfonyl group, preferably a phenylsulfonyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group
10 substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group, more preferably a phenylsulfonyl, chlorophenylsulfonyl,
15 methylphenylsulfonyl, trifluorophenylsulfonyl or cyanophenylsulfonyl group.

In the present invention, "the di(C₁ to C₆ alkyl)sulfamoyl group" is a sulfamoyl group in which the
20 same or different 2 above-mentioned "C₁ to C₆ alkyl groups" are bonded to the nitrogen atom, and for example, it may be a dimethylsulfamoyl, methylethylsulfamoyl, diethylsulfamoyl, dipropylsulfamoyl, dibutylsulfamoyl or dihexylsulfamoyl, preferably a sulfamoyl group to which the
25 same or different 2 C₁ to C₃ alkyl groups are bonded, more preferably a dimethylsulfamoyl or diethylsulfamoyl group, still further preferably a dimethylsulfamoyl group.

In the present invention, "the 3- to 6-membered
30 heterocyclic group which may be substituted (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s), or may be fused with a benzene ring. The substituent is a substituent selected from the substituent
35 Group E.)" is "a 3- to 6-membered heterocyclic group which contains one nitrogen atom, oxygen atom or sulfur atom as a

hetero atom, and may contain further 1 to 2 nitrogen atom(s)" which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group" and the above-mentioned "C₁ to C₆ haloalkyl group", or by a hydroxyl group, the above-mentioned "phenylsulfonyl group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" or the above-mentioned "di(C₁ to C₆ alkyl)sulfamoyl group", or may be fused with a benzene ring, preferably "a 3- to 6-membered heterocyclic group which contains one nitrogen atom, oxygen atom or sulfur atom as a hetero atom, and may contain further one nitrogen atom" which may be substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group and "a C₁ to C₃ alkyl group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", or may be substituted by a hydroxyl group, "a phenylsulfonyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group" or "a sulfamoyl group to which the same or different 2 C₁ to C₃ alkyl groups are bonded", or may be fused with a benzene ring, more preferably an aziridine, oxiranyl, oxetanyl, pyrrolyl, furyl, thienyl, pyrazolyl, thiazolyl, pyridyl, benzimidazolyl or benzothiazolyl, each of which may be substituted by the same 1 to 2 substituent(s) selected from the group consisting of a chlorine atom, a bromine atom, methyl group, ethyl group

and trifluoromethyl group, or may be substituted by a hydroxyl group, phenylsulfonyl group, tolylsulfonyl group or dimethylsulfamoyl group, still further preferably a thienyl, pyrazolyl, thiazolyl group which may be substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of a chlorine atom, methyl group and trifluoromethyl group.

In the present invention, "the (C₁ to C₆ alkoxy)C₁ to C₆ alkoxy group" is an alkoxy group having 1 to 6 carbon atoms to which an alkoxy group having 1 to 6 carbon atoms is bonded, and for example, it may be a methoxymethoxy, ethoxymethoxy, propoxymethoxy, butoxymethoxy, s-butoxymethoxy, t-butoxymethoxy, pentyloxymethoxy, hexyloxymethoxy, methoxyethoxy, ethoxyethoxy, propoxyethoxy, butoxyethoxy, methoxypropoxy, methoxybutoxy, methoxypentyloxy or methoxyhexyloxy group, preferably an alkoxy group having 1 to 3 carbon atoms to which an alkoxy group having 1 to 3 carbon atoms is substituted, more preferably a methoxyethoxy, ethoxyethoxy or ethoxymethoxy group.

In the present invention, "a phenoxy group which may be substituted (The substituent is a hydroxyl group or a pyridazinyloxy group substituted by a substituent(s) selected from the group consisting of a halogen atom and a C₁ to C₆ alkoxy group.)" is a phenoxy group which may be substituted by one hydroxyl group, or a phenoxy group substituted by a pyridazinyloxy group which is substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of the above-mentioned "halogen atom" and the above-mentioned "C₁ to C₆ alkoxy group", preferably a hydroxyphenoxy group, or a phenoxy group substituted by a pyridazinyloxy group which is substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine

atom, a bromine atom and C₁ to C₃ alkoxy group, more preferably a phenoxy group substituted by a pyridazinyloxy group which is substituted by each one of a chlorine atom, and a methoxy or ethoxy group.

5

In the present invention, "the 5- to 6-membered heterocycloxy group which may be substituted (the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2
10 nitrogen atom(s). The substituent is a substituent selected from the substituent Group E.)" is "a 5- to 6-membered heterocycloxy group which contains one nitrogen atom, oxygen atom or sulfur atom as a heteroatom, and may contain further 1 to 2 nitrogen atom(s)" which may be
15 substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", a hydroxyl group, the above-mentioned "phenylsulfonyl group which may
20 be substituted (The substituent is a substituent selected from the substituent Group A.)" and the above-mentioned "di(C₁ to C₆ alkyl)sulfamoyl group", preferably "a 5- to 6-membered heterocycloxy group which contains one nitrogen atom, oxygen atom or sulfur atom as a heteroatom, and may
25 contain further one nitrogen atom" which may be substituted by the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group substituted by the same or different 1 to 3
30 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a hydroxyl group, "a phenylsulfonyl group which may be substituted by the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a
35 chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl group substituted by the same or different 1 to

3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom", a C₃ to C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group" and "a sulfamoyl group to which the same or different two C₁ to C₃ alkyl groups are bonded", more preferably a pyridyloxy, pyrrolyloxy, furyloxy, thienyloxy, pyrazolyloxy, thiazolyloxy, pyrimidyloxy, pyrazinyloxy or a pyridazinyloxy group, each of which may be substituted by 1 to 2 different substituents selected from the group consisting of a chlorine atom, a bromine atom, a methyl group, an ethyl group, a trifluoromethyl group, a hydroxyl group, a phenylsulfonyl group, a tolylsulfonyl group and a dimethylsulfamoyl group, still further preferably a pyridazinyloxy group which may be substituted by a chlorine atom and a hydroxyl group.

In the present invention, "the phenylsulfonyloxy group which may be substituted (The substituent is a substituent selected from the substituent Group A.)" is a phenylsulfonyloxy group which may be substituted by the same or different 1 to 5 substituent(s) selected from the group consisting of the above-mentioned "halogen atom", the above-mentioned "C₁ to C₆ alkyl group", the above-mentioned "C₁ to C₆ haloalkyl group", the above-mentioned "C₃ to C₆ cycloalkyl group", a cyano group and the above-mentioned "tri(C₁ to C₆ alkyl)silyl group", and for example, it may be a phenylsulfonyloxy, fluorophenylsulfonyloxy, difluorophenylsulfonyloxy, trifluorophenylsulfonyloxy, chlorophenylsulfonyloxy, dichlorophenylsulfonyloxy, trichlorophenylsulfonyloxy, fluorochlorophenylsulfonyloxy, methylphenylsulfonyloxy, dimethylphenylsulfonyloxy, trimethylphenylsulfonyloxy, tetramethylphenylsulfonyloxy, pentamethylphenylsulfonyloxy, ethylphenylsulfonyloxy, fluoro(methyl)phenylsulfonyloxy, chloro(methyl)-phenylsulfonyloxy, bromo(methyl)phenylsulfonyloxy, cyclopropylphenylsulfonyloxy, cyclopropyl(fluoro)phenylsulfonyl-

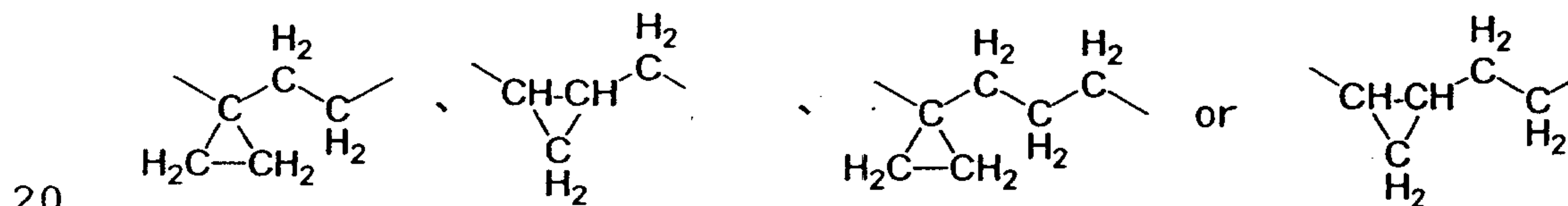
oxy, chloro(cyclopropyl)phenylsulfonyloxy, cyclopropyl-
 (methyl)phenylsulfonyloxy,
 (trifluoromethyl)phenylsulfonyloxy or
 fluoro(trifluoromethyl)phenylsulfonyloxy group, preferably
 5 a phenylsulfonyloxy group which may be substituted by the
 same or different 1 to 3 substituent(s) selected from the
 group consisting of a fluorine atom, a chlorine atom, a
 bromine atom, a C₁ to C₃ alkyl group, "a C₁ to C₃ alkyl
 group substituted by the same or different 1 to 3
 10 substituent(s) selected from the group consisting of a
 fluorine atom, a chlorine atom and a bromine atom", a C₃ to
 C₄ cycloalkyl group, a cyano group and a tri(C₁ to C₃
 alkyl)silyl group, more preferably a phenylsulfonyloxy,
 chlorophenylsulfonyloxy, methylphenylsulfonyloxy,
 15 trifluorophenylsulfonyloxy or cyanophenylsulfonyloxy group.

In R³, R⁴, R⁵, R⁶ and R⁷ according to the present
 invention, "the 3- to 6-membered cyclic hydrocarbon group
 which may be substituted, which is formed by the adjacent
 20 two of them with carbon atoms to which the respective
 substituents are bonded (the cyclic hydrocarbon may be
 interrupted by 1 to 2 hetero atom(s) selected from the
 group consisting of a nitrogen atom, an oxygen atom and a
 sulfur atom. The substituent is a halogen atom, a C₁ to C₆
 25 alkyl group, a hydroxy-C₁ to C₆ alkyl group, a C₁ to C₆
 alkoxy group, an oxo group, a hydroxyimino group or a C₁ to
 C₆ alkoxyimino group, and when the C₁ to C₆ alkyl group is
 substituted, it may form another 3-membered ring by binding
 with the other C₁ to C₆ alkyl group or a carbon atom(s) in
 30 the cyclic hydrocarbon.)" is a saturated or unsaturated 3-
 to 6-membered cyclic hydrocarbon group which may be
 substituted by the same or different 1 to 4 substituent(s)
 selected from the group consisting of the above-mentioned
 "halogen atom", the above-mentioned "C₁ to C₆ alkyl group",
 35 the above-mentioned "C₁ to C₆ alkyl group" substituted by 1
 to 2 hydroxyl group(s), the above-mentioned "C₁ to C₆

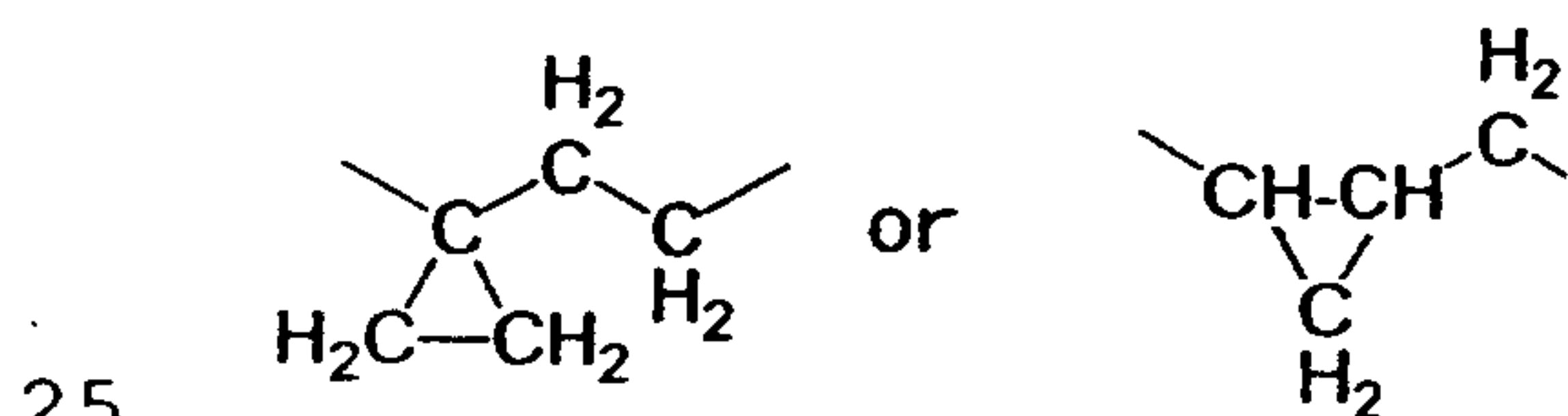
alkoxy group", an oxo group, a hydroxyimino group and the above-mentioned "C₁ to C₆ alkoxyimino group", and may be interrupted by the same or different 1 to 2 hetero atom(s) selected from the group consisting of a nitrogen atom, an oxygen atom and a sulfur atom, and further may form a cyclopropane ring on the cyclic hydrocarbon group.

preferably adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented

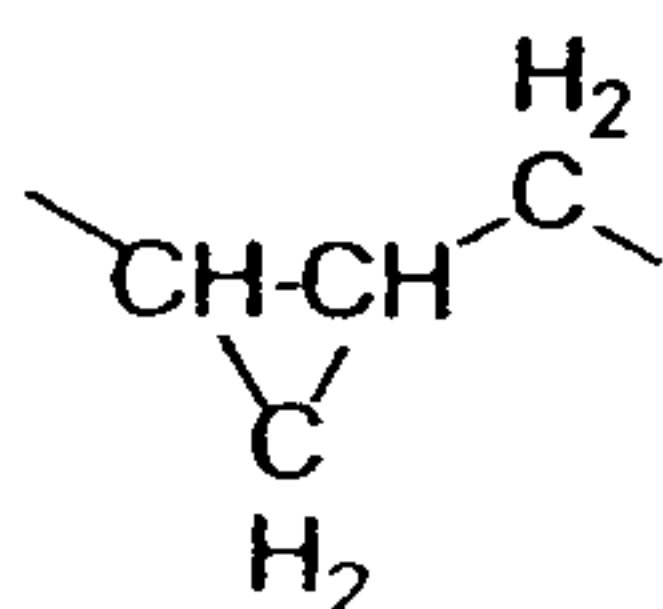
by -CH₂-, -CH₂CH₂-, -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-,
 10 -CH₂CH(CH₃)CH₂-, -C(CH₃)₂CH₂CH₂-, -CH₂C(CH₃)₂CH₂-,
 -CH(OCH₃)CH₂CH₂-, -C(OCH₃)₂CH₂CH₂-, -CH₂C(OCH₃)₂CH₂-,
 -C(=O)CH₂CH₂-, -CH₂C(=O)CH₂-, -C(=NOCH₃)CH₂CH₂-, -
 CH₂CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂CH₂-, -C(CH₃)₂CH₂CH₂CH₂-, -
 CH(OCH₃)CH₂CH₂CH₂-,
 15 -CH=CH-CH=CH-, -OCH₂CH₂-, -OCH(CH₃)CH₂-, -OCH₂CH(CH₃)-,
 -OC(CH₃)₂CH₂-, -OCH=CH-, -OC(CH₃)=CH-, -OCH=C(CH₃)-, -
 SCH=CH-, -N=CH-CH=CH-, -OCH₂O-, -OCH(CH₃)O-, -OC(CH₃)₂O-, -
 OCF₂O-,
 -OCH₂CH₂O-, -OCH=N-, -OC(CH₃)=N-,



more preferably a group represented by -CH₂CH₂-, -CH₂CH₂CH₂-,
 , -CH(CH₃)CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH=CH-CH=CH-, -OCH₂CH₂-,
 -OCH=CH-, -OCH=C(CH₃)-, -SCH=CH-, -N=CH-CH=CH-, -OCH₂O-,
 -OCH₂CH₂O-,



still further preferably a group represented by -CH₂CH₂CH₂-,
 -CH(CH₃)CH₂CH₂-, -OCH₂CH₂-, -OCH=CH- or



The compound (I) of the present invention can be made a salt to be generally used in agricultural chemicals, and for example, it can be made an alkali metal salt, an
5 alkaline earth metal salt or an ammonium salt, and when a basic portion exists in the molecule, it can be made a salt, for example, a sulfate, hydrochloride, nitrate, phosphate, or the like. These salts are included in the present invention so long as they can be used as a
10 herbicide for agricultural and horticultural chemicals.

In the present invention, "the alkali metal salt" may be, for example, a sodium salt, potassium salt or lithium salt, preferably a sodium salt or potassium salt.

In the present invention, "the alkaline earth metal
15 salt" may be, for example, a calcium salt or magnesium salt, preferably a calcium salt.

A solvate of the compounds of the present invention is also included in the present invention.

In the compounds of the present invention, there are
20 compounds having an asymmetric carbon(s), and in that case, the present invention also includes a kind of optical isomers and a mixture of several kinds of optical isomers with an optional ratio.

25 In the present invention, "ester derivative" is a compound in which an acyl group bonds to an oxygen atom of a hydroxyl group bonded at the 4-position of the pyridazine ring, and for example, a compound to which is/are bonded a C₂ to C₁₅ alkylcarbonyl group which may be substituted (The
30 substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkoxy group, a C₂ to C₇ alkoxycarbonyl group, a C₂ to C₆ alkenyloxycarbonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s)
35 selected from the group consisting of a C₃ to C₆ cycloalkyl group, a cyano group and a benzoyl group which may be

substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy-carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).), a C₃ to C₆ cycloalkenyloxy-carbonyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of an oxo group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy-carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).), a 5 or 6-membered heterocycloxy-carbonyl group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy-carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy-carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).), a phenyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group and a C₂ to C₇ alkoxy-carbonyl group.), a phenoxy group and a C₁ to C₆ alkylthio group.] , a C₄ to C₇ cycloalkylcarbonyl group, an

adamantylcarbonyl group, a C₃ to C₇ alkenylcarbonyl group which may be substituted (The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a halogen atom and a phenyl group.), a C₃ to C₇ alkynylcarbonyl group, a benzoyl group which may be substituted [The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom and a phenyl group.), a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxycarbonyl group, a C₃ to C₇ alkenyloxycarbonyl group which may be substituted {The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a C₃ to C₆ cycloalkyl group, a cyano group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxycarbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.)}, a C₄ to C₇ cycloalkenyloxycarbonyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of an oxo group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxycarbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.)}, a phenyl group, a nitro group, a C₁ to C₆ alkoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom and a phenyl group.), a phenoxy group, a 5 or 6-membered heterocyclic oxycarbonyl group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or

sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).) and a 5 or 6-membered heterocycloxy sulfonyl group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).).], a naphthoyl group, a 3- to 6-membered heterocyclic carbonyl group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s), or may form a 5- to 6-

membered spiro ring containing 1 to 2 oxygen atom(s) on an optional carbon atom in the heterocycle. The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom and a phenyl group.), a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a phenyl group which may be substituted (The substituent is the same or different 1 to 3 halogen atom(s).), a nitro group, a hydroxyl group, a C₁ to C₆ alkoxy group, a phenoxy group, a C₁ to C₆ alkylthio group, a C₂ to C₆ alkenylthio group and a phenylthio group.}, a 7 to 14-membered fused bi- or tri-cyclic heterocyclic carbonyl group which may be substituted (The heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 to 2 nitrogen atom(s) or oxygen atom(s). The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom and a C₁ to C₆ alkyl group.), a 5 or 6-membered heterocycle carbonylcarbonyl group (The heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s).), a C₂ to C₇ alkoxy carbonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkoxy group and a phenyl group.), a C₃ to C₇ alkenyloxy carbonyl group, a phenoxy carbonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₆ alkoxy group.), a fused polycyclic hydrocarbyloxy carbonyl group, a 5 or 6-membered heterocycloxy carbonyl group which may be substituted {The

heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).}, a carbamoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a C₁ to C₆ alkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₂ to C₇ alkoxy carbonyl group, a cyano group, a phenyl group and a C₁ to C₆ alkoxy group.), a C₃ to C₆ alkenyl group, a phenyl group, a C₂ to C₇ alkyl carbonyl group, a C₂ to C₇ alkoxy carbonyl group and a C₁ to C₆ alkoxy group.), a (C₁ to C₆ alkylthio)carbonyl group, a (phenylthio)carbonyl group, a C₁ to C₈ alkylsulfonyl group which may be substituted (The substituent is the same or different 1 to 3 halogen atom(s).), a phenylsulfonyl group which may be substituted [The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a cyano group, a C₂ to C₇ alkyl carbonyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group, a C₁ to C₆ alkoxy group, a C₂ to C₆ alkenyloxysulfonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s)

selected from the group consisting of a C₃ to C₆ cycloalkyl group, a cyano group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a
5 halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).), a C₃ to C₆ cycloalkenyloxysulfonyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s)
10 selected from the group consisting of an oxo group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl
15 group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).} and a 5 or 6-membered heterocycloxy sulfonyl group which may be substituted {The heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the
20 same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆
25 alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group
30 consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).}.], a 5 or 6-membered heterocycloxy sulfonyl group which may be substituted {The heterocycle contains one nitrogen atom,
35 oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the

same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group.), a 2,3-dihydro-1H-indenyloxy group and a benzoyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group.).), a di(C₁ to C₆ alkyl)sulfamoyl group, a C₁ to C₆ alkoxy sulfonyl group, a di(C₁ to C₆ alkyl)phosphoryl group, a tri(C₁ to C₆ alkyl)silyl group or a triphenylsilyl group, preferably a compound to which bonded is/are a C₂ to C₁₀ alkyl carbonyl group, a benzoyl group which may be substituted (The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ alkoxy group or a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxy carbonyl group.), a pyrrolidinyl carbonyl group, azetidyl carbonyl group, morpholinyl carbonyl group, a C₂ to C₅ alkoxy carbonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a di(C₁ to C₃ alkyl)carbamoyl group, a (C₁ to C₃ alkyl)(C₁ to C₃ alkoxy)carbamoyl group, a C₁ to C₃ alkylsulfonyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.) or a phenylsulfonyl group which may be substituted (The substituent is the same or different 1 to 2 substituent(s) selected from the group

consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxysulfonyl group and a nitro group.), more preferably a compound to which bonded is/are

5 a C₂ to C₄ alkylcarbonyl group, a benzoyl group which may be substituted (The substituent is a methyl group or a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxy carbonyl group.), a 1-acetidinylcarbonyl group, a 4-morpholinylcarbonyl group, a C₂ to C₃ alkoxy carbonyl group

10 which may be substituted (The substituent is 1 to 3 chlorine atom(s).), a dimethylcarbamoyl group, a methoxy(methyl)carbamoyl group, a C₁ to C₃ alkylsulfonyl group which may be substituted (The substituent is 1 to 3 fluorine atom(s).) or a phenylsulfonyl group which may be

15 substituted (The substituent is a chlorine atom, a methyl group, a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxysulfonyl group or a nitro group.).

(a) In the present invention, R¹ is preferably a

20 hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, C₁ to C₃ alkyl group, C₁ to C₃ haloalkyl group (The halogen atom is 1 to 3 fluorine atom(s).), cyclopropyl group, C₂ to C₃ alkenyl group, a cyano group, C₂ to C₄ alkylcarbonyl group, di(C₁ to C₃ alkyl)carbamoyl group, a

25 phenyl group which may be substituted (The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3

30 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.), a furyl group, a thienyl group, a C₁ to C₃ alkoxy group, a phenoxy group which may be

35 substituted (The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a

fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is 1 to 3 fluorine atom(s).), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.) or the
5 substituted pyrazolyloxy group (The substituent is a benzoyl group substituted by two chlorine atoms, and two C₁ to C₃ alkyl groups.),

more preferably a chlorine atom, a bromine atom, trifluoromethyl group or a cyano group,
10 still further preferably a chlorine atom or a bromine atom,
particularly preferably a chlorine atom.

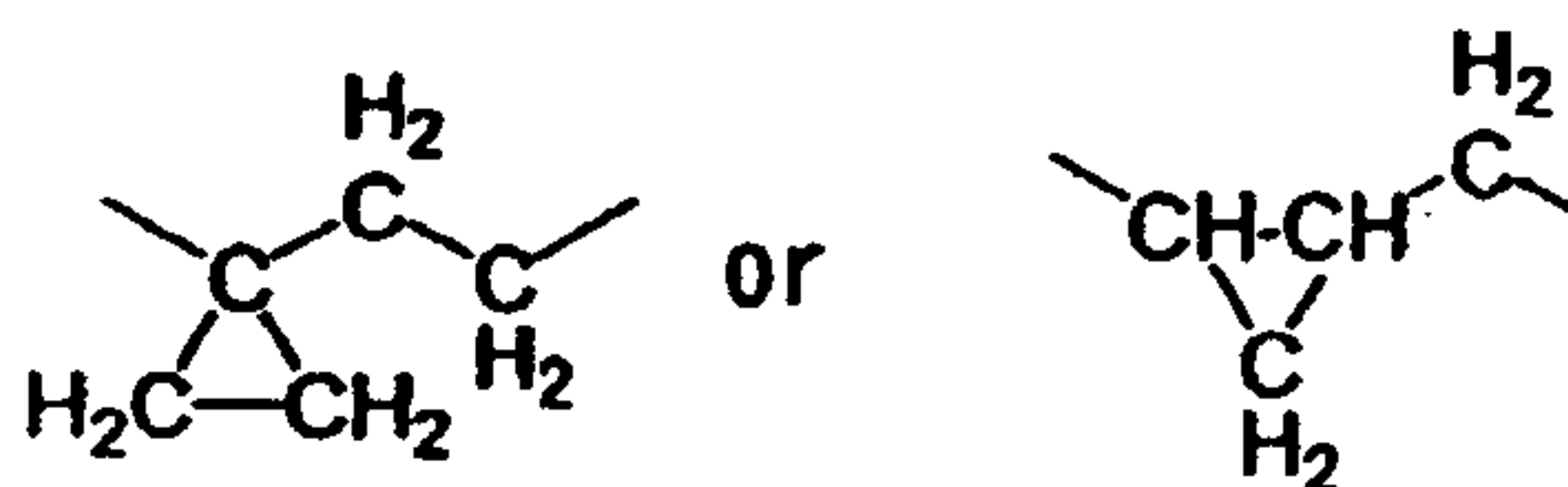
(b) In the present invention, R² is preferably a
15 hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a C₁ to C₃ alkyl group, a (C₁ to C₃ alkoxy)C₁ to C₃ alkyl group, a benzoyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a
20 fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano
25 group and a tri(C₁ to C₃ alkyl)silyl group.}, a C₂ to C₄ alkoxy carbonyl group, a phenoxy group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃
30 alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.}, a phenylthio
35 group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group

consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.) or a tri(C₁ to C₃ alkyl)silyl group,

more preferably a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethoxycarbonyl group or a trimethylsilyl group, still further preferably a hydrogen atom.

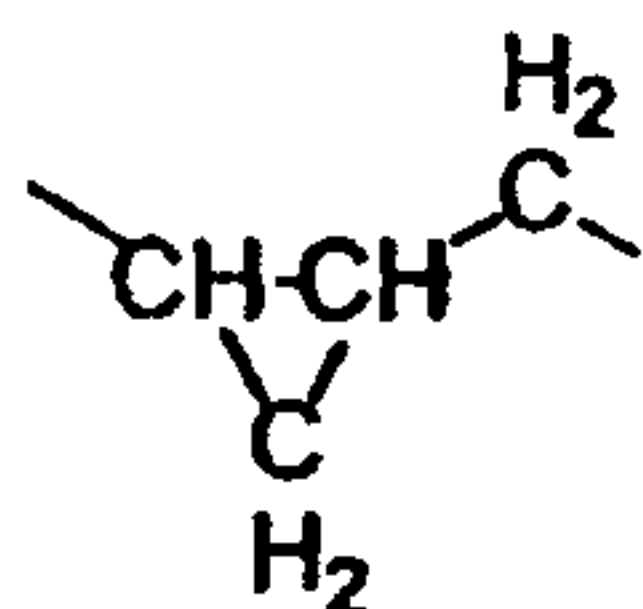
(c) In the present invention, R³, R⁴, R⁵, R⁶ and R⁷ each independently represent preferably a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a C₁ to C₄ alkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom, or a C₃ to C₄ cycloalkyl group, a C₁ to C₃ alkylthio group or a C₁ to C₃ alkoxyimino group.), a C₂ to C₃ alkenyl group, a C₂ to C₃ alkynyl group, a C₃ to C₅ cycloalkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₃ to C₄ cycloalkyl group, a cyano group, a C₁ to C₃ alkoxy group and a C₁ to C₃ alkylthio group.), a C₆ to C₇ bicycloalkyl group, a cyano group, a C₂ to C₄ alkylcarbonyl group, a C₂ to C₄ alkoxy carbonyl group, a phenyl group which may be substituted {The substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group or a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.)}, a 5- to 6-membered heterocyclic group which may be substituted {the heterocycle contains

one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group and a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.).), a nitro group, a C₁ to C₃ alkoxy group, a C₁ to C₃ haloalkoxy group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a phenoxy group which may be substituted (The substituent is a pyridazinyloxy group substituted by a substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom a C₁ to C₃ alkoxy group.) or a C₁ to C₃ alkylthio group, or adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂-, -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH=CH-CH=CH-, -OCH₂CH₂-, -OCH=CH-, -OCH=C(CH₃)-, -SCH=CH-, -N=CH-CH=CH-, -OCH₂O-, -OCH₂CH₂O-,



more preferably each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a C₁ to C₄ alkyl group which may be substituted (The substituent is 1 to 3 fluorine atom(s), or a cyclopropyl group.), a C₃ to C₄ cycloalkyl group which may be substituted (The substituent is the same 1 to 2 substituent selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₂ alkyl group, a cyclopropyl group and a C₁ to C₂ alkoxy group.), a

cyano group, C₂ to C₃ alkoxy carbonyl group, a nitro group, C₁ to C₃ alkoxy group or trifluoromethoxy group, or, adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -OCH₂CH₂-,
 5 -OCH=CH- or



10 provided that R³ is not a hydrogen atom, still further preferably each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, C₁ to C₃ alkyl group, a C₃ to C₄ cycloalkyl group which may be substituted (The substituent is the same 1 to 2
 15 substituent(s) selected from the group consisting of a chlorine atom and a C₁ to C₂ alkyl group.), a cyano group or a C₁ to C₂ alkoxy group, or adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂CH₂- or -OCH=CH-, provided that R³ is not a hydrogen atom,

20 particularly preferably each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl group, an isopropyl group, a cyclopropyl group which may be substituted (The substituents are two chlorine atoms.) or a
 25 methoxy group, or adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂CH₂-, provided that R³ is not a hydrogen atom,

most preferably R³ is a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl
 30 group, an isopropyl group, a cyclopropyl group or a

methoxy groupであり, and R^7 is a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl group, an isopropyl group, a cyclopropyl group or methoxy group, and R^4 , R^5 and R^6 each
5 independently represent a hydrogen atom or a methyl group.

(d) In the present invention, m and n are preferably both 0.

10 The compound (I) of the present invention is preferably a compound wherein

(1a) R^1 is a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group (The halogen atom is 1 to 3 fluorine
15 atom(s).), a cyclopropyl group, a C_2 to C_3 alkenyl group, a cyano group, a C_2 to C_4 alkylcarbonyl group, a di(C_1 to C_3 alkyl)carbamoyl group, a phenyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a
20 fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom).), a cyclopropyl group, a cyano
25 group and a tri(C_1 to C_3 alkyl)silyl group.}, a furyl group, a thienyl group, a C_1 to C_3 alkoxy group, a phenoxy group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine
30 atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group (The halogen atom is 1 to 3 fluorine atom(s).), a cyclopropyl group, a cyano group and a tri(C_1 to C_3 alkyl)silyl group.} or the substituted pyrazolyloxy group (The substituent is a benzoyl group substituted by two
35 chlorine atoms and two C_1 to C_3 alkyl groups.),
(1b) R^2 is a hydrogen atom, a fluorine atom, a chlorine

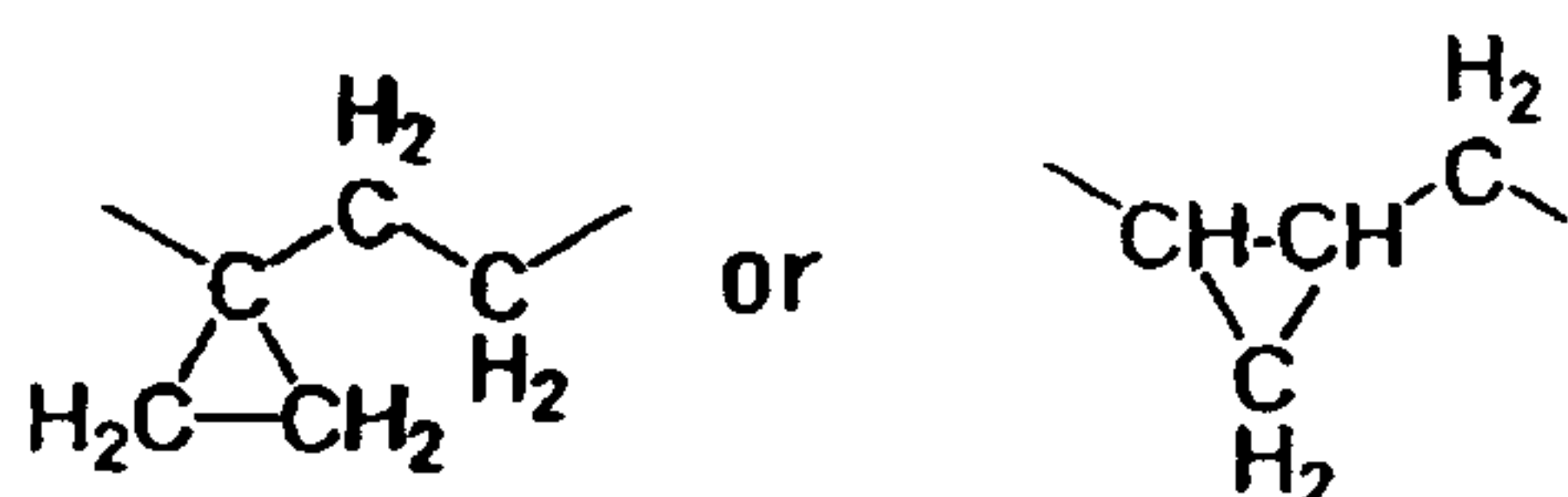
atom, a bromine atom, an iodine atom, a C₁ to C₃ alkyl group, a (C₁ to C₃ alkoxy)C₁ to C₃ alkyl group, a benzoyl group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.}, a C₂ to C₄ alkoxycarbonyl group, a phenoxy group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.}, a phenylthio group which may be substituted {The substituent is the same or different 1 to 2 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group.} or a tri(C₁ to C₃ alkyl)silyl group,

(1c) R³, R⁴, R⁵, R⁶ and R⁷ each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a C₁ to C₄ alkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom, or a C₃ to C₄ cycloalkyl group, a C₁ to C₃ alkylthio group or a C₁

to C₃ alkoxyimino group.), a C₂ to C₃ alkenyl group, a C₂ to C₃ alkynyl group, a C₃ to C₅ cycloalkyl group which may be substituted (The substituent is the same or different 1 to 3 substituent(s) selected from the group consisting of a
5 fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₃ to C₄ cycloalkyl group, a cyano group, a C₁ to C₃ alkoxy group and a C₁ to C₃ alkylthio group.), a C₆ to C₇ bicycloalkyl group, a cyano group, a C₂ to C₄ alkylcarbonyl group, a C₂ to C₄ alkoxy carbonyl group, a
10 phenyl group which may be substituted {The substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group or a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine
15 atom and a bromine atom.)}, a 5- to 6-membered heterocyclic group which may be substituted {the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atom(s). The substituent is the same or different 1 to 2 substituent(s)
20 selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group and a C₁ to C₃ haloalkyl group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine
25 atom.)}, a nitro group, a C₁ to C₃ alkoxy group, a C₁ to C₃ haloalkoxy group (The halogen atom is the same or different 1 to 3 halogen atom(s) selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom.), a phenoxy group which may be substituted (The substituent is a
30 pyridazinyloxy group substituted by a substituent(s) selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom or a C₁ to C₃ alkoxy group.)

51

or C₁ to C₃ alkylthio group, or adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂-,
 -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH=CH-CH=CH-,
 -OCH₂CH₂-, -OCH=CH-, -OCH=C(CH₃)-, -SCH=CH-, -N=CH-CH=CH-,
 5 -OCH₂O-, -OCH₂CH₂O-,



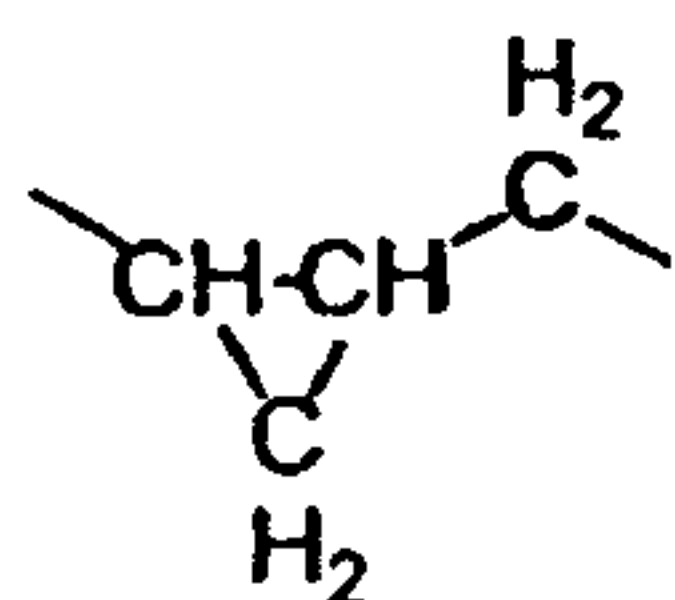
10 (1d) m and n are both 0,

more preferably a compound wherein

(2a) R¹ is a chlorine atom, a bromine atom, a trifluoromethyl group or a cyano group,

15 (2b) R² is a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethoxycarbonyl group or a trimethylsilyl group,

(2c) R³, R⁴, R⁵, R⁶ and R⁷ each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a C₁ to C₄ alkyl group which may be
 20 substituted (The substituent is 1 to 3 fluorine atom(s), or a cyclopropyl group.), a C₃ to C₄ cycloalkyl group which may be substituted (The substituent is the same 1 to 2 substituent selected from the group consisting of a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₂ alkyl
 25 group, a cyclopropyl group and a C₁ to C₂ alkoxy group.), a cyano group, a C₂ to C₃ alkoxycarbonyl group, a nitro group, a C₁ to C₃ alkoxy group or a trifluoromethoxy group, or adjacent two of R³, R⁴, R⁵, R⁶ and R⁷ together form a group represented by -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -OCH₂CH₂-,
 30 -OCH=CH- or



provided that R^3 is not a hydrogen atom,

(2d) m and n are both 0,

still further preferably a compound wherein

(3a) R^1 is a chlorine atom or a bromine atom,

5 (3b) R^2 is a hydrogen atom,

(3c) R^3 , R^4 , R^5 , R^6 and R^7 each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, C_1 to C_3 alkyl group, a C_3 to C_4 cycloalkyl group which may be substituted (The substituent is the same 1 to 2 substituent(s) selected from the group consisting of a chlorine atom and a C_1 to C_2 alkyl group.), a cyano group or a C_1 to C_2 alkoxy group, or adjacent two of R^3 , R^4 , R^5 , R^6 and R^7 together form a group represented by $-CH_2CH_2CH_2-$ or $-OCH=CH-$, provided that R^3 is not a hydrogen atom,

(3d) m and n are both 0,

particularly preferably a compound wherein

(4a) R^1 is a chlorine atom,

(4b) R^2 is a hydrogen atom,

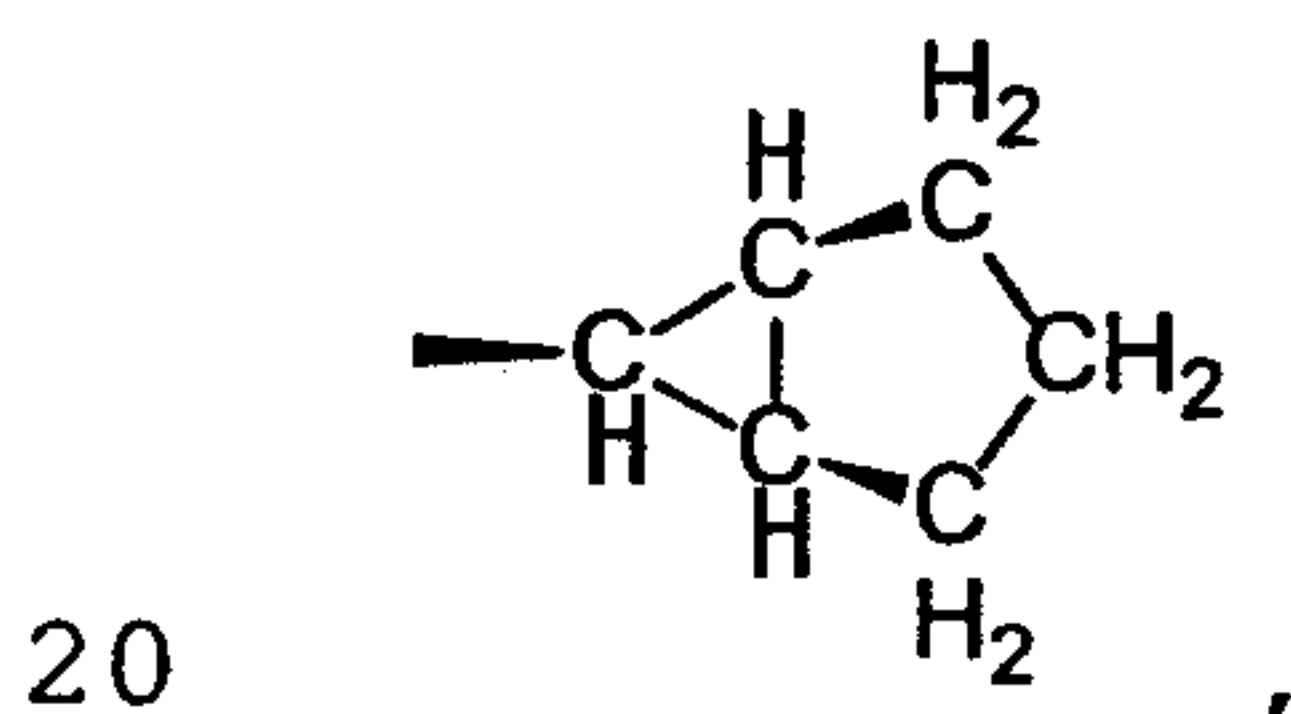
20 (4c) R^3 , R^4 , R^5 , R^6 and R^7 each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl group, an isopropyl group, a cyclopropyl group which may be substituted (The substituents are two chlorine atoms.) or a methoxy group, or adjacent two of R^3 , R^4 , R^5 , R^6 and R^7 together form a group represented by $-CH_2CH_2CH_2-$, provided that R^3 is not a hydrogen atom,

(4d) m and n are both 0.

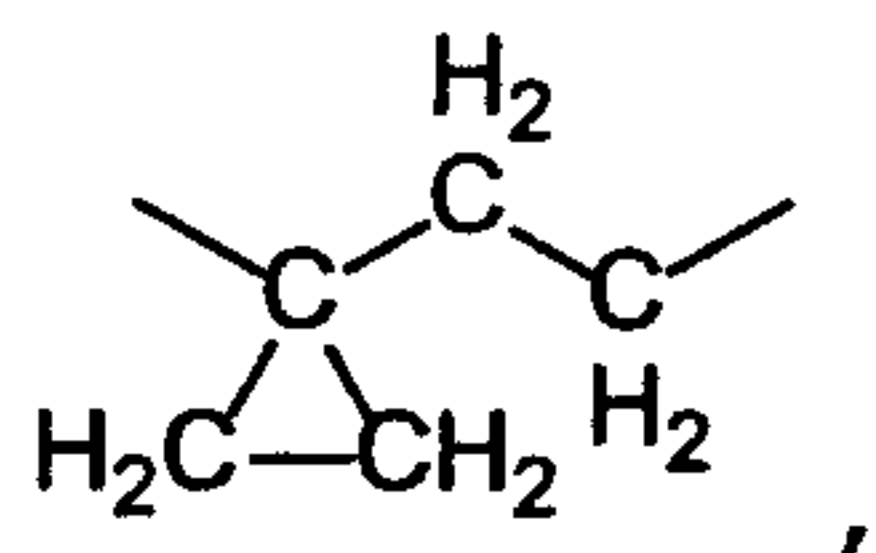
Representative compounds of the present invention are exemplified in the following Table 1, but the present invention is not limited by these compounds.

In the following, in R^3 to R^7 , "H" means that all the

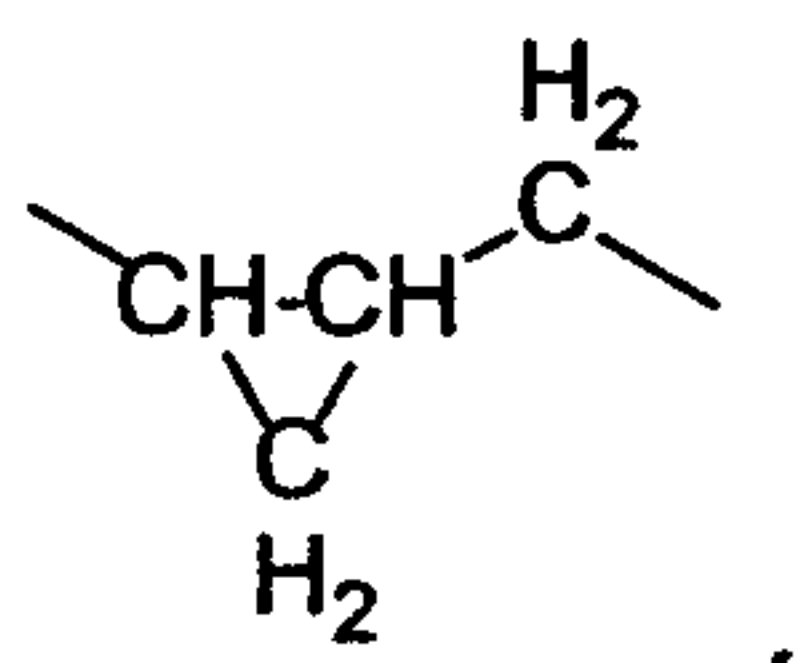
- R^3 , R^4 , R^5 , R^6 and R^7 are hydrogen atoms, in R^3 to R^7 , "2-Cl" means that R^3 is a chlorine atom, "Me" represents a methyl group, "Et" represents an ethyl group, "Pr" represents a propyl group, "iPr" represents an isopropyl group, "cPr" represents a cyclopropyl group, "Bu" represents a butyl group, "iBu" represents an isobutyl group, "sBu" represents a s-butyl group, "tBu" represents a tert-butyl group, "cBu" represents a cyclobutyl group, "Pen" represents a pentyl group, "cPen" represents a cyclopentyl group, "neoPen" represents a neopentyl group, "Hx" represents a hexyl group, "cHx" represents a cyclohexyl group, in R^3 to R^7 , "2-CH₂CH₂CH₂-3" means that R^3 and R^4 are a trimethylene group and form a 5-membered ring together with carbon atoms to which they are bonded, "=N-OMe" represents a methoxyimino group, "=O" represents a carbonyl group together with carbon atom(s) to which they are bonded, "SO₂ (Ph-4-Me)" represents a p-tolylsulfonyl group, "cPr-1-F" represents a 1-fluorocyclopropyl group, "cPr-cis-2-(CH₂)₃-cis-3" represents a group represented by



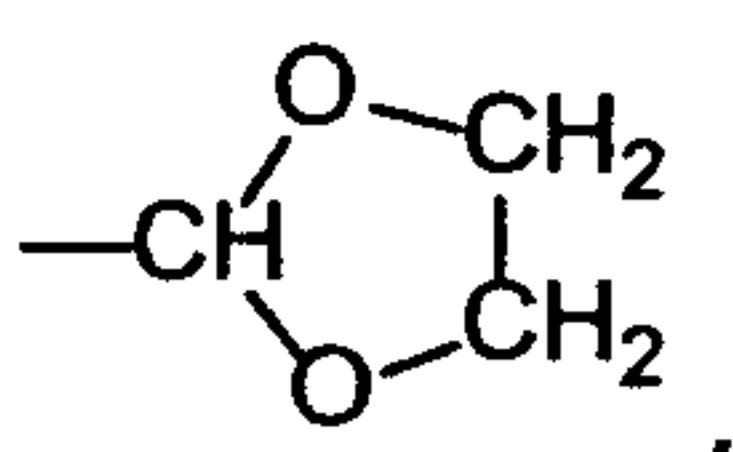
"C(-CH₂CH₂-)-CH₂CH₂" represents a group represented by



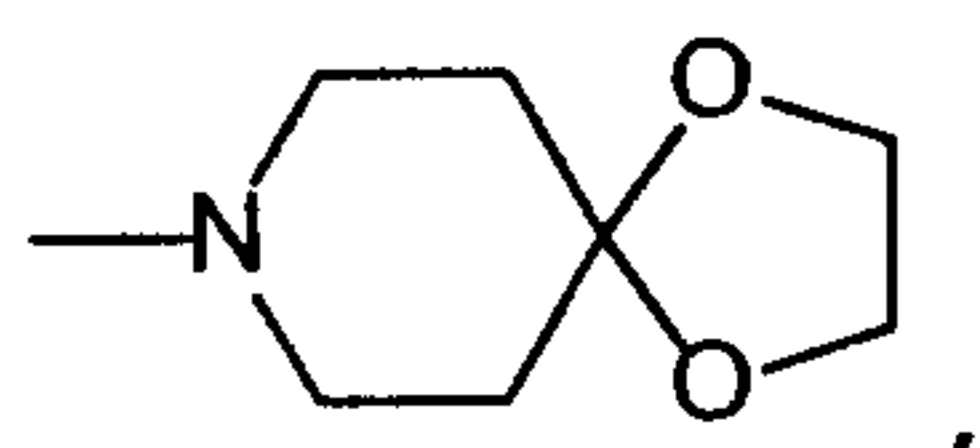
"CH(CH₂)CH-CH₂" represents a group represented by



- 25 "CH(OCH₂)₂" represents a group represented by

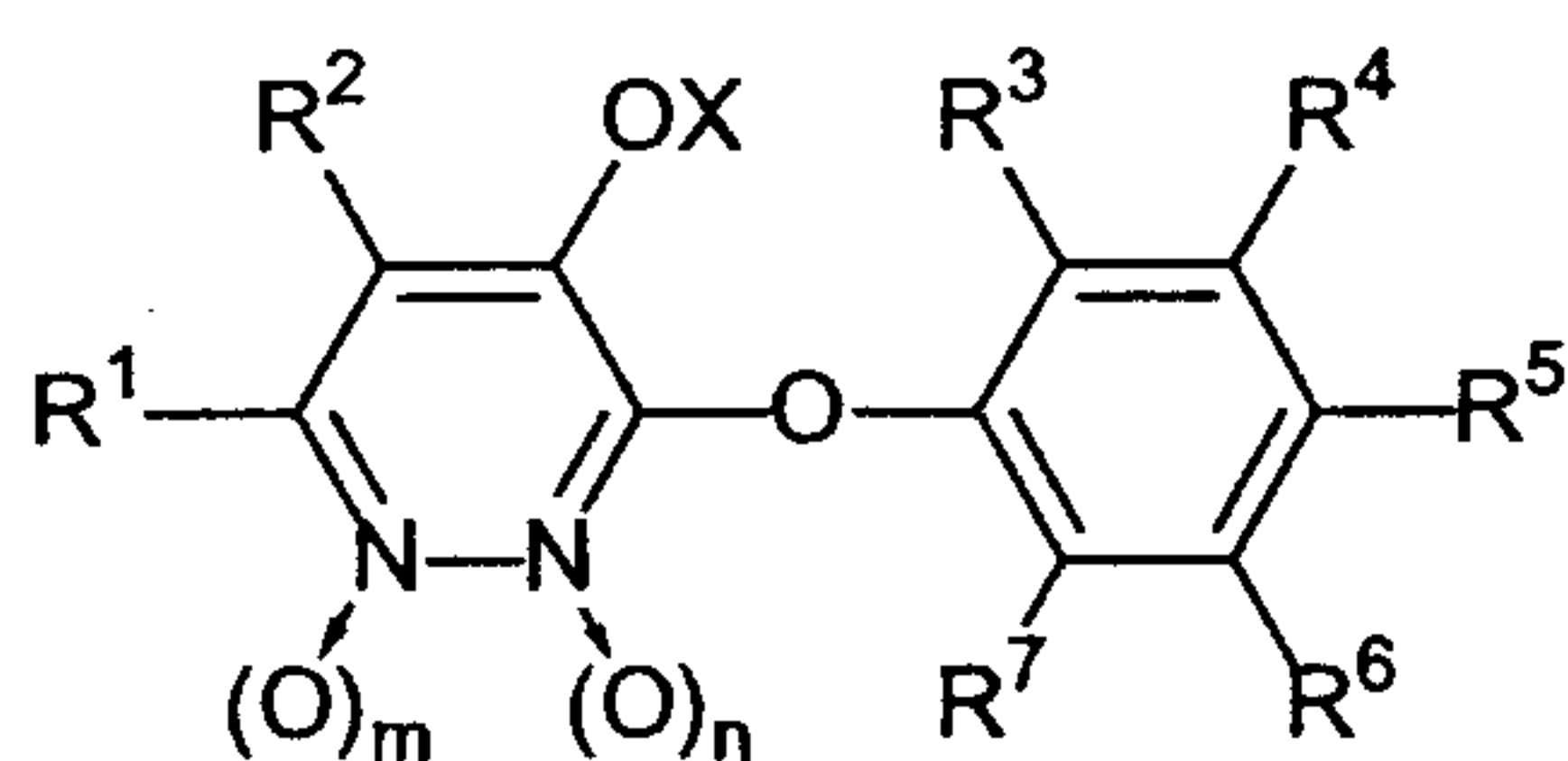


"Fur" represents a furyl group, "Thi" represents a thienyl group, "Pyr" represents a pyridyl group, "Azr" represents a aziridinyl group, "Pyrd" represents a pyrrolidinyl group, "Pyrr" represents a pyrrolyl group, "Pyza" represents a
 5 pyrazolyl group, "Thiz" represents a thiazolyl group, "Pyzn" represents a pyridazinyl group, "Np" represents a naphthyl group, "1-Ad" represents a 1-adamantyl group, "Ioxa" represents an isoxazolyl group, "Tdia" represents a 1,2,3-thiadiazolyl group, "Bfur" represents a 1-
 10 benzofuranyl group, "Bthi" represents a 1-benzothienyl group, "Bthia" represents a 1,3-benzothiazolyl group, "Boxaz" represents a 1,3-benzodioxolyl group, "Iqu" represents an isquinolyl group, "Azet" represents an azetidiny group, "Ppri" represents a piperidyl group, "1-
 15 Ppri-4-OCH₂CH₂O-4" represents a group represented by the formula:



"Ppra" represents a piperadiny group, "Morp" represents a morpholinyl group, "Tmor" represents a thiomorpholinyl
 20 group, "Carb" represents a carbazolyl group, "Pthia" represents a phenothiazinyl group, "Thpy" represents a tetrahydro-2H-pyranyl group, "Q¹" represents an oxiranyl group, "Q²" represents a benzoxazolyl group, "Q³" represents a benzothiazolyl group, "Q⁴" represents a
 25 fluorenyl group, "Q⁵" represents a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl group, "Q⁶" represents a 6-chloro-3-(2-methylphenoxy)-4-pyridazinyl group, "Q⁷" represents a 6-chloro-3-(2-isopropylphenoxy)-4-pyridazinyl group, "Q⁸" represents a 6-chloro-3-(2-cyclopropylphenoxy)-
 30 4-pyridazinyl group, "Q⁹" represents a 6-chloro-3-(2,3-dihydro-1H-inden-4-yloxy)-4-pyridazinyl group, "Q¹⁰" represents a 6-chloro-3-(2,6-dimethylphenoxy)-4-pyridazinyl group, "Q¹¹" represents a 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl group, "Q¹²" represents a 4-

[2-chloro-3-(methoxycarbonyl)-4-(methylsulfonyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl group, "Q¹³" represents a 4-(2,4-dichloro-3-methylbenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl group, "Q¹⁴" represents a 2-[2-chloro-4-(methylsulfonyl)benzoyl]-3-oxo-1-cyclohexen-1-yl group, "Q¹⁵" represents a 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-3-oxo-1-cyclohexen-1-yl group, "Q¹⁶" represents a 2-cyano-1-cyclopropyl-3-[2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]-3-oxo-1-propenyl group, "Q¹⁷" represents a 3-[4-chloro-2-(methylsulfonyl)phenyl]-2-cyano-1-cyclopropyl-3-oxo-1-propenyl group, and "Q¹⁸" represents a 3,4-dihydro-2 (1H)-isoquinolinyl group, respectively. (Table 1)



15	Compound No.	R ¹	R ²	X	R ³ to R ⁷	m n
	1	H	H	H	H	0 0
	2	H	H	H	2-Cl	0 0
	3	H	H	H	2-Br	0 0
	4	H	H	H	2-I	0 0
20	5	H	H	H	2-Me	0 0
	6	H	H	H	2-iPr	0 0
	7	H	H	H	2-cPr	0 0
	8	H	H	H	2-cBu	0 0
	9	H	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
25	10	H	H	H	2-cPr, 5-Me	0 0
	11	H	H	H	2-OMe, 5-Me	0 0
	12	H	H	H	2-F, 6-iPr	0 0
	13	H	H	H	2-Cl, 6-cPr	0 0
	14	H	H	H	2-Br, 6-Me	0 0
30	15	H	H	H	2-I, 6-Me	0 0
	16	H	H	H	2, 6-Me ₂	0 0
	17	H	H	H	2-Me, 6-Et	0 0

	18	H	H	H	2-Me, 6-cPr	0 0
	19	H	H	H	2, 6-cPr ₂	0 0
	20	H	H	H	2-cPr, 3, 5-Me ₂	0 0
	21	H	H	H	2-cPr, 5, 6-Me ₂	0 0
5	22	H	H	SO ₂ (Ph-4-Me)	2-Cl	0 0
	23	H	H	SO ₂ (Ph-4-Me)	2-Br	0 0
	24	H	H	SO ₂ (Ph-4-Me)	2-I	0 0
	25	H	H	SO ₂ (Ph-4-Me)	2-Me	0 0
	26	H	H	SO ₂ (Ph-4-Me)	2-iPr	0 0
10	27	H	H	SO ₂ (Ph-4-Me)	2-cPr	0 0
	28	H	H	SO ₂ (Ph-4-Me)	2-cBu	0 0
	29	H	H	SO ₂ (Ph-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	30	H	H	SO ₂ (Ph-4-Me)	2-cPr, 5-Me	0 0
	31	H	H	SO ₂ (Ph-4-Me)	2-OMe, 5-Me	0 0
15	32	H	H	SO ₂ (Ph-4-Me)	2-F, 6-iPr	0 0
	33	H	H	SO ₂ (Ph-4-Me)	2-Cl, 6-cPr	0 0
	34	H	H	SO ₂ (Ph-4-Me)	2-Br, 6-Me	0 0
	35	H	H	SO ₂ (Ph-4-Me)	2-I, 6-Me	0 0
	36	H	H	SO ₂ (Ph-4-Me)	2, 6-Me ₂	0 0
20	37	H	H	SO ₂ (Ph-4-Me)	2-Me, 6-Et	0 0
	38	H	H	SO ₂ (Ph-4-Me)	2-Me, 6-cPr	0 0
	39	H	H	SO ₂ (Ph-4-Me)	2, 6-cPr ₂	0 0
	40	H	H	SO ₂ (Ph-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	41	H	H	SO ₂ (Ph-4-Me)	2-cPr, 5, 6-Me ₂	0 0
25	42	H	Cl	H	2-Cl	0 0
	43	H	Cl	H	2-Br	0 0
	44	H	Cl	H	2-I	0 0
	45	H	Cl	H	2-Me	0 0
	46	H	Cl	H	2-Et	0 0
30	47	H	Cl	H	2-iPr	0 0
	48	H	Cl	H	2-cPr	0 0
	49	H	Cl	H	2-cBu	0 0
	50	H	Cl	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	51	H	Cl	H	2-cPr, 5-Me	0 0
35	52	H	Cl	H	2-OMe, 5-Me	0 0
	53	H	Cl	H	2-F, 6-iPr	0 0

	54	H	Cl	H	2-Cl, 6-cPr	0 0
	55	H	Cl	H	2-Br, 6-Me	0 0
	56	H	Cl	H	2-I, 6-Me	0 0
	57	H	Cl	H	2, 6-Me ₂	0 0
5	58	H	Cl	H	2-Me, 6-Et	0 0
	59	H	Cl	H	2-Me, 6-cPr	0 0
	60	H	Cl	H	2, 6-cPr ₂	0 0
	61	H	Cl	H	2-cPr, 3, 5-Me ₂	0 0
	62	H	Cl	H	2-cPr, 5, 6-Me ₂	0 0
10	63	H	Cl	SO ₂ (Ph-4-Me)	2-Cl	0 0
	64	H	Cl	SO ₂ (Ph-4-Me)	2-Br	0 0
	65	H	Cl	SO ₂ (Ph-4-Me)	2-I	0 0
	66	H	Cl	SO ₂ (Ph-4-Me)	2-Me	0 0
	67	H	Cl	SO ₂ (Ph-4-Me)	2-iPr	0 0
15	68	H	Cl	SO ₂ (Ph-4-Me)	2-cPr	0 0
	69	H	Cl	SO ₂ (Ph-4-Me)	2-cBu	0 0
	70	H	Cl	SO ₂ (Ph-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	71	H	Cl	SO ₂ (Ph-4-Me)	2-cPr, 5-Me	0 0
	72	H	Cl	SO ₂ (Ph-4-Me)	2-OMe, 5-Me	0 0
20	73	H	Cl	SO ₂ (Ph-4-Me)	2-F, 6-iPr	0 0
	74	H	Cl	SO ₂ (Ph-4-Me)	2-Cl, 6-cPr	0 0
	75	H	Cl	SO ₂ (Ph-4-Me)	2-Br, 6-Me	0 0
	76	H	Cl	SO ₂ (Ph-4-Me)	2-I, 6-Me	0 0
	77	H	Cl	SO ₂ (Ph-4-Me)	2, 6-Me ₂	0 0
25	78	H	Cl	SO ₂ (Ph-4-Me)	2-Me, 6-Et	0 0
	79	H	Cl	SO ₂ (Ph-4-Me)	2-Me, 6-cPr	0 0
	80	H	Cl	SO ₂ (Ph-4-Me)	2, 6-cPr ₂	0 0
	81	H	Cl	SO ₂ (Ph-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	82	H	Cl	SO ₂ (Ph-4-Me)	2-cPr, 5, 6-Me ₂	0 0
30	83	H	SiMe ₃	H	2-Cl	0 0
	84	H	SiMe ₃	H	2-Br	0 0
	85	H	SiMe ₃	H	2-I	0 0
	86	H	SiMe ₃	H	2-Me	0 0
	87	H	SiMe ₃	H	2-iPr	0 0
35	88	H	SiMe ₃	H	2-cPr	0 0
	89	H	SiMe ₃	H	2-cBu	0 0

	90	H	SiMe ₃	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	91	H	SiMe ₃	H	2-cPr, 5-Me	0 0
	92	H	SiMe ₃	H	2-OMe, 5-Me	0 0
	93	H	SiMe ₃	H	2-F, 6-iPr	0 0
5	94	H	SiMe ₃	H	2-Cl, 6-cPr	0 0
	95	H	SiMe ₃	H	2-Br, 6-Me	0 0
	96	H	SiMe ₃	H	2-I, 6-Me	0 0
	97	H	SiMe ₃	H	2, 6-Me ₂	0 0
	98	H	SiMe ₃	H	2-Me, 6-Et	0 0
10	99	H	SiMe ₃	H	2-Me, 6-cPr	0 0
	100	H	SiMe ₃	H	2, 6-cPr ₂	0 0
	101	H	SiMe ₃	H	2-cPr, 3, 5-Me ₂	0 0
	102	H	SiMe ₃	H	2-cPr, 5, 6-Me ₂	0 0
	103	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Cl	0 0
15	104	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Br	0 0
	105	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-I	0 0
	106	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Me	0 0
	107	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-iPr	0 0
	108	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-cPr	0 0
20	109	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-cBu	0 0
	110	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	111	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-cPr, 5-Me	0 0
	112	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-OMe, 5-Me	0 0
	113	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-F, 6-iPr	0 0
25	114	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Cl, 6-cPr	0 0
	115	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Br, 6-Me	0 0
	116	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-I, 6-Me	0 0
	117	H	SiMe ₃	SO ₂ (Ph-4-Me)	2, 6-Me ₂	0 0
	118	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Me, 6-Et	0 0
30	119	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-Me, 6-cPr	0 0
	120	H	SiMe ₃	SO ₂ (Ph-4-Me)	2, 6-cPr ₂	0 0
	121	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	122	H	SiMe ₃	SO ₂ (Ph-4-Me)	2-cPr, 5, 6-Me ₂	0 0
	123	Cl	H	H	H	0 0
35	124	Cl	H	H	2-F	0 0
	125	Cl	H	H	2-Cl	0 0

	126	Cl	H	H	2-Br	0 0
	127	Cl	H	H	2-I	0 0
	128	Cl	H	H	2-Me	0 0
	129	Cl	H	H	2-Me	1 0
5	130	Cl	H	H	2-Et	0 0
	131	Cl	H	H	2-Pr	0 0
	132	Cl	H	H	2-iPr	0 0
	133	Cl	H	H	2-Bu	0 0
	134	Cl	H	H	2-iBu	0 0
10	135	Cl	H	H	2-sBu	0 0
	136	Cl	H	H	2-tBu	0 0
	137	Cl	H	H	2-Pen	0 0
	138	Cl	H	H	2-Hx	0 0
	139	Cl	H	H	2-cPr	0 0
15	140	Cl	H	H	2-(cPr-1-F)	0 0
	141	Cl	H	H	2-(cPr-1-Cl)	0 0
	142	Cl	H	H	2-(cPr-1-Br)	0 0
	143	Cl	H	H	2-(cPr-1-I)	0 0
	144	Cl	H	H	2-(cPr-1-Me)	0 0
20	145	Cl	H	H	2-(cPr-1-Et)	0 0
	146	Cl	H	H	2-(cPr-1-Pr)	0 0
	147	Cl	H	H	2-(cPr-1-iPr)	0 0
	148	Cl	H	H	2-(cPr-1-Bu)	0 0
	149	Cl	H	H	2-(cPr-1-tBu)	0 0
25	150	Cl	H	H	2-(cPr-1-Hx)	0 0
	151	Cl	H	H	2-(cPr-1-cPr)	0 0
	152	Cl	H	H	2-(cPr-1-cBu)	0 0
	153	Cl	H	H	2-(cPr-1-cPen)	0 0
	154	Cl	H	H	2-(cPr-1-CH ₂ F)	0 0
30	155	Cl	H	H	2-(cPr-1-CH ₂ Cl)	0 0
	156	Cl	H	H	2-(cPr-1-CH ₂ Br)	0 0
	157	Cl	H	H	2-(cPr-1-CHF ₂)	0 0
	158	Cl	H	H	2-(cPr-1-CF ₃)	0 0
	159	Cl	H	H	2-(cPr-1-CCl ₃)	0 0
35	160	Cl	H	H	2-(cPr-1-CH ₂ CF ₃)	0 0
	161	Cl	H	H	2-(cPr-1-CH ₂ CCl ₃)	0 0

	162	Cl	H	H	2-(cPr-1-CH=CH ₂)	0 0
	163	Cl	H	H	2-(cPr-1-CH ₂ OMe)	0 0
	164	Cl	H	H	2-(cPr-1-CH ₂ OEt)	0 0
	165	Cl	H	H	2-(cPr-1-CH ₂ OiPr)	0 0
5	166	Cl	H	H	2-(cPr-1-CH ₂ SMe)	0 0
	167	Cl	H	H	2-(cPr-1-CH ₂ SEt)	0 0
	168	Cl	H	H	2-(cPr-1-CH ₂ S-iPr)	0 0
	169	Cl	H	H	2-(cPr-1-CH ₂ SOMe)	0 0
	170	Cl	H	H	2-(cPr-1-CH ₂ SOEt)	0 0
10	171	Cl	H	H	2-(cPr-1-CH ₂ SO ₂ Me)	0 0
	172	Cl	H	H	2-(cPr-1-CH ₂ SO ₂ Et)	0 0
	173	Cl	H	H	2-(cPr-1-CN)	0 0
	174	Cl	H	H	2-{cPr-1-C(=NOMe)Me}	0 0
	175	Cl	H	H	2-(cPr-1-COMe)	0 0
15	176	Cl	H	H	2-(cPr-1-COEt)	0 0
	177	Cl	H	H	2-(cPr-1-COPh)	0 0
	178	Cl	H	H	2-(cPr-1-CO ₂ H)	0 0
	179	Cl	H	H	2-(cPr-1-CO ₂ Me)	0 0
	180	Cl	H	H	2-(cPr-1-CO ₂ Et)	0 0
20	181	Cl	H	H	2-(cPr-1-CONH ₂)	0 0
	182	Cl	H	H	2-(cPr-1-CONMe ₂)	0 0
	183	Cl	H	H	2-(cPr-1-CONEt ₂)	0 0
	184	Cl	H	H	2-(cPr-1-Ph)	0 0
	185	Cl	H	H	2-{cPr-1-(Ph-2-F)}	0 0
25	186	Cl	H	H	2-{cPr-1-(Ph-2-Cl)}	0 0
	187	Cl	H	H	2-{cPr-1-(Ph-2-Me)}	0 0
	188	Cl	H	H	2-{cPr-1-(Ph-4-Cl)}	0 0
	189	Cl	H	H	2-{cPr-1-(Ph-4-Me)}	0 0
	190	Cl	H	H	2-{cPr-1-(2-Fur)}	0 0
30	191	Cl	H	H	2-{cPr-1-(2-Thi)}	0 0
	192	Cl	H	H	2-{cPr-1-(2-Pyr)}	0 0
	193	Cl	H	H	2-(cPr-1-NH ₂)	0 0
	194	Cl	H	H	2-(cPr-1-NHMe)	0 0
	195	Cl	H	H	2-(cPr-1-NMe ₂)	0 0
35	196	Cl	H	H	2-(cPr-1-NHCOMe)	0 0
	197	Cl	H	H	2-(cPr-1-NHCO ₂ Me)	0 0

	198	Cl	H	H	2-(cPr-1-NHCONMe ₂)	0 0
	199	Cl	H	H	2-(cPr-1-NHSO ₂ Me)	0 0
	200	Cl	H	H	2-(cPr-1-NO ₂)	0 0
	201	Cl	H	H	2-(cPr-1-OH)	0 0
5	202	Cl	H	H	2-(cPr-1-OMe)	0 0
	203	Cl	H	H	2-(cPr-1-OEt)	0 0
	204	Cl	H	H	2-(cPr-1-OCF ₃)	0 0
	205	Cl	H	H	2-(cPr-1-OPh)	0 0
	206	Cl	H	H	2-(cPr-1-SMe)	0 0
10	207	Cl	H	H	2-(cPr-1-SEt)	0 0
	208	Cl	H	H	2-(cPr-1-SPh)	0 0
	209	Cl	H	H	2-(cPr-1-SOMe)	0 0
	210	Cl	H	H	2-(cPr-1-SOEt)	0 0
	211	Cl	H	H	2-(cPr-1-SO ₂ Me)	0 0
15	212	Cl	H	H	2-(cPr-1-SO ₂ Et)	0 0
	213	Cl	H	H	2-(cPr-2-F)	0 0
	214	Cl	H	H	2-(cPr-2-Cl)	0 0
	215	Cl	H	H	2-(cPr-2-Br)	0 0
	216	Cl	H	H	2-(cPr-2-I)	0 0
20	217	Cl	H	H	2-(cPr-2-Me)	0 0
	218	Cl	H	H	2-(cPr-2-Et)	0 0
	219	Cl	H	H	2-(cPr-2-Pr)	0 0
	220	Cl	H	H	2-(cPr-2-iPr)	0 0
	221	Cl	H	H	2-(cPr-2-Bu)	0 0
25	222	Cl	H	H	2-(cPr-2-tBu)	0 0
	223	Cl	H	H	2-(cPr-2-Hx)	0 0
	224	Cl	H	H	2-(cPr-2-cPr)	0 0
	225	Cl	H	H	2-(cPr-2-CF ₃)	0 0
	226	Cl	H	H	2-(cPr-2-CN)	0 0
30	227	Cl	H	H	2-(cPr-2-CH ₂ OMe)	0 0
	228	Cl	H	H	2-(cPr-2-CH ₂ OEt)	0 0
	229	Cl	H	H	2-{cPr-2-C(=NOMe)Me}	0 0
	230	Cl	H	H	2-(cPr-2-COMe)	0 0
	231	Cl	H	H	2-(cPr-2-COEt)	0 0
35	232	Cl	H	H	2-(cPr-2-COPh)	0 0
	233	Cl	H	H	2-(cPr-2-CO ₂ H)	0 0

	234	Cl	H	H	2-(cPr-2-CO ₂ Me)	0 0
	235	Cl	H	H	2-(cPr-2-CO ₂ Et)	0 0
	236	Cl	H	H	2-(cPr-2-CONH ₂)	0 0
	237	Cl	H	H	2-(cPr-2-CONMe ₂)	0 0
5	238	Cl	H	H	2-(cPr-2-CONEt ₂)	0 0
	239	Cl	H	H	2-(cPr-2-NH ₂)	0 0
	240	Cl	H	H	2-(cPr-2-NHMe)	0 0
	241	Cl	H	H	2-(cPr-2-NMe ₂)	0 0
	242	Cl	H	H	2-(cPr-2-NHCOMe)	0 0
10	243	Cl	H	H	2-(cPr-2-NHCO ₂ Me)	0 0
	244	Cl	H	H	2-(cPr-2-NHCONMe ₂)	0 0
	245	Cl	H	H	2-(cPr-2-NHSO ₂ Me)	0 0
	246	Cl	H	H	2-(cPr-2-NO ₂)	0 0
	247	Cl	H	H	2-(cPr-2-OH)	0 0
15	248	Cl	H	H	2-(cPr-2-OMe)	0 0
	249	Cl	H	H	2-(cPr-2-OEt)	0 0
	250	Cl	H	H	2-(cPr-2-OCF ₃)	0 0
	251	Cl	H	H	2-(cPr-2-OPh)	0 0
	252	Cl	H	H	2-(cPr-2-SMe)	0 0
20	253	Cl	H	H	2-(cPr-2-SEt)	0 0
	254	Cl	H	H	2-(cPr-2-SPh)	0 0
	255	Cl	H	H	2-(cPr-2-SOMe)	0 0
	256	Cl	H	H	2-(cPr-2-SOEt)	0 0
	257	Cl	H	H	2-(cPr-2-SO ₂ Me)	0 0
25	258	Cl	H	H	2-(cPr-2-SO ₂ Et)	0 0
	259	Cl	H	H	2-(cPr-1, 2-Me ₂)	0 0
	260	Cl	H	H	2-(cPr-1-Me-2-Et)	0 0
	261	Cl	H	H	2-(cPr-1-Et-2-Me)	0 0
	262	Cl	H	H	2-(cPr-1, 2-Et ₂)	0 0
30	263	Cl	H	H	2-{cPr-1, 2-(CN) ₂ }	0 0
	264	Cl	H	H	2-(cPr-2, 2-F ₂)	0 0
	265	Cl	H	H	2-(cPr-2, 2-Cl ₂)	0 0
	266	Cl	H	H	2-(cPr-2, 2-Br ₂)	0 0
	267	Cl	H	H	2-(cPr-2, 2-Me ₂)	0 0
35	268	Cl	H	H	2-{cPr-2, 2-(CN) ₂ }	0 0
	269	Cl	H	H	2-(cPr-2-cis-3-cis-Me ₂)	0 0

	270	Cl	H	H	2-(cPr-2-cis-3-trans-Me ₂)	0 0
	271	Cl	H	H	2-(cPr-2-trans-3-trans-Me ₂)	0 0
	272	Cl	H	H	2-{cPr-cis-2-(CH ₂) ₃ -cis-3}	0 0
	273	Cl	H	H	2-{cPr-trans-2-(CH ₂) ₃ -trans-3}	0 0
5	274	Cl	H	H	2-{cPr-cis-2-(CH ₂) ₄ -cis-3}	0 0
	275	Cl	H	H	2-(cPr-trans-2-(CH ₂) ₄ -trans-3)	0 0
	276	Cl	H	H	2-{cPr-2, 3-(CN) ₂ }	0 0
	277	Cl	H	H	2-(cPr-1, 2, 2-Me ₃)	0 0
	278	Cl	H	H	2-(cPr-1, 2, 3-Me ₃)	0 0
10	279	Cl	H	H	2-(cPr-2, 2, 3-cis-Me ₃)	0 0
	280	Cl	H	H	2-(cPr-2, 2, 3-trans-Me ₃)	0 0
	281	Cl	H	H	2-(cPr-1, 2, 2, 3-Me ₄)	0 0
	282	Cl	H	H	2-(cPr-2, 2, 3, 3-Me ₄)	0 0
	283	Cl	H	H	2-(cPr-1, 2, 2, 3, 3-Me ₅)	0 0
15	284	Cl	H	H	2-cBu	0 0
	285	Cl	H	H	2-(cBu-1-Me)	0 0
	286	Cl	H	H	2-(cBu-1-CH=CH ₂)	0 0
	287	Cl	H	H	2-(cBu-1-CN)	0 0
	288	Cl	H	H	2-(cBu-1-CO ₂ H)	0 0
20	289	Cl	H	H	2-(cBu-1-COMe)	0 0
	290	Cl	H	H	2-(cBu-1-CO ₂ Me)	0 0
	291	Cl	H	H	2-(cBu-1-NH ₂)	0 0
	292	Cl	H	H	2-cPen	0 0
	293	Cl	H	H	2-cHx	0 0
25	294	Cl	H	H	2-CH ₂ F	0 0
	295	Cl	H	H	2-CH ₂ Cl	0 0
	296	Cl	H	H	2-CH ₂ Br	0 0
	297	Cl	H	H	2-CHF ₂	0 0
	298	Cl	H	H	2-CHCl ₂	0 0
30	299	Cl	H	H	2-CHBr ₂	0 0
	300	Cl	H	H	2-CF ₃	0 0
	301	Cl	H	H	2-CCl ₃	0 0
	302	Cl	H	H	2-CBr ₃	0 0
	303	Cl	H	H	2-CH=CH ₂	0 0
35	304	Cl	H	H	2-CMe=CH ₂	0 0
	305	Cl	H	H	2-CH=CHMe	0 0

	306	Cl	H	H	2-CH=CHCN	0 0
	307	Cl	H	H	2-CH ₂ CH=CH ₂	0 0
	308	Cl	H	H	2-C CH	0 0
	309	Cl	H	H	2-C CMe	0 0
5	310	Cl	H	H	2-C CSiMe ₃	0 0
	311	Cl	H	H	2-CH ₂ cPr	0 0
	312	Cl	H	H	2-CH ₂ cBu	0 0
	313	Cl	H	H	2-CH ₂ cPen	0 0
	314	Cl	H	H	2-CH ₂ cHx	0 0
10	315	Cl	H	H	2-CH ₂ Ph	0 0
	316	Cl	H	H	2-CH ₂ CN	0 0
	317	Cl	H	H	2-CHMeCN	0 0
	318	Cl	H	H	2-CMe ₂ CN	0 0
	319	Cl	H	H	2-CH ₂ COMe	0 0
15	320	Cl	H	H	2-CH ₂ CO ₂ Me	0 0
	321	Cl	H	H	2-CHMeCO ₂ Me	0 0
	322	Cl	H	H	2-CH ₂ CO ₂ Et	0 0
	323	Cl	H	H	2-CHMeCO ₂ Et	0 0
	324	Cl	H	H	2-CH ₂ OMe	0 0
20	325	Cl	H	H	2-CH ₂ OEt	0 0
	326	Cl	H	H	2-CH ₂ SMe	0 0
	327	Cl	H	H	2-CH ₂ SO ₂ Et	0 0
	328	Cl	H	H	2-CH(OMe) ₂	0 0
	329	Cl	H	H	2-CH(OCH ₂) ₂	0 0
25	330	Cl	H	H	2-CN	0 0
	331	Cl	H	H	2-CH=NOH	0 0
	332	Cl	H	H	2-CH=NOMe	0 0
	333	Cl	H	H	2-CMe=NOH	0 0
	334	Cl	H	H	2-CMe=NOMe	0 0
30	335	Cl	H	H	2-CHO	0 0
	336	Cl	H	H	2-COMe	0 0
	337	Cl	H	H	2-COtBu	0 0
	338	Cl	H	H	2-COPh	0 0
	339	Cl	H	H	2-CO ₂ Me	0 0
35	340	Cl	H	H	2-CO ₂ tBu	0 0
	341	Cl	H	H	2-CO ₂ H	0 0

	342	Cl	H	H	2-CONH ₂	0 0
	343	Cl	H	H	2-CONMe ₂	0 0
	344	Cl	H	H	2-Ph	0 0
	345	Cl	H	H	2-(Ph-2-Cl)	0 0
5	346	Cl	H	H	2-(Ph-2-Me)	0 0
	347	Cl	H	H	2-(Ph-2-CF ₃)	0 0
	348	Cl	H	H	2-(Ph-3-CF ₃)	0 0
	(Isomer A)					
	349	Cl	H	H	2-(Ph-3-CF ₃)	0 0
10	(Isomer B)					
	350	Cl	H	H	2-(1-Azr)	0 0
	351	Cl	H	H	2-(2-Azr)	0 0
	352	Cl	H	H	2-{2-Azr-1-SO ₂ (Ph-4-Me)}	0 0
	353	Cl	H	H	2-(2-Q ¹ -2-Me)	0 0
15	354	Cl	H	H	2-(2-Q ¹ -3-Me)	0 0
	355	Cl	H	H	2-(1-Pyrd)	0 0
	356	Cl	H	H	2-(1-Pyrr)	0 0
	357	Cl	H	H	2-(2-Fur)	0 0
	358	Cl	H	H	2-(3-Fur)	0 0
20	359	Cl	H	H	2-(2-Thi)	0 0
	360	Cl	H	H	2-(2-Thi-3-Cl)	0 0
	361	Cl	H	H	2-(3-Thi)	0 0
	362	Cl	H	H	2-(1-Pyza)	0 0
	363	Cl	H	H	2-(1-Pyza-3-Me)	0 0
25	364	Cl	H	H	2-(1-Pyza-3, 5-Me ₂)	0 0
	365	Cl	H	H	2-(1-Pyza-3-CF ₃)	0 0
	366	Cl	H	H	2-(1-Pyza-4-CF ₃)	0 0
	367	Cl	H	H	2-(1-Pyza-5-CF ₃)	0 0
	368	Cl	H	H	2-(3-Pyza-1-SO ₂ NMe ₂)	0 0
30	369	Cl	H	H	2-(5-Pyza-1-SO ₂ NMe ₂)	0 0
	370	Cl	H	H	2-(2-Thiz-4-Me)	0 0
	371	Cl	H	H	2-(2-Pyr)	0 0
	372	Cl	H	H	2-(3-Pyr)	0 0
	373	Cl	H	H	2-(4-Pyr)	0 0
35	374	Cl	H	H	2-(1-Pyr-2-OH)	0 0
	375	Cl	H	H	2-(2-Q ²)	0 0

	376	C1	H	H	2-(2-Q ³)	0 0
	377	C1	H	H	2-NH ₂	0 0
	378	C1	H	H	2-NHMe	0 0
	379	C1	H	H	2-NMe ₂	0 0
5	380	C1	H	H	2-NHCOMe	0 0
	381	C1	H	H	2-NHCO ₂ Me	0 0
	382	C1	H	H	2-NHCONMe ₂	0 0
	383	C1	H	H	2-NO ₂	0 0
	384	C1	H	H	2-OH	0 0
10	385	C1	H	H	2-OMe	0 0
	386	C1	H	H	2-OEt	0 0
	387	C1	H	H	2-OiPr	0 0
	388	C1	H	H	2-OtBu	0 0
	389	C1	H	H	2-OCH ₂ F	0 0
15	390	C1	H	H	2-OCHF ₂	0 0
	391	C1	H	H	2-OCF ₃	0 0
	392	C1	H	H	2-OCH ₂ CF ₃	0 0
	393	C1	H	H	2-OCH ₂ CCl ₃	0 0
	394	C1	H	H	2-OCH ₂ OMe	0 0
20	395	C1	H	H	2-OCH ₂ OEt	0 0
	396	C1	H	H	2-OCH ₂ CH ₂ OMe	0 0
	397	C1	H	H	2-OCH ₂ CH ₂ OEt	0 0
	398	C1	H	H	2-OPh	0 0
	399	C1	H	H	2-O(Ph-2-OH)	0 0
25	400	C1	H	H	2-O{Ph-2-O(3-Pyzn-6-Cl-4-OEt)}	0 0
	401	C1	H	H	2-SMe	0 0
	402	C1	H	H	2-SEt	0 0
	403	C1	H	H	2-S-iPr	0 0
	404	C1	H	H	2-SOMe	0 0
30	405	C1	H	H	2-SOEt	0 0
	406	C1	H	H	2-SO ₂ Me	0 0
	407	C1	H	H	2-SO ₂ Et	0 0
	408	C1	H	H	2-SiMe ₃	0 0
	409	C1	H	H	3-F	0 0
35	410	C1	H	H	3-Cl	0 0
	411	C1	H	H	3-Br	0 0

	412	Cl	H	H	3-I	0 0
	413	Cl	H	H	3-Me	0 0
	414	Cl	H	H	3-Et	0 0
	415	Cl	H	H	3-iPr	0 0
5	416	Cl	H	H	3-tBu	0 0
	417	Cl	H	H	3-cPr	0 0
	418	Cl	H	H	3-CF ₃	0 0
	419	Cl	H	H	3-(2-Fur)	0 0
	420	Cl	H	H	3-CN	0 0
10	421	Cl	H	H	3-CHO	0 0
	422	Cl	H	H	3-COMe	0 0
	423	Cl	H	H	3-CO ₂ Me	0 0
	424	Cl	H	H	3-NO ₂	0 0
	425	Cl	H	H	3-OMe	0 0
15	426	Cl	H	H	4-F	0 0
	427	Cl	H	H	4-Cl	0 0
	428	Cl	H	H	4-Br	0 0
	429	Cl	H	H	4-I	0 0
	430	Cl	H	H	4-Me	0 0
20	431	Cl	H	H	4-Et	0 0
	432	Cl	H	H	4-iPr	0 0
	433	Cl	H	H	4-tBu	0 0
	434	Cl	H	H	4-cPr	0 0
	435	Cl	H	H	4-OMe	0 0
25	436	Cl	H	H	4-SiMe ₃	0 0
	437	Cl	H	H	2, 3-F ₂	0 0
	438	Cl	H	H	2-F, 3-Cl	0 0
	439	Cl	H	H	2-F, 3-Br	0 0
	440	Cl	H	H	2-F, 3-Me	0 0
30	441	Cl	H	H	2-F, 3-CF ₃	0 0
	442	Cl	H	H	2-Cl, 3-F	0 0
	443	Cl	H	H	2, 3-Cl ₂	0 0
	444	Cl	H	H	2-Cl, 3-Br	0 0
	445	Cl	H	H	2-Cl, 3-Me	0 0
35	446	Cl	H	H	2-Cl, 3-CF ₃	0 0
	447	Cl	H	H	2-Cl, 3-OMe	0 0

	448	Cl	H	H	2-Br, 3-F	0 0
	449	Cl	H	H	2-Br, 3-Cl	0 0
	450	Cl	H	H	2-Br, 3-Me	0 0
	451	Cl	H	H	2-Br, 3-CF ₃	0 0
5	452	Cl	H	H	2-Br, 3-OMe	0 0
	453	Cl	H	H	2-Me, 3-F	0 0
	454	Cl	H	H	2-Me, 3-Cl	0 0
	455	Cl	H	H	2-Me, 3-Br	0 0
	456	Cl	H	H	2, 3-Me ₂	0 0
10	457	Cl	H	H	2-Me, 3-CF ₃	0 0
	458	Cl	H	H	2-Me, 3-NO ₂	0 0
	459	Cl	H	H	2-Me, 3-OMe	0 0
	460	Cl	H	H	2-Me, 3-O(3-Pyzn-6-Cl-4-OH)	0 0
	461	Cl	H	H	2-Et, 3-F	0 0
15	462	Cl	H	H	2-Et, 3-Cl	0 0
	463	Cl	H	H	2-Et, 3-Br	0 0
	464	Cl	H	H	2-Et, 3-Me	0 0
	465	Cl	H	H	2-iPr, 3-F	0 0
	466	Cl	H	H	2-iPr, 3-Cl	0 0
20	467	Cl	H	H	2-iPr, 3-Me	0 0
	468	Cl	H	H	2-iPr, 3-Et	0 0
	469	Cl	H	H	2-cPr, 3-F	0 0
	470	Cl	H	H	2-cPr, 3-Cl	0 0
	471	Cl	H	H	2-cPr, 3-Br	0 0
25	472	Cl	H	H	2-cPr, 3-Me	0 0
	473	Cl	H	H	2-cPr, 3-Et	0 0
	474	Cl	H	H	2-cPr, 3-CF ₃	0 0
	475	Cl	H	H	2-cPr, 3-CN	0 0
	476	Cl	H	H	2-cPr, 3-CO ₂ Me	0 0
30	477	Cl	H	H	2-cPr, 3-NO ₂	0 0
	478	Cl	H	H	2-cPr, 3-OMe	0 0
	479	Cl	H	H	2-cBu, 3-F	0 0
	480	Cl	H	H	2-cBu, 3-Cl	0 0
	481	Cl	H	H	2-cBu, 3-Br	0 0
35	482	Cl	H	H	2-cBu, 3-Me	0 0
	483	Cl	H	H	2-CF ₃ , 3-F	0 0

	484	C1	H	H	2-CF ₃ , 3-Cl	0 0
	485	C1	H	H	2-CF ₃ , 3-Br	0 0
	486	C1	H	H	2-CF ₃ , 3-Me	0 0
	487	C1	H	H	2-CN, 3-F	0 0
5	488	C1	H	H	2-CN, 3-Cl	0 0
	489	C1	H	H	2-CN, 3-Br	0 0
	490	C1	H	H	2-CN, 3-Me	0 0
	491	C1	H	H	2-CO ₂ Me, 3-F	0 0
	492	C1	H	H	2-CO ₂ Me, 3-Cl	0 0
10	493	C1	H	H	2-CO ₂ Me, 3-Br	0 0
	494	C1	H	H	2-CO ₂ Me, 3-Me	0 0
	495	C1	H	H	2-NO ₂ , 3-F	0 0
	496	C1	H	H	2-NO ₂ , 3-Cl	0 0
	497	C1	H	H	2-NO ₂ , 3-Br	0 0
15	498	C1	H	H	2-NO ₂ , 3-Me	0 0
	499	C1	H	H	2-OMe, 3-F	0 0
	500	C1	H	H	2-OMe, 3-Cl	0 0
	501	C1	H	H	2-OMe, 3-Br	0 0
	502	C1	H	H	2-OMe, 3-Me	0 0
20	503	C1	H	H	2-OMe, 3-OMe	0 0
	504	C1	H	H	2-CH ₂ -3	0 0
	505	C1	H	H	2-CH ₂ CH ₂ -3	0 0
	506	C1	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	507	C1	H	H	2-CHMeCH ₂ CH ₂ -3	0 0
25	508	C1	H	H	2-CH(OMe)CH ₂ CH ₂ -3	0 0
	509	C1	H	H	2-CH ₂ CHMeCH ₂ -3	0 0
	510	C1	H	H	2-CH ₂ CH ₂ CHMe-3	0 0
	511	C1	H	H	2-CMe ₂ CH ₂ CH ₂ -3	0 0
	512	C1	H	H	2-C(OMe) ₂ CH ₂ CH ₂ -3	0 0
30	513	C1	H	H	2-CH ₂ CMe ₂ CH ₂ -3	0 0
	514	C1	H	H	2-C(-CH ₂ CH ₂ -)-CH ₂ CH ₂ -3	0 0
	515	C1	H	H	2-CH(CH ₂)CH-CH ₂ -3	0 0
	516	C1	H	H	2-CH ₂ -CH(CH ₂)CH-3	0 0
	517	C1	H	H	2-C(=O)CH ₂ CH ₂ -3	0 0
35	518	C1	H	H	2-CH ₂ C(=O)CH ₂ -3	0 0
	519	C1	H	H	2-CH ₂ CH ₂ C(=O)-3	0 0

	520	C1	H	H	2-C(=NOMe)CH ₂ CH ₂ -3	0 0
	521	C1	H	H	2-CH ₂ CH ₂ CH ₂ CH ₂ -3	0 0
	522	C1	H	H	2-CHMeCH ₂ CH ₂ CH ₂ -3	0 0
	523	C1	H	H	2-CMe ₂ CH ₂ CH ₂ CH ₂ -3	0 0
5	524	C1	H	H	2-C(-CH ₂ CH ₂ -)-CH ₂ CH ₂ CH ₂ -3	0 0
	525	C1	H	H	2-CH(CH ₂)CH-CH ₂ CH ₂ -3	0 0
	526	C1	H	H	2-CH(OMe)CH ₂ CH ₂ CH ₂ -3	0 0
	527	C1	H	H	2-CH=CHCH=CH-3	0 0
	528	C1	H	H	2-CH ₂ CH ₂ O-3	0 0
10	529	C1	H	H	2-CHMeCH ₂ O-3	0 0
	530	C1	H	H	2-CH ₂ CHMeO-3	0 0
	531	C1	H	H	2-CH=CH-O-3	0 0
	532	C1	H	H	2-CMe=CH-O-3	0 0
	533	C1	H	H	2-CH=CMe-O-3	0 0
15	534	C1	H	H	2-CH=CH-S-3	0 0
	535	C1	H	H	2-N=CHCH=CH-3	0 0
	(Isomer A)					
	536	C1	H	H	2-N=CHCH=CH-3	0 0
	(Isomer B)					
20	537	C1	H	H	2-N=CH-O-3	0 0
	538	C1	H	H	2-N=CMe-O-3	0 0
	539	C1	H	H	2-OCH ₂ CH ₂ -3	0 0
	540	C1	H	H	2-OCMe ₂ CH ₂ -3	0 0
	541	C1	H	H	2-OCH=CH-3	0 0
25	542	C1	H	H	2-OCMe=CH-3	0 0
	543	C1	H	H	2-OCF ₂ O-3	0 0
	544	C1	H	H	2-OCH ₂ O-3	0 0
	545	C1	H	H	2-OCHMeO-3	0 0
	546	C1	H	H	2-OCMe ₂ O-3	0 0
30	547	C1	H	H	2-OCH ₂ CH ₂ O-3	0 0
	548	C1	H	H	2-OCH=N-3	0 0
	549	C1	H	H	2-OCMe=N-3	0 0
	550	C1	H	H	2, 4-F ₂	0 0
	551	C1	H	H	2-Cl, 4-F	0 0
35	552	C1	H	H	2, 4-Cl ₂	0 0
	553	C1	H	H	2-Br, 4-F	0 0

	554	Cl	H	H	2, 4-Br ₂	0 0
	555	Cl	H	H	2-Br, 4-Me	0 0
	556	Cl	H	H	2-Br, 4-tBu	0 0
	557	Cl	H	H	2-Me, 4-F	0 0
5	558	Cl	H	H	2-Me, 4-Cl	0 0
	559	Cl	H	H	2, 4-Me ₂	0 0
	560	Cl	H	H	2-Et, 4-F	0 0
	561	Cl	H	H	2-Et, 4-Cl	0 0
	562	Cl	H	H	2-Et, 4-I	0 0
10	563	Cl	H	H	2-Et, 4-Me	0 0
	564	Cl	H	H	2-iPr, 4-F	0 0
	565	Cl	H	H	2-iPr, 4-Cl	0 0
	566	Cl	H	H	2-iPr, 4-Br	0 0
	567	Cl	H	H	2-tBu, 4-Me	0 0
15	568	Cl	H	H	2-cPr, 4-F	0 0
	569	Cl	H	H	2-cPr, 4-Cl	0 0
	570	Cl	H	H	2-cPr, 4-Br	0 0
	571	Cl	H	H	2-cPr, 4-Me	0 0
	572	Cl	H	H	2-cPr, 4-Et	0 0
20	573	Cl	H	H	2-cPr, 4-CF ₃	0 0
	574	Cl	H	H	2-cPr, 4-CN	0 0
	575	Cl	H	H	2-cPr, 4-CO ₂ Me	0 0
	576	Cl	H	H	2-cPr, 4-NO ₂	0 0
	577	Cl	H	H	2-cPr, 4-OMe	0 0
25	578	Cl	H	H	2-cBu, 4-F	0 0
	579	Cl	H	H	2-cBu, 4-Cl	0 0
	580	Cl	H	H	2-cBu, 4-Br	0 0
	581	Cl	H	H	2-cBu, 4-Me	0 0
	582	Cl	H	H	2-CF ₃ , 4-F	0 0
30	583	Cl	H	H	2-CF ₃ , 4-Cl	0 0
	584	Cl	H	H	2-CF ₃ , 4-Br	0 0
	585	Cl	H	H	2-CF ₃ , 4-Me	0 0
	586	Cl	H	H	2-CN, 4-F	0 0
	587	Cl	H	H	2-CN, 4-Cl	0 0
35	588	Cl	H	H	2-CN, 4-Br	0 0
	589	Cl	H	H	2-CN, 4-Me	0 0

	590	Cl	H	H	2-CO ₂ Me, 4-F	0 0
	591	Cl	H	H	2-CO ₂ Me, 4-Cl	0 0
	592	Cl	H	H	2-CO ₂ Me, 4-Br	0 0
	593	Cl	H	H	2-CO ₂ Me, 4-Me	0 0
5	594	Cl	H	H	2-NO ₂ , 4-F	0 0
	595	Cl	H	H	2-NO ₂ , 4-Cl	0 0
	596	Cl	H	H	2-NO ₂ , 4-Br	0 0
	597	Cl	H	H	2-NO ₂ , 4-Me	0 0
	598	Cl	H	H	2-OMe, 4-F	0 0
10	599	Cl	H	H	2-OMe, 4-Cl	0 0
	600	Cl	H	H	2-OMe, 4-Br	0 0
	601	Cl	H	H	2-OMe, 4-Me	0 0
	602	Cl	H	H	2, 4-(OMe) ₂	0 0
	603	Cl	H	H	2, 5-F ₂	0 0
15	604	Cl	H	H	2-F, 5-Cl	0 0
	605	Cl	H	H	2-F, 5-Br	0 0
	606	Cl	H	H	2-F, 5-I	0 0
	607	Cl	H	H	2-F, 5-Me	0 0
	608	Cl	H	H	2-F, 5-CF ₃	0 0
20	609	Cl	H	H	2-F, 5-OMe	0 0
	610	Cl	H	H	2-Cl, 5-F	0 0
	611	Cl	H	H	2, 5-Cl ₂	0 0
	612	Cl	H	H	2-Cl, 5-Br	0 0
	613	Cl	H	H	2-Cl, 5-I	0 0
25	614	Cl	H	H	2-Cl, 5-Me	0 0
	615	Cl	H	H	2-Cl, 5-CF ₃	0 0
	616	Cl	H	H	2-Cl, 5-OMe	0 0
	617	Cl	H	H	2-Me, 5-F	0 0
	618	Cl	H	H	2-Me, 5-Cl	0 0
30	619	Cl	H	H	2-Me, 5-Br	0 0
	620	Cl	H	H	2-Me, 5-I	0 0
	621	Cl	H	H	2, 5-Me ₂	0 0
	622	Cl	H	H	2-Me, 5-Et	0 0
	623	Cl	H	H	2-Me, 5-iPr	0 0
35	624	Cl	H	H	2-Me, 5-CF ₃	0 0
	625	Cl	H	H	2-Me, 5-CN	0 0

	626	C1	H	H	2-Me, 5-CO ₂ H	0 0
	627	C1	H	H	2-Me, 5-NH ₂	0 0
	628	C1	H	H	2-Me, 5-NMe ₂	0 0
	629	C1	H	H	2-Me, 5-OMe	0 0
5	630	C1	H	H	2-Et, 5-F	0 0
	631	C1	H	H	2-Et, 5-Cl	0 0
	632	C1	H	H	2-Et, 5-Br	0 0
	633	C1	H	H	2-Et, 5-Me	0 0
	634	C1	H	H	2-Et, 5-CN	0 0
10	635	C1	H	H	2-Et, 5-OMe	0 0
	636	C1	H	H	2-iPr, 5-F	0 0
	637	C1	H	H	2-iPr, 5-Cl	0 0
	638	C1	H	H	2-iPr, 5-Br	0 0
	639	C1	H	H	2-iPr, 5-I	0 0
15	640	C1	H	H	2-iPr, 5-Me	0 0
	641	C1	H	H	2-iPr, 5-Et	0 0
	642	C1	H	H	2-iPr, 5-iPr	0 0
	643	C1	H	H	2-iPr, 5-CF ₃	0 0
	644	C1	H	H	2-iPr, 5-CN	0 0
20	645	C1	H	H	2-iPr, 5-OMe	0 0
	646	C1	H	H	2-tBu, 5-F	0 0
	647	C1	H	H	2-tBu, 5-Cl	0 0
	648	C1	H	H	2-tBu, 5-Br	0 0
	649	C1	H	H	2-tBu, 5-I	0 0
25	650	C1	H	H	2-tBu, 5-Me	0 0
	651	C1	H	H	2-tBu, 5-Et	0 0
	652	C1	H	H	2-tBu, 5-iPr	0 0
	653	C1	H	H	2-tBu, 5-tBu	0 0
	654	C1	H	H	2-tBu, 5-cPr	0 0
30	655	C1	H	H	2-tBu, 5-CF ₃	0 0
	656	C1	H	H	2-tBu, 5-CN	0 0
	657	C1	H	H	2-tBu, 5-OMe	0 0
	658	C1	H	H	2-cPr, 5-F	0 0
	659	C1	H	H	2-cPr, 5-Cl	0 0
35	660	C1	H	H	2-cPr, 5-Br	0 0
	661	C1	H	H	2-cPr, 5-I	0 0

	662	Cl	H	H	2-cPr, 5-Me	0 0
	663	Cl	H	H	2-cPr, 5-Et	0 0
	664	Cl	H	H	2-cPr, 5-iPr	0 0
	665	Cl	H	H	2-cPr, 5-tBu	0 0
5	666	Cl	H	H	2-cPr, 5-CF ₃	0 0
	667	Cl	H	H	2-cPr, 5-CN	0 0
	668	Cl	H	H	2-cPr, 5-OMe	0 0
	669	Cl	H	H	2-CF ₃ , 5-F	0 0
	670	Cl	H	H	2-CF ₃ , 5-Cl	0 0
10	671	Cl	H	H	2-CF ₃ , 5-Br	0 0
	672	Cl	H	H	2-CF ₃ , 5-I	0 0
	673	Cl	H	H	2-CF ₃ , 5-Me	0 0
	674	Cl	H	H	2-CF ₃ , 5-CN	0 0
	675	Cl	H	H	2-CF ₃ , 5-OMe	0 0
15	676	Cl	H	H	2-CH=CH ₂ , 5-F	0 0
	677	Cl	H	H	2-CH=CH ₂ , 5-Cl	0 0
	678	Cl	H	H	2-CH=CH ₂ , 5-Me	0 0
	679	Cl	H	H	2-CH=CHMe, 5-F	0 0
	680	Cl	H	H	2-CH=CHMe, 5-Cl	0 0
20	681	Cl	H	H	2-CH=CHMe, 5-Me	0 0
	682	Cl	H	H	2-CMe=CH ₂ , 5-F	0 0
	683	Cl	H	H	2-CMe=CH ₂ , 5-Cl	0 0
	684	Cl	H	H	2-CMe=CH ₂ , 5-Me	0 0
	685	Cl	H	H	2-CN, 5-F	0 0
25	686	Cl	H	H	2-CN, 5-Cl	0 0
	687	Cl	H	H	2-CN, 5-Br	0 0
	688	Cl	H	H	2-CN, 5-I	0 0
	689	Cl	H	H	2-CN, 5-Me	0 0
	690	Cl	H	H	2-CN, 5-CN	0 0
30	691	Cl	H	H	2-CN, 5-OMe	0 0
	692	Cl	H	H	2-CHO, 5-NMe ₂	0 0
	693	Cl	H	H	2-CO ₂ Me, 5-F	0 0
	694	Cl	H	H	2-CO ₂ Me, 5-Cl	0 0
	695	Cl	H	H	2-CO ₂ Me, 5-Br	0 0
35	696	Cl	H	H	2-CO ₂ Me, 5-I	0 0
	697	Cl	H	H	2-CO ₂ Me, 5-Me	0 0

	698	Cl	H	H	2-CO ₂ Me, 5-CN	0 0
	699	Cl	H	H	2-CO ₂ Me, 5-OMe	0 0
	700	Cl	H	H	2-OMe, 5-F	0 0
	701	Cl	H	H	2-OMe, 5-Cl	0 0
5	702	Cl	H	H	2-OMe, 5-Br	0 0
	703	Cl	H	H	2-OMe, 5-I	0 0
	704	Cl	H	H	2-OMe, 5-Me	0 0
	705	Cl	H	H	2-OMe, 5-Et	0 0
	706	Cl	H	H	2-OMe, 5-CF ₃	0 0
10	707	Cl	H	H	2-OMe, 5-CN	0 0
	708	Cl	H	H	2-OMe, 5-NO ₂	0 0
	709	Cl	H	H	2-OMe, 5-OMe	0 0
	710	Cl	H	H	2, 6-F ₂	0 0
	711	Cl	H	H	2-F, 6-Cl	0 0
15	712	Cl	H	H	2-F, 6-Br	0 0
	713	Cl	H	H	2-F, 6-I	0 0
	714	Cl	H	H	2-F, 6-Me	0 0
	715	Cl	H	H	2-F, 6-Et	0 0
	716	Cl	H	H	2-F, 6-Pr	0 0
20	717	Cl	H	H	2-F, 6-iPr	0 0
	718	Cl	H	H	2-F, 6-tBu	0 0
	719	Cl	H	H	2-F, 6-cPr	0 0
	720	Cl	H	H	2-F, 6-cBu	0 0
	721	Cl	H	H	2-F, 6-cPen	0 0
25	722	Cl	H	H	2-F, 6-CF ₃	0 0
	723	Cl	H	H	2-F, 6-CH ₂ OMe	0 0
	724	Cl	H	H	2-F, 6-CH ₂ OEt	0 0
	725	Cl	H	H	2-F, 6-CH ₂ CH ₂ OMe	0 0
	726	Cl	H	H	2-F, 6-CH ₂ SMe	0 0
30	727	Cl	H	H	2-F, 6-CH ₂ SEt	0 0
	728	Cl	H	H	2-F, 6-CHMeSEt	0 0
	729	Cl	H	H	2-F, 6-CN	0 0
	730	Cl	H	H	2-F, 6-CO ₂ Me	0 0
	731	Cl	H	H	2-F, 6-NO ₂	0 0
35	732	Cl	H	H	2-F, 6-OMe	0 0
	733	Cl	H	H	2, 6-Cl ₂	0 0

	734	Cl	H	H	2-Cl, 6-Br	0 0
	735	Cl	H	H	2-Cl, 6-I	0 0
	736	Cl	H	H	2-Cl, 6-Me	0 0
	737	Cl	H	H	2-Cl, 6-Et	0 0
5	738	Cl	H	H	2-Cl, 6-iPr	0 0
	739	Cl	H	H	2-Cl, 6-tBu	0 0
	740	Cl	H	H	2-Cl, 6-cPr	0 0
	741	Cl	H	H	2-Cl, 6-cBu	0 0
	742	Cl	H	H	2-Cl, 6-cPen	0 0
10	743	Cl	H	H	2-Cl, 6-CF ₃	0 0
	744	Cl	H	H	2-Cl, 6-CH=CH ₂	0 0
	745	Cl	H	H	2-Cl, 6-CH ₂ CH=CH ₂	0 0
	746	Cl	H	H	2-Cl, 6-CH ₂ CMe=CH ₂	0 0
	747	Cl	H	H	2-Cl, 6-CH ₂ OMe	0 0
15	748	Cl	H	H	2-Cl, 6-CH ₂ OEt	0 0
	749	Cl	H	H	2-Cl, 6-CH ₂ CH ₂ OMe	0 0
	750	Cl	H	H	2-Cl, 6-CH ₂ SMe	0 0
	751	Cl	H	H	2-Cl, 6-CH ₂ SEt	0 0
	752	Cl	H	H	2-Cl, 6-CN	0 0
20	753	Cl	H	H	2-Cl, 6-CO ₂ Me	0 0
	754	Cl	H	H	2-Cl, 6-NO ₂	0 0
	755	Cl	H	H	2-Cl, 6-OMe	0 0
	756	Cl	H	H	2, 6-Br ₂	0 0
	757	Cl	H	H	2-Br, 6-I	0 0
25	758	Cl	H	H	2-Br, 6-Me	0 0
	759	Cl	H	H	2-Br, 6-Et	0 0
	760	Cl	H	H	2-Br, 6-iPr	0 0
	761	Cl	H	H	2-Br, 6-tBu	0 0
	762	Cl	H	H	2-Br, 6-cPr	0 0
30	763	Cl	H	H	2-Br, 6-cBu	0 0
	764	Cl	H	H	2-Br, 6-cPen	0 0
	765	Cl	H	H	2-Br, 6-cHx	0 0
	766	Cl	H	H	2-Br, 6-CF ₃	0 0
	767	Cl	H	H	2-Br, 6-CH=CH ₂	0 0
35	768	Cl	H	H	2-Br, 6-CH ₂ CH=CH ₂	0 0
	769	Cl	H	H	2-Br, 6-CH ₂ CMe=CH ₂	0 0

	770	Cl	H	H	2-Br, 6-CH ₂ OMe	0 0
	771	Cl	H	H	2-Br, 6-CH ₂ OEt	0 0
	772	Cl	H	H	2-Br, 6-CH ₂ CH ₂ OMe	0 0
	773	Cl	H	H	2-Br, 6-CH ₂ SMe	0 0
5	774	Cl	H	H	2-Br, 6-CH ₂ SEt	0 0
	775	Cl	H	H	2-Br, 6-CN	0 0
	776	Cl	H	H	2-Br, 6-CO ₂ Me	0 0
	777	Cl	H	H	2-Br, 6-NO ₂	0 0
	778	Cl	H	H	2-Br, 6-OMe	0 0
10	779	Cl	H	H	2, 6-I ₂	0 0
	780	Cl	H	H	2-I, 6-Me	0 0
	781	Cl	H	H	2-I, 6-Et	0 0
	782	Cl	H	H	2-I, 6-iPr	0 0
	783	Cl	H	H	2-I, 6-tBu	0 0
15	784	Cl	H	H	2-I, 6-cPr	0 0
	785	Cl	H	H	2-I, 6-cBu	0 0
	786	Cl	H	H	2-I, 6-cPen	0 0
	787	Cl	H	H	2-I, 6-cHx	0 0
	788	Cl	H	H	2-I, 6-CF ₃	0 0
20	789	Cl	H	H	2-I, 6-CH=CH ₂	0 0
	790	Cl	H	H	2-I, 6-CH ₂ CH=CH ₂	0 0
	791	Cl	H	H	2-I, 6-CH ₂ CMe=CH ₂	0 0
	792	Cl	H	H	2-I, 6-CH ₂ OMe	0 0
	793	Cl	H	H	2-I, 6-CH ₂ OEt	0 0
25	794	Cl	H	H	2-I, 6-CH ₂ CH ₂ OMe	0 0
	795	Cl	H	H	2-I, 6-CH ₂ SMe	0 0
	796	Cl	H	H	2-I, 6-CH ₂ SEt	0 0
	797	Cl	H	H	2-I, 6-CN	0 0
	798	Cl	H	H	2-I, 6-CO ₂ Me	0 0
30	799	Cl	H	H	2-I, 6-NO ₂	0 0
	800	Cl	H	H	2-I, 6-OMe	0 0
	801	Cl	H	H	2, 6-Me ₂	0 0
	802	Cl	H	H	2-Me, 6-Et	0 0
	803	Cl	H	H	2-Me, 6-iPr	0 0
35	804	Cl	H	H	2-Me, 6-sBu	0 0
	805	Cl	H	H	2-Me, 6-tBu	0 0

	806	Cl	H	H	2-Me, 6-cPr	0 0
	807	Cl	H	H	2-Me, 6-(cPr-1-F)	0 0
	808	Cl	H	H	2-Me, 6-(cPr-1-Cl)	0 0
	809	Cl	H	H	2-Me, 6-(cPr-1-Br)	0 0
5	810	Cl	H	H	2-Me, 6-(cPr-1-I)	0 0
	811	Cl	H	H	2-Me, 6-(cPr-1-Me)	0 0
	812	Cl	H	H	2-Me, 6-(cPr-1-Et)	0 0
	813	Cl	H	H	2-Me, 6-(cPr-1-cPr)	0 0
	814	Cl	H	H	2-Me, 6-(cPr-1-CN)	0 0
10	815	Cl	H	H	2-Me, 6-(cPr-1-OMe)	0 0
	816	Cl	H	H	2-Me, 6-(cPr-1-OEt)	0 0
	817	Cl	H	H	2-Me, 6-(cPr-2-Me)	0 0
	818	Cl	H	H	2-Me, 6-(cPr-2-Et)	0 0
	819	Cl	H	H	2-Me, 6-(cPr-2-CN)	0 0
15	820	Cl	H	H	2-Me, 6-(cPr-2-OMe)	0 0
	821	Cl	H	H	2-Me, 6-(cPr-2-OEt)	0 0
	822	Cl	H	H	2-Me, 6-(cPr-2-OCF ₃)	0 0
	823	Cl	H	H	2-Me, 6-(cPr-1, 2-Me ₂)	0 0
	824	Cl	H	H	2-Me, 6-{cPr-1, 2-(CN) ₂ }	0 0
20	825	Cl	H	H	-Me, 6-(cPr-2, 2-Me ₂)	0 0
	826	Cl	H	H	2-Me, 6-(cPr-2, 2-F ₂)	0 0
	827	Cl	H	H	2-Me, 6-(cPr-2, 2-Cl ₂)	0 0
	828	Cl	H	H	2-Me, 6-(cPr-2, 2-Br ₂)	0 0
	829	Cl	H	H	2-Me, 6-{cPr-2, 2-(CN) ₂ }	0 0
25	830	Cl	H	H	2-Me, 6-cBu	0 0
	831	Cl	H	H	2-Me, 6-cPen	0 0
	832	Cl	H	H	2-Me, 6-cHx	0 0
	833	Cl	H	H	2-Me, 6-CF ₃	0 0
	834	Cl	H	H	2-Me, 6-CH=CH ₂	0 0
30	835	Cl	H	H	2-Me, 6-CH ₂ CH=CH ₂	0 0
	836	Cl	H	H	2-Me, 6-CH=CH-NO ₂	0 0
	837	Cl	H	H	2-Me, 6-CH ₂ OMe	0 0
	838	Cl	H	H	2-Me, 6-CH ₂ OEt	0 0
	839	Cl	H	H	2-Me, 6-CH ₂ CH ₂ OMe	0 0
35	840	Cl	H	H	2-Me, 6-CH ₂ SMe	0 0
	841	Cl	H	H	2-Me, 6-CH ₂ SEt	0 0

	842	Cl	H	H	2-Me, 6-CN	0 0
	843	Cl	H	H	2-Me, 6-CO ₂ Me	0 0
	844	Cl	H	H	2-Me, 6-NO ₂	0 0
	845	Cl	H	H	2-Me, 6-OMe	0 0
5	846	Cl	H	H	2, 6-Et ₂	0 0
	847	Cl	H	H	2-Et, 6-iPr	0 0
	848	Cl	H	H	2-Et, 6-sBu	0 0
	849	Cl	H	H	2-Et, 6-tBu	0 0
	850	Cl	H	H	2-Et, 6-cPr	0 0
10	851	Cl	H	H	2-Et, 6-(cPr-1-F)	0 0
	852	Cl	H	H	2-Et, 6-(cPr-1-Cl)	0 0
	853	Cl	H	H	2-Et, 6-(cPr-1-Br)	0 0
	854	Cl	H	H	2-Et, 6-(cPr-1-I)	0 0
	855	Cl	H	H	2-Et, 6-(cPr-1-Me)	0 0
15	856	Cl	H	H	2-Et, 6-(cPr-1-Et)	0 0
	857	Cl	H	H	2-Et, 6-(cPr-1-cPr)	0 0
	858	Cl	H	H	2-Et, 6-(cPr-1-CN)	0 0
	859	Cl	H	H	2-Et, 6-(cPr-1-OMe)	0 0
	860	Cl	H	H	2-Et, 6-(cPr-1-OEt)	0 0
20	861	Cl	H	H	2-Et, 6-(cPr-2-Me)	0 0
	862	Cl	H	H	2-Et, 6-(cPr-2-Et)	0 0
	863	Cl	H	H	2-Et, 6-(cPr-2-CN)	0 0
	864	Cl	H	H	2-Et, 6-(cPr-2-OMe)	0 0
	865	Cl	H	H	2-Et, 6-(cPr-2-OEt)	0 0
25	866	Cl	H	H	2-Et, 6-(cPr-2-OCF ₃)	0 0
	867	Cl	H	H	2-Et, 6-(cPr-1, 2-Me ₂)	0 0
	868	Cl	H	H	2-Et, 6-{cPr-1, 2-(CN) ₂ }	0 0
	869	Cl	H	H	2-Et, 6-(cPr-2, 2-Me ₂)	0 0
	870	Cl	H	H	2-Et, 6-(cPr-2, 2-F ₂)	0 0
30	871	Cl	H	H	2-Et, 6-(cPr-2, 2-Cl ₂)	0 0
	872	Cl	H	H	2-Et, 6-(cPr-2, 2-Br ₂)	0 0
	873	Cl	H	H	2-Et, 6-{cPr-2, 2-(CN) ₂ }	0 0
	874	Cl	H	H	2-Et, 6-cBu	0 0
	875	Cl	H	H	2-Et, 6-cPen	0 0
35	876	Cl	H	H	2-Et, 6-cHx	0 0
	877	Cl	H	H	2-Et, 6-CF ₃	0 0

	878	Cl	H	H	2-Et, 6-CH=CH ₂	0 0
	879	Cl	H	H	2-Et, 6-CH ₂ CH=CH ₂	0 0
	880	Cl	H	H	2-Et, 6-CH ₂ CMe=CH ₂	0 0
	881	Cl	H	H	2-Et, 6-CH ₂ OMe	0 0
5	882	Cl	H	H	2-Et, 6-CH ₂ OEt	0 0
	883	Cl	H	H	2-Et, 6-CH ₂ CH ₂ OMe	0 0
	884	Cl	H	H	2-Et, 6-CH ₂ SMe	0 0
	885	Cl	H	H	2-Et, 6-CH ₂ SEt	0 0
	886	Cl	H	H	2-Et, 6-CN	0 0
10	887	Cl	H	H	2-Et, 6-CO ₂ Me	0 0
	888	Cl	H	H	2-Et, 6-NO ₂	0 0
	889	Cl	H	H	2-Et, 6-OMe	0 0
	890	Cl	H	H	2, 6-Pr ₂	0 0
	891	Cl	H	H	2-Pr, 6-iPr	0 0
15	892	Cl	H	H	2-Pr, 6-tBu	0 0
	893	Cl	H	H	2-Pr, 6-cPr	0 0
	894	Cl	H	H	2, 6-iPr ₂	0 0
	895	Cl	H	H	2-iPr, 6-tBu	0 0
	896	Cl	H	H	2-iPr, 6-cPr	0 0
20	897	Cl	H	H	2-iPr, 6-cBu	0 0
	898	Cl	H	H	2-iPr, 6-cPen	0 0
	899	Cl	H	H	2-iPr, 6-cHx	0 0
	900	Cl	H	H	2-iPr, 6-CF ₃	0 0
	901	Cl	H	H	2-iPr, 6-CH=CH ₂	0 0
25	902	Cl	H	H	2-iPr, 6-CH ₂ CH=CH ₂	0 0
	903	Cl	H	H	2-iPr, 6-CH ₂ CMe=CH ₂	0 0
	904	Cl	H	H	2-iPr, 6-CH ₂ OMe	0 0
	905	Cl	H	H	2-iPr, 6-CH ₂ OEt	0 0
	906	Cl	H	H	2-iPr, 6-CH ₂ CH ₂ OMe	0 0
30	907	Cl	H	H	2-iPr, 6-CH ₂ SMe	0 0
	908	Cl	H	H	2-iPr, 6-CH ₂ SEt	0 0
	909	Cl	H	H	2-iPr, 6-CN	0 0
	910	Cl	H	H	2-iPr, 6-CO ₂ Me	0 0
	911	Cl	H	H	2-iPr, 6-NO ₂	0 0
35	912	Cl	H	H	2-iPr, 6-OMe	0 0
	913	Cl	H	H	2, 6-tBu ₂	0 0

	914	Cl	H	H	2-tBu, 6-cPr	0 0
	915	Cl	H	H	2-tBu, 6-cBu	0 0
	916	Cl	H	H	2-tBu, 6-cPen	0 0
	917	Cl	H	H	2-tBu, 6-cHx	0 0
5	918	Cl	H	H	2-tBu, 6-CF ₃	0 0
	919	Cl	H	H	2-tBu, 6-CH=CH ₂	0 0
	920	Cl	H	H	2-tBu, 6-CH ₂ CH=CH ₂	0 0
	921	Cl	H	H	2-tBu, 6-CH ₂ CMe=CH ₂	0 0
	922	Cl	H	H	2-tBu, 6-CH ₂ OMe	0 0
10	923	Cl	H	H	2-tBu, 6-CH ₂ OEt	0 0
	924	Cl	H	H	2-tBu, 6-CH ₂ CH ₂ OMe	0 0
	925	Cl	H	H	2-tBu, 6-CH ₂ SMe	0 0
	926	Cl	H	H	2-tBu, 6-CH ₂ SEt	0 0
	927	Cl	H	H	2-tBu, 6-CN	0 0
15	928	Cl	H	H	2-tBu, 6-CO ₂ Me	0 0
	929	Cl	H	H	2-tBu, 6-NO ₂	0 0
	930	Cl	H	H	2-tBu, 6-OMe	0 0
	931	Cl	H	H	2, 6-cPr ₂	0 0
	932	Cl	H	H	2-cPr, 6-(cPr-1-cPr)	0 0
20	933	Cl	H	H	2-cPr, 6-(cPr-1-CN)	0 0
	934	Cl	H	H	2-cPr, 6-(cPr-1-OMe)	0 0
	935	Cl	H	H	2-cPr, 6-(cPr-1-OEt)	0 0
	936	Cl	H	H	2-cPr, 6-(cPr-2-Me)	0 0
	937	Cl	H	H	2-cPr, 6-(cPr-2-Et)	0 0
25	938	Cl	H	H	2-cPr, 6-(cPr-2-CN)	0 0
	939	Cl	H	H	2-cPr, 6-(cPr-2-OMe)	0 0
	940	Cl	H	H	2-cPr, 6-(cPr-2-OEt)	0 0
	941	Cl	H	H	2-cPr, 6-(cPr-2-OCF ₃)	0 0
	942	Cl	H	H	2-cPr, 6-(cPr-1, 2-Me ₂)	0 0
30	943	Cl	H	H	2-cPr, 6-{cPr-1, 2-(CN) ₂ }	0 0
	944	Cl	H	H	2-cPr, 6-(cPr-2, 2-Me ₂)	0 0
	945	Cl	H	H	2-cPr, 6-(cPr-2, 2-F ₂)	0 0
	946	Cl	H	H	2-cPr, 6-(cPr-2, 2-Cl ₂)	0 0
	947	Cl	H	H	2-cPr, 6-(cPr-2, 2-Br ₂)	0 0
35	948	Cl	H	H	2-cPr, 6-{cPr-2, 2-(CN) ₂ }	0 0
	949	Cl	H	H	2-cPr, 6-cBu	0 0

	950	Cl	H	H	2-cPr, 6-cPen	0 0
	951	Cl	H	H	2-cPr, 6-cHx	0 0
	952	Cl	H	H	2-cPr, 6-CF ₃	0 0
	953	Cl	H	H	2-cPr, 6-CH=CH ₂	0 0
5	954	Cl	H	H	2-cPr, 6-CH ₂ CH=CH ₂	0 0
	955	Cl	H	H	2-cPr, 6-CH ₂ CMe=CH ₂	0 0
	956	Cl	H	H	2-cPr, 6-CH ₂ OMe	0 0
	957	Cl	H	H	2-cPr, 6-CH ₂ OEt	0 0
	958	Cl	H	H	2-cPr, 6-CH ₂ CH ₂ OMe	0 0
10	959	Cl	H	H	2-cPr, 6-CH ₂ SMe	0 0
	960	Cl	H	H	2-cPr, 6-CH ₂ SEt	0 0
	961	Cl	H	H	2-cPr, 6-CN	0 0
	962	Cl	H	H	2-cPr, 6-CO ₂ Me	0 0
	963	Cl	H	H	2-cPr, 6-NO ₂	0 0
15	964	Cl	H	H	2-cPr, 6-OMe	0 0
	965	Cl	H	H	2-cPr, 6-OEt	0 0
	966	Cl	H	H	2-cPr, 6-SMe	0 0
	967	Cl	H	H	2-CF ₃ , 6-CH=CH ₂	0 0
	968	Cl	H	H	2-CF ₃ , 6-CH ₂ CH=CH ₂	0 0
20	969	Cl	H	H	2-CF ₃ , 6-CH ₂ CMe=CH ₂	0 0
	970	Cl	H	H	2-CF ₃ , 6-CH ₂ OMe	0 0
	971	Cl	H	H	2-CF ₃ , 6-CH ₂ OEt	0 0
	972	Cl	H	H	2-CF ₃ , 6-CH ₂ CH ₂ OMe	0 0
	973	Cl	H	H	2-CF ₃ , 6-CH ₂ SMe	0 0
25	974	Cl	H	H	2-CF ₃ , 6-CH ₂ SEt	0 0
	975	Cl	H	H	2-CF ₃ , 6-CN	0 0
	976	Cl	H	H	2-CF ₃ , 6-CO ₂ Me	0 0
	977	Cl	H	H	2-CF ₃ , 6-NO ₂	0 0
	978	Cl	H	H	2-CF ₃ , 6-OMe	0 0
30	979	Cl	H	H	2, 6-(CH=CHMe) ₂	0 0
	980	Cl	H	H	2-CH=CHMe, 6-CN	0 0
	981	Cl	H	H	2-CH=CHMe, 6-OMe	0 0
	982	Cl	H	H	2, 6-(CH ₂ CH=CH ₂) ₂	0 0
	983	Cl	H	H	2-CH ₂ CH=CH ₂ , 6-CN	0 0
35	984	Cl	H	H	2-CH ₂ CH=CH ₂ , 6-OMe	0 0
	985	Cl	H	H	2, 6-(CN) ₂	0 0

	986	Cl	H	H	2-CN, 6-OMe	0 0
	987	Cl	H	H	2, 6-(OMe) ₂	0 0
	988	Cl	H	H	3, 5-F ₂	0 0
	989	Cl	H	H	3-F, 5-Cl	0 0
5	990	Cl	H	H	3-F, 5-Br	0 0
	991	Cl	H	H	3-F, 5-I	0 0
	992	Cl	H	H	3, 5-Cl ₂	0 0
	993	Cl	H	H	3-Cl, 5-Br	0 0
	994	Cl	H	H	3-Cl, 5-I	0 0
10	995	Cl	H	H	3, 5-Br ₂	0 0
	996	Cl	H	H	3-Br, 5-I	0 0
	997	Cl	H	H	3, 5-I ₂	0 0
	998	Cl	H	H	3, 5-Me ₂	0 0
	999	Cl	H	H	3-Me, 5-Et	0 0
15	1000	Cl	H	H	3-Me, 5-iPr	0 0
	1001	Cl	H	H	3-Me, 5-cPr	0 0
	1002	Cl	H	H	3-Me, 5-cBu	0 0
	1003	Cl	H	H	3-Me, 5-CF ₃	0 0
	1004	Cl	H	H	3-Me, 5-CN	0 0
20	1005	Cl	H	H	3-Me, 5-NO ₂	0 0
	1006	Cl	H	H	3-Me, 5-OMe	0 0
	1007	Cl	H	H	3, 5-iPr ₂	0 0
	1008	Cl	H	H	3-iPr, 5-CF ₃	0 0
	1009	Cl	H	H	3, 5-(CF ₃) ₂	0 0
25	1010	Cl	H	H	2-F, 3, 5-Me ₂	0 0
	1011	Cl	H	H	2-Cl, 3, 5-Me ₂	0 0
	1012	Cl	H	H	2, 3, 5-Cl ₃	0 0
	1013	Cl	H	H	2-Br, 3, 5-Me ₂	0 0
	1014	Cl	H	H	2-Br, 3, 5-Cl ₂	0 0
30	1015	Cl	H	H	2-I, 3, 5-Me ₂	0 0
	1016	Cl	H	H	2, 3, 5-Me ₃	0 0
	1017	Cl	H	H	2-Me, 3, 5-Cl ₂	0 0
	1018	Cl	H	H	2-Et, 3, 5-Me ₂	0 0
	1019	Cl	H	H	2-Et, 3, 5-Cl ₂	0 0
35	1020	Cl	H	H	2-Pr, 3, 5-Me ₂	0 0
	1021	Cl	H	H	2-iPr, 3, 5-Me ₂	0 0

	1022	Cl	H	H	2-iPr, 3, 5-Cl ₂	0 0
	1023	Cl	H	H	2-cPr, 3, 5-Me ₂	0 0
	1024	Cl	H	H	2-cBu, 3, 5-Me ₂	0 0
	1025	Cl	H	H	2-CN, 3, 5-Me ₂	0 0
5	1026	Cl	H	H	2-OMe, 3, 5-Me ₂	0 0
	1027	Cl	H	H	2-SMe, 3, 5-Me ₂	0 0
	1028	Cl	H	H	2-F, 3, 6-Me ₂	0 0
	1029	Cl	H	H	2-F, 3-Me, 6-cPr	0 0
	1030	Cl	H	H	2-F, 3-Me, 6-OMe	0 0
10	1031	Cl	H	H	2-Cl, 3, 6-Me ₂	0 0
	1032	Cl	H	H	2-Cl, 3-Me, 6-cPr	0 0
	1033	Cl	H	H	2-Cl, 3-Me, 6-OMe	0 0
	1034	Cl	H	H	2, 3, 6-Cl ₃	0 0
	1035	Cl	H	H	2, 3-Cl ₂ , 6-cPr	0 0
15	1036	Cl	H	H	2-Br, 3, 6-Cl ₂	0 0
	1037	Cl	H	H	2, 6-Br ₂ , 3-Cl	0 0
	1038	Cl	H	H	2-Br, 3-Cl, 6-cPr	0 0
	1039	Cl	H	H	2, 6-Br ₂ , 3-Me	0 0
	1040	Cl	H	H	2-Br, 3, 6-Me ₂	0 0
20	1041	Cl	H	H	2-Br, 3-Me, 6-cPr	0 0
	1042	Cl	H	H	2-Br, 3-Me, 6-OMe	0 0
	1043	Cl	H	H	2, 6-Br ₂ , 3-CN	0 0
	1044	Cl	H	H	2-Br, 3-CN, 6-cPr	0 0
	1045	Cl	H	H	2, 6-Br ₂ , 3-OMe	0 0
25	1046	Cl	H	H	2-Br, 3-OMe, 6-cPr	0 0
	1047	Cl	H	H	2-I, 3, 6-Me ₂	0 0
	1048	Cl	H	H	2-Me, 3, 6-F ₂	0 0
	1049	Cl	H	H	2-Me, 3-F, 6-Cl	0 0
	1050	Cl	H	H	2-Me, 3-F, 6-Br	0 0
30	1051	Cl	H	H	2-Me, 3-F, 6-I	0 0
	1052	Cl	H	H	2-Me, 3-F, 6-cPr	0 0
	1053	Cl	H	H	2-Me, 3-Cl, 6-Br	0 0
	1054	Cl	H	H	2-Me, 3-Cl, 6-I	0 0
	1055	Cl	H	H	2-Me, 3-Cl, 6-cPr	0 0
35	1056	Cl	H	H	2, 3-Me ₂ , 6-F	0 0
	1057	Cl	H	H	2, 3-Me ₂ , 6-Cl	0 0

	1058	Cl	H	H	2, 3-Me ₂ , 6-Br	0 0
	1059	Cl	H	H	2, 3-Me ₂ , 6-I	0 0
	1060	Cl	H	H	2, 3, 6-Me ₃	0 0
	1061	Cl	H	H	2, 3-Me ₂ , 6-cPr	0 0
5	1062	Cl	H	H	2, 3-Me ₂ , 6-CN	0 0
	1063	Cl	H	H	2, 3-Me ₂ , 6-CH=NOMe	0 0
	1064	Cl	H	H	2, 3-Me ₂ , 6-OMe	0 0
	1065	Cl	H	H	2-Me, 3-OMe, 6-Cl	0 0
	1066	Cl	H	H	2-Me, 3-OMe, 6-Br	0 0
10	1067	Cl	H	H	2-Me, 3-OMe, 6-I	0 0
	1068	Cl	H	H	2, 6-Me ₂ , 3-OMe	0 0
	1069	Cl	H	H	2-Me, 3-OMe, 6-cPr	0 0
	1070	Cl	H	H	2-cPr, 3-Me, 6-F	0 0
	1071	Cl	H	H	2-cPr, 3-Me, 6-Cl	0 0
15	1072	Cl	H	H	2-cPr, 3-Me, 6-Br	0 0
	1073	Cl	H	H	2-cPr, 3, 6-Me ₂	0 0
	1074	Cl	H	H	2-cPr, 3-Me, 6-Et	0 0
	1075	Cl	H	H	2, 6-cPr ₂ , 3-Me	0 0
	1076	Cl	H	H	2-cPr, 3-Me, 6-CN	0 0
20	1077	Cl	H	H	2-cPr, 3-Me, 6-OMe	0 0
	1078	Cl	H	H	2-cBu, 3, 6-Me ₂	0 0
	1079	Cl	H	H	2-CH ₂ CH=CH ₂ , 3, 6-Me ₂	0 0
	1080	Cl	H	H	2-CH ₂ CH=CH ₂ , 3-OMe, 6-Et	0 0
	1081	Cl	H	H	2-CN, 3, 6-Me ₂	0 0
25	1082	Cl	H	H	2-OMe, 3, 6-Me ₂	0 0
	1083	Cl	H	H	2-CH ₂ SMe, 3, 6-Me ₂	0 0
	1084	Cl	H	H	6-F, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1085	Cl	H	H	6-Cl, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1086	Cl	H	H	6-Br, 2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1087	Cl	H	H	6-I, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1088	Cl	H	H	6-Me, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1089	Cl	H	H	6-Et, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1090	Cl	H	H	6-iPr, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1091	Cl	H	H	6-cPr, 2-CH ₂ CH ₂ CH ₂ -3	0 0
35	1092	Cl	H	H	6-CN, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1093	Cl	H	H	6-OMe, 2-CH ₂ CH ₂ CH ₂ -3	0 0

	1094	Cl	H	H	6-Cl, 2-OCH ₂ CH ₂ -3	0 0
	1095	Cl	H	H	6-Br, 2-OCH ₂ CH ₂ -3	0 0
	1096	Cl	H	H	6-Me, 2-OCH ₂ CH ₂ -3	0 0
	1097	Cl	H	H	6-Et, 2-OCH ₂ CH ₂ -3	0 0
5	1098	Cl	H	H	6-cPr, 2-OCH ₂ CH ₂ -3	0 0
	1099	Cl	H	H	6-Br, 2-OCH=CH-3	0 0
	1100	Cl	H	H	6-Me, 2-OCH=CH-3	0 0
	1101	Cl	H	H	6-Et, 2-OCH=CH-3	0 0
	1102	Cl	H	H	6-cPr, 2-OCH=CH-3	0 0
10	1103	Cl	H	H	6-Cl, 2-CH ₂ CH ₂ O-3	0 0
	1104	Cl	H	H	6-Br, 2-CH ₂ CH ₂ O-3	0 0
	1105	Cl	H	H	6-Me, 2-CH ₂ CH ₂ O-3	0 0
	1106	Cl	H	H	6-Et, 2-CH ₂ CH ₂ O-3	0 0
	1107	Cl	H	H	6-cPr, 2-CH ₂ CH ₂ O-3	0 0
15	1108	Cl	H	H	6-Br, 2-CH=CHO-3	0 0
	1109	Cl	H	H	6-Me, 2-CH=CHO-3	0 0
	1110	Cl	H	H	6-Et, 2-CH=CHO-3	0 0
	1111	Cl	H	H	6-cPr, 2-CH=CHO-3	0 0
	1112	Cl	H	H	2, 4, 6-F ₃	0 0
20	1113	Cl	H	H	2, 4-F ₂ , 6-Me	0 0
	1114	Cl	H	H	2, 4-F ₂ , 6-cPr	0 0
	1115	Cl	H	H	2-F, 4, 6-cPr ₂	0 0
	1116	Cl	H	H	2, 4, 6-Cl ₃	0 0
	1117	Cl	H	H	2, 4, 6-Br ₃	0 0
25	1118	Cl	H	H	2, 4-Br ₂ , 3, 6-Me ₂	0 0
	1119	Cl	H	H	2-Br, 4, 6-Me ₂	0 0
	1120	Cl	H	H	2, 4-I ₂ , 6-Et	0 0
	1121	Cl	H	H	2-Me, 4-F, 6-cPr	0 0
	1122	Cl	H	H	2, 4, 6-Me ₃	0 0
30	1123	Cl	H	H	2, 4-Me ₂ , 6-cPr	0 0
	1124	Cl	H	H	2-Br, 3, 5, 6-Me ₃	0 0
	1125	Cl	H	H	2, 3, 5, 6-Me ₄	0 0
	1126	Cl	H	H	2, 3, 5-Me ₃ , 6-cPr	0 0
	1127	Cl	H	H	2, 3, 5-Me ₃ , 6-CN	0 0
35	1128	Cl	H	H	2, 3, 5-Me ₃ , 6-OMe	0 0
	1129	Cl	H	H	5, 6-Me ₂ , 2-CH ₂ CH ₂ CH ₂ -3	0 0

	1130	Cl	H	H	5-Me, 6-cPr, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1131	Cl	H	H	5-Me, 6-CN, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1132	Cl	H	H	5-Me, 6-OMe, 2-CH ₂ CH ₂ CH ₂ -3	0 0
	1133	Cl	H	H	2-CH ₂ CH ₂ CH ₂ -3, 5-CH ₂ CH ₂ CH ₂ -6	0 0
5	1134	Cl	H	COMe	2-F	0 0
	1135	Cl	H	COMe	2-Cl	0 0
	1136	Cl	H	COMe	2-Br	0 0
	1137	Cl	H	COMe	2-I	0 0
	1138	Cl	H	COMe	2-Me	0 0
10	1139	Cl	H	COMe	2-iPr	0 0
	1140	Cl	H	COMe	2-cPr	0 0
	1141	Cl	H	COMe	2-cBu	0 0
	1142	Cl	H	COMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1143	Cl	H	COMe	2-cPr, 5-Me	0 0
15	1144	Cl	H	COMe	2-OMe, 5-Me	0 0
	1145	Cl	H	COMe	2-F, 6-iPr	0 0
	1146	Cl	H	COMe	2-Cl, 6-cPr	0 0
	1147	Cl	H	COMe	2-Br, 6-Me	0 0
	1148	Cl	H	COMe	2-I, 6-Me	0 0
20	1149	Cl	H	COMe	2, 6-Me ₂	0 0
	1150	Cl	H	COMe	2-Me, 6-Et	0 0
	1151	Cl	H	COMe	2-Me, 6-cPr	0 0
	1152	Cl	H	COMe	2, 6-cPr ₂	0 0
	1153	Cl	H	COMe	2-cPr, 3, 5-Me ₂	0 0
25	1154	Cl	H	COMe	2-cPr, 5, 6-Me ₂	0 0
	1155	Cl	H	COEt	2-Me	0 0
	1156	Cl	H	COEt	2-iPr	0 0
	1157	Cl	H	COEt	2-cPr	0 0
	1158	Cl	H	COEt	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1159	Cl	H	COEt	2, 6-Me ₂	0 0
	1160	Cl	H	COEt	2-Me, 6-cPr	0 0
	1161	Cl	H	COPr	2-Me	0 0
	1162	Cl	H	COPr	2-iPr	0 0
	1163	Cl	H	COPr	2-cPr	0 0
35	1164	Cl	H	COPr	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1165	Cl	H	COPr	2, 6-Me ₂	0 0

	1166	Cl	H	COPr	2-Me, 6-cPr	0 0
	1167	Cl	H	COiPr	2-Me	0 0
	1168	Cl	H	COiPr	2-iPr	0 0
	1169	Cl	H	COiPr	2-cPr	0 0
5	1170	Cl	H	COiPr	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1171	Cl	H	COiPr	2, 6-Me ₂	0 0
	1172	Cl	H	COiPr	2-Me, 6-cPr	0 0
	1173	Cl	H	COBu	2-Me	0 0
	1174	Cl	H	COBu	2-iPr	0 0
10	1175	Cl	H	COBu	2-cPr	0 0
	1176	Cl	H	COBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1177	Cl	H	COBu	2, 6-Me ₂	0 0
	1178	Cl	H	COBu	2-Me, 6-cPr	0 0
	1179	Cl	H	COiBu	2-Me	0 0
15	1180	Cl	H	COiBu	2-iPr	0 0
	1181	Cl	H	COiBu	2-cPr	0 0
	1182	Cl	H	COiBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1183	Cl	H	COiBu	2, 6-Me ₂	0 0
	1184	Cl	H	COiBu	2-Me, 6-cPr	0 0
20	1185	Cl	H	COsBu	2-Me	0 0
	1186	Cl	H	COsBu	2-iPr	0 0
	1187	Cl	H	COsBu	2-cPr	0 0
	1188	Cl	H	COsBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1189	Cl	H	COsBu	2, 6-Me ₂	0 0
25	1190	Cl	H	COsBu	2-Me, 6-cPr	0 0
	1191	Cl	H	COtBu	2-Cl	0 0
	1192	Cl	H	COtBu	2-Br	0 0
	1193	Cl	H	COtBu	2-I	0 0
	1194	Cl	H	COtBu	2-Me	0 0
30	1195	Cl	H	COtBu	2-iPr	0 0
	1196	Cl	H	COtBu	2-cPr	0 0
	1197	Cl	H	COtBu	2-cBu	0 0
	1198	Cl	H	COtBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1199	Cl	H	COtBu	2-cPr, 5-Me	0 0
35	1200	Cl	H	COtBu	2-OMe, 5-Me	0 0
	1201	Cl	H	COtBu	2-F, 6-iPr	0 0

	1202	Cl	H	C0tBu	2-Cl, 6-cPr	0 0
	1203	Cl	H	C0tBu	2-Br, 6-Me	0 0
	1204	Cl	H	C0tBu	2-I, 6-Me	0 0
	1205	Cl	H	C0tBu	2, 6-Me ₂	0 0
5	1206	Cl	H	C0tBu	2-Me, 6-Et	0 0
	1207	Cl	H	C0tBu	2-Me, 6-cPr	0 0
	1208	Cl	H	C0tBu	2, 6-cPr ₂	0 0
	1209	Cl	H	C0tBu	2-cPr, 3, 5-Me ₂	0 0
	1210	Cl	H	C0tBu	2-cPr, 5, 6-Me ₂	0 0
10	1211	Cl	H	C0tPen	2-Me	0 0
	1212	Cl	H	C0tPen	2-iPr	0 0
	1213	Cl	H	C0tPen	2-cPr	0 0
	1214	Cl	H	C0tPen	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1215	Cl	H	C0tPen	2, 6-Me ₂	0 0
15	1216	Cl	H	C0tPen	2-Me, 6-cPr	0 0
	1217	Cl	H	COHx	2-Me	0 0
	1218	Cl	H	COHx	2-iPr	0 0
	1219	Cl	H	COHx	2-cPr	0 0
	1220	Cl	H	COHx	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	1221	Cl	H	COHx	2, 6-Me ₂	0 0
	1222	Cl	H	COHx	2-Me, 6-cPr	0 0
	1223	Cl	H	COC ₇ H ₁₅	2-Me	0 0
	1224	Cl	H	COC ₇ H ₁₅	2-iPr	0 0
	1225	Cl	H	COC ₇ H ₁₅	2-cPr	0 0
25	1226	Cl	H	COC ₇ H ₁₅	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1227	Cl	H	COC ₇ H ₁₅	2, 6-Me ₂	0 0
	1228	Cl	H	COC ₇ H ₁₅	2-Me, 6-cPr	0 0
	1229	Cl	H	COC ₈ H ₁₇	2-Me	0 0
	1230	Cl	H	COC ₈ H ₁₇	2-iPr	0 0
30	1231	Cl	H	COC ₈ H ₁₇	2-cPr	0 0
	1232	Cl	H	COC ₈ H ₁₇	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1233	Cl	H	COC ₈ H ₁₇	2, 6-Me ₂	0 0
	1234	Cl	H	COC ₈ H ₁₇	2-Me, 6-cPr	0 0
	1235	Cl	H	COC ₉ H ₁₉	2-Cl	0 0
35	1236	Cl	H	COC ₉ H ₁₉	2-Br	0 0
	1237	Cl	H	COC ₉ H ₁₉	2-I	0 0

	1238	Cl	H	COC ₉ H ₁₉	2-Me	0 0
	1239	Cl	H	COC ₉ H ₁₉	2-iPr	0 0
	1240	Cl	H	COC ₉ H ₁₉	2-cPr	0 0
	1241	Cl	H	COC ₉ H ₁₉	2-cBu	0 0
5	1242	Cl	H	COC ₉ H ₁₉	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1243	Cl	H	COC ₉ H ₁₉	2-cPr, 5-Me	0 0
	1244	Cl	H	COC ₉ H ₁₉	2-OMe, 5-Me	0 0
	1245	Cl	H	COC ₉ H ₁₉	2-F, 6-iPr	0 0
	1246	Cl	H	COC ₉ H ₁₉	2-Cl, 6-cPr	0 0
10	1247	Cl	H	COC ₉ H ₁₉	2-Br, 6-Me	0 0
	1248	Cl	H	COC ₉ H ₁₉	2-I, 6-Me	0 0
	1249	Cl	H	COC ₉ H ₁₉	2, 6-Me ₂	0 0
	1250	Cl	H	COC ₉ H ₁₉	2-Me, 6-Et	0 0
	1251	Cl	H	COC ₉ H ₁₉	2-Me, 6-cPr	0 0
15	1252	Cl	H	COC ₉ H ₁₉	2, 6-cPr ₂	0 0
	1253	Cl	H	COC ₉ H ₁₉	2-cPr, 3, 5-Me ₂	0 0
	1254	Cl	H	COC ₉ H ₁₉	2-cPr, 5, 6-Me ₂	0 0
	1255	Cl	H	COC ₁₄ H ₂₉	2-Me	0 0
	1256	Cl	H	COC ₁₄ H ₂₉	2-iPr	0 0
20	1257	Cl	H	COC ₁₄ H ₂₉	2-cPr	0 0
	1258	Cl	H	COC ₁₄ H ₂₉	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1259	Cl	H	COC ₁₄ H ₂₉	2, 6-Me ₂	0 0
	1260	Cl	H	COC ₁₄ H ₂₉	2-Me, 6-cPr	0 0
	1261	Cl	H	COcPr	2-Cl	0 0
25	1262	Cl	H	COcPr	2-Br	0 0
	1263	Cl	H	COcPr	2-I	0 0
	1264	Cl	H	COcPr	2-Me	0 0
	1265	Cl	H	COcPr	2-iPr	0 0
	1266	Cl	H	COcPr	2-cPr	0 0
30	1267	Cl	H	COcPr	2-cBu	0 0
	1268	Cl	H	COcPr	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1269	Cl	H	COcPr	2-cPr, 5-Me	0 0
	1270	Cl	H	COcPr	2-OMe, 5-Me	0 0
	1271	Cl	H	COcPr	2-F, 6-iPr	0 0
35	1272	Cl	H	COcPr	2-Cl, 6-cPr	0 0
	1273	Cl	H	COcPr	2-Br, 6-Me	0 0

	1274	Cl	H	COcPr	2-I, 6-Me	0 0
	1275	Cl	H	COcPr	2, 6-Me ₂	0 0
	1276	Cl	H	COcPr	2-Me, 6-Et	0 0
	1277	Cl	H	COcPr	2-Me, 6-cPr	0 0
5	1278	Cl	H	COcPr	2, 6-cPr ₂	0 0
	1279	Cl	H	COcPr	2-cPr, 3, 5-Me ₂	0 0
	1280	Cl	H	COcPr	2-cPr, 5, 6-Me ₂	0 0
	1281	Cl	H	COcBu	2-Me	0 0
	1282	Cl	H	COcBu	2-iPr	0 0
10	1283	Cl	H	COcBu	2-cPr	0 0
	1284	Cl	H	COcBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1285	Cl	H	COcBu	2, 6-Me ₂	0 0
	1286	Cl	H	COcBu	2-Me, 6-cPr	0 0
	1287	Cl	H	COcPen	2-Me	0 0
15	1288	Cl	H	COcPen	2-iPr	0 0
	1289	Cl	H	COcPen	2-cPr	0 0
	1290	Cl	H	COcPen	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1291	Cl	H	COcPen	2, 6-Me ₂	0 0
	1292	Cl	H	COcPen	2-Me, 6-cPr	0 0
20	1293	Cl	H	COcHx	2-Me	0 0
	1294	Cl	H	COcHx	2-iPr	0 0
	1295	Cl	H	COcHx	2-cPr	0 0
	1296	Cl	H	COcHx	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1297	Cl	H	COcHx	2, 6-Me ₂	0 0
25	1298	Cl	H	COcHx	2-Me, 6-cPr	0 0
	1299	Cl	H	COCF ₃	2-Me	0 0
	1300	Cl	H	COCF ₃	2-iPr	0 0
	1301	Cl	H	COCF ₃	2-cPr	0 0
	1302	Cl	H	COCF ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1303	Cl	H	COCF ₃	2, 6-Me ₂	0 0
	1304	Cl	H	COCF ₃	2-Me, 6-cPr	0 0
	1305	Cl	H	COCH ₂ Cl	2-Me	0 0
	1306	Cl	H	COCH ₂ Cl	2-iPr	0 0
	1307	Cl	H	COCH ₂ Cl	2-cPr	0 0
35	1308	Cl	H	COCH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1309	Cl	H	COCH ₂ Cl	2, 6-Me ₂	0 0

	1310	Cl	H	COCH ₂ Cl	2-Me, 6-cPr	0 0
	1311	Cl	H	COCCl ₃	2-Me	0 0
	1312	Cl	H	COCCl ₃	2-iPr	0 0
	1313	Cl	H	COCCl ₃	2-cPr	0 0
5	1314	Cl	H	COCCl ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1315	Cl	H	COCCl ₃	2, 6-Me ₂	0 0
	1316	Cl	H	COCCl ₃	2-Me, 6-cPr	0 0
	1317	Cl	H	COCH ₂ Br	2-Me	0 0
	1318	Cl	H	COCH ₂ Br	2-iPr	0 0
10	1319	Cl	H	COCH ₂ Br	2-cPr	0 0
	1320	Cl	H	COCH ₂ Br	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1321	Cl	H	COCH ₂ Br	2, 6-Me ₂	0 0
	1322	Cl	H	COCH ₂ Br	2-Me, 6-cPr	0 0
	1323	Cl	H	COCH ₂ CF ₃	2-Me	0 0
15	1324	Cl	H	COCH ₂ CF ₃	2-iPr	0 0
	1325	Cl	H	COCH ₂ CF ₃	2-cPr	0 0
	1326	Cl	H	COCH ₂ CF ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1327	Cl	H	COCH ₂ CF ₃	2, 6-Me ₂	0 0
	1328	Cl	H	COCH ₂ CF ₃	2-Me, 6-cPr	0 0
20	1329	Cl	H	COCHBrEt	2-Me	0 0
	1330	Cl	H	COCHBrEt	2-iPr	0 0
	1331	Cl	H	COCHBrEt	2-cPr	0 0
	1332	Cl	H	COCHBrEt	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1333	Cl	H	COCHBrEt	2, 6-Me ₂	0 0
25	1334	Cl	H	COCHBrEt	2-Me, 6-cPr	0 0
	1335	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2-Me	0 0
	1336	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2-iPr	0 0
	1337	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2-cPr	0 0
	1338	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1339	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2, 6-Me ₂	0 0
	1340	Cl	H	COCH ₂ CH ₂ CH ₂ Cl	2-Me, 6-cPr	0 0
	1341	Cl	H	COCH=CH ₂	2-Me	0 0
	1342	Cl	H	COCH=CH ₂	2-iPr	0 0
	1343	Cl	H	COCH=CH ₂	2-cPr	0 0
35	1344	Cl	H	COCH=CH ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1345	Cl	H	COCH=CH ₂	2, 6-Me ₂	0 0

	1346	C1	H	COCH=CH ₂	2-Me, 6-cPr	0 0
	1347	C1	H	COCH=CHMe	2-Me	0 0
	1348	C1	H	COCH=CHMe	2-iPr	0 0
	1349	C1	H	COCH=CHMe	2-cPr	0 0
5	1350	C1	H	COCH=CHMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1351	C1	H	COCH=CHMe	2, 6-Me ₂	0 0
	1352	C1	H	COCH=CHMe	2-Me, 6-cPr	0 0
	1353	C1	H	COCH=CMe ₂	2-Me	0 0
	1354	C1	H	COCH=CMe ₂	2-iPr	0 0
10	1355	C1	H	COCH=CMe ₂	2-cPr	0 0
	1356	C1	H	COCH=CMe ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1357	C1	H	COCH=CMe ₂	2, 6-Me ₂	0 0
	1358	C1	H	COCH=CMe ₂	2-Me, 6-cPr	0 0
	1359	C1	H	COCH=CHPh	2-Me	0 0
15	1360	C1	H	COCH=CHPh	2-iPr	0 0
	1361	C1	H	COCH=CHPh	2-cPr	0 0
	1362	C1	H	COCH=CHPh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1363	C1	H	COCH=CHPh	2, 6-Me ₂	0 0
	1364	C1	H	COCH=CHPh	2-Me, 6-cPr	0 0
20	1365	C1	H	COC CH 2-Me		0 0
	1366	C1	H	COC CH 2-iPr		0 0
	1367	C1	H	COC CH 2-cPr		0 0
	1368	C1	H	COC CH 2-CH ₂ CH ₂ CH ₂ -3		0 0
	1369	C1	H	COC CH 2, 6-Me ₂		0 0
25	1370	C1	H	COC CH 2-Me, 6-cPr		0 0
	1371	C1	H	COCH ₂ Ph	2-Me	0 0
	1372	C1	H	COCH ₂ Ph	2-iPr	0 0
	1373	C1	H	COCH ₂ Ph	2-cPr	0 0
	1374	C1	H	COCH ₂ Ph	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1375	C1	H	COCH ₂ Ph	2, 6-Me ₂	0 0
	1376	C1	H	COCH ₂ Ph	2-Me, 6-cPr	0 0
	1377	C1	H	COCH ₂ CH ₂ CO ₂ Me	2-Me	0 0
	1378	C1	H	COCH ₂ CH ₂ CO ₂ Me	2-iPr	0 0
	1379	C1	H	COCH ₂ CH ₂ CO ₂ Me	2-cPr	0 0
35	1380	C1	H	COCH ₂ CH ₂ CO ₂ Me	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1381	C1	H	COCH ₂ CH ₂ CO ₂ Me	2, 6-Me ₂	0 0

	1382	Cl	H	COCH ₂ CH ₂ CO ₂ Me	2-Me, 6-cPr	0 0
	1383	Cl	H	COPh	2-F	0 0
	1384	Cl	H	COPh	2-Cl	0 0
	1385	Cl	H	COPh	2-Br	0 0
5	1386	Cl	H	COPh	2-I	0 0
	1387	Cl	H	COPh	2-Me	0 0
	1388	Cl	H	COPh	2-Et	0 0
	1389	Cl	H	COPh	2-iPr	0 0
	1390	Cl	H	COPh	2-tBu	0 0
10	1391	Cl	H	COPh	2-cPr	0 0
	1392	Cl	H	COPh	2-(cPr-1-Me)	0 0
	1393	Cl	H	COPh	2-(cPr-2-Me)	0 0
	1394	Cl	H	COPh	2-(cPr-2, 2-Cl ₂)	0 0
	1395	Cl	H	COPh	2-cBu	0 0
15	1396	Cl	H	COPh	4-SiMe ₃	0 0
	1397	Cl	H	COPh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1398	Cl	H	COPh	2-CH=CHO-3	0 0
	1399	Cl	H	COPh	2-CH ₂ CH ₂ O-3	0 0
	1400	Cl	H	COPh	2-OCH=CH-3	0 0
20	1401	Cl	H	COPh	2-OCH ₂ CH ₂ -3	0 0
	1402	Cl	H	COPh	2-cPr, 5-F	0 0
	1403	Cl	H	COPh	2-cPr, 5-Cl	0 0
	1404	Cl	H	COPh	2-cPr, 5-Me	0 0
	1405	Cl	H	COPh	2-OMe, 5-Me	0 0
25	1406	Cl	H	COPh	2-F, 6-iPr	0 0
	1407	Cl	H	COPh	2-F, 6-cPr	0 0
	1408	Cl	H	COPh	2-Cl, 6-Me	0 0
	1409	Cl	H	COPh	2-Cl, 6-cPr	0 0
	1410	Cl	H	COPh	2-Br, 6-Me	0 0
30	1411	Cl	H	COPh	2-Br, 6-Et	0 0
	1412	Cl	H	COPh	2-Br, 6-cPr	0 0
	1413	Cl	H	COPh	2-I, 6-Me	0 0
	1414	Cl	H	COPh	2-I, 6-Et	0 0
	1415	Cl	H	COPh	2, 6-Me ₂	0 0
35	1416	Cl	H	COPh	2-Me, 6-Et	0 0
	1417	Cl	H	COPh	2-Me, 6-cPr	0 0

	1418	Cl	H	COPh	2-Et, 6-cPr	0 0
	1419	Cl	H	COPh	2-iPr, 6-cPr	0 0
	1420	Cl	H	COPh	2-tBu, 6-cPr	0 0
	1421	Cl	H	COPh	2, 6-cPr ₂	0 0
5	1422	Cl	H	COPh	2-cPr, 6-OMe	0 0
	1423	Cl	H	COPh	2-Br, 3, 6-Me ₂	0 0
	1424	Cl	H	COPh	2-cPr, 3, 5-Me ₂	0 0
	1425	Cl	H	COPh	2-cPr, 4, 6-Me ₂	0 0
	1426	Cl	H	COPh	2-Br, 5, 6-Me ₂	0 0
10	1427	Cl	H	COPh	2-cPr, 5, 6-Me ₂	0 0
	1428	Cl	H	COPh	2-Br, 5-CH=CH-O-6	0 0
	1429	Cl	H	COPh	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1430	Cl	H	COPh	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	1431	Cl	H	COPh	2-Me, 5-CH=CH-O-6	0 0
15	1432	Cl	H	COPh	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1433	Cl	H	COPh	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1434	Cl	H	COPh	2-cPr, 5-CH=CH-O-6	0 0
	1435	Cl	H	COPh	2-Br, 3, 5, 6-Me ₃	0 0
	1436	Cl	H	CO(Ph-2-Cl)	2-Me	0 0
20	1437	Cl	H	CO(Ph-2-Cl)	2-iPr	0 0
	1438	Cl	H	CO(Ph-2-Cl)	2-cPr	0 0
	1439	Cl	H	CO(Ph-2-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1440	Cl	H	CO(Ph-2-Cl)	2, 6-Me ₂	0 0
	1441	Cl	H	CO(Ph-2-Cl)	2-Me, 6-cPr	0 0
25	1442	Cl	H	CO(Ph-2-Me)	2-F	0 0
	1443	Cl	H	CO(Ph-2-Me)	2-Cl	0 0
	1444	Cl	H	CO(Ph-2-Me)	2-Br	0 0
	1445	Cl	H	CO(Ph-2-Me)	2-I	0 0
	1446	Cl	H	CO(Ph-2-Me)	2-Me	0 0
30	1447	Cl	H	CO(Ph-2-Me)	2-Et	0 0
	1448	Cl	H	CO(Ph-2-Me)	2-iPr	0 0
	1449	Cl	H	CO(Ph-2-Me)	2-tBu	0 0
	1450	Cl	H	CO(Ph-2-Me)	2-sBu	0 0
	1451	Cl	H	CO(Ph-2-Me)	2-(cPr-1-Me)	0 0
35	1452	Cl	H	CO(Ph-2-Me)	2-cPr	0 0
	1453	Cl	H	CO(Ph-2-Me)	2-(cPr-2, 2-Cl ₂)	0 0

	1454	Cl	H	CO(Ph-2-Me)	2-cBu	0 0
	1455	Cl	H	CO(Ph-2-Me)	2-cHx	0 0
	1456	Cl	H	CO(Ph-2-Me)	2-Ph	0 0
	1457	Cl	H	CO(Ph-2-Me)	3-tBu	0 0
5	1458	Cl	H	CO(Ph-2-Me)	3-OMe	0 0
	1459	Cl	H	CO(Ph-2-Me)	2-iPr, 5-Me	0 0
	1460	Cl	H	CO(Ph-2-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1461	Cl	H	CO(Ph-2-Me)	2-CH=CHCH=CH-3	0 0
	1462	Cl	H	CO(Ph-2-Me)	2-CH=CHO-3	0 0
10	1463	Cl	H	CO(Ph-2-Me)	2-CH ₂ CH ₂ O-3	0 0
	1464	Cl	H	CO(Ph-2-Me)	2-OCH=CH-3	0 0
	1465	Cl	H	CO(Ph-2-Me)	2-OCH ₂ CH ₂ -3	0 0
	1466	Cl	H	CO(Ph-2-Me)	2-cPr, 5-F	0 0
	1467	Cl	H	CO(Ph-2-Me)	2-cPr, 5-Cl	0 0
15	1468	Cl	H	CO(Ph-2-Me)	2-cPr, 5-Me	0 0
	1469	Cl	H	CO(Ph-2-Me)	2-OMe, 5-Me	0 0
	1470	Cl	H	CO(Ph-2-Me)	2-F, 6-iPr	0 0
	1471	Cl	H	CO(Ph-2-Me)	2-F, 6-cPr	0 0
	1472	Cl	H	CO(Ph-2-Me)	2-Cl, 6-Me	0 0
20	1473	Cl	H	CO(Ph-2-Me)	2-Cl, 6-cPr	0 0
	1474	Cl	H	CO(Ph-2-Me)	2-Br, 6-Me	0 0
	1475	Cl	H	CO(Ph-2-Me)	2-Br, 6-Et	0 0
	1476	Cl	H	CO(Ph-2-Me)	2-Br, 6-cPr	0 0
	1477	Cl	H	CO(Ph-2-Me)	2-I, 6-Me	0 0
25	1478	Cl	H	CO(Ph-2-Me)	2-I, 6-Et	0 0
	1479	Cl	H	CO(Ph-2-Me)	2, 6-Me ₂	0 0
	1480	Cl	H	CO(Ph-2-Me)	2-Me, 6-Et	0 0
	1481	Cl	H	CO(Ph-2-Me)	2-Me, 6-cPr	0 0
	1482	Cl	H	CO(Ph-2-Me)	2-Et, 6-cPr	0 0
30	1483	Cl	H	CO(Ph-2-Me)	2-iPr, 6-cPr	0 0
	1484	Cl	H	CO(Ph-2-Me)	2-tBu, 6-cPr	0 0
	1485	Cl	H	CO(Ph-2-Me)	2, 6-cPr ₂	0 0
	1486	Cl	H	CO(Ph-2-Me)	2-cPr, 6-OMe	0 0
	1487	Cl	H	CO(Ph-2-Me)	2-Br, 3, 6-Me ₂	0 0
35	1488	Cl	H	CO(Ph-2-Me)	2-cPr, 3, 5-Me ₂	0 0
	1489	Cl	H	CO(Ph-2-Me)	2-cPr, 4, 6-Me ₂	0 0

	1490	Cl	H	CO(Ph-2-Me)	2-Br, 5, 6-Me ₂	0 0
	1491	Cl	H	CO(Ph-2-Me)	2-cPr, 5, 6-Me ₂	0 0
	1492	Cl	H	CO(Ph-2-Me)	2-Br, 5-CH=CH-O-6	0 0
	1493	Cl	H	CO(Ph-2-Me)	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
5	1494	Cl	H	CO(Ph-2-Me)	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	1495	Cl	H	CO(Ph-2-Me)	2-Me, 5-CH=CH-O-6	0 0
	1496	Cl	H	CO(Ph-2-Me)	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1497	Cl	H	CO(Ph-2-Me)	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1498	Cl	H	CO(Ph-2-Me)	2-cPr, 5-CH=CH-O-6	0 0
10	1499	Cl	H	CO(Ph-2-Me)	2-Br, 3, 5, 6-Me ₃	0 0
	1500	Cl	H	CO(Ph-2-CN)	2-Me	0 0
	1501	Cl	H	CO(Ph-2-CN)	2-iPr	0 0
	1502	Cl	H	CO(Ph-2-CN)	2-cPr	0 0
	1503	Cl	H	CO(Ph-2-CN)	2-CH ₂ CH ₂ CH ₂ -3	0 0
15	1504	Cl	H	CO(Ph-2-CN)	2, 6-Me ₂	0 0
	1505	Cl	H	CO(Ph-2-CN)	2-Me, 6-cPr	0 0
	1506	Cl	H	CO(Ph-2-OMe)	2-Cl	0 0
	1507	Cl	H	CO(Ph-2-OMe)	2-Br	0 0
	1508	Cl	H	CO(Ph-2-OMe)	2-I	0 0
20	1509	Cl	H	CO(Ph-2-OMe)	2-Me	0 0
	1510	Cl	H	CO(Ph-2-OMe)	2-iPr	0 0
	1511	Cl	H	CO(Ph-2-OMe)	2-cPr	0 0
	1512	Cl	H	CO(Ph-2-OMe)	2-cBu	0 0
	1513	Cl	H	CO(Ph-2-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
25	1514	Cl	H	CO(Ph-2-OMe)	2-cPr, 5-Me	0 0
	1515	Cl	H	CO(Ph-2-OMe)	2-OMe, 5-Me	0 0
	1516	Cl	H	CO(Ph-2-OMe)	2-F, 6-iPr	0 0
	1517	Cl	H	CO(Ph-2-OMe)	2-Cl, 6-cPr	0 0
	1518	Cl	H	CO(Ph-2-OMe)	2-Br, 6-Me	0 0
30	1519	Cl	H	CO(Ph-2-OMe)	2-I, 6-Me	0 0
	1520	Cl	H	CO(Ph-2-OMe)	2, 6-Me ₂	0 0
	1521	Cl	H	CO(Ph-2-OMe)	2-Me, 6-Et	0 0
	1522	Cl	H	CO(Ph-2-OMe)	2-Me, 6-cPr	0 0
	1523	Cl	H	CO(Ph-2-OMe)	2, 6-cPr ₂	0 0
35	1524	Cl	H	CO(Ph-2-OMe)	2-cPr, 3, 5-Me ₂	0 0
	1525	Cl	H	CO(Ph-2-OMe)	2-cPr, 5, 6-Me ₂	0 0

	1526	Cl	H	CO(Ph-3-Me)	2-Me	0 0
	1527	Cl	H	CO(Ph-3-Me)	2-iPr	0 0
	1528	Cl	H	CO(Ph-3-Me)	2-cPr	0 0
	1529	Cl	H	CO(Ph-3-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
5	1530	Cl	H	CO(Ph-3-Me)	2, 6-Me ₂	0 0
	1531	Cl	H	CO(Ph-3-Me)	2-Me, 6-cPr	0 0
	1532	Cl	H	CO(Ph-4-Cl)	2-Me	0 0
	1533	Cl	H	CO(Ph-4-Cl)	2-iPr	0 0
	1534	Cl	H	CO(Ph-4-Cl)	2-cPr	0 0
10	1535	Cl	H	CO(Ph-4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1536	Cl	H	CO(Ph-4-Cl)	2, 6-Me ₂	0 0
	1537	Cl	H	CO(Ph-4-Cl)	2-Me, 6-cPr	0 0
	1538	Cl	H	CO(Ph-4-Br)	2-Me	0 0
	1539	Cl	H	CO(Ph-4-Br)	2-iPr	0 0
15	1540	Cl	H	CO(Ph-4-Br)	2-cPr	0 0
	1541	Cl	H	CO(Ph-4-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1542	Cl	H	CO(Ph-4-Br)	2, 6-Me ₂	0 0
	1543	Cl	H	CO(Ph-4-Br)	2-Me, 6-cPr	0 0
	1544	Cl	H	CO(Ph-4-I)	2-Me	0 0
20	1545	Cl	H	CO(Ph-4-I)	2-iPr	0 0
	1546	Cl	H	CO(Ph-4-I)	2-cPr	0 0
	1547	Cl	H	CO(Ph-4-I)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1548	Cl	H	CO(Ph-4-I)	2, 6-Me ₂	0 0
	1549	Cl	H	CO(Ph-4-I)	2-Me, 6-cPr	0 0
25	1550	Cl	H	CO(Ph-4-Me)	2-Cl	0 0
	1551	Cl	H	CO(Ph-4-Me)	2-Br	0 0
	1552	Cl	H	CO(Ph-4-Me)	2-I	0 0
	1553	Cl	H	CO(Ph-4-Me)	2-Me	0 0
	1554	Cl	H	CO(Ph-4-Me)	2-iPr	0 0
30	1555	Cl	H	CO(Ph-4-Me)	2-cPr	0 0
	1556	Cl	H	CO(Ph-4-Me)	2-cBu	0 0
	1557	Cl	H	CO(Ph-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1558	Cl	H	CO(Ph-4-Me)	2-cPr, 5-Me	0 0
	1559	Cl	H	CO(Ph-4-Me)	2-OMe, 5-Me	0 0
35	1560	Cl	H	CO(Ph-4-Me)	2-F, 6-iPr	0 0
	1561	Cl	H	CO(Ph-4-Me)	2-Cl, 6-cPr	0 0

	1562	Cl	H	CO(Ph-4-Me)	2-Br, 6-Me	0 0
	1563	Cl	H	CO(Ph-4-Me)	2-I, 6-Me	0 0
	1564	Cl	H	CO(Ph-4-Me)	2, 6-Me ₂	0 0
	1565	Cl	H	CO(Ph-4-Me)	2-Me, 6-Et	0 0
5	1566	Cl	H	CO(Ph-4-Me)	2-Me, 6-cPr	0 0
	1567	Cl	H	CO(Ph-4-Me)	2-cPr ₂	0 0
	1568	Cl	H	CO(Ph-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	1569	Cl	H	CO(Ph-4-Me)	2-cPr, 5, 6-Me ₂	0 0
	1570	Cl	H	CO(Ph-4-tBu)	2-Me	0 0
10	1571	Cl	H	CO(Ph-4-tBu)	2-iPr	0 0
	1572	Cl	H	CO(Ph-4-tBu)	2-cPr	0 0
	1573	Cl	H	CO(Ph-4-tBu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1574	Cl	H	CO(Ph-4-tBu)	2, 6-Me ₂	0 0
	1575	Cl	H	CO(Ph-4-tBu)	2-Me, 6-cPr	0 0
15	1576	Cl	H	CO(Ph-4-CO ₂ Me)	2-Me	0 0
	1577	Cl	H	CO(Ph-4-CO ₂ Me)	2-iPr	0 0
	1578	Cl	H	CO(Ph-4-CO ₂ Me)	2-cPr	0 0
	1579	Cl	H	CO(Ph-4-CO ₂ Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1580	Cl	H	CO(Ph-4-CO ₂ Me)	2, 6-Me ₂	0 0
20	1581	Cl	H	CO(Ph-4-CO ₂ Me)	2-Me, 6-cPr	0 0
	1582	Cl	H	CO(Ph-4-COtBu)	2-Me	0 0
	1583	Cl	H	CO(Ph-4-COtBu)	2-iPr	0 0
	1584	Cl	H	CO(Ph-4-COtBu)	2-cPr	0 0
	1585	Cl	H	CO(Ph-4-COtBu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
25	1586	Cl	H	CO(Ph-4-COtBu)	2, 6-Me ₂	0 0
	1587	Cl	H	CO(Ph-4-COtBu)	2-Me, 6-cPr	0 0
	1588	Cl	H	CO(Ph-4-NO ₂)	2-Me	0 0
	1589	Cl	H	CO(Ph-4-NO ₂)	2-iPr	0 0
	1590	Cl	H	CO(Ph-4-NO ₂)	2-cPr	0 0
30	1591	Cl	H	CO(Ph-4-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1592	Cl	H	CO(Ph-4-NO ₂)	2, 6-Me ₂	0 0
	1593	Cl	H	CO(Ph-4-NO ₂)	2-Me, 6-cPr	0 0
	1594	Cl	H	CO(Ph-4-OMe)	2-Me	0 0
	1595	Cl	H	CO(Ph-4-OMe)	2-iPr	0 0
35	1596	Cl	H	CO(Ph-4-OMe)	2-cPr	0 0
	1597	Cl	H	CO(Ph-4-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0

	1598	Cl	H	CO(Ph-4-OMe)	2, 6-Me ₂	0 0
	1599	Cl	H	CO(Ph-4-OMe)	2-Me, 6-cPr	0 0
	1600	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Cl	0 0
	1601	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Br	0 0
5	1602	Cl	H	CO(Ph-2, 4-Cl ₂)	2-I	0 0
	1603	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Me	0 0
	1604	Cl	H	CO(Ph-2, 4-Cl ₂)	2-iPr	0 0
	1605	Cl	H	CO(Ph-2, 4-Cl ₂)	2-cPr	0 0
	1606	Cl	H	CO(Ph-2, 4-Cl ₂)	2-cBu	0 0
10	1607	Cl	H	CO(Ph-2, 4-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1608	Cl	H	CO(Ph-2, 4-Cl ₂)	2-cPr, 5-Me	0 0
	1609	Cl	H	CO(Ph-2, 4-Cl ₂)	2-OMe, 5-Me	0 0
	1610	Cl	H	CO(Ph-2, 4-Cl ₂)	2-F, 6-iPr	0 0
	1611	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Cl, 6-cPr	0 0
15	1612	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Br, 6-Me	0 0
	1613	Cl	H	CO(Ph-2, 4-Cl ₂)	2-I, 6-Me	0 0
	1614	Cl	H	CO(Ph-2, 4-Cl ₂)	2, 6-Me ₂	0 0
	1615	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Me, 6-Et	0 0
	1616	Cl	H	CO(Ph-2, 4-Cl ₂)	2-Me, 6-cPr	0 0
20	1617	Cl	H	CO(Ph-2, 4-Cl ₂)	2, 6-cPr ₂	0 0
	1618	Cl	H	CO(Ph-2, 4-Cl ₂)	2-cPr, 3, 5-Me ₂	0 0
	1619	Cl	H	CO(Ph-2, 4-Cl ₂)	2-cPr, 5, 6-Me ₂	0 0
	1620	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2-Me	0 0
	1621	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2-iPr	0 0
25	1622	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2-cPr	0 0
	1623	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1624	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2, 6-Me ₂	0 0
	1625	Cl	H	CO(Ph-2-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0
	1626	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2-Me	0 0
30	1627	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2-iPr	0 0
	1628	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2-cPr	0 0
	1629	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1630	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2, 6-Me ₂	0 0
	1631	Cl	H	CO(Ph-3-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0
35	1632	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2-Me	0 0
	1633	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2-iPr	0 0

	1634	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2-cPr	0 0
	1635	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1636	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2, 6-Me ₂	0 0
	1637	Cl	H	CO(Ph-4-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0
5	1638	Cl	H	CO(2-Fur)	2-Me	0 0
	1639	Cl	H	CO(2-Fur)	2-iPr	0 0
	1640	Cl	H	CO(2-Fur)	2-cPr	0 0
	1641	Cl	H	CO(2-Fur)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1642	Cl	H	CO(2-Fur)	2, 6-Me ₂	0 0
10	1643	Cl	H	CO(2-Fur)	2-Me, 6-cPr	0 0
	1644	Cl	H	CO(2-Thi)	2-Me	0 0
	1645	Cl	H	CO(2-Thi)	2-iPr	0 0
	1646	Cl	H	CO(2-Thi)	2-cPr	0 0
	1647	Cl	H	CO(2-Thi)	2-CH ₂ CH ₂ CH ₂ -3	0 0
15	1648	Cl	H	CO(2-Thi)	2, 6-Me ₂	0 0
	1649	Cl	H	CO(2-Thi)	2-Me, 6-cPr	0 0
	1650	Cl	H	CO ₂ Me	2-F	0 0
	1651	Cl	H	CO ₂ Me	2-Cl	0 0
	1652	Cl	H	CO ₂ Me	2-Br	0 0
20	1653	Cl	H	CO ₂ Me	2-I	0 0
	1654	Cl	H	CO ₂ Me	2-Me	0 0
	1655	Cl	H	CO ₂ Me	2-Et	0 0
	1656	Cl	H	CO ₂ Me	2-iPr	0 0
	1657	Cl	H	CO ₂ Me	2-tBu	0 0
25	1658	Cl	H	CO ₂ Me	2-cPr	0 0
	1659	Cl	H	CO ₂ Me	2-(cPr-1-Me)	0 0
	1660	Cl	H	CO ₂ Me	2-(cPr-2-Me)	0 0
	1661	Cl	H	CO ₂ Me	2-(cPr-2, 2-Cl ₂)	0 0
	1662	Cl	H	CO ₂ Me	2-cBu	0 0
30	1663	Cl	H	CO ₂ Me	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1664	Cl	H	CO ₂ Me	2-CH=CH-O-3	0 0
	1665	Cl	H	CO ₂ Me	2-CH ₂ CH ₂ O-3	0 0
	1666	Cl	H	CO ₂ Me	2-OCH=CH-3	0 0
	1667	Cl	H	CO ₂ Me	2-OCH ₂ CH ₂ -3	0 0
35	1668	Cl	H	CO ₂ Me	2-cPr, 5-F	0 0
	1669	Cl	H	CO ₂ Me	2-cPr, 5-Cl	0 0

	1670	Cl	H	CO ₂ Me	2-cPr, 5-Me	0 0
	1671	Cl	H	CO ₂ Me	2-OMe, 5-Me	0 0
	1672	Cl	H	CO ₂ Me	2-F, 6-iPr	0 0
	1673	Cl	H	CO ₂ Me	2-F, 6-cPr	0 0
5	1674	Cl	H	CO ₂ Me	2-Cl, 6-Me	0 0
	1675	Cl	H	CO ₂ Me	2-Cl, 6-cPr	0 0
	1676	Cl	H	CO ₂ Me	2-Br, 6-Me	0 0
	1677	Cl	H	CO ₂ Me	2-Br, 6-Et	0 0
	1678	Cl	H	CO ₂ Me	2-Br, 6-cPr	0 0
10	1679	Cl	H	CO ₂ Me	2-I, 6-Me	0 0
	1680	Cl	H	CO ₂ Me	2-I, 6-Et	0 0
	1681	Cl	H	CO ₂ Me	2, 6-Me ₂	0 0
	1682	Cl	H	CO ₂ Me	2-Me, 6-Et	0 0
	1683	Cl	H	CO ₂ Me	2-Me, 6-cPr	0 0
15	1684	Cl	H	CO ₂ Me	2-Et, 6-cPr	0 0
	1685	Cl	H	CO ₂ Me	2-iPr, 6-cPr	0 0
	1686	Cl	H	CO ₂ Me	2-tBu, 6-cPr	0 0
	1687	Cl	H	CO ₂ Me	2, 6-cPr ₂	0 0
	1688	Cl	H	CO ₂ Me	2-cPr, 6-OMe	0 0
20	1689	Cl	H	CO ₂ Me	2-Br, 3, 6-Me ₂	0 0
	1690	Cl	H	CO ₂ Me	2-cPr, 3, 5-Me ₂	0 0
	1691	Cl	H	CO ₂ Me	2-cPr, 4, 6-Me ₂	0 0
	1692	Cl	H	CO ₂ Me	2-Br, 5, 6-Me ₂	0 0
	1693	Cl	H	CO ₂ Me	2-cPr, 5, 6-Me ₂	0 0
25	1694	Cl	H	CO ₂ Me	2-Br, 5-CH=CH-O-6	0 0
	1695	Cl	H	CO ₂ Me	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1696	Cl	H	CO ₂ Me	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	1697	Cl	H	CO ₂ Me	2-Me, 5-CH=CH-O-6	0 0
	1698	Cl	H	CO ₂ Me	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
30	1699	Cl	H	CO ₂ Me	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1700	Cl	H	CO ₂ Me	2-cPr, 5-CH=CH-O-6	0 0
	1701	Cl	H	CO ₂ Me	2-Br, 3, 5, 6-Me ₃	0 0
	1702	Cl	H	CO ₂ Et	2-F	0 0
	1703	Cl	H	CO ₂ Et	2-Cl	0 0
35	1704	Cl	H	CO ₂ Et	2-Br	0 0
	1705	Cl	H	CO ₂ Et	2-I	0 0

	1706	Cl	H	CO ₂ Et	2-Me	0 0
	1707	Cl	H	CO ₂ Et	2-Et	0 0
	1708	Cl	H	CO ₂ Et	2-iPr	0 0
	1709	Cl	H	CO ₂ Et	2-tBu	0 0
5	1710	Cl	H	CO ₂ Et	2-cPr	0 0
	1711	Cl	H	CO ₂ Et	2-(cPr-1-Me)	0 0
	1712	Cl	H	CO ₂ Et	2-(cPr-2-Me)	0 0
	1713	Cl	H	CO ₂ Et	2-(cPr-2, 2-Cl ₂)	0 0
	1714	Cl	H	CO ₂ Et	2-cBu	0 0
10	1715	Cl	H	CO ₂ Et	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1716	Cl	H	CO ₂ Et	2-CH=CH-O-3	0 0
	1717	Cl	H	CO ₂ Et	2-CH ₂ CH ₂ O-3	0 0
	1718	Cl	H	CO ₂ Et	2-OCH=CH-3	0 0
	1719	Cl	H	CO ₂ Et	2-OCH ₂ CH ₂ -3	0 0
15	1720	Cl	H	CO ₂ Et	2-cPr, 5-F	0 0
	1721	Cl	H	CO ₂ Et	2-cPr, 5-Cl	0 0
	1722	Cl	H	CO ₂ Et	2-cPr, 5-Me	0 0
	1723	Cl	H	CO ₂ Et	2-OMe, 5-Me	0 0
	1724	Cl	H	CO ₂ Et	2-F, 6-iPr	0 0
20	1725	Cl	H	CO ₂ Et	2-F, 6-cPr	0 0
	1726	Cl	H	CO ₂ Et	2-Cl, 6-Me	0 0
	1727	Cl	H	CO ₂ Et	2-Cl, 6-cPr	0 0
	1728	Cl	H	CO ₂ Et	2-Br, 6-Me	0 0
	1729	Cl	H	CO ₂ Et	2-Br, 6-Et	0 0
25	1730	Cl	H	CO ₂ Et	2-Br, 6-cPr	0 0
	1731	Cl	H	CO ₂ Et	2-I, 6-Me	0 0
	1732	Cl	H	CO ₂ Et	2-I, 6-Et	0 0
	1733	Cl	H	CO ₂ Et	2, 6-Me ₂	0 0
	1734	Cl	H	CO ₂ Et	2-Me, 6-Et	0 0
30	1735	Cl	H	CO ₂ Et	2-Me, 6-cPr	0 0
	1736	Cl	H	CO ₂ Et	2-Et, 6-cPr	0 0
	1737	Cl	H	CO ₂ Et	2-iPr, 6-cPr	0 0
	1738	Cl	H	CO ₂ Et	2-tBu, 6-cPr	0 0
	1739	Cl	H	CO ₂ Et	2, 6-cPr ₂	0 0
35	1740	Cl	H	CO ₂ Et	2-cPr, 6-OMe	0 0
	1741	Cl	H	CO ₂ Et	2-Br, 3, 6-Me ₂	0 0

	1742	Cl	H	CO ₂ Et	2-cPr, 3, 5-Me ₂	0 0
	1743	Cl	H	CO ₂ Et	2-cPr, 4, 6-Me ₂	0 0
	1744	Cl	H	CO ₂ Et	2-Br, 5, 6-Me ₂	0 0
	1745	Cl	H	CO ₂ Et	2-cPr, 5, 6-Me ₂	0 0
5	1746	Cl	H	CO ₂ Et	2-Br, 5-CH=CH-O-6	0 0
	1747	Cl	H	CO ₂ Et	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1748	Cl	H	CO ₂ Et	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	1749	Cl	H	CO ₂ Et	2-Me, 5-CH=CH-O-6	0 0
	1750	Cl	H	CO ₂ Et	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
10	1751	Cl	H	CO ₂ Et	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	1752	Cl	H	CO ₂ Et	2-cPr, 5-CH=CH-O-6	0 0
	1753	Cl	H	CO ₂ Et	2-Br, 3, 5, 6-Me ₃	0 0
	1754	Cl	H	CO ₂ iBu	2-Cl	0 0
	1755	Cl	H	CO ₂ iBu	2-Br	0 0
15	1756	Cl	H	CO ₂ iBu	2-I	0 0
	1757	Cl	H	CO ₂ iBu	2-Me	0 0
	1758	Cl	H	CO ₂ iBu	2-iPr	0 0
	1759	Cl	H	CO ₂ iBu	2-cPr	0 0
	1760	Cl	H	CO ₂ iBu	2-cBu	0 0
20	1761	Cl	H	CO ₂ iBu	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1762	Cl	H	CO ₂ iBu	2-cPr, 5-Me	0 0
	1763	Cl	H	CO ₂ iBu	2-OMe, 5-Me	0 0
	1764	Cl	H	CO ₂ iBu	2-F, 6-iPr	0 0
	1765	Cl	H	CO ₂ iBu	2-Cl, 6-cPr	0 0
25	1766	Cl	H	CO ₂ iBu	2-Br, 6-Me	0 0
	1767	Cl	H	CO ₂ iBu	2-I, 6-Me	0 0
	1768	Cl	H	CO ₂ iBu	2, 6-Me ₂	0 0
	1769	Cl	H	CO ₂ iBu	2-Me, 6-Et	0 0
	1770	Cl	H	CO ₂ iBu	2-Me, 6-cPr	0 0
30	1771	Cl	H	CO ₂ iBu	2, 6-cPr ₂	0 0
	1772	Cl	H	CO ₂ iBu	2-cPr, 3, 5-Me ₂	0 0
	1773	Cl	H	CO ₂ iBu	2-cPr, 5, 6-Me ₂	0 0
	1774	Cl	H	CO ₂ Bu	2-Me	0 0
	1775	Cl	H	CO ₂ Bu	2-iPr	0 0
35	1776	Cl	H	CO ₂ Bu	2-cPr	0 0
	1777	Cl	H	CO ₂ Bu	2-CH ₂ CH ₂ CH ₂ -3	0 0

	1778	Cl	H	CO ₂ Bu	2, 6-Me ₂	0 0
	1779	Cl	H	CO ₂ Bu	2-Me, 6-cPr	0 0
	1780	Cl	H	CO ₂ CH ₂ Cl	2-Me	0 0
	1781	Cl	H	CO ₂ CH ₂ Cl	2-iPr	0 0
5	1782	Cl	H	CO ₂ CH ₂ Cl	2-cPr	0 0
	1783	Cl	H	CO ₂ CH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1784	Cl	H	CO ₂ CH ₂ Cl	2, 6-Me ₂	0 0
	1785	Cl	H	CO ₂ CH ₂ Cl	2-Me, 6-cPr	0 0
	1786	Cl	H	CO ₂ CH ₂ CCl ₃	2-Cl	0 0
10	1787	Cl	H	CO ₂ CH ₂ CCl ₃	2-Br	0 0
	1788	Cl	H	CO ₂ CH ₂ CCl ₃	2-I	0 0
	1789	Cl	H	CO ₂ CH ₂ CCl ₃	2-Me	0 0
	1790	Cl	H	CO ₂ CH ₂ CCl ₃	2-iPr	0 0
	1791	Cl	H	CO ₂ CH ₂ CCl ₃	2-cPr	0 0
15	1792	Cl	H	CO ₂ CH ₂ CCl ₃	2-cBu	0 0
	1793	Cl	H	CO ₂ CH ₂ CCl ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1794	Cl	H	CO ₂ CH ₂ CCl ₃	2-cPr, 5-Me	0 0
	1795	Cl	H	CO ₂ CH ₂ CCl ₃	2-OMe, 5-Me	0 0
	1796	Cl	H	CO ₂ CH ₂ CCl ₃	2-F, 6-iPr	0 0
20	1797	Cl	H	CO ₂ CH ₂ CCl ₃	2-Cl, 6-cPr	0 0
	1798	Cl	H	CO ₂ CH ₂ CCl ₃	2-Br, 6-Me	0 0
	1799	Cl	H	CO ₂ CH ₂ CCl ₃	2-I, 6-Me	0 0
	1800	Cl	H	CO ₂ CH ₂ CCl ₃	2, 6-Me ₂	0 0
	1801	Cl	H	CO ₂ CH ₂ CCl ₃	2-Me, 6-Et	0 0
25	1802	Cl	H	CO ₂ CH ₂ CCl ₃	2-Me, 6-cPr	0 0
	1803	Cl	H	CO ₂ CH ₂ CCl ₃	2, 6-cPr ₂	0 0
	1804	Cl	H	CO ₂ CH ₂ CCl ₃	2-cPr, 3, 5-Me ₂	0 0
	1805	Cl	H	CO ₂ CH ₂ CCl ₃	2-cPr, 5, 6-Me ₂	0 0
	1806	Cl	H	CO ₂ CH ₂ CH=CH ₂	2-Me	0 0
30	1807	Cl	H	CO ₂ CH ₂ CH=CH ₂	2-iPr	0 0
	1808	Cl	H	CO ₂ CH ₂ CH=CH ₂	2-cPr	0 0
	1809	Cl	H	CO ₂ CH ₂ CH=CH ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1810	Cl	H	CO ₂ CH ₂ CH=CH ₂	2, 6-Me ₂	0 0
	1811	Cl	H	CO ₂ CH ₂ CH=CH ₂	2-Me, 6-cPr	0 0
35	1812	Cl	H	CO ₂ CH ₂ Ph	2-Me	0 0
	1813	Cl	H	CO ₂ CH ₂ Ph	2-iPr	0 0

	1814	Cl	H	CO ₂ CH ₂ Ph	2-cPr	0 0
	1815	Cl	H	CO ₂ CH ₂ Ph	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1816	Cl	H	CO ₂ CH ₂ Ph	2, 6-Me ₂	0 0
	1817	Cl	H	CO ₂ CH ₂ Ph	2-Me, 6-cPr	0 0
5	1818	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2-Me	0 0
	1819	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2-iPr	0 0
	1820	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2-cPr	0 0
	1821	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1822	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2, 6-Me ₂	0 0
10	1823	Cl	H	CO ₂ CH ₂ CH ₂ OMe	2-Me, 6-cPr	0 0
	1824	Cl	H	CO ₂ Ph	2-Cl	0 0
	1825	Cl	H	CO ₂ Ph	2-Br	0 0
	1826	Cl	H	CO ₂ Ph	2-I	0 0
	1827	Cl	H	CO ₂ Ph	2-Me	0 0
15	1828	Cl	H	CO ₂ Ph	2-iPr	0 0
	1829	Cl	H	CO ₂ Ph	2-cPr	0 0
	1830	Cl	H	CO ₂ Ph	2-cBu	0 0
	1831	Cl	H	CO ₂ Ph	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1832	Cl	H	CO ₂ Ph	2-cPr, 5-Me	0 0
20	1833	Cl	H	CO ₂ Ph	2-OMe, 5-Me	0 0
	1834	Cl	H	CO ₂ Ph	2-F, 6-iPr	0 0
	1835	Cl	H	CO ₂ Ph	2-Cl, 6-cPr	0 0
	1836	Cl	H	CO ₂ Ph	2-Br, 6-Me	0 0
	1837	Cl	H	CO ₂ Ph	2-I, 6-Me	0 0
25	1838	Cl	H	CO ₂ Ph	2, 6-Me ₂	0 0
	1839	Cl	H	CO ₂ Ph	2-Me, 6-Et	0 0
	1840	Cl	H	CO ₂ Ph	2-Me, 6-cPr	0 0
	1841	Cl	H	CO ₂ Ph	2, 6-cPr ₂	0 0
	1842	Cl	H	CO ₂ Ph	2-cPr, 3, 5-Me ₂	0 0
30	1843	Cl	H	CO ₂ Ph	2-cPr, 5, 6-Me ₂	0 0
	1844	Cl	H	CO ₂ (Ph-4-Cl)	2-Me	0 0
	1845	Cl	H	CO ₂ (Ph-4-Cl)	2-iPr	0 0
	1846	Cl	H	CO ₂ (Ph-4-Cl)	2-cPr	0 0
	1847	Cl	H	CO ₂ (Ph-4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
35	1848	Cl	H	CO ₂ (Ph-4-Cl)	2, 6-Me ₂	0 0
	1849	Cl	H	CO ₂ (Ph-4-Cl)	2-Me, 6-cPr	0 0

	1850	Cl	H	CO ₂ (Ph-4-NO ₂)	2-Me	0 0
	1851	Cl	H	CO ₂ (Ph-4-NO ₂)	2-iPr	0 0
	1852	Cl	H	CO ₂ (Ph-4-NO ₂)	2-cPr	0 0
	1853	Cl	H	CO ₂ (Ph-4-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
5	1854	Cl	H	CO ₂ (Ph-4-NO ₂)	2, 6-Me ₂	0 0
	1855	Cl	H	CO ₂ (Ph-4-NO ₂)	2-Me, 6-cPr	0 0
	1856	Cl	H	CO ₂ (1-Np)	2-Me	0 0
	1857	Cl	H	CO ₂ (1-Np)	2-iPr	0 0
	1858	Cl	H	CO ₂ (1-Np)	2-cPr	0 0
10	1859	Cl	H	CO ₂ (1-Np)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1860	Cl	H	CO ₂ (1-Np)	2, 6-Me ₂	0 0
	1861	Cl	H	CO ₂ (1-Np)	2-Me, 6-cPr	0 0
	1862	Cl	H	CO ₂ (9-Q ⁴)	2-Me	0 0
	1863	Cl	H	CO ₂ (9-Q ⁴)	2-iPr	0 0
15	1864	Cl	H	CO ₂ (9-Q ⁴)	2-cPr	0 0
	1865	Cl	H	CO ₂ (9-Q ⁴)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1866	Cl	H	CO ₂ (9-Q ⁴)	2, 6-Me ₂	0 0
	1867	Cl	H	CO ₂ (9-Q ⁴)	2-Me, 6-cPr	0 0
	1868	Cl	H	CO ₂ Q ⁵	2-Me	0 0
20	1869	Cl	H	CO ₂ Q ⁵	2-iPr	0 0
	1870	Cl	H	CO ₂ Q ⁵	2-cPr	0 0
	1871	Cl	H	CO ₂ Q ⁵	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1872	Cl	H	CO ₂ Q ⁵	2, 6-Me ₂	0 0
	1873	Cl	H	CO ₂ Q ⁵	2-Me, 6-cPr	0 0
25	1874	Cl	H	CONMe ₂	2-Cl	0 0
	1875	Cl	H	CONMe ₂	2-Br	0 0
	1876	Cl	H	CONMe ₂	2-I	0 0
	1877	Cl	H	CONMe ₂	2-Me	0 0
	1878	Cl	H	CONMe ₂	2-iPr	0 0
30	1879	Cl	H	CONMe ₂	2-cPr	0 0
	1880	Cl	H	CONMe ₂	2-cBu	0 0
	1881	Cl	H	CONMe ₂	3-CF ₃	0 0
	1882	Cl	H	CONMe ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1883	Cl	H	CONMe ₂	2-cPr, 5-Me	0 0
35	1884	Cl	H	CONMe ₂	2-OMe, 5-Me	0 0
	1885	Cl	H	CONMe ₂	2-F, 6-iPr	0 0

	1886	Cl	H	CONMe ₂	2-Cl, 6-cPr	0 0
	1887	Cl	H	CONMe ₂	2-Br, 6-Me	0 0
	1888	Cl	H	CONMe ₂	2-I, 6-Me	0 0
	1889	Cl	H	CONMe ₂	2, 6-Me ₂	0 0
5	1890	Cl	H	CONMe ₂	2-Me, 6-Et	0 0
	1891	Cl	H	CONMe ₂	2-Me, 6-cPr	0 0
	1892	Cl	H	CONMe ₂	2, 6-cPr ₂	0 0
	1893	Cl	H	CONMe ₂	2-cPr, 3, 5-Me ₂	0 0
	1894	Cl	H	CONMe ₂	2-cPr, 5, 6-Me ₂	0 0
10	1895	Cl	H	CONEt ₂	2-Cl	0 0
	1896	Cl	H	CONEt ₂	2-Br	0 0
	1897	Cl	H	CONEt ₂	2-I	0 0
	1898	Cl	H	CONEt ₂	2-Me	0 0
	1899	Cl	H	CONEt ₂	2-iPr	0 0
15	1900	Cl	H	CONEt ₂	2-cPr	0 0
	1901	Cl	H	CONEt ₂	2-cBu	0 0
	1902	Cl	H	CONEt ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1903	Cl	H	CONEt ₂	2-cPr, 5-Me	0 0
	1904	Cl	H	CONEt ₂	2-OMe, 5-Me	0 0
20	1905	Cl	H	CONEt ₂	2-F, 6-iPr	0 0
	1906	Cl	H	CONEt ₂	2-Cl, 6-cPr	0 0
	1907	Cl	H	CONEt ₂	2-Br, 6-Me	0 0
	1908	Cl	H	CONEt ₂	2-I, 6-Me	0 0
	1909	Cl	H	CONEt ₂	2, 6-Me ₂	0 0
25	1910	Cl	H	CONEt ₂	2-Me, 6-Et	0 0
	1911	Cl	H	CONEt ₂	2-Me, 6-cPr	0 0
	1912	Cl	H	CONEt ₂	2, 6-cPr ₂	0 0
	1913	Cl	H	CONEt ₂	2-cPr, 3, 5-Me ₂	0 0
	1914	Cl	H	CONEt ₂	2-cPr, 5, 6-Me ₂	0 0
30	1915	Cl	H	CON(iPr) ₂	2-Me	0 0
	1916	Cl	H	CON(iPr) ₂	2-iPr	0 0
	1917	Cl	H	CON(iPr) ₂	2-cPr	0 0
	1918	Cl	H	CON(iPr) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1919	Cl	H	CON(iPr) ₂	2, 6-Me ₂	0 0
35	1920	Cl	H	CON(iPr) ₂	2-Me, 6-cPr	0 0
	1921	Cl	H	CO-1-Pyrd	2-Cl	0 0

	1922	Cl	H	CO-1-Pyrd	2-Br	0 0
	1923	Cl	H	CO-1-Pyrd	2-I	0 0
	1924	Cl	H	CO-1-Pyrd	2-Me	0 0
	1925	Cl	H	CO-1-Pyrd	2-iPr	0 0
5	1926	Cl	H	CO-1-Pyrd	2-cPr	0 0
	1927	Cl	H	CO-1-Pyrd	2-cBu	0 0
	1928	Cl	H	CO-1-Pyrd	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1929	Cl	H	CO-1-Pyrd	2-cPr, 5-Me	0 0
	1930	Cl	H	CO-1-Pyrd	2-OMe, 5-Me	0 0
10	1931	Cl	H	CO-1-Pyrd	2-F, 6-iPr	0 0
	1932	Cl	H	CO-1-Pyrd	2-Cl, 6-cPr	0 0
	1933	Cl	H	CO-1-Pyrd	2-Br, 6-Me	0 0
	1934	Cl	H	CO-1-Pyrd	2-I, 6-Me	0 0
	1935	Cl	H	CO-1-Pyrd	2, 6-Me ₂	0 0
15	1936	Cl	H	CO-1-Pyrd	2-Me, 6-Et	0 0
	1937	Cl	H	CO-1-Pyrd	2-Me, 6-cPr	0 0
	1938	Cl	H	CO-1-Pyrd	2, 6-cPr ₂	0 0
	1939	Cl	H	CO-1-Pyrd	2-cPr, 3, 5-Me ₂	0 0
	1940	Cl	H	CO-1-Pyrd	2-cPr, 5, 6-Me ₂	0 0
20	1941	Cl	H	CONMePh	2-Me	0 0
	1942	Cl	H	CONMePh	2-iPr	0 0
	1943	Cl	H	CONMePh	2-cPr	0 0
	1944	Cl	H	CONMePh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1945	Cl	H	CONMePh	2, 6-Me ₂	0 0
25	1946	Cl	H	CONMePh	2-Me, 6-cPr	0 0
	1947	Cl	H	CONPh ₂	2-Me	0 0
	1948	Cl	H	CONPh ₂	2-iPr	0 0
	1949	Cl	H	CONPh ₂	2-cPr	0 0
	1950	Cl	H	CONPh ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	1951	Cl	H	CONPh ₂	2, 6-Me ₂	0 0
	1952	Cl	H	CONPh ₂	2-Me, 6-cPr	0 0
	1953	Cl	H	COSMe	2-Me	0 0
	1954	Cl	H	COSMe	2-iPr	0 0
	1955	Cl	H	COSMe	2-cPr	0 0
35	1956	Cl	H	COSMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1957	Cl	H	COSMe	2, 6-Me ₂	0 0

					2-Me, 6-cPr	0 0
	1958	Cl	H	COSMe		0 0
	1959	Cl	H	COSC ₇ H ₁₅	2-Me	0 0
	1960	Cl	H	COSC ₇ H ₁₅	2-iPr	0 0
	1961	Cl	H	COSC ₇ H ₁₅	2-cPr	0 0
5	1962	Cl	H	COSC ₇ H ₁₅	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1963	Cl	H	COSC ₇ H ₁₅	2, 6-Me ₂	0 0
	1964	Cl	H	COSC ₇ H ₁₅	2-Me, 6-cPr	0 0
	1965	Cl	H	COScHx	2-Me	0 0
	1966	Cl	H	COScHx	2-iPr	0 0
10	1967	Cl	H	COScHx	2-cPr	0 0
	1968	Cl	H	COScHx	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1969	Cl	H	COScHx	2, 6-Me ₂	0 0
	1970	Cl	H	COScHx	2-Me, 6-cPr	0 0
	1971	Cl	H	COSPh	2-Me	0 0
15	1972	Cl	H	COSPh	2-iPr	0 0
	1973	Cl	H	COSPh	2-cPr	0 0
	1974	Cl	H	COSPh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1975	Cl	H	COSPh	2, 6-Me ₂	0 0
	1976	Cl	H	COSPh	2-Me, 6-cPr	0 0
20	1977	Cl	H	SO ₂ Me	2-F	0 0
	1978	Cl	H	SO ₂ Me	2-Cl	0 0
	1979	Cl	H	SO ₂ Me	2-Br	0 0
	1980	Cl	H	SO ₂ Me	2-I	0 0
	1981	Cl	H	SO ₂ Me	2-Me	0 0
25	1982	Cl	H	SO ₂ Me	2-Et	0 0
	1983	Cl	H	SO ₂ Me	2-iPr	0 0
	1984	Cl	H	SO ₂ Me	2-tBu	0 0
	1985	Cl	H	SO ₂ Me	2-cPr	0 0
	1986	Cl	H	SO ₂ Me	2-(cPr-1-Me)	0 0
30	1987	Cl	H	SO ₂ Me	2-(cPr-2-Me)	0 0
	1988	Cl	H	SO ₂ Me	2-(cPr-2, 2-Cl ₂)	0 0
	1989	Cl	H	SO ₂ Me	2-cBu	0 0
	1990	Cl	H	SO ₂ Me	2-CH ₂ CH ₂ CH ₂ -3	0 0
	1991	Cl	H	SO ₂ Me	2-CH=CH-O-3	0 0
35	1992	Cl	H	SO ₂ Me	2-CH ₂ CH ₂ O-3	0 0
	1993	Cl	H	SO ₂ Me	2-OCH=CH-3	0 0

	1994	Cl	H	SO ₂ Me	2-OCH ₂ CH ₂ -3	0 0
	1995	Cl	H	SO ₂ Me	2-cPr, 5-F	0 0
	1996	Cl	H	SO ₂ Me	2-cPr, 5-Cl	0 0
	1997	Cl	H	SO ₂ Me	2-cPr, 5-Me	0 0
5	1998	Cl	H	SO ₂ Me	2-OMe, 5-Me	0 0
	1999	Cl	H	SO ₂ Me	2-F, 6-iPr	0 0
	2000	Cl	H	SO ₂ Me	2-F, 6-cPr	0 0
	2001	Cl	H	SO ₂ Me	2-Cl, 6-Me	0 0
	2002	Cl	H	SO ₂ Me	2-Cl, 6-cPr	0 0
10	2003	Cl	H	SO ₂ Me	2-Br, 6-Me	0 0
	2004	Cl	H	SO ₂ Me	2-Br, 6-Et	0 0
	2005	Cl	H	SO ₂ Me	2-Br, 6-cPr	0 0
	2006	Cl	H	SO ₂ Me	2-I, 6-Me	0 0
	2007	Cl	H	SO ₂ Me	2-I, 6-Et	0 0
15	2008	Cl	H	SO ₂ Me	2, 6-Me ₂	0 0
	2009	Cl	H	SO ₂ Me	2-Me, 6-Et	0 0
	2010	Cl	H	SO ₂ Me	2-Me, 6-cPr	0 0
	2011	Cl	H	SO ₂ Me	2-Et, 6-cPr	0 0
	2012	Cl	H	SO ₂ Me	2-iPr, 6-cPr	0 0
20	2013	Cl	H	SO ₂ Me	2-tBu, 6-cPr	0 0
	2014	Cl	H	SO ₂ Me	2, 6-cPr ₂	0 0
	2015	Cl	H	SO ₂ Me	2-cPr, 6-OMe	0 0
	2016	Cl	H	SO ₂ Me	2-Br, 3, 6-Me ₂	0 0
	2017	Cl	H	SO ₂ Me	2-cPr, 3, 5-Me ₂	0 0
25	2018	Cl	H	SO ₂ Me	2-cPr, 4, 6-Me ₂	0 0
	2019	Cl	H	SO ₂ Me	2-Br, 5, 6-Me ₂	0 0
	2020	Cl	H	SO ₂ Me	2-cPr, 5, 6-Me ₂	0 0
	2021	Cl	H	SO ₂ Me	2-Br, 5-CH=CH-O-6	0 0
	2022	Cl	H	SO ₂ Me	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
30	2023	Cl	H	SO ₂ Me	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	2024	Cl	H	SO ₂ Me	2-Me, 5-CH=CH-O-6	0 0
	2025	Cl	H	SO ₂ Me	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2026	Cl	H	SO ₂ Me	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2027	Cl	H	SO ₂ Me	2-cPr, 5-CH=CH-O-6	0 0
35	2028	Cl	H	SO ₂ Me	2-Br, 3, 5, 6-Me ₃	0 0
	2029	Cl	H	SO ₂ Et	2-Me	0 0

	2030	Cl	H	SO ₂ Et	2-iPr	0 0
	2031	Cl	H	SO ₂ Et	2-cPr	0 0
	2032	Cl	H	SO ₂ Et	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2033	Cl	H	SO ₂ Et	2, 6-Me ₂	0 0
5	2034	Cl	H	SO ₂ Et	2-Me, 6-cPr	0 0
	2035	Cl	H	SO ₂ Pr	2-Cl	0 0
	2036	Cl	H	SO ₂ Pr	2-Br	0 0
	2037	Cl	H	SO ₂ Pr	2-I	0 0
	2038	Cl	H	SO ₂ Pr	2-Me	0 0
10	2039	Cl	H	SO ₂ Pr	2-iPr	0 0
	2040	Cl	H	SO ₂ Pr	2-cPr	0 0
	2041	Cl	H	SO ₂ Pr	2-cBu	0 0
	2042	Cl	H	SO ₂ Pr	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2043	Cl	H	SO ₂ Pr	2-cPr, 5-Me	0 0
15	2044	Cl	H	SO ₂ Pr	2-OMe, 5-Me	0 0
	2045	Cl	H	SO ₂ Pr	2-F, 6-iPr	0 0
	2046	Cl	H	SO ₂ Pr	2-Cl, 6-cPr	0 0
	2047	Cl	H	SO ₂ Pr	2-Br, 6-Me	0 0
	2048	Cl	H	SO ₂ Pr	2-I, 6-Me	0 0
20	2049	Cl	H	SO ₂ Pr	2, 6-Me ₂	0 0
	2050	Cl	H	SO ₂ Pr	2-Me, 6-Et	0 0
	2051	Cl	H	SO ₂ Pr	2-Me, 6-cPr	0 0
	2052	Cl	H	SO ₂ Pr	2, 6-cPr ₂	0 0
	2053	Cl	H	SO ₂ Pr	2-cPr, 3, 5-Me ₂	0 0
25	2054	Cl	H	SO ₂ Pr	2-cPr, 5, 6-Me ₂	0 0
	2055	Cl	H	SO ₂ iPr	2-Me	0 0
	2056	Cl	H	SO ₂ iPr	2-iPr	0 0
	2057	Cl	H	SO ₂ iPr	2-cPr	0 0
	2058	Cl	H	SO ₂ iPr	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	2059	Cl	H	SO ₂ iPr	2, 6-Me ₂	0 0
	2060	Cl	H	SO ₂ iPr	2-Me, 6-cPr	0 0
	2061	Cl	H	SO ₂ C ₈ H ₁₇	2-Me	0 0
	2062	Cl	H	SO ₂ C ₈ H ₁₇	2-iPr	0 0
	2063	Cl	H	SO ₂ C ₈ H ₁₇	2-cPr	0 0
35	2064	Cl	H	SO ₂ C ₈ H ₁₇	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2065	Cl	H	SO ₂ C ₈ H ₁₇	2, 6-Me ₂	0 0

	2066	Cl	H	SO ₂ C ₈ H ₁₇	2-Me, 6-cPr	0 0
	2067	Cl	H	SO ₂ CH ₂ Cl	2-Me	0 0
	2068	Cl	H	SO ₂ CH ₂ Cl	2-iPr	0 0
	2069	Cl	H	SO ₂ CH ₂ Cl	2-cPr	0 0
5	2070	Cl	H	SO ₂ CH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2071	Cl	H	SO ₂ CH ₂ Cl	2, 6-Me ₂	0 0
	2072	Cl	H	SO ₂ CH ₂ Cl	2-Me, 6-cPr	0 0
	2073	Cl	H	SO ₂ CF ₃	2-F	0 0
	2074	Cl	H	SO ₂ CF ₃	2-Cl	0 0
10	2075	Cl	H	SO ₂ CF ₃	2-Br	0 0
	2076	Cl	H	SO ₂ CF ₃	2-I	0 0
	2077	Cl	H	SO ₂ CF ₃	2-Me	0 0
	2078	Cl	H	SO ₂ CF ₃	2-Et	0 0
	2079	Cl	H	SO ₂ CF ₃	2-iPr	0 0
15	2080	Cl	H	SO ₂ CF ₃	2-tBu	0 0
	2081	Cl	H	SO ₂ CF ₃	2-cPr	0 0
	2082	Cl	H	SO ₂ CF ₃	2-(cPr-1-Me)	0 0
	2083	Cl	H	SO ₂ CF ₃	2-(cPr-2-Me)	0 0
	2084	Cl	H	SO ₂ CF ₃	2-(cPr-2, 2-Cl ₂)	0 0
20	2085	Cl	H	SO ₂ CF ₃	2-cBu	0 0
	2086	Cl	H	SO ₂ CF ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2087	Cl	H	SO ₂ CF ₃	2-CH=CH-O-3	0 0
	2088	Cl	H	SO ₂ CF ₃	2-CH ₂ CH ₂ O-3	0 0
	2089	Cl	H	SO ₂ CF ₃	2-OCH=CH-3	0 0
25	2090	Cl	H	SO ₂ CF ₃	2-OCH ₂ CH ₂ -3	0 0
	2091	Cl	H	SO ₂ CF ₃	2-cPr, 5-F	0 0
	2092	Cl	H	SO ₂ CF ₃	2-cPr, 5-Cl	0 0
	2093	Cl	H	SO ₂ CF ₃	2-cPr, 5-Me	0 0
	2094	Cl	H	SO ₂ CF ₃	2-OMe, 5-Me	0 0
30	2095	Cl	H	SO ₂ CF ₃	2-F, 6-iPr	0 0
	2096	Cl	H	SO ₂ CF ₃	2-F, 6-cPr	0 0
	2097	Cl	H	SO ₂ CF ₃	2-Cl, 6-Me	0 0
	2098	Cl	H	SO ₂ CF ₃	2-Cl, 6-cPr	0 0
	2099	Cl	H	SO ₂ CF ₃	2-Br, 6-Me	0 0
35	2100	Cl	H	SO ₂ CF ₃	2-Br, 6-Et	0 0
	2101	Cl	H	SO ₂ CF ₃	2-Br, 6-cPr	0 0

	2102	Cl	H	SO ₂ CF ₃	2-I, 6-Me	0 0
	2103	Cl	H	SO ₂ CF ₃	2-I, 6-Et	0 0
	2104	Cl	H	SO ₂ CF ₃	2, 6-Me ₂	0 0
	2105	Cl	H	SO ₂ CF ₃	2-Me, 6-Et	0 0
5	2106	Cl	H	SO ₂ CF ₃	2-Me, 6-cPr	0 0
	2107	Cl	H	SO ₂ CF ₃	2-Et, 6-cPr	0 0
	2108	Cl	H	SO ₂ CF ₃	2-iPr, 6-cPr	0 0
	2109	Cl	H	SO ₂ CF ₃	2-tBu, 6-cPr	0 0
	2110	Cl	H	SO ₂ CF ₃	2, 6-cPr ₂	0 0
10	2111	Cl	H	SO ₂ CF ₃	2-cPr, 6-OMe	0 0
	2112	Cl	H	SO ₂ CF ₃	2-Br, 3, 6-Me ₂	0 0
	2113	Cl	H	SO ₂ CF ₃	2-cPr, 3, 5-Me ₂	0 0
	2114	Cl	H	SO ₂ CF ₃	2-cPr, 4, 6-Me ₂	0 0
	2115	Cl	H	SO ₂ CF ₃	2-Br, 5, 6-Me ₂	0 0
15	2116	Cl	H	SO ₂ CF ₃	2-cPr, 5, 6-Me ₂	0 0
	2117	Cl	H	SO ₂ CF ₃	2-Br, 5-CH=CH-O-6	0 0
	2118	Cl	H	SO ₂ CF ₃	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2119	Cl	H	SO ₂ CF ₃	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	2120	Cl	H	SO ₂ CF ₃	2-Me, 5-CH=CH-O-6	0 0
20	2121	Cl	H	SO ₂ CF ₃	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2122	Cl	H	SO ₂ CF ₃	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2123	Cl	H	SO ₂ CF ₃	2-cPr, 5-CH=CH-O-6	0 0
	2124	Cl	H	SO ₂ CF ₃	2-Br, 3, 5, 6-Me ₃	0 0
	2125	Cl	H	SO ₂ CCl ₃	2-Me	0 0
25	2126	Cl	H	SO ₂ CCl ₃	2-iPr	0 0
	2127	Cl	H	SO ₂ CCl ₃	2-cPr	0 0
	2128	Cl	H	SO ₂ CCl ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2129	Cl	H	SO ₂ CCl ₃	2, 6-Me ₂	0 0
	2130	Cl	H	SO ₂ CCl ₃	2-Me, 6-cPr	0 0
30	2131	Cl	H	SO ₂ CH ₂ CF ₃	2-Me	0 0
	2132	Cl	H	SO ₂ CH ₂ CF ₃	2-iPr	0 0
	2133	Cl	H	SO ₂ CH ₂ CF ₃	2-cPr	0 0
	2134	Cl	H	SO ₂ CH ₂ CF ₃	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2135	Cl	H	SO ₂ CH ₂ CF ₃	2, 6-Me ₂	0 0
35	2136	Cl	H	SO ₂ CH ₂ CF ₃	2-Me, 6-cPr	0 0
	2137	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2-Me	0 0

	2138	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2-iPr	0 0
	2139	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2-cPr	0 0
	2140	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2141	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2, 6-Me ₂	0 0
5	2142	Cl	H	SO ₂ CH ₂ CH ₂ CH ₂ Cl	2-Me, 6-cPr	0 0
	2143	Cl	H	SO ₂ Ph	2-F	0 0
	2144	Cl	H	SO ₂ Ph	2-Cl	0 0
	2145	Cl	H	SO ₂ Ph	2-Br	0 0
	2146	Cl	H	SO ₂ Ph	2-I	0 0
10	2147	Cl	H	SO ₂ Ph	2-Me	0 0
	2148	Cl	H	SO ₂ Ph	2-Et	0 0
	2149	Cl	H	SO ₂ Ph	2-iPr	0 0
	2150	Cl	H	SO ₂ Ph	2-tBu	0 0
	2151	Cl	H	SO ₂ Ph	2-cPr	0 0
15	2152	Cl	H	SO ₂ Ph	2-(cPr-1-Me)	0 0
	2153	Cl	H	SO ₂ Ph	2-(cPr-2-Me)	0 0
	2154	Cl	H	SO ₂ Ph	2-(cPr-2, 2-Cl ₂)	0 0
	2155	Cl	H	SO ₂ Ph	2-cBu	0 0
	2156	Cl	H	SO ₂ Ph	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	2157	Cl	H	SO ₂ Ph	2-CH=CHO-3	0 0
	2158	Cl	H	SO ₂ Ph	2-CH ₂ CH ₂ O-3	0 0
	2159	Cl	H	SO ₂ Ph	2-OCH=CH-3	0 0
	2160	Cl	H	SO ₂ Ph	2-OCH ₂ CH ₂ -3	0 0
	2161	Cl	H	SO ₂ Ph	2-cPr, 5-F	0 0
25	2162	Cl	H	SO ₂ Ph	2-cPr, 5-Cl	0 0
	2163	Cl	H	SO ₂ Ph	2-cPr, 5-Me	0 0
	2164	Cl	H	SO ₂ Ph	2-OMe, 5-Me	0 0
	2165	Cl	H	SO ₂ Ph	2-F, 6-iPr	0 0
	2166	Cl	H	SO ₂ Ph	2-F, 6-cPr	0 0
30	2167	Cl	H	SO ₂ Ph	2-Cl, 6-Me	0 0
	2168	Cl	H	SO ₂ Ph	2-Cl, 6-cPr	0 0
	2169	Cl	H	SO ₂ Ph	2-Br, 6-Me	0 0
	2170	Cl	H	SO ₂ Ph	2-Br, 6-Et	0 0
	2171	Cl	H	SO ₂ Ph	2-Br, 6-cPr	0 0
35	2172	Cl	H	SO ₂ Ph	2-I, 6-Me	0 0
	2173	Cl	H	SO ₂ Ph	2-I, 6-Et	0 0

	2174	Cl	H	SO ₂ Ph	2, 6-Me ₂	0 0
	2175	Cl	H	SO ₂ Ph	2-Me, 6-Et	0 0
	2176	Cl	H	SO ₂ Ph	2-Me, 6-cPr	0 0
	2177	Cl	H	SO ₂ Ph	2-Et, 6-cPr	0 0
5	2178	Cl	H	SO ₂ Ph	2-iPr, 6-cPr	0 0
	2179	Cl	H	SO ₂ Ph	2-tBu, 6-cPr	0 0
	2180	Cl	H	SO ₂ Ph	2, 6-cPr ₂	0 0
	2181	Cl	H	SO ₂ Ph	2-cPr, 6-OMe	0 0
	2182	Cl	H	SO ₂ Ph	2-Br, 3, 6-Me ₂	0 0
10	2183	Cl	H	SO ₂ Ph	2-cPr, 3, 5-Me ₂	0 0
	2184	Cl	H	SO ₂ Ph	2-cPr, 4, 6-Me ₂	0 0
	2185	Cl	H	SO ₂ Ph	2-Br, 5, 6-Me ₂	0 0
	2186	Cl	H	SO ₂ Ph	2-cPr, 5, 6-Me ₂	0 0
	2187	Cl	H	SO ₂ Ph	2-Br, 5-CH=CH-O-6	0 0
15	2188	Cl	H	SO ₂ Ph	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2189	Cl	H	SO ₂ Ph	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	2190	Cl	H	SO ₂ Ph	2-Me, 5-CH=CH-O-6	0 0
	2191	Cl	H	SO ₂ Ph	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2192	Cl	H	SO ₂ Ph	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0
20	2193	Cl	H	SO ₂ Ph	2-cPr, 5-CH=CH-O-6	0 0
	2194	Cl	H	SO ₂ Ph	2-Br, 3, 5, 6-Me ₃	0 0
	2195	Cl	H	SO ₂ (Ph-4-Cl)	2-Cl	0 0
	2196	Cl	H	SO ₂ (Ph-4-Cl)	2-Br	0 0
	2197	Cl	H	SO ₂ (Ph-4-Cl)	2-I	0 0
25	2198	Cl	H	SO ₂ (Ph-4-Cl)	2-Me	0 0
	2199	Cl	H	SO ₂ (Ph-4-Cl)	2-iPr	0 0
	2200	Cl	H	SO ₂ (Ph-4-Cl)	2-tBu	0 0
	2201	Cl	H	SO ₂ (Ph-4-Cl)	2-cPr	0 0
	2202	Cl	H	SO ₂ (Ph-4-Cl)	2-cBu	0 0
30	2203	Cl	H	SO ₂ (Ph-4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2204	Cl	H	SO ₂ (Ph-4-Cl)	2-cPr, 5-Me	0 0
	2205	Cl	H	SO ₂ (Ph-4-Cl)	2-OMe, 5-Me	0 0
	2206	Cl	H	SO ₂ (Ph-4-Cl)	2-F, 6-iPr	0 0
	2207	Cl	H	SO ₂ (Ph-4-Cl)	2-Cl, 6-cPr	0 0
35	2208	Cl	H	SO ₂ (Ph-4-Cl)	2-Br, 6-Me	0 0
	2209	Cl	H	SO ₂ (Ph-4-Cl)	2-I, 6-Me	0 0

	2210	Cl	H	SO ₂ (Ph-4-Cl)	2, 6-Me ₂	0 0
	2211	Cl	H	SO ₂ (Ph-4-Cl)	2-Me, 6-Et	0 0
	2212	Cl	H	SO ₂ (Ph-4-Cl)	2-Me, 6-cPr	0 0
	2213	Cl	H	SO ₂ (Ph-4-Cl)	2, 6-cPr ₂	0 0
5	2214	Cl	H	SO ₂ (Ph-4-Cl)	2-cPr, 3, 5-Me ₂	0 0
	2215	Cl	H	SO ₂ (Ph-4-Cl)	2-cPr, 5, 6-Me ₂	0 0
	2216	Cl	H	SO ₂ (Ph-4-Me)	2-F	0 0
	2217	Cl	H	SO ₂ (Ph-4-Me)	2-Cl	0 0
	2218	Cl	H	SO ₂ (Ph-4-Me)	2-Br	0 0
10	2219	Cl	H	SO ₂ (Ph-4-Me)	2-I	0 0
	2220	Cl	H	SO ₂ (Ph-4-Me)	2-Me	0 0
	2221	Cl	H	SO ₂ (Ph-4-Me)	2-Et	0 0
	2222	Cl	H	SO ₂ (Ph-4-Me)	2-iPr	0 0
	2223	Cl	H	SO ₂ (Ph-4-Me)	2-sBu	0 0
15	2224	Cl	H	SO ₂ (Ph-4-Me)	2-tBu	0 0
	2225	Cl	H	SO ₂ (Ph-4-Me)	2-cPr	0 0
	2226	Cl	H	SO ₂ (Ph-4-Me)	2-(cPr-1-Me)	0 0
	2227	Cl	H	SO ₂ (Ph-4-Me)	2-(cPr-2-Me)	0 0
	2228	Cl	H	SO ₂ (Ph-4-Me)	2-(cPr-2, 2-Cl ₂)	0 0
20	2229	Cl	H	SO ₂ (Ph-4-Me)	2-cBu	0 0
	2230	Cl	H	SO ₂ (Ph-4-Me)	2-cHx	0 0
	2231	Cl	H	SO ₂ (Ph-4-Me)	2-Ph	0 0
	2232	Cl	H	SO ₂ (Ph-4-Me)	2-OMe	0 0
	2233	Cl	H	SO ₂ (Ph-4-Me)	2-OSO ₂ (Ph-4-Me)	0 0
25	2234	Cl	H	SO ₂ (Ph-4-Me)	3-Cl	0 0
	2235	Cl	H	SO ₂ (Ph-4-Me)	3-tBu	0 0
	2236	Cl	H	SO ₂ (Ph-4-Me)	3-CF ₃	0 0
	2237	Cl	H	SO ₂ (Ph-4-Me)	3-CN	0 0
	2238	Cl	H	SO ₂ (Ph-4-Me)	3-OMe	0 0
30	2239	Cl	H	SO ₂ (Ph-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2240	Cl	H	SO ₂ (Ph-4-Me)	2-CH=CHCH=CH-3	0 0
	2241	Cl	H	SO ₂ (Ph-4-Me)	2-CH=CH-O-3	0 0
	2242	Cl	H	SO ₂ (Ph-4-Me)	2-CH ₂ CH ₂ O-3	0 0
	2243	Cl	H	SO ₂ (Ph-4-Me)	2-OCH=CH-3	0 0
35	2244	Cl	H	SO ₂ (Ph-4-Me)	2-OCH ₂ CH ₂ -3	0 0
	2245	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 4-tBu	0 0

	2246	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 4-Cl	0 0
	2247	Cl	H	SO ₂ (Ph-4-Me)	2, 4-Me ₂	0 0
	2248	Cl	H	SO ₂ (Ph-4-Me)	2-iPr, 4-Br	0 0
	2249	Cl	H	SO ₂ (Ph-4-Me)	2-iPr, 5-Me	0 0
5	2250	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5-F	0 0
	2251	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5-Cl	0 0
	2252	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5-Me	0 0
	2253	Cl	H	SO ₂ (Ph-4-Me)	2-OMe, 5-Me	0 0
	2254	Cl	H	SO ₂ (Ph-4-Me)	2-F, 6-iPr	0 0
10	2255	Cl	H	SO ₂ (Ph-4-Me)	2-F, 6-cPr	0 0
	2256	Cl	H	SO ₂ (Ph-4-Me)	2-Cl, 6-Me	0 0
	2257	Cl	H	SO ₂ (Ph-4-Me)	2-Cl, 6-cPr	0 0
	2258	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 6-Me	0 0
	2259	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 6-Et	0 0
15	2260	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 6-cPr	0 0
	2261	Cl	H	SO ₂ (Ph-4-Me)	2-I, 6-Me	0 0
	2262	Cl	H	SO ₂ (Ph-4-Me)	2-I, 6-Et	0 0
	2263	Cl	H	SO ₂ (Ph-4-Me)	2, 6-Me ₂	0 0
	2264	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 6-Et	0 0
20	2265	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 6-cPr	0 0
	2266	Cl	H	SO ₂ (Ph-4-Me)	2-Et, 6-cPr	0 0
	2267	Cl	H	SO ₂ (Ph-4-Me)	2-iPr, 6-cPr	0 0
	2268	Cl	H	SO ₂ (Ph-4-Me)	2-tBu, 6-cPr	0 0
	2269	Cl	H	SO ₂ (Ph-4-Me)	2, 6-cPr ₂	0 0
25	2270	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 6-OMe	0 0
	2271	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 3, 6-Me ₂	0 0
	2272	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	2273	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 4, 6-Me ₂	0 0
	2274	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 5, 6-Me ₂	0 0
30	2275	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5, 6-Me ₂	0 0
	2276	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 5-CH=CH-O-6	0 0
	2277	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2278	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 5-CH ₂ CH ₂ O-6	0 0
	2279	Cl	H	SO ₂ (Ph-4-Me)	2-Me, 5-CH=CH-O-6	0 0
35	2280	Cl	H	SO ₂ (Ph-4-Me)	2-Et, 5-CH ₂ CH ₂ CH ₂ -6	0 0
	2281	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5-CH ₂ CH ₂ CH ₂ -6	0 0

	2282	Cl	H	SO ₂ (Ph-4-Me)	2-cPr, 5-CH=CH-O-6	0 0
	2283	Cl	H	SO ₂ (Ph-4-Me)	2-Br, 3, 5, 6-Me ₃	0 0
	2284	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Cl	0 0
	2285	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Br	0 0
5	2286	Cl	H	SO ₂ (Ph-4-NO ₂)	2-I	0 0
	2287	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Me	0 0
	2288	Cl	H	SO ₂ (Ph-4-NO ₂)	2-iPr	0 0
	2289	Cl	H	SO ₂ (Ph-4-NO ₂)	2-cPr	0 0
	2290	Cl	H	SO ₂ (Ph-4-NO ₂)	2-cBu	0 0
10	2291	Cl	H	SO ₂ (Ph-4-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2292	Cl	H	SO ₂ (Ph-4-NO ₂)	2-cPr, 5-Me	0 0
	2293	Cl	H	SO ₂ (Ph-4-NO ₂)	2-OMe, 5-Me	0 0
	2294	Cl	H	SO ₂ (Ph-4-NO ₂)	2-F, 6-iPr	0 0
	2295	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Cl, 6-cPr	0 0
15	2296	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Br, 6-Me	0 0
	2297	Cl	H	SO ₂ (Ph-4-NO ₂)	2-I, 6-Me	0 0
	2298	Cl	H	SO ₂ (Ph-4-NO ₂)	2, 6-Me ₂	0 0
	2299	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Me, 6-Et	0 0
	2300	Cl	H	SO ₂ (Ph-4-NO ₂)	2-Me, 6-cPr	0 0
20	2301	Cl	H	SO ₂ (Ph-4-NO ₂)	2, 6-cPr ₂	0 0
	2302	Cl	H	SO ₂ (Ph-4-NO ₂)	2-cPr, 3, 5-Me ₂	0 0
	2303	Cl	H	SO ₂ (Ph-4-NO ₂)	2-cPr, 5, 6-Me ₂	0 0
	2304	Cl	H	SO ₂ (Ph-4-OMe)	2-Me	0 0
	2305	Cl	H	SO ₂ (Ph-4-OMe)	2-iPr	0 0
25	2306	Cl	H	SO ₂ (Ph-4-OMe)	2-cPr	0 0
	2307	Cl	H	SO ₂ (Ph-4-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2308	Cl	H	SO ₂ (Ph-4-OMe)	2, 6-Me ₂	0 0
	2309	Cl	H	SO ₂ (Ph-4-OMe)	2-Me, 6-cPr	0 0
	2310	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2-Me	0 0
30	2311	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2-iPr	0 0
	2312	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2-cPr	0 0
	2313	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2314	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2, 6-Me ₂	0 0
	2315	Cl	H	SO ₂ (Ph-2, 4, 6-Me ₃)	2-Me, 6-cPr	0 0
35	2316	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2-Me	0 0
	2317	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2-iPr	0 0

	2318	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2-cPr	0 0
	2319	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2320	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2, 6-Me ₂	0 0
	2321	Cl	H	SO ₂ (Ph-2, 4, 6-iPr ₃)	2-Me, 6-cPr	0 0
5	2322	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2-Me	0 0
	2323	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2-iPr	0 0
	2324	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2-cPr	0 0
	2325	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2326	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2, 6-Me ₂	0 0
10	2327	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
	2328	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2-Me	0 0
	2329	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2-iPr	0 0
	2330	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2-cPr	0 0
	2331	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
15	2332	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2, 6-Me ₂	0 0
	2333	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
	2334	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-Me	0 0
	2335	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-iPr	0 0
	2336	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-cPr	0 0
20	2337	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2338	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2, 6-Me ₂	0 0
	2339	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
	2340	Cl	H	SO ₂ OQ ⁵	2-Me	0 0
	2341	Cl	H	SO ₂ OQ ⁵	2-iPr	0 0
25	2342	Cl	H	SO ₂ OQ ⁵	2-cPr	0 0
	2343	Cl	H	SO ₂ OQ ⁵	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2344	Cl	H	SO ₂ OQ ⁵	2, 6-Me ₂	0 0
	2345	Cl	H	SO ₂ OQ ⁵	2-Me, 6-cPr	0 0
	2346	Cl	H	SO ₂ NMe ₂	2-Cl	0 0
30	2347	Cl	H	SO ₂ NMe ₂	2-Br	0 0
	2348	Cl	H	SO ₂ NMe ₂	2-I	0 0
	2349	Cl	H	SO ₂ NMe ₂	2-Me	0 0
	2350	Cl	H	SO ₂ NMe ₂	2-iPr	0 0
	2351	Cl	H	SO ₂ NMe ₂	2-cPr	0 0
35	2352	Cl	H	SO ₂ NMe ₂	2-cBu	0 0
	2353	Cl	H	SO ₂ NMe ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0

	2354	Cl	H	SO ₂ NMe ₂	2-cPr, 5-Me	0 0
	2355	Cl	H	SO ₂ NMe ₂	2-OMe, 5-Me	0 0
	2356	Cl	H	SO ₂ NMe ₂	2-F, 6-iPr	0 0
	2357	Cl	H	SO ₂ NMe ₂	2-Cl, 6-cPr	0 0
5	2358	Cl	H	SO ₂ NMe ₂	2-Br, 6-Me	0 0
	2359	Cl	H	SO ₂ NMe ₂	2-I, 6-Me	0 0
	2360	Cl	H	SO ₂ NMe ₂	2, 6-Me ₂	0 0
	2361	Cl	H	SO ₂ NMe ₂	2-Me, 6-Et	0 0
	2362	Cl	H	SO ₂ NMe ₂	2-Me, 6-cPr	0 0
10	2363	Cl	H	SO ₂ NMe ₂	2, 6-cPr ₂	0 0
	2364	Cl	H	SO ₂ NMe ₂	2-cPr, 3, 5-Me ₂	0 0
	2365	Cl	H	SO ₂ NMe	2-cPr, 5, 6-Me ₂	0 0
	2366	Cl	H	SO ₂ OEt	2-Me	0 0
	2367	Cl	H	SO ₂ OEt	2-iPr	0 0
15	2368	Cl	H	SO ₂ OEt	2-cPr	0 0
	2369	Cl	H	SO ₂ OEt	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2370	Cl	H	SO ₂ OEt	2, 6-Me ₂	0 0
	2371	Cl	H	SO ₂ OEt	2-Me, 6-cPr	0 0
	2372	Cl	Me	H	2-Me	0 0
20	2373	Cl	Me	H	2-iPr	0 0
	2374	Cl	Me	H	2-cPr	0 0
	2375	Cl	Me	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2376	Cl	Me	H	2, 6-Me ₂	0 0
	2377	Cl	Me	H	2-Me, 6-cPr	0 0
25	2378	Cl	CH ₂ OMe	H	2-Me	0 0
	2379	Cl	CH ₂ OMe	H	2-iPr	0 0
	2380	Cl	CH ₂ OMe	H	2-cPr	0 0
	2381	Cl	CH ₂ OMe	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2382	Cl	CH ₂ OMe	H	2, 6-Me ₂	0 0
30	2383	Cl	CH ₂ OMe	H	2-Me, 6-cPr	0 0
	2384	Cl	CO ₂ Et	H	2-Me	0 0
	2385	Cl	CO ₂ Et	H	2-iPr	0 0
	2386	Cl	CO ₂ Et	H	2-tBu	0 0
	2387	Cl	CO ₂ Et	H	2-cPr	0 0
35	2388	Cl	CO ₂ Et	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2389	Cl	CO ₂ Et	H	2, 6-Me ₂	0 0

	2390	Cl	CO ₂ Et	H	2-Me, 6-cPr	0 0
	2391	Cl	CO(Ph-2-F)	H	2-tBu	0 0
	2392	Cl	OMe	H	2-Me	0 0
	2393	Cl	O(Ph-2, 4-F ₂)	H	2, 4-F ₂	0 0
5	2394	Cl	O(Ph-2, 6-F ₂)	H	2, 6-F ₂	0 0
	2395	Cl	O(Ph-2-Me)	H	2-Me	0 0
	2396	Cl	O(Ph-2-Me)	H	2-iPr	0 0
	2397	Cl	O(Ph-2-Me)	H	2-cPr	0 0
	2398	Cl	O(Ph-2-Me)	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	2399	Cl	O(Ph-2-Me)	H	2, 6-Me ₂	0 0
	2400	Cl	O(Ph-2-Me)	H	2-Me, 6-cPr	0 0
	2401	Cl	SPh	H	2-Me	0 0
	2402	Cl	SiMe ₃	H	H	0 0
	2403	Cl	SiMe ₃	H	2-Me	0 0
15	2404	Cl	SiMe ₃	H	2-iPr	0 0
	2405	Cl	SiMe ₃	H	2-tBu	0 0
	2406	Cl	SiMe ₃	H	2-cPr	0 0
	2407	Cl	SiMe ₃	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2408	Cl	SiMe ₃	H	2, 6-Me ₂	0 0
20	2409	Cl	SiMe ₃	H	2-Me, 6-cPr	0 0
	2410	Br	H	H	2-Cl	0 0
	2411	Br	H	H	2-Me	0 0
	2412	Br	H	H	2-iPr	0 0
	2413	Br	H	H	2-cPr	0 0
25	2414	Br	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2415	Br	H	H	2, 6-Me ₂	0 0
	2416	Br	H	H	2-Me, 6-cPr	0 0
	2417	Me	H	H	2-Me	0 0
	2418	Me	H	H	2-iPr	0 0
30	2419	Me	H	H	2-cPr	0 0
	2420	Me	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2421	Me	H	H	2, 6-Me ₂	0 0
	2422	Me	H	H	2-Me, 6-cPr	0 0
	2423	cPr	H	H	2-Me	0 0
35	2424	cPr	H	H	2-iPr	0 0
	2425	cPr	H	H	2-cPr	0 0

	2426	cPr	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2427	cPr	H	H	2, 6-Me ₂	0 0
	2428	cPr	H	H	2-Me, 6-cPr	0 0
	2429	CF ₃	H	H	2-Cl	0 0
5	2430	CF ₃	H	H	2-Me	0 0
	2431	CF ₃	H	H	2-iPr	0 0
	2432	CF ₃	H	H	2-cPr	0 0
	2433	CF ₃	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2434	CF ₃	H	H	2, 6-Me ₂	0 0
10	2435	CF ₃	H	H	2-Me, 6-cPr	0 0
	2436	CH=CH ₂	H	H	2-Me	0 0
	2437	CH=CH ₂	H	H	2-iPr	0 0
	2438	CH=CH ₂	H	H	2-cPr	0 0
	2439	CH=CH ₂	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
15	2440	CH=CH ₂	H	H	2, 6-Me ₂	0 0
	2441	CH=CH ₂	H	H	2-Me, 6-cPr	0 0
	2442	CH=CHMe	H	H	2-Me	0 0
	2443	CH=CHMe	H	H	2-iPr	0 0
	2444	CH=CHMe	H	H	2-cPr	0 0
20	2445	CH=CHMe	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2446	CH=CHMe	H	H	2, 6-Me ₂	0 0
	2447	CH=CHMe	H	H	2-Me, 6-cPr	0 0
	2448	CH ₂ CH=CH ₂	H	H	2-Me	0 0
	2449	CN	H	H	2-Me	0 0
25	2450	CN	H	H	2-iPr	0 0
	2451	CN	H	H	2-cPr	0 0
	2452	CN	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2453	CN	H	H	2, 6-Me ₂	0 0
	2454	CN	H	H	2-Me, 6-cPr	0 0
30	2455	COMe	H	H	2-Me	0 0
	2456	COMe	H	H	2-iPr	0 0
	2457	COMe	H	H	2-cPr	0 0
	2458	COMe	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2459	COMe	H	H	2, 6-Me ₂	0 0
35	2460	COMe	H	H	2-Me, 6-cPr	0 0
	2461	COBu	H	H	2, 6-Me ₂	0 0

	2462	CONMe ₂	H	H	2, 6-Me ₂	0 0
	2463	CONMe ₂	SiMe ₃	H	2, 6-Me ₂	0 0
	2464	Ph	H	H	2-Me	0 0
	2465	Ph	H	H	2-iPr	0 0
5	2466	Ph	H	H	2-cPr	0 0
	2467	Ph	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2468	Ph	H	H	2, 6-Me ₂	0 0
	2469	Ph	H	H	2-Me, 6-cPr	0 0
	2470	Ph	H	H	3-CN	0 0
10	2471	Ph-3-CF ₃	H	H	2-Me	0 0
	2472	Ph-3-CN	H	H	2-iPr	0 0
	2473	Ph-3-CN	H	H	2-cPr	0 0
	2474	Ph-3-CN	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2475	Ph-3-CN	H	H	2, 6-Me ₂	0 0
15	2476	Ph-3-CN	H	H	2-Me, 6-cPr	0 0
	2477	2-Fur	H	H	2-Me	0 0
	2478	2-Thi	H	H	2-Me	0 0
	2479	2-Thi	H	H	2-iPr	0 0
	2480	2-Thi	H	H	2-cPr	0 0
20	2481	2-Thi	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2482	2-Thi	H	H	2, 6-Me ₂	0 0
	2483	2-Thi	H	H	2-Me, 6-cPr	0 0
	2484	OMe	H	H	2-Me	0 0
	2485	O(Ph-2-F)	H	H	2-F	0 0
25	2486	O(Ph-2-F)	H	H	2-Me	0 0
	2487	O(Ph-2-F)	H	H	2-iPr	0 0
	2488	O(Ph-2-F)	H	H	2-cPr	0 0
	2489	O(Ph-2-F)	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2490	O(Ph-2-F)	H	H	2, 6-Me ₂	0 0
30	2491	O(Ph-2-F)	H	H	2-Me, 6-cPr	0 0
	2492	O(Ph-2-Me)	H	H	2-Me	0 0
	2493	O(Ph-2-Me)	H	H	2-iPr	0 0
	2494	O(Ph-2-Me)	H	H	2-cPr	0 0
	2495	O(Ph-2-Me)	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
35	2496	O(Ph-2-Me)	H	H	2, 6-Me ₂	0 0
	2497	O(Ph-2-Me)	H	H	2-Me, 6-cPr	0 0

	2498	0(Ph-2-Me)	CO ₂ Et	H	2-Me	0 0
	2499	0(Ph-4-tBu)	H	H	4-tBu	0 0
	2500	0(Ph-2-iPr-5-Me)	H	H	2-iPr, 5-Me	0 0
	2501	0(Ph-2, 3, 5-Me ₃)	H	H	2, 3, 5-Me ₃	0 0
5	2502	0(Ph-2, 4, 6-Me ₃)	H	H	2, 4, 6-Me ₃	0 0
	2503	0(Ph-2-cHx)	H	H	2-cHx	0 0
	2504	0(Ph-3-CN)	H	H	3-CN	0 0
	2505	0(Ph-4-SiMe ₃)	H	H	4-SiMe ₃	0 0
	2506	OQ ⁵	H	H	2-Me	0 0
10	2507	OQ ⁵	H	H	2-iPr	0 0
	2508	OQ ⁵	H	H	2-cPr	0 0
	2509	OQ ⁵	H	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2510	OQ ⁵	H	H	2, 6-Me ₂	0 0
	2511	OQ ⁵	H	H	2-Me, 6-cPr	0 0
15	2512	Cl	H	H	2-(cPr-1-F-2-F)	0 0
	2513	Cl	H	H	2-(cPr-1-F-2-Cl)	0 0
	2514	Cl	H	H	2-(cPr-1, 2-Cl ₂)	0 0
	2515	Cl	H	H	2-(cPr-1-Cl-2-Br)	0 0
	2516	Cl	H	H	2-(cPr-1, 2-Br ₂)	0 0
20	2517	Cl	H	H	2-(cPr-1-Me-2-Cl)	0 0
	2518	Cl	H	H	2-(cPr-1-Me-2-Br)	0 0
	2519	Cl	H	H	2-(cPr-2-F-2-Cl)	0 0
	2520	Cl	H	H	2-(cPr-2-F-2-Br)	0 0
	2521	Cl	H	H	2-(cPr-2-Cl-2-Br)	0 0
25	2522	Cl	H	H	2-(cPr-1-Me-2, 2-Cl ₂)	0 0
	2523	Cl	H	H	2-(cPr-1-Me-2, 2-Br ₂)	0 0
	2524	Cl	H	H	2-(cPr-1-Me-2-F-2-Cl)	0 0
	2525	Cl	H	H	2-C(F)=CH ₂	0 0
	2526	Cl	H	H	2-C(Cl)=CH ₂	0 0
30	2527	Cl	H	H	2-C(Br)=CH ₂	0 0
	2528	Cl	H	H	2-C(Et)=CH ₂	0 0
	2529	Cl	H	H	2-C(iPr)=CH ₂	0 0
	2530	Cl	H	H	2-C(tBu)=CH ₂	0 0
	2531	Cl	H	H	2-C(CN)=CH ₂	0 0
35	2532	Cl	H	H	2-CH=CHF	0 0
	2533	Cl	H	H	2-CH=CHCl	0 0

	2534	Cl	H	H	2-CH=CHBr	0 0
	2535	Cl	H	H	2-CCl=CHC	0 0
	2536	Cl	H	H	2-CMe=CHCl	0 0
	2537	Cl	H	H	2-CH=CF ₂	0 0
5	2538	Cl	H	H	2-CH=CCl ₂	0 0
	2539	Cl	H	H	2-CH=CBr ₂	0 0
	2540	Cl	H	H	2-CH=CMe ₂	0 0
	2541	Cl	H	H	2-CCl=CCl ₂	0 0
	2542	Cl	H	H	2-CMe=CMe ₂	0 0
10	2543	Cl	H	H	2-CH=C(CN) ₂	0 0
	2544	Cl	H	H	3-OH	0 0
	2545	Cl	H	H	4-OH	0 0
	2546	Cl	H	H	2-OCH ₂ Ph	0 0
	2547	Cl	H	H	3-OCH ₂ Ph	0 0
15	2548	Cl	H	H	4-OCH ₂ Ph	0 0
	2549	Cl	H	H	2-I, 3-F	0 0
	2550	Cl	H	H	2-I, 3-Me	0 0
	2551	Cl	H	H	2-I, 3-OMe	0 0
	2552	Cl	H	H	2-CHMeCH ₂ -3	0 0
20	2553	Cl	H	H	2-CMe ₂ CH ₂ -3	0 0
	2554	Cl	H	H	2-CH ₂ CHMe-3	0 0
	2555	Cl	H	H	2-CH ₂ CH{(CH ₂) ₃ OH}-3	0 0
	2556	Cl	H	H	2-CH ₂ CMe ₂ -3	0 0
	2557	Cl	H	H	2-CH(CH ₂)CH-3	0 0
25	2558	Cl	H	H	2-CH(-CH ₂ CH ₂ -)CH ₂ -3	0 0
	2559	Cl	H	H	2-CHOMeCH ₂ -3	0 0
	2560	Cl	H	H	2-C(=O)CH ₂ -3	0 0
	2561	Cl	H	H	2-CH ₂ C(=O)-3	0 0
	2562	Cl	H	H	2-C(=O)C(=O)-3	0 0
30	2563	Cl	H	H	2-CH ₂ CH ₂ NMe-3	0 0
	2564	Cl	H	H	2-CH=CHNH-3	0 0
	2565	Cl	H	H	2-CH=CHNMe-3	0 0
	2566	Cl	H	H	2-NMeCH ₂ CH ₂ -3	0 0
	2567	Cl	H	H	2-NHCH=CH-3	0 0
35	2568	Cl	H	H	2-NMeCH=CH-3	0 0
	2569	Cl	H	H	2-N(COMe)CH=CH-3	0 0

	2570	Cl	H	H	2-Me, 4-COMe	0 0
	2571	Cl	H	H	2-Me, 4-C(=NOMe)Me	0 0
	2572	Cl	H	H	2-Me, 4-OCOMe	0 0
	2573	Cl	H	H	2-Me, 4-OCOPh	0 0
5	2574	Cl	H	H	2-OMe, 5-CO ₂ Me	0 0
	2575	Cl	H	H	2-Me, 6-CH ₂ F	0 0
	2576	Cl	H	H	2-Me, 6-CHF ₂	0 0
	2577	Cl	H	H	2-Me, 6-CMe=CH ₂	0 0
	2578	Cl	H	H	2-Me, 6-COMe	0 0
10	2579	Cl	H	H	2-Me, 6-C(=NOMe)Me	0 0
	2580	Cl	H	H	2-OMe, 6-CO ₂ Me	0 0
	2581	Cl	H	H	2-Me, 6-OCOMe	0 0
	2582	Cl	H	H	2-Me, 6-OCOPh	0 0
	2583	Cl	H	H	3-Me, 4-F	0 0
15	2584	Cl	H	H	3-CH ₂ CH ₂ CH ₂ -4	0 0
	2585	Cl	H	H	3-CH ₂ CH ₂ CMe ₂ -4	0 0
	2586	Cl	H	H	2, 6-Me ₂ , 3-Br	0 0
	2587	Cl	H	H	2-Me, 3-Br, 6-cPr	0 0
	2588	Cl	H	H	2, 6-Me ₂ , 3-NO ₂	0 0
20	2589	Cl	H	H	2-Me, 3-NO ₂ , 6-cPr	0 0
	2590	Cl	H	H	6-Cl, 2-CH ₂ OCH ₂ -3	0 0
	2591	Cl	H	H	6-Br, 2-CH ₂ OCH ₂ -3	0 0
	2592	Cl	H	H	6-Me, 2-CH ₂ OCH ₂ -3	0 0
	2593	Cl	H	H	6-Et, 2-CH ₂ OCH ₂ -3	0 0
25	2594	Cl	H	H	6-iPr, 2-CH ₂ OCH ₂ -3	0 0
	2595	Cl	H	H	6-cPr, 2-CH ₂ OCH ₂ -3	0 0
	2596	Cl	H	H	2, 4-Br ₂ , 5-SEt	0 0
	2597	Cl	H	H	2-F, 3, 5, 6-Me ₃	0 0
	2598	Cl	H	H	2, 3, 5, 6-Cl ₄	0 0
30	2599	Cl	H	H	2-Cl, 3, 5, 6-Me ₃	0 0
	2600	Cl	H	H	2-I, 3, 5, 6-Me ₃	0 0
	2601	Cl	H	H	2, 3, 5-Me ₃ , 6-Et	0 0
	2602	Cl	H	H	2, 3, 5-Me ₃ , 6-iPr	0 0
	2603	Cl	H	H	2, 3, 5-Me ₃ , 6-CH=CH ₂	0 0
35	2604	Cl	H	H	2, 3, 5-Me ₃ , 6-CCl=CH ₂	0 0
	2605	Cl	H	H	2, 3, 5-Me ₃ , 6-CMe=CH ₂	0 0

	2606	Cl	H	H	2, 3, 5-Me ₃ , 6-CH(SET)Me	0 0
	2607	Cl	H	H	2, 3, 5-Me ₃ , 6-COMe	0 0
	2608	Cl	H	H	2, 3, 5-Me ₃ , 6-NO ₂	0 0
	2609	Cl	H	H	2, 4-Cl ₂ , 3, 5, 6-Me ₃	0 0
5	2610	Cl	H	H	2, 3, 4, 5, 6-F ₅	0 0
	2611	Cl	H	H	2, 3, 4, 5, 6-Cl ₅	0 0
	2612	Cl	H	H	2-Cl, 3, 4, 5, 6-Me ₄	0 0
	2613	Cl	H	H	2-Br, 3, 4, 5, 6-Me ₄	0 0
	2614	Cl	H	H	2, 3, 4, 5, 6-Me ₅	0 0
10	2615	Cl	H	H	2, 3, 4, 5-Me ₄ , 6-Et	0 0
	2616	Cl	H	H	2, 3, 4, 5-Me ₄ , 6-iPr	0 0
	2617	Cl	H	H	2, 3, 4, 5-Me ₄ , 6-cPr	0 0
	2618	Cl	H	COEt	2-Cl	0 0
	2619	Cl	H	COEt	2-Br	0 0
15	2620	Cl	H	COEt	2-I	0 0
	2621	Cl	H	COEt	2-cBu	0 0
	2622	Cl	H	COEt	2-cPr, 5-Me	0 0
	2623	Cl	H	COEt	2-OMe, 5-Me	0 0
	2624	Cl	H	COEt	2-F, 6-iPr	0 0
20	2625	Cl	H	COEt	2-Cl, 6-cPr	0 0
	2626	Cl	H	COEt	2-Br, 6-Me	0 0
	2627	Cl	H	COEt	2-I, 6-Me	0 0
	2628	Cl	H	COEt	2-Me, 6-Et	0 0
	2629	Cl	H	COEt	2, 6-cPr ₂	0 0
25	2630	Cl	H	COEt	2-cPr, 3, 5-Me ₂	0 0
	2631	Cl	H	COEt	2-cPr, 3, 6-Me ₂	0 0
	2632	Cl	H	COiPr	2-Cl	0 0
	2633	Cl	H	COiPr	2-Br	0 0
	2634	Cl	H	COiPr	2-I	0 0
30	2635	Cl	H	COiPr	2-cBu	0 0
	2636	Cl	H	COiPr	2-cPr, 5-Me	0 0
	2637	Cl	H	COiPr	2-OMe, 5-Me	0 0
	2638	Cl	H	COiPr	2-F, 6-iPr	0 0
	2639	Cl	H	COiPr	2-Cl, 6-cPr	0 0
35	2640	Cl	H	COiPr	2-Br, 6-Me	0 0
	2641	Cl	H	COiPr	2-I, 6-Me	0 0

	2642	Cl	H	COiPr	2-Me, 6-Et	0 0
	2643	Cl	H	COiPr	2, 6-cPr ₂	0 0
	2644	Cl	H	COiPr	2-cPr, 3, 5-Me ₂	0 0
	2645	Cl	H	COiPr	2-cPr, 3, 6-Me ₂	0 0
5	2646	Cl	H	COneoPen	2-Cl	0 0
	2647	Cl	H	COneoPen	2-Br	0 0
	2648	Cl	H	COneoPen	2-I	0 0
	2649	Cl	H	COneoPen	2-Me	0 0
	2650	Cl	H	COneoPen	2-iPr	0 0
10	2651	Cl	H	COneoPen	2-cPr	0 0
	2652	Cl	H	COneoPen	2-cBu	0 0
	2653	Cl	H	COneoPen	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2654	Cl	H	COneoPen	2-cPr, 5-Me	0 0
	2655	Cl	H	COneoPen	2-OMe, 5-Me	0 0
15	2656	Cl	H	COneoPen	2-F, 6-iPr	0 0
	2657	Cl	H	COneoPen	2-Cl, 6-cPr	0 0
	2658	Cl	H	COneoPen	2-Br, 6-Me	0 0
	2659	Cl	H	COneoPen	2-I, 6-Me	0 0
	2660	Cl	H	COneoPen	2, 6-Me ₂	0 0
20	2661	Cl	H	COneoPen	2-Me, 6-Et	0 0
	2662	Cl	H	COneoPen	2-Me, 6-cPr	0 0
	2663	Cl	H	COneoPen	2, 6-cPr ₂	0 0
	2664	Cl	H	COneoPen	2-cPr, 3, 5-Me ₂	0 0
	2665	Cl	H	COneoPen	2-cPr, 3, 6-Me ₂	0 0
25	2666	Cl	H	CO(1-Ad)	2-Me	0 0
	2667	Cl	H	CO(1-Ad)	2-iPr	0 0
	2668	Cl	H	CO(1-Ad)	2-cPr	0 0
	2669	Cl	H	CO(1-Ad)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2670	Cl	H	CO(1-Ad)	2, 6-Me ₂	0 0
30	2671	Cl	H	CO(1-Ad)	2-Me, 6-cPr	0 0
	2672	Cl	H	COCMe=CH ₂	2-Me	0 0
	2673	Cl	H	COCMe=CH ₂	2-iPr	0 0
	2674	Cl	H	COCMe=CH ₂	2-cPr	0 0
	2675	Cl	H	COCMe=CH ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
35	2676	Cl	H	COCMe=CH ₂	2, 6-Me ₂	0 0
	2677	Cl	H	COCMe=CH ₂	2-Me, 6-cPr	0 0

	2678	Cl	H	COCH=CMe ₂	2-Cl	0 0
	2679	Cl	H	COCH=CMe ₂	2-Br	0 0
	2680	Cl	H	COCH=CMe ₂	2-I	0 0
	2681	Cl	H	COCH=CMe ₂	2-cBu	0 0
5	2682	Cl	H	COCH=CMe ₂	2-cPr, 5-Me	0 0
	2683	Cl	H	COCH=CMe ₂	2-OMe, 5-Me	0 0
	2684	Cl	H	COCH=CMe ₂	2-F, 6-iPr	0 0
	2685	Cl	H	COCH=CMe ₂	2-Cl, 6-cPr	0 0
	2686	Cl	H	COCH=CMe ₂	2-Br, 6-Me	0 0
10	2687	Cl	H	COCH=CMe ₂	2-I, 6-Me	0 0
	2688	Cl	H	COCH=CMe ₂	2-Me, 6-Et	0 0
	2689	Cl	H	COCH=CMe ₂	2, 6-cPr ₂	0 0
	2690	Cl	H	COCH=CMe ₂	2-cPr, 3, 5-Me ₂	0 0
	2691	Cl	H	COCH=CMe ₂	2-cPr, 3, 6-Me ₂	0 0
15	2692	Cl	H	COCMe ₂ Br	2-Me	0 0
	2693	Cl	H	COCMe ₂ Br	2-iPr	0 0
	2694	Cl	H	COCMe ₂ Br	2-cPr	0 0
	2695	Cl	H	COCMe ₂ Br	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2696	Cl	H	COCMe ₂ Br	2, 6-Me ₂	0 0
20	2697	Cl	H	COCMe ₂ Br	2-Me, 6-cPr	0 0
	2698	Cl	H	COCMe ₂ CH ₂ Cl	2-Me	0 0
	2699	Cl	H	COCMe ₂ CH ₂ Cl	2-iPr	0 0
	2700	Cl	H	COCMe ₂ CH ₂ Cl	2-cPr	0 0
	2701	Cl	H	COCMe ₂ CH ₂ Cl	2-CH ₂ CH ₂ CH ₂ -3	0 0
25	2702	Cl	H	COCMe ₂ CH ₂ Cl	2, 6-Me ₂	0 0
	2703	Cl	H	COCMe ₂ CH ₂ Cl	2-Me, 6-cPr	0 0
	2704	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2-Me	0 0
	2705	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2-iPr	0 0
	2706	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2-cPr	0 0
30	2707	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2708	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2, 6-Me ₂	0 0
	2709	Cl	H	COCH ₂ CH ₂ CH ₂ CH ₂ Br	2-Me, 6-cPr	0 0
	2710	Cl	H	COCHMePh	2-Me	0 0
	2711	Cl	H	COCHMePh	2-iPr	0 0
35	2712	Cl	H	COCHMePh	2-cPr	0 0
	2713	Cl	H	COCHMePh	2-CH ₂ CH ₂ CH ₂ -3	0 0

	2714	Cl	H	COCHMePh	2, 6-Me ₂	0 0
	2715	Cl	H	COCHMePh	2-Me, 6-cPr	0 0
	2716	Cl	H	COCH ₂ (Ph-4-OMe)	2-Me	0 0
	2717	Cl	H	COCH ₂ (Ph-4-OMe)	2-iPr	0 0
5	2718	Cl	H	COCH ₂ (Ph-4-OMe)	2-cPr	0 0
	2719	Cl	H	COCH ₂ (Ph-4-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2720	Cl	H	COCH ₂ (Ph-4-OMe)	2, 6-Me ₂	0 0
	2721	Cl	H	COCH ₂ (Ph-4-OMe)	2-Me, 6-cPr	0 0
	2722	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2-Me	0 0
10	2723	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2-iPr	0 0
	2724	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2-cPr	0 0
	2725	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2726	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2, 6-Me ₂	0 0
	2727	Cl	H	COCH ₂ CH ₂ CO ₂ Et	2-Me, 6-cPr	0 0
15	2728	Cl	H	CO(CH ₂) ₂ CO ₂ Q ⁶	2-Me	0 0
	2729	Cl	H	CO(CH ₂) ₂ CO ₂ Q ⁷	2-iPr	0 0
	2730	Cl	H	CO(CH ₂) ₂ CO ₂ Q ⁸	2-cPr	0 0
	2731	Cl	H	CO(CH ₂) ₂ CO ₂ Q ⁹	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2732	Cl	H	CO(CH ₂) ₂ CO ₂ Q ¹⁰	2, 6-Me ₂	0 0
20	2733	Cl	H	CO(CH ₂) ₂ CO ₂ Q ¹¹	2-Me, 6-cPr	0 0
	2734	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2-Me	0 0
	2735	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2-iPr	0 0
	2736	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2-cPr	0 0
	2737	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2-CH ₂ CH ₂ CH ₂ -3	0 0
25	2738	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2, 6-Me ₂	0 0
	2739	Cl	H	CO(CH ₂) ₃ CO ₂ Q ⁵	2-Me, 6-cPr	0 0
	2740	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹²	2-Me, 6-cPr	0 0
	2741	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹³	2-Me, 6-cPr	0 0
	2742	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹⁴	2-Me, 6-cPr	0 0
30	2743	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹⁵	2-Me, 6-cPr	0 0
	2744	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹⁶	2-Me, 6-cPr	0 0
	2745	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹⁷	2-Me, 6-cPr	0 0
	2746	Cl	H	CO(CH ₂) ₃ CO ₂ Q ¹¹	2-Me, 6-cPr	0 0
	2747	Cl	H	COCH ₂ OMe	2-Me	0 0
35	2748	Cl	H	COCH ₂ OMe	2-iPr	0 0
	2749	Cl	H	COCH ₂ OMe	2-cPr	0 0

	2750	Cl	H	COCH ₂ OMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2751	Cl	H	COCH ₂ OMe	2, 6-Me ₂	0 0
	2752	Cl	H	COCH ₂ OMe	2-Me, 6-cPr	0 0
	2753	Cl	H	COCH ₂ OPh	2-Me	0 0
5	2754	Cl	H	COCH ₂ OPh	2-iPr	0 0
	2755	Cl	H	COCH ₂ OPh	2-cPr	0 0
	2756	Cl	H	COCH ₂ OPh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2757	Cl	H	COCH ₂ OPh	2, 6-Me ₂	0 0
	2758	Cl	H	COCH ₂ OPh	2-Me, 6-cPr	0 0
10	2759	Cl	H	COCH (Me) OPh	2-Me	0 0
	2760	Cl	H	COCH (Me) OPh	2-iPr	0 0
	2761	Cl	H	COCH (Me) OPh	2-cPr	0 0
	2762	Cl	H	COCH (Me) OPh	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2763	Cl	H	COCH (Me) OPh	2, 6-Me ₂	0 0
15	2764	Cl	H	COCH (Me) OPh	2-Me, 6-cPr	0 0
	2765	Cl	H	COCH (OMe) Ph	2-Me	0 0
	2766	Cl	H	COCH (OMe) Ph	2-iPr	0 0
	2767	Cl	H	COCH (OMe) Ph	2-cPr	0 0
	2768	Cl	H	COCH (OMe) Ph	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	2769	Cl	H	COCH (OMe) Ph	2, 6-Me ₂	0 0
	2770	Cl	H	COCH (OMe) Ph	2-Me, 6-cPr	0 0
	2771	Cl	H	COCH ₂ CH ₂ SMe	2-Me	0 0
	2772	Cl	H	COCH ₂ CH ₂ SMe	2-iPr	0 0
	2773	Cl	H	COCH ₂ CH ₂ SMe	2-cPr	0 0
25	2774	Cl	H	COCH ₂ CH ₂ SMe	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2775	Cl	H	COCH ₂ CH ₂ SMe	2, 6-Me ₂	0 0
	2776	Cl	H	COCH ₂ CH ₂ SMe	2-Me, 6-cPr	0 0
	2777	Cl	H	COCO (2-Thi)	2-Me	0 0
	2778	Cl	H	COCO (2-Thi)	2-iPr	0 0
30	2779	Cl	H	COCO (2-Thi)	2-cPr	0 0
	2780	Cl	H	COCO (2-Thi)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2781	Cl	H	COCO (2-Thi)	2, 6-Me ₂	0 0
	2782	Cl	H	COCO (2-Thi)	2-Me, 6-cPr	0 0
	2783	Cl	H	CO (Ph-2-F)	2-Me	0 0
35	2784	Cl	H	CO (Ph-2-F)	2-iPr	0 0
	2785	Cl	H	CO (Ph-2-F)	2-cPr	0 0

	2786	Cl	H	CO(Ph-2-F)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2787	Cl	H	CO(Ph-2-F)	2, 6-Me ₂	0 0
	2788	Cl	H	CO(Ph-2-F)	2-Me, 6-cPr	0 0
	2789	Cl	H	CO(Ph-2-Br)	2-Cl	0 0
5	2790	Cl	H	CO(Ph-2-Br)	2-Br	0 0
	2791	Cl	H	CO(Ph-2-Br)	2-I	0 0
	2792	Cl	H	CO(Ph-2-Br)	2-Me	0 0
	2793	Cl	H	CO(Ph-2-Br)	2-iPr	0 0
	2794	Cl	H	CO(Ph-2-Br)	2-cPr	0 0
10	2795	Cl	H	CO(Ph-2-Br)	2-cBu	0 0
	2796	Cl	H	CO(Ph-2-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2797	Cl	H	CO(Ph-2-Br)	2-cPr, 5-Me	0 0
	2798	Cl	H	CO(Ph-2-Br)	2-OMe, 5-Me	0 0
	2799	Cl	H	CO(Ph-2-Br)	2-F, 6-iPr	0 0
15	2800	Cl	H	CO(Ph-2-Br)	2-Cl, 6-cPr	0 0
	2801	Cl	H	CO(Ph-2-Br)	2-Br, 6-Me	0 0
	2802	Cl	H	CO(Ph-2-Br)	2-I, 6-Me	0 0
	2803	Cl	H	CO(Ph-2-Br)	2, 6-Me ₂	0 0
	2804	Cl	H	CO(Ph-2-Br)	2-Me, 6-Et	0 0
20	2805	Cl	H	CO(Ph-2-Br)	2-Me, 6-cPr	0 0
	2806	Cl	H	CO(Ph-2-Br)	2, 6-cPr ₂	0 0
	2807	Cl	H	CO(Ph-2-Br)	2-cPr, 3, 5-Me ₂	0 0
	2808	Cl	H	CO(Ph-2-Br)	2-cPr, 3, 6-Me ₂	0 0
	2809	Cl	H	CO(Ph-2-I)	2-Me	0 0
25	2810	Cl	H	CO(Ph-2-I)	2-iPr	0 0
	2811	Cl	H	CO(Ph-2-I)	2-cPr	0 0
	2812	Cl	H	CO(Ph-2-I)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2813	Cl	H	CO(Ph-2-I)	2, 6-Me ₂	0 0
	2814	Cl	H	CO(Ph-2-I)	2-Me, 6-cPr	0 0
30	2815	Cl	H	CO(Ph-2-CF ₃)	2-Me	0 0
	2816	Cl	H	CO(Ph-2-CF ₃)	2-iPr	0 0
	2817	Cl	H	CO(Ph-2-CF ₃)	2-cPr	0 0
	2818	Cl	H	CO(Ph-2-CF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2819	Cl	H	CO(Ph-2-CF ₃)	2, 6-Me ₂	0 0
35	2820	Cl	H	CO(Ph-2-CF ₃)	2-Me, 6-cPr	0 0
	2821	Cl	H	CO(Ph-2-CH ₂ Ph)	2-Me	0 0

	2822	Cl	H	CO (Ph-2-CH ₂ Ph)	2-iPr	0 0
	2823	Cl	H	CO (Ph-2-CH ₂ Ph)	2-cPr	0 0
	2824	Cl	H	CO (Ph-2-CH ₂ Ph)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2825	Cl	H	CO (Ph-2-CH ₂ Ph)	2, 6-Me ₂	0 0
5	2826	Cl	H	CO (Ph-2-CH ₂ Ph)	2-Me, 6-cPr	0 0
	2827	Cl	H	CO (Ph-2-CO ₂ Q ⁶)	2-Me	0 0
	2828	Cl	H	CO (Ph-2-CO ₂ Q ¹²)	2-Me	0 0
	2829	Cl	H	CO (Ph-2-CO ₂ Q ¹³)	2-Me	0 0
	2830	Cl	H	CO (Ph-2-CO ₂ Q ¹⁴)	2-Me	0 0
10	2831	Cl	H	CO (Ph-2-CO ₂ Q ¹⁵)	2-Me	0 0
	2832	Cl	H	CO (Ph-2-CO ₂ Q ¹⁶)	2-Me	0 0
	2833	Cl	H	CO (Ph-2-CO ₂ Q ¹⁷)	2-Me	0 0
	2834	Cl	H	CO (Ph-2-CO ₂ Q ⁷)	2-iPr	0 0
	2835	Cl	H	CO (Ph-2-CO ₂ Q ⁸)	2-cPr	0 0
15	2836	Cl	H	CO (Ph-2-CO ₂ Q ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2837	Cl	H	CO (Ph-2-CO ₂ Q ¹⁰)	2, 6-Me ₂	0 0
	2838	Cl	H	CO (Ph-2-CO ₂ Q ¹¹)	2-Me, 6-cPr	0 0
	2839	Cl	H	CO (Ph-2-CO ₂ Q ¹²)	2-Me, 6-cPr	0 0
	2840	Cl	H	CO (Ph-2-CO ₂ Q ¹³)	2-Me, 6-cPr	0 0
20	2841	Cl	H	CO (Ph-2-CO ₂ Q ¹⁴)	2-Me, 6-cPr	0 0
	2842	Cl	H	CO (Ph-2-CO ₂ Q ¹⁵)	2-Me, 6-cPr	0 0
	2843	Cl	H	CO (Ph-2-CO ₂ Q ¹⁶)	2-Me, 6-cPr	0 0
	2844	Cl	H	CO (Ph-2-CO ₂ Q ¹⁷)	2-Me, 6-cPr	0 0
	2845	Cl	H	CO (Ph-2-NO ₂)	2-Me	0 0
25	2846	Cl	H	CO (Ph-2-NO ₂)	2-iPr	0 0
	2847	Cl	H	CO (Ph-2-NO ₂)	2-cPr	0 0
	2848	Cl	H	CO (Ph-2-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2849	Cl	H	CO (Ph-2-NO ₂)	2, 6-Me ₂	0 0
	2850	Cl	H	CO (Ph-2-NO ₂)	2-Me, 6-cPr	0 0
30	2851	Cl	H	CO (Ph-2-OPh)	2-Me	0 0
	2852	Cl	H	CO (Ph-2-OPh)	2-iPr	0 0
	2853	Cl	H	CO (Ph-2-OPh)	2-cPr	0 0
	2854	Cl	H	CO (Ph-2-OPh)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2855	Cl	H	CO (Ph-2-OPh)	2, 6-Me ₂	0 0
35	2856	Cl	H	CO (Ph-2-OPh)	2-Me, 6-cPr	0 0
	2857	Cl	H	CO (Ph-3-F)	2-Me	0 0

	2858	Cl	H	CO(Ph-3-F)	2-iPr	0 0
	2859	Cl	H	CO(Ph-3-F)	2-cPr	0 0
	2860	Cl	H	CO(Ph-3-F)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2861	Cl	H	CO(Ph-3-F)	2, 6-Me ₂	0 0
5	2862	Cl	H	CO(Ph-3-F)	2-Me, 6-cPr	0 0
	2863	Cl	H	CO(Ph-3-Cl)	2-Me	0 0
	2864	Cl	H	CO(Ph-3-Cl)	2-iPr	0 0
	2865	Cl	H	CO(Ph-3-Cl)	2-cPr	0 0
	2866	Cl	H	CO(Ph-3-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	2867	Cl	H	CO(Ph-3-Cl)	2, 6-Me ₂	0 0
	2868	Cl	H	CO(Ph-3-Cl)	2-Me, 6-cPr	0 0
	2869	Cl	H	CO(Ph-3-Br)	2-Me	0 0
	2870	Cl	H	CO(Ph-3-Br)	2-iPr	0 0
	2871	Cl	H	CO(Ph-3-Br)	2-cPr	0 0
15	2872	Cl	H	CO(Ph-3-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2873	Cl	H	CO(Ph-3-Br)	2, 6-Me ₂	0 0
	2874	Cl	H	CO(Ph-3-Br)	2-Me, 6-cPr	0 0
	2875	Cl	H	CO(Ph-3-I)	2-Me	0 0
	2876	Cl	H	CO(Ph-3-I)	2-iPr	0 0
20	2877	Cl	H	CO(Ph-3-I)	2-cPr	0 0
	2878	Cl	H	CO(Ph-3-I)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2879	Cl	H	CO(Ph-3-I)	2, 6-Me ₂	0 0
	2880	Cl	H	CO(Ph-3-I)	2-Me, 6-cPr	0 0
	2881	Cl	H	CO(Ph-3-Me)	2-Cl	0 0
25	2882	Cl	H	CO(Ph-3-Me)	2-Br	0 0
	2883	Cl	H	CO(Ph-3-Me)	2-I	0 0
	2884	Cl	H	CO(Ph-3-Me)	2-cBu	0 0
	2885	Cl	H	CO(Ph-3-Me)	2-cPr, 5-Me	0 0
	2886	Cl	H	CO(Ph-3-Me)	2-OMe, 5-Me	0 0
30	2887	Cl	H	CO(Ph-3-Me)	2-F, 6-iPr	0 0
	2888	Cl	H	CO(Ph-3-Me)	2-Cl, 6-cPr	0 0
	2889	Cl	H	CO(Ph-3-Me)	2-Br, 6-Me	0 0
	2890	Cl	H	CO(Ph-3-Me)	2-I, 6-Me	0 0
	2891	Cl	H	CO(Ph-3-Me)	2-Me, 6-Et	0 0
35	2892	Cl	H	CO(Ph-3-Me)	2, 6-cPr ₂	0 0
	2893	Cl	H	CO(Ph-3-Me)	2-cPr, 3, 5-Me ₂	0 0

	2894	C1	H	CO (Ph-3-Me)	2-cPr, 3, 6-Me ₂	0 0
	2895	C1	H	CO (Ph-3-CF ₃)	2-Me	0 0
	2896	C1	H	CO (Ph-3-CF ₃)	2-iPr	0 0
	2897	C1	H	CO (Ph-3-CF ₃)	2-cPr	0 0
5	2898	C1	H	CO (Ph-3-CF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2899	C1	H	CO (Ph-3-CF ₃)	2, 6-Me ₂	0 0
	2900	C1	H	CO (Ph-3-CF ₃)	2-Me, 6-cPr	0 0
	2901	C1	H	CO (Ph-3-CO ₂ Q ⁶)	2-Me	0 0
	2902	C1	H	CO (Ph-3-CO ₂ Q ⁷)	2-iPr	0 0
10	2903	C1	H	CO (Ph-3-CO ₂ Q ⁸)	2-cPr	0 0
	2904	C1	H	CO (Ph-3-CO ₂ Q ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2905	C1	H	CO (Ph-3-CO ₂ Q ¹⁰)	2, 6-Me ₂	0 0
	2906	C1	H	CO (Ph-3-CO ₂ Q ¹¹)	2-Me, 6-cPr	0 0
	2907	C1	H	CO (Ph-3-CO ₂ Q ¹²)	2-Me, 6-cPr	0 0
15	2908	C1	H	CO (Ph-3-CO ₂ Q ¹³)	2-Me, 6-cPr	0 0
	2909	C1	H	CO (Ph-3-CO ₂ Q ¹⁴)	2-Me, 6-cPr	0 0
	2910	C1	H	CO (Ph-3-CO ₂ Q ¹⁵)	2-Me, 6-cPr	0 0
	2911	C1	H	CO (Ph-3-CO ₂ Q ¹⁶)	2-Me, 6-cPr	0 0
	2912	C1	H	CO (Ph-3-CO ₂ Q ¹⁷)	2-Me, 6-cPr	0 0
20	2913	C1	H	CO (Ph-3-NO ₂)	2-Me	0 0
	2914	C1	H	CO (Ph-3-NO ₂)	2-iPr	0 0
	2915	C1	H	CO (Ph-3-NO ₂)	2-cPr	0 0
	2916	C1	H	CO (Ph-3-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2917	C1	H	CO (Ph-3-NO ₂)	2, 6-Me ₂	0 0
25	2918	C1	H	CO (Ph-3-NO ₂)	2-Me, 6-cPr	0 0
	2919	C1	H	CO (Ph-3-OPh)	2-Me	0 0
	2920	C1	H	CO (Ph-3-OPh)	2-iPr	0 0
	2921	C1	H	CO (Ph-3-OPh)	2-cPr	0 0
	2922	C1	H	CO (Ph-3-OPh)	2-CH ₂ CH ₂ CH ₂ -3	0 0
30	2923	C1	H	CO (Ph-3-OPh)	2, 6-Me ₂	0 0
	2924	C1	H	CO (Ph-3-OPh)	2-Me, 6-cPr	0 0
	2925	C1	H	CO (Ph-4-F)	2-Me	0 0
	2926	C1	H	CO (Ph-4-F)	2-iPr	0 0
	2927	C1	H	CO (Ph-4-F)	2-cPr	0 0
35	2928	C1	H	CO (Ph-4-F)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2929	C1	H	CO (Ph-4-F)	2, 6-Me ₂	0 0

	2930	Cl	H	CO(Ph-4-F)	2-Me, 6-cPr	0 0
	2931	Cl	H	CO(Ph-4-Br)	2-Cl	0 0
	2932	Cl	H	CO(Ph-4-Br)	2-Br	0 0
	2933	Cl	H	CO(Ph-4-Br)	2-I	0 0
5	2934	Cl	H	CO(Ph-4-Br)	2-cBu	0 0
	2935	Cl	H	CO(Ph-4-Br)	2-cPr, 5-Me	0 0
	2936	Cl	H	CO(Ph-4-Br)	2-OMe, 5-Me	0 0
	2937	Cl	H	CO(Ph-4-Br)	2-F, 6-iPr	0 0
	2938	Cl	H	CO(Ph-4-Br)	2-Cl, 6-cPr	0 0
10	2939	Cl	H	CO(Ph-4-Br)	2-Br, 6-Me	0 0
	2940	Cl	H	CO(Ph-4-Br)	2-I, 6-Me	0 0
	2941	Cl	H	CO(Ph-4-Br)	2-Me, 6-Et	0 0
	2942	Cl	H	CO(Ph-4-Br)	2, 6-cPr ₂	0 0
	2943	Cl	H	CO(Ph-4-Br)	2-cPr, 3, 5-Me ₂	0 0
15	2944	Cl	H	CO(Ph-4-Br)	2-cPr, 3, 6-Me ₂	0 0
	2945	Cl	H	CO(Ph-4-Et)	2-Cl	0 0
	2946	Cl	H	CO(Ph-4-Et)	2-Br	0 0
	2947	Cl	H	CO(Ph-4-Et)	2-I	0 0
	2948	Cl	H	CO(Ph-4-Et)	2-Me	0 0
20	2949	Cl	H	CO(Ph-4-Et)	2-iPr	0 0
	2950	Cl	H	CO(Ph-4-Et)	2-cPr	0 0
	2951	Cl	H	CO(Ph-4-Et)	2-cBu	0 0
	2952	Cl	H	CO(Ph-4-Et)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2953	Cl	H	CO(Ph-4-Et)	2-cPr, 5-Me	0 0
25	2954	Cl	H	CO(Ph-4-Et)	2-OMe, 5-Me	0 0
	2955	Cl	H	CO(Ph-4-Et)	2-F, 6-iPr	0 0
	2956	Cl	H	CO(Ph-4-Et)	2-Cl, 6-cPr	0 0
	2957	Cl	H	CO(Ph-4-Et)	2-Br, 6-Me	0 0
	2958	Cl	H	CO(Ph-4-Et)	2-I, 6-Me	0 0
30	2959	Cl	H	CO(Ph-4-Et)	2, 6-Me ₂	0 0
	2960	Cl	H	CO(Ph-4-Et)	2-Me, 6-Et	0 0
	2961	Cl	H	CO(Ph-4-Et)	2-Me, 6-cPr	0 0
	2962	Cl	H	CO(Ph-4-Et)	2, 6-cPr ₂	0 0
	2963	Cl	H	CO(Ph-4-Et)	2-cPr, 3, 5-Me ₂	0 0
35	2964	Cl	H	CO(Ph-4-Et)	2-cPr, 3, 6-Me ₂	0 0
	2965	Cl	H	CO(Ph-4-Pr)	2-Me	0 0

	2966	C1	H	C0(Ph-4-Pr)	2-iPr	0 0
	2967	C1	H	C0(Ph-4-Pr)	2-cPr	0 0
	2968	C1	H	C0(Ph-4-Pr)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2969	C1	H	C0(Ph-4-Pr)	2, 6-Me ₂	0 0
5	2970	C1	H	C0(Ph-4-Pr)	2-Me, 6-cPr	0 0
	2971	C1	H	C0(Ph-4-iPr)	2-Me	0 0
	2972	C1	H	C0(Ph-4-iPr)	2-iPr	0 0
	2973	C1	H	C0(Ph-4-iPr)	2-cPr	0 0
	2974	C1	H	C0(Ph-4-iPr)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	2975	C1	H	C0(Ph-4-iPr)	2, 6-Me ₂	0 0
	2976	C1	H	C0(Ph-4-iPr)	2-Me, 6-cPr	0 0
	2977	C1	H	C0(Ph-4-Bu)	2-Me	0 0
	2978	C1	H	C0(Ph-4-Bu)	2-iPr	0 0
	2979	C1	H	C0(Ph-4-Bu)	2-cPr	0 0
15	2980	C1	H	C0(Ph-4-Bu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2981	C1	H	C0(Ph-4-Bu)	2, 6-Me ₂	0 0
	2982	C1	H	C0(Ph-4-Bu)	2-Me, 6-cPr	0 0
	2983	C1	H	C0(Ph-4-CF ₃)	2-Me	0 0
	2984	C1	H	C0(Ph-4-CF ₃)	2-iPr	0 0
20	2985	C1	H	C0(Ph-4-CF ₃)	2-cPr	0 0
	2986	C1	H	C0(Ph-4-CF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2987	C1	H	C0(Ph-4-CF ₃)	2, 6-Me ₂	0 0
	2988	C1	H	C0(Ph-4-CF ₃)	2-Me, 6-cPr	0 0
	2989	C1	H	C0(Ph-4-CN)	2-Me	0 0
25	2990	C1	H	C0(Ph-4-CN)	2-iPr	0 0
	2991	C1	H	C0(Ph-4-CN)	2-cPr	0 0
	2992	C1	H	C0(Ph-4-CN)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	2993	C1	H	C0(Ph-4-CN)	2, 6-Me ₂	0 0
	2994	C1	H	C0(Ph-4-CN)	2-Me, 6-cPr	0 0
30	2995	C1	H	C0(Ph-4-CO ₂ Q ⁵)	2-Cl, 6-cPr	0 0
	2996	C1	H	C0(Ph-4-CO ₂ Q ⁶)	2-Me	0 0
	2997	C1	H	C0(Ph-4-CO ₂ Q ⁷)	2-iPr	0 0
	2998	C1	H	C0(Ph-4-CO ₂ Q ⁸)	2-cPr	0 0
	2999	C1	H	C0(Ph-4-CO ₂ Q ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
35	3000	C1	H	C0(Ph-4-CO ₂ Q ¹⁰)	2, 6-Me ₂	0 0
	3001	C1	H	C0(Ph-4-CO ₂ Q ¹¹)	2-Me, 6-cPr	0 0

	3002	Cl	H	CO (Ph-4-CO ₂ Q ¹²)	2-Me, 6-cPr	0 0
	3003	Cl	H	CO (Ph-4-CO ₂ Q ¹³)	2-Me, 6-cPr	0 0
	3004	Cl	H	CO (Ph-4-CO ₂ Q ¹⁴)	2-Me, 6-cPr	0 0
	3005	Cl	H	CO (Ph-4-CO ₂ Q ¹⁵)	2-Me, 6-cPr	0 0
5	3006	Cl	H	CO (Ph-4-CO ₂ Q ¹⁶)	2-Me, 6-cPr	0 0
	3007	Cl	H	CO (Ph-4-CO ₂ Q ¹⁷)	2-Me, 6-cPr	0 0
	3008	Cl	H	CO (Ph-2-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
	3009	Cl	H	CO (Ph-3-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
	3010	Cl	H	CO (Ph-4-SO ₂ OQ ⁵)	2-Me, 6-cPr	0 0
10	3011	Cl	H	CO (Ph-4-Ph)	2-Me	0 0
	3012	Cl	H	CO (Ph-4-Ph)	2-iPr	0 0
	3013	Cl	H	CO (Ph-4-Ph)	2-cPr	0 0
	3014	Cl	H	CO (Ph-4-Ph)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3015	Cl	H	CO (Ph-4-Ph)	2, 6-Me ₂	0 0
15	3016	Cl	H	CO (Ph-4-Ph)	2-Me, 6-cPr	0 0
	3017	Cl	H	CO (Ph-4-OCF ₃)	2-Me	0 0
	3018	Cl	H	CO (Ph-4-OCF ₃)	2-iPr	0 0
	3019	Cl	H	CO (Ph-4-OCF ₃)	2-cPr	0 0
	3020	Cl	H	CO (Ph-4-OCF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	3021	Cl	H	CO (Ph-4-OCF ₃)	2, 6-Me ₂	0 0
	3022	Cl	H	CO (Ph-4-OCF ₃)	2-Me, 6-cPr	0 0
	3023	Cl	H	CO (Ph-4-OCH ₂ Ph)	2-Me	0 0
	3024	Cl	H	CO (Ph-4-OCH ₂ Ph)	2-iPr	0 0
	3025	Cl	H	CO (Ph-4-OCH ₂ Ph)	2-cPr	0 0
25	3026	Cl	H	CO (Ph-4-OCH ₂ Ph)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3027	Cl	H	CO (Ph-4-OCH ₂ Ph)	2, 6-Me ₂	0 0
	3028	Cl	H	CO (Ph-4-OCH ₂ Ph)	2-Me, 6-cPr	0 0
	3029	Cl	H	CO (Ph-2, 3-F ₂)	2-Me	0 0
	3030	Cl	H	CO (Ph-2, 3-F ₂)	2-iPr	0 0
30	3031	Cl	H	CO (Ph-2, 3-F ₂)	2-cPr	0 0
	3032	Cl	H	CO (Ph-2, 3-F ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3033	Cl	H	CO (Ph-2, 3-F ₂)	2, 6-Me ₂	0 0
	3034	Cl	H	CO (Ph-2, 3-F ₂)	2-Me, 6-cPr	0 0
	3035	Cl	H	CO (Ph-2-F-3-CF ₃)	2-Me	0 0
35	3036	Cl	H	CO (Ph-2-F-3-CF ₃)	2-iPr	0 0
	3037	Cl	H	CO (Ph-2-F-3-CF ₃)	2-cPr	0 0

	3038	Cl	H	CO(Ph-2-F-3-CF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3039	Cl	H	CO(Ph-2-F-3-CF ₃)	2, 6-Me ₂	0 0
	3040	Cl	H	CO(Ph-2-F-3-CF ₃)	2-Me, 6-cPr	0 0
	3041	Cl	H	CO(Ph-2, 3-Me ₂)	2-Me	0 0
5	3042	Cl	H	CO(Ph-2, 3-Me ₂)	2-iPr	0 0
	3043	Cl	H	CO(Ph-2, 3-Me ₂)	2-cPr	0 0
	3044	Cl	H	CO(Ph-2, 3-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3045	Cl	H	CO(Ph-2, 3-Me ₂)	2, 6-Me ₂	0 0
	3046	Cl	H	CO(Ph-2, 3-Me ₂)	2-Me, 6-cPr	0 0
10	3047	Cl	H	CO(Ph-2-Me-3-Cl)	2-Me	0 0
	3048	Cl	H	CO(Ph-2-Me-3-Cl)	2-iPr	0 0
	3049	Cl	H	CO(Ph-2-Me-3-Cl)	2-cPr	0 0
	3050	Cl	H	CO(Ph-2-Me-3-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3051	Cl	H	CO(Ph-2-Me-3-Cl)	2, 6-Me ₂	0 0
15	3052	Cl	H	CO(Ph-2-Me-3-Cl)	2-Me, 6-cPr	0 0
	3053	Cl	H	CO(Ph-2, 4-F ₂)	2-Me	0 0
	3054	Cl	H	CO(Ph-2, 4-F ₂)	2-iPr	0 0
	3055	Cl	H	CO(Ph-2, 4-F ₂)	2-cPr	0 0
	3056	Cl	H	CO(Ph-2, 4-F ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	3057	Cl	H	CO(Ph-2, 4-F ₂)	2, 6-Me ₂	0 0
	3058	Cl	H	CO(Ph-2, 4-F ₂)	2-Me, 6-cPr	0 0
	3059	Cl	H	CO(Ph-2-F-4-Cl)	2-Me	0 0
	3060	Cl	H	CO(Ph-2-F-4-Cl)	2-iPr	0 0
	3061	Cl	H	CO(Ph-2-F-4-Cl)	2-cPr	0 0
25	3062	Cl	H	CO(Ph-2-F-4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3063	Cl	H	CO(Ph-2-F-4-Cl)	2, 6-Me ₂	0 0
	3064	Cl	H	CO(Ph-2-F-4-Cl)	2-Me, 6-cPr	0 0
	3065	Cl	H	CO(Ph-2-F-4-CF ₃)	2-Me	0 0
	3066	Cl	H	CO(Ph-2-F-4-CF ₃)	2-iPr	0 0
30	3067	Cl	H	CO(Ph-2-F-4-CF ₃)	2-cPr	0 0
	3068	Cl	H	CO(Ph-2-F-4-CF ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3069	Cl	H	CO(Ph-2-F-4-CF ₃)	2, 6-Me ₂	0 0
	3070	Cl	H	CO(Ph-2-F-4-CF ₃)	2-Me, 6-cPr	0 0
	3071	Cl	H	CO(Ph-2-Cl-4-F)	2-Me	0 0
35	3072	Cl	H	CO(Ph-2-Cl-4-F)	2-iPr	0 0
	3073	Cl	H	CO(Ph-2-Cl-4-F)	2-cPr	0 0

	3074	Cl	H	CO(Ph-2-Cl-4-F)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3075	Cl	H	CO(Ph-2-Cl-4-F)	2, 6-Me ₂	0 0
	3076	Cl	H	CO(Ph-2-Cl-4-F)	2-Me, 6-cPr	0 0
	3077	Cl	H	CO(Ph-2-Cl-4-Br)	2-Me	0 0
5	3078	Cl	H	CO(Ph-2-Cl-4-Br)	2-iPr	0 0
	3079	Cl	H	CO(Ph-2-Cl-4-Br)	2-cPr	0 0
	3080	Cl	H	CO(Ph-2-Cl-4-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3081	Cl	H	CO(Ph-2-Cl-4-Br)	2, 6-Me ₂	0 0
	3082	Cl	H	CO(Ph-2-Cl-4-Br)	2-Me, 6-cPr	0 0
10	3083	Cl	H	CO(Ph-2-Me-4-Br)	2-Me	0 0
	3084	Cl	H	CO(Ph-2-Me-4-Br)	2-iPr	0 0
	3085	Cl	H	CO(Ph-2-Me-4-Br)	2-cPr	0 0
	3086	Cl	H	CO(Ph-2-Me-4-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3087	Cl	H	CO(Ph-2-Me-4-Br)	2, 6-Me ₂	0 0
15	3088	Cl	H	CO(Ph-2-Me-4-Br)	2-Me, 6-cPr	0 0
	3089	Cl	H	CO(Ph-2, 4-Me ₂)	2-Me	0 0
	3090	Cl	H	CO(Ph-2, 4-Me ₂)	2-iPr	0 0
	3091	Cl	H	CO(Ph-2, 4-Me ₂)	2-cPr	0 0
	3092	Cl	H	CO(Ph-2, 4-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
20	3093	Cl	H	CO(Ph-2, 4-Me ₂)	2, 6-Me ₂	0 0
	3094	Cl	H	CO(Ph-2, 4-Me ₂)	2-Me, 6-cPr	0 0
	3095	Cl	H	CO(Ph-2, 5-Cl ₂)	2-Me	0 0
	3096	Cl	H	CO(Ph-2, 5-Cl ₂)	2-iPr	0 0
	3097	Cl	H	CO(Ph-2, 5-Cl ₂)	2-cPr	0 0
25	3098	Cl	H	CO(Ph-2, 5-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3099	Cl	H	CO(Ph-2, 5-Cl ₂)	2, 6-Me ₂	0 0
	3100	Cl	H	CO(Ph-2, 5-Cl ₂)	2-Me, 6-cPr	0 0
	3101	Cl	H	CO(Ph-2-Cl-5-Br)	2-Me	0 0
	3102	Cl	H	CO(Ph-2-Cl-5-Br)	2-iPr	0 0
30	3103	Cl	H	CO(Ph-2-Cl-5-Br)	2-cPr	0 0
	3104	Cl	H	CO(Ph-2-Cl-5-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3105	Cl	H	CO(Ph-2-Cl-5-Br)	2, 6-Me ₂	0 0
	3106	Cl	H	CO(Ph-2-Cl-5-Br)	2-Me, 6-cPr	0 0
	3107	Cl	H	CO(Ph-2-Br-5-OMe)	2-Me	0 0
35	3108	Cl	H	CO(Ph-2-Br-5-OMe)	2-iPr	0 0
	3109	Cl	H	CO(Ph-2-Br-5-OMe)	2-cPr	0 0

	3110	Cl	H	CO(Ph-2-Br-5-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3111	Cl	H	CO(Ph-2-Br-5-OMe)	2, 6-Me ₂	0 0
	3112	Cl	H	CO(Ph-2-Br-5-OMe)	2-Me, 6-cPr	0 0
	3113	Cl	H	CO(Ph-2, 5-Me ₂)	2-Cl	0 0
5	3114	Cl	H	CO(Ph-2, 5-Me ₂)	2-Br	0 0
	3115	Cl	H	CO(Ph-2, 5-Me ₂)	2-I	0 0
	3116	Cl	H	CO(Ph-2, 5-Me ₂)	2-Me	0 0
	3117	Cl	H	CO(Ph-2, 5-Me ₂)	2-iPr	0 0
	3118	Cl	H	CO(Ph-2, 5-Me ₂)	2-cPr	0 0
10	3119	Cl	H	CO(Ph-2, 5-Me ₂)	2-cBu	0 0
	3120	Cl	H	CO(Ph-2, 5-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3121	Cl	H	CO(Ph-2, 5-Me ₂)	2-cPr, 5-Me	0 0
	3122	Cl	H	CO(Ph-2, 5-Me ₂)	2-OMe, 5-Me	0 0
	3123	Cl	H	CO(Ph-2, 5-Me ₂)	2-F, 6-iPr	0 0
15	3124	Cl	H	CO(Ph-2, 5-Me ₂)	2-Cl, 6-cPr	0 0
	3125	Cl	H	CO(Ph-2, 5-Me ₂)	2-Br, 6-Me	0 0
	3126	Cl	H	CO(Ph-2, 5-Me ₂)	2-I, 6-Me	0 0
	3127	Cl	H	CO(Ph-2, 5-Me ₂)	2, 6-Me ₂	0 0
	3128	Cl	H	CO(Ph-2, 5-Me ₂)	2-Me, 6-Et	0 0
20	3129	Cl	H	CO(Ph-2, 5-Me ₂)	2-Me, 6-cPr	0 0
	3130	Cl	H	CO(Ph-2, 5-Me ₂)	2, 6-cPr ₂	0 0
	3131	Cl	H	CO(Ph-2, 5-Me ₂)	2-cPr, 3, 5-Me ₂	0 0
	3132	Cl	H	CO(Ph-2, 5-Me ₂)	2-cPr, 3, 6-Me ₂	0 0
	3133	Cl	H	CO(Ph-2, 6-F ₂)	2-Me	0 0
25	3134	Cl	H	CO(Ph-2, 6-F ₂)	2-iPr	0 0
	3135	Cl	H	CO(Ph-2, 6-F ₂)	2-cPr	0 0
	3136	Cl	H	CO(Ph-2, 6-F ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3137	Cl	H	CO(Ph-2, 6-F ₂)	2, 6-Me ₂	0 0
	3138	Cl	H	CO(Ph-2, 6-F ₂)	2-Me, 6-cPr	0 0
30	3139	Cl	H	CO(Ph-2-F-6-Cl)	2-Me	0 0
	3140	Cl	H	CO(Ph-2-F-6-Cl)	2-iPr	0 0
	3141	Cl	H	CO(Ph-2-F-6-Cl)	2-cPr	0 0
	3142	Cl	H	CO(Ph-2-F-6-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3143	Cl	H	CO(Ph-2-F-6-Cl)	2, 6-Me ₂	0 0
35	3144	Cl	H	CO(Ph-2-F-6-Cl)	2-Me, 6-cPr	0 0
	3145	Cl	H	CO(Ph-2, 6-Cl ₂)	2-Me	0 0

	3146	Cl	H	C0 (Ph-2, 6-Cl ₂)	2-iPr	0 0
	3147	Cl	H	C0 (Ph-2, 6-Cl ₂)	2-cPr	0 0
	3148	Cl	H	C0 (Ph-2, 6-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3149	Cl	H	C0 (Ph-2, 6-Cl ₂)	2, 6-Me ₂	0 0
5	3150	Cl	H	C0 (Ph-2, 6-Cl ₂)	2-Me, 6-cPr	0 0
	3151	Cl	H	C0 (Ph-2, 6-Me ₂)	2-Me	0 0
	3152	Cl	H	C0 (Ph-2, 6-Me ₂)	2-iPr	0 0
	3153	Cl	H	C0 (Ph-2, 6-Me ₂)	2-cPr	0 0
	3154	Cl	H	C0 (Ph-2, 6-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3155	Cl	H	C0 (Ph-2, 6-Me ₂)	2, 6-Me ₂	0 0
	3156	Cl	H	C0 (Ph-2, 6-Me ₂)	2-Me, 6-cPr	0 0
	3157	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2-Me	0 0
	3158	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2-iPr	0 0
	3159	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2-cPr	0 0
15	3160	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3161	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2, 6-Me ₂	0 0
	3162	Cl	H	C0 {Ph-2, 6-(OMe) ₂ }	2-Me, 6-cPr	0 0
	3163	Cl	H	C0 (Ph-3, 4-F ₂)	2-Me	0 0
	3164	Cl	H	C0 (Ph-3, 4-F ₂)	2-iPr	0 0
20	3165	Cl	H	C0 (Ph-3, 4-F ₂)	2-cPr	0 0
	3166	Cl	H	C0 (Ph-3, 4-F ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3167	Cl	H	C0 (Ph-3, 4-F ₂)	2, 6-Me ₂	0 0
	3168	Cl	H	C0 (Ph-3, 4-F ₂)	2-Me, 6-cPr	0 0
	3169	Cl	H	C0 (Ph-3-F-4-Me)	2-Cl	0 0
25	3170	Cl	H	C0 (Ph-3-F-4-Me)	2-Br	0 0
	3171	Cl	H	C0 (Ph-3-F-4-Me)	2-I	0 0
	3172	Cl	H	C0 (Ph-3-F-4-Me)	2-Me	0 0
	3173	Cl	H	C0 (Ph-3-F-4-Me)	2-iPr	0 0
	3174	Cl	H	C0 (Ph-3-F-4-Me)	2-cPr	0 0
30	3175	Cl	H	C0 (Ph-3-F-4-Me)	2-cBu	0 0
	3176	Cl	H	C0 (Ph-3-F-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3177	Cl	H	C0 (Ph-3-F-4-Me)	2-cPr, 5-Me	0 0
	3178	Cl	H	C0 (Ph-3-F-4-Me)	2-OMe, 5-Me	0 0
	3179	Cl	H	C0 (Ph-3-F-4-Me)	2-F, 6-iPr	0 0
35	3180	Cl	H	C0 (Ph-3-F-4-Me)	2-Cl, 6-cPr	0 0
	3181	Cl	H	C0 (Ph-3-F-4-Me)	2-Br, 6-Me	0 0

	3182	Cl	H	CO(Ph-3-F-4-Me)	2-I, 6-Me	0 0
	3183	Cl	H	CO(Ph-3-F-4-Me)	2, 6-Me ₂	0 0
	3184	Cl	H	CO(Ph-3-F-4-Me)	2-Me, 6-Et	0 0
	3185	Cl	H	CO(Ph-3-F-4-Me)	2-Me, 6-cPr	0 0
5	3186	Cl	H	CO(Ph-3-F-4-Me)	2, 6-cPr ₂	0 0
	3187	Cl	H	CO(Ph-3-F-4-Me)	2-cPr, 3, 5-Me ₂	0 0
	3188	Cl	H	CO(Ph-3-F-4-Me)	2-cPr, 3, 6-Me ₂	0 0
	3189	Cl	H	CO(Ph-3, 4-Cl ₂)	2-Me	0 0
	3190	Cl	H	CO(Ph-3, 4-Cl ₂)	2-iPr	0 0
10	3191	Cl	H	CO(Ph-3, 4-Cl ₂)	2-cPr	0 0
	3192	Cl	H	CO(Ph-3, 4-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3193	Cl	H	CO(Ph-3, 4-Cl ₂)	2, 6-Me ₂	0 0
	3194	Cl	H	CO(Ph-3, 4-Cl ₂)	2-Me, 6-cPr	0 0
	3195	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2-Me	0 0
15	3196	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2-iPr	0 0
	3197	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2-cPr	0 0
	3198	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3199	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2, 6-Me ₂	0 0
	3200	Cl	H	CO(Ph-3-NO ₂ -4-Cl)	2-Me, 6-cPr	0 0
20	3201	Cl	H	CO(Ph-3, 5-F ₂)	2-Cl	0 0
	3202	Cl	H	CO(Ph-3, 5-F ₂)	2-Br	0 0
	3203	Cl	H	CO(Ph-3, 5-F ₂)	2-I	0 0
	3204	Cl	H	CO(Ph-3, 5-F ₂)	2-Me	0 0
	3205	Cl	H	CO(Ph-3, 5-F ₂)	2-iPr	0 0
25	3206	Cl	H	CO(Ph-3, 5-F ₂)	2-cPr	0 0
	3207	Cl	H	CO(Ph-3, 5-F ₂)	2-cBu	0 0
	3208	Cl	H	CO(Ph-3, 5-F ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3209	Cl	H	CO(Ph-3, 5-F ₂)	2-cPr, 5-Me	0 0
	3210	Cl	H	CO(Ph-3, 5-F ₂)	2-OMe, 5-Me	0 0
30	3211	Cl	H	CO(Ph-3, 5-F ₂)	2-F, 6-iPr	0 0
	3212	Cl	H	CO(Ph-3, 5-F ₂)	2-Cl, 6-cPr	0 0
	3213	Cl	H	CO(Ph-3, 5-F ₂)	2-Br, 6-Me	0 0
	3214	Cl	H	CO(Ph-3, 5-F ₂)	2-I, 6-Me	0 0
	3215	Cl	H	CO(Ph-3, 5-F ₂)	2, 6-Me ₂	0 0
35	3216	Cl	H	CO(Ph-3, 5-F ₂)	2-Me, 6-Et	0 0
	3217	Cl	H	CO(Ph-3, 5-F ₂)	2-Me, 6-cPr	0 0

	3218	Cl	H	CO(Ph-3, 5-F ₂)	2, 6-cPr ₂	0 0
	3219	Cl	H	CO(Ph-3, 5-F ₂)	2-cPr, 3, 5-Me ₂	0 0
	3220	Cl	H	CO(Ph-3, 5-F ₂)	2-cPr, 3, 6-Me ₂	0 0
	3221	Cl	H	CO(Ph-3, 5-Cl ₂)	2-Me	0 0
5	3222	Cl	H	CO(Ph-3, 5-Cl ₂)	2-iPr	0 0
	3223	Cl	H	CO(Ph-3, 5-Cl ₂)	2-cPr	0 0
	3224	Cl	H	CO(Ph-3, 5-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3225	Cl	H	CO(Ph-3, 5-Cl ₂)	2, 6-Me ₂	0 0
	3226	Cl	H	CO(Ph-3, 5-Cl ₂)	2-Me, 6-cPr	0 0
10	3227	Cl	H	CO(Ph-3, 5-Me ₂)	2-Cl	0 0
	3228	Cl	H	CO(Ph-3, 5-Me ₂)	2-Br	0 0
	3229	Cl	H	CO(Ph-3, 5-Me ₂)	2-I	0 0
	3230	Cl	H	CO(Ph-3, 5-Me ₂)	2-Me	0 0
	3231	Cl	H	CO(Ph-3, 5-Me ₂)	2-iPr	0 0
15	3232	Cl	H	CO(Ph-3, 5-Me ₂)	2-cPr	0 0
	3233	Cl	H	CO(Ph-3, 5-Me ₂)	2-cBu	0 0
	3234	Cl	H	CO(Ph-3, 5-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3235	Cl	H	CO(Ph-3, 5-Me ₂)	2-cPr, 5-Me	0 0
	3236	Cl	H	CO(Ph-3, 5-Me ₂)	2-OMe, 5-Me	0 0
20	3237	Cl	H	CO(Ph-3, 5-Me ₂)	2-F, 6-iPr	0 0
	3238	Cl	H	CO(Ph-3, 5-Me ₂)	2-Cl, 6-cPr	0 0
	3239	Cl	H	CO(Ph-3, 5-Me ₂)	2-Br, 6-Me	0 0
	3240	Cl	H	CO(Ph-3, 5-Me ₂)	2-I, 6-Me	0 0
	3241	Cl	H	CO(Ph-3, 5-Me ₂)	2, 6-Me ₂	0 0
25	3242	Cl	H	CO(Ph-3, 5-Me ₂)	2-Me, 6-Et	0 0
	3243	Cl	H	CO(Ph-3, 5-Me ₂)	2-Me, 6-cPr	0 0
	3244	Cl	H	CO(Ph-3, 5-Me ₂)	2, 6-cPr ₂	0 0
	3245	Cl	H	CO(Ph-3, 5-Me ₂)	2-cPr, 3, 5-Me ₂	0 0
	3246	Cl	H	CO(Ph-3, 5-Me ₂)	2-cPr, 3, 6-Me ₂	0 0
30	3247	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2-Me	0 0
	3248	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2-iPr	0 0
	3249	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2-cPr	0 0
	3250	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3251	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2, 6-Me ₂	0 0
35	3252	Cl	H	CO{Ph-3, 5-(OMe) ₂ }	2-Me, 6-cPr	0 0
	3253	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2-Me	0 0

	3254	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2-iPr	0 0
	3255	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2-cPr	0 0
	3256	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3257	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2, 6-Me ₂	0 0
5	3258	Cl	H	CO(Ph-2, 4, 6-Cl ₃)	2-Me, 6-cPr	0 0
	3259	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2-Me	0 0
	3260	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2-iPr	0 0
	3261	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2-cPr	0 0
	3262	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3263	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2, 6-Me ₂	0 0
	3264	Cl	H	CO{Ph-3, 4, 5-(OMe) ₃ }	2-Me, 6-cPr	0 0
	3265	Cl	H	CO(1-Np)	2-Me	0 0
	3266	Cl	H	CO(1-Np)	2-iPr	0 0
	3267	Cl	H	CO(1-Np)	2-cPr	0 0
15	3268	Cl	H	CO(1-Np)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3269	Cl	H	CO(1-Np)	2, 6-Me ₂	0 0
	3270	Cl	H	CO(1-Np)	2-Me, 6-cPr	0 0
	3271	Cl	H	CO(2-Np)	2-Me	0 0
	3272	Cl	H	CO(2-Np)	2-iPr	0 0
20	3273	Cl	H	CO(2-Np)	2-cPr	0 0
	3274	Cl	H	CO(2-Np)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3275	Cl	H	CO(2-Np)	2, 6-Me ₂	0 0
	3276	Cl	H	CO(2-Np)	2-Me, 6-cPr	0 0
	3277	Cl	H	CO(2-Pyrr-1-Me)	2-Me	0 0
25	3278	Cl	H	CO(2-Pyrr-1-Me)	2-iPr	0 0
	3279	Cl	H	CO(2-Pyrr-1-Me)	2-cPr	0 0
	3280	Cl	H	CO(2-Pyrr-1-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3281	Cl	H	CO(2-Pyrr-1-Me)	2, 6-Me ₂	0 0
	3282	Cl	H	CO(2-Pyrr-1-Me)	2-Me, 6-cPr	0 0
30	3283	Cl	H	CO(2-Fur-5-Br)	2-Me	0 0
	3284	Cl	H	CO(2-Fur-5-Br)	2-iPr	0 0
	3285	Cl	H	CO(2-Fur-5-Br)	2-cPr	0 0
	3286	Cl	H	CO(2-Fur-5-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3287	Cl	H	CO(2-Fur-5-Br)	2, 6-Me ₂	0 0
35	3288	Cl	H	CO(2-Fur-5-Br)	2-Me, 6-cPr	0 0
	3289	Cl	H	CO(3-Fur)	2-Me	0 0

	3290	Cl	H	CO(3-Fur)	2-iPr	0 0
	3291	Cl	H	CO(3-Fur)	2-cPr	0 0
	3292	Cl	H	CO(3-Fur)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3293	Cl	H	CO(3-Fur)	2, 6-Me ₂	0 0
5	3294	Cl	H	CO(3-Fur)	2-Me, 6-cPr	0 0
	3295	Cl	H	CO(3-Fur-2-Me-5-tBu)	2-Me	0 0
	3296	Cl	H	CO(3-Fur-2-Me-5-tBu)	2-iPr	0 0
	3297	Cl	H	CO(3-Fur-2-Me-5-tBu)	2-cPr	0 0
	3298	Cl	H	CO(3-Fur-2-Me-5-tBu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3299	Cl	H	CO(3-Fur-2-Me-5-tBu)	2, 6-Me ₂	0 0
	3300	Cl	H	CO(3-Fur-2-Me-5-tBu)	2-Me, 6-cPr	0 0
	3301	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2-Me	0 0
	3302	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2-iPr	0 0
	3303	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2-cPr	0 0
15	3304	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3305	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2, 6-Me ₂	0 0
	3306	Cl	H	CO(3-Fur-2-CF ₃ -5-Me)	2-Me, 6-cPr	0 0
	3307	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2-Me	0 0
	3308	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2-iPr	0 0
20	3309	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2-cPr	0 0
	3310	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3311	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2, 6-Me ₂	0 0
	3312	Cl	H	CO{3-Fur-2-CF ₃ -5-(Ph-4-Cl)}	2-Me, 6-cPr	0 0
	3313	Cl	H	CO(2-Thi-3-Cl)	2-Me	0 0
25	3314	Cl	H	CO(2-Thi-3-Cl)	2-iPr	0 0
	3315	Cl	H	CO(2-Thi-3-Cl)	2-cPr	0 0
	3316	Cl	H	CO(2-Thi-3-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3317	Cl	H	CO(2-Thi-3-Cl)	2, 6-Me ₂	0 0
	3318	Cl	H	CO(2-Thi-3-Cl)	2-Me, 6-cPr	0 0
30	3319	Cl	H	CO(2-Thi-3-Me)	2-Me	0 0
	3320	Cl	H	CO(2-Thi-3-Me)	2-iPr	0 0
	3321	Cl	H	CO(2-Thi-3-Me)	2-cPr	0 0
	3322	Cl	H	CO(2-Thi-3-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3323	Cl	H	CO(2-Thi-3-Me)	2, 6-Me ₂	0 0
35	3324	Cl	H	CO(2-Thi-3-Me)	2-Me, 6-cPr	0 0
	3325	Cl	H	CO(2-Thi-3-OEt)	2-Me	0 0

	3326	Cl	H	CO(2-Thi-3-OEt)	2-iPr	0 0
	3327	Cl	H	CO(2-Thi-3-OEt)	2-cPr	0 0
	3328	Cl	H	CO(2-Thi-3-OEt)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3329	Cl	H	CO(2-Thi-3-OEt)	2, 6-Me ₂	0 0
5	3330	Cl	H	CO(2-Thi-3-OEt)	2-Me, 6-cPr	0 0
	3331	Cl	H	CO(2-Thi-5-Cl)	2-Me	0 0
	3332	Cl	H	CO(2-Thi-5-Cl)	2-iPr	0 0
	3333	Cl	H	CO(2-Thi-5-Cl)	2-cPr	0 0
	3334	Cl	H	CO(2-Thi-5-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3335	Cl	H	CO(2-Thi-5-Cl)	2, 6-Me ₂	0 0
	3336	Cl	H	CO(2-Thi-5-Cl)	2-Me, 6-cPr	0 0
	3337	Cl	H	CO(2-Thi-5-Br)	2-Me	0 0
	3338	Cl	H	CO(2-Thi-5-Br)	2-iPr	0 0
	3339	Cl	H	CO(2-Thi-5-Br)	2-cPr	0 0
15	3340	Cl	H	CO(2-Thi-5-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3341	Cl	H	CO(2-Thi-5-Br)	2, 6-Me ₂	0 0
	3342	Cl	H	CO(2-Thi-5-Br)	2-Me, 6-cPr	0 0
	3343	Cl	H	CO(2-Thi-5-Me)	2-Me	0 0
	3344	Cl	H	CO(2-Thi-5-Me)	2-iPr	0 0
20	3345	Cl	H	CO(2-Thi-5-Me)	2-cPr	0 0
	3346	Cl	H	CO(2-Thi-5-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3347	Cl	H	CO(2-Thi-5-Me)	2, 6-Me ₂	0 0
	3348	Cl	H	CO(2-Thi-5-Me)	2-Me, 6-cPr	0 0
	3349	Cl	H	CO(2-Thi-5-COMe)	2-Me	0 0
25	3350	Cl	H	CO(2-Thi-5-COMe)	2-iPr	0 0
	3351	Cl	H	CO(2-Thi-5-COMe)	2-cPr	0 0
	3352	Cl	H	CO(2-Thi-5-COMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3353	Cl	H	CO(2-Thi-5-COMe)	2, 6-Me ₂	0 0
	3354	Cl	H	CO(2-Thi-5-COMe)	2-Me, 6-cPr	0 0
30	3355	Cl	H	CO(3-Thi-5-NO ₂)	2-Me	0 0
	3356	Cl	H	CO(3-Thi-5-NO ₂)	2-iPr	0 0
	3357	Cl	H	CO(3-Thi-5-NO ₂)	2-cPr	0 0
	3358	Cl	H	CO(3-Thi-5-NO ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3359	Cl	H	CO(3-Thi-5-NO ₂)	2, 6-Me ₂	0 0
35	3360	Cl	H	CO(3-Thi-5-NO ₂)	2-Me, 6-cPr	0 0
	3361	Cl	H	CO(2-Thi-4, 5-Br ₂)	2-Me	0 0

	3362	Cl	H	CO(2-Thi-4, 5-Br ₂)	2-iPr	0	0
	3363	Cl	H	CO(2-Thi-4, 5-Br ₂)	2-cPr	0	0
	3364	Cl	H	CO(2-Thi-4, 5-Br ₂)	2-CH ₂ CH ₂ CH ₂ -3	0	0
	3365	Cl	H	CO(2-Thi-4, 5-Br ₂)	2, 6-Me ₂	0	0
5	3366	Cl	H	CO(2-Thi-4, 5-Br ₂)	2-Me, 6-cPr	0	0
	3367	Cl	H	CO(3-Thi)	2-Me	0	0
	3368	Cl	H	CO(3-Thi)	2-iPr	0	0
	3369	Cl	H	CO(3-Thi)	2-cPr	0	0
	3370	Cl	H	CO(3-Thi)	2-CH ₂ CH ₂ CH ₂ -3	0	0
10	3371	Cl	H	CO(3-Thi)	2, 6-Me ₂	0	0
	3372	Cl	H	CO(3-Thi)	2-Me, 6-cPr	0	0
	3373	Cl	H	CO(3-Thi-4-OMe)	2-Me	0	0
	3374	Cl	H	CO(3-Thi-4-OMe)	2-iPr	0	0
	3375	Cl	H	CO(3-Thi-4-OMe)	2-cPr	0	0
15	3376	Cl	H	CO(3-Thi-4-OMe)	2-CH ₂ CH ₂ CH ₂ -3	0	0
	3377	Cl	H	CO(3-Thi-4-OMe)	2, 6-Me ₂	0	0
	3378	Cl	H	CO(3-Thi-4-OMe)	2-Me, 6-cPr	0	0
	3379	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2-Me	0	0
	3380	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2-iPr	0	0
20	3381	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2-cPr	0	0
	3382	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2-CH ₂ CH ₂ CH ₂ -3	0	0
	3383	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2, 6-Me ₂	0	0
	3384	Cl	H	CO(5-Pyza-1-CH ₂ Ph-3-tBu)	2-Me, 6-cPr	0	0
	3385	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2-Me	0	0
25	3386	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2-iPr	0	0
	3387	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2-cPr	0	0
	3388	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0	0
	3389	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2, 6-Me ₂	0	0
	3390	Cl	H	CO(4-Pyza-1, 3-Me ₂ -5-Cl)	2-Me, 6-cPr	0	0
30	3391	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2-Me	0	0
	3392	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2-iPr	0	0
	3393	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2-cPr	0	0
	3394	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2-CH ₂ CH ₂ CH ₂ -3	0	0
	3395	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2, 6-Me ₂	0	0
35	3396	Cl	H	CO{4-Ioxa-5-Me-3-(Ph-2-Cl)}	2-Me, 6-cPr	0	0
	3397	Cl	H	CO(5-Tdia-4-Me)	2-Me	0	0

	3398	Cl	H	C0(5-Tdia-4-Me)	2-iPr	0 0
	3399	Cl	H	C0(5-Tdia-4-Me)	2-cPr	0 0
	3400	Cl	H	C0(5-Tdia-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3401	Cl	H	C0(5-Tdia-4-Me)	2, 6-Me ₂	0 0
5	3402	Cl	H	C0(5-Tdia-4-Me)	2-Me, 6-cPr	0 0
	3403	Cl	H	C0(2-Pyr-6-Me)	2-Me	0 0
	3404	Cl	H	C0(2-Pyr-6-Me)	2-iPr	0 0
	3405	Cl	H	C0(2-Pyr-6-Me)	2-cPr	0 0
	3406	Cl	H	C0(2-Pyr-6-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3407	Cl	H	C0(2-Pyr-6-Me)	2, 6-Me ₂	0 0
	3408	Cl	H	C0(2-Pyr-6-Me)	2-Me, 6-cPr	0 0
	3409	Cl	H	C0(2-Pyr-5-Bu)	2-Me	0 0
	3410	Cl	H	C0(2-Pyr-5-Bu)	2-iPr	0 0
	3411	Cl	H	C0(2-Pyr-5-Bu)	2-cPr	0 0
15	3412	Cl	H	C0(2-Pyr-5-Bu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3413	Cl	H	C0(2-Pyr-5-Bu)	2, 6-Me ₂	0 0
	3414	Cl	H	C0(2-Pyr-5-Bu)	2-Me, 6-cPr	0 0
	3415	Cl	H	C0(3-Pyr)	2-Me	0 0
	3416	Cl	H	C0(3-Pyr)	2-iPr	0 0
20	3417	Cl	H	C0(3-Pyr)	2-cPr	0 0
	3418	Cl	H	C0(3-Pyr)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3419	Cl	H	C0(3-Pyr)	2, 6-Me ₂	0 0
	3420	Cl	H	C0(3-Pyr)	2-Me, 6-cPr	0 0
	3421	Cl	H	C0(3-Pyr-2-Cl)	2-Me	0 0
25	3422	Cl	H	C0(3-Pyr-2-Cl)	2-iPr	0 0
	3423	Cl	H	C0(3-Pyr-2-Cl)	2-cPr	0 0
	3424	Cl	H	C0(3-Pyr-2-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3425	Cl	H	C0(3-Pyr-2-Cl)	2, 6-Me ₂	0 0
	3426	Cl	H	C0(3-Pyr-2-Cl)	2-Me, 6-cPr	0 0
30	3427	Cl	H	C0(3-Pyr-2-Me)	2-Me	0 0
	3428	Cl	H	C0(3-Pyr-2-Me)	2-iPr	0 0
	3429	Cl	H	C0(3-Pyr-2-Me)	2-cPr	0 0
	3430	Cl	H	C0(3-Pyr-2-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3431	Cl	H	C0(3-Pyr-2-Me)	2, 6-Me ₂	0 0
35	3432	Cl	H	C0(3-Pyr-2-Me)	2-Me, 6-cPr	0 0
	3433	Cl	H	C0(3-Pyr-2-OPh)	2-Me	0 0

	3434	Cl	H	C0(3-Pyr-2-OPh) 2-iPr	0 0
	3435	Cl	H	C0(3-Pyr-2-OPh) 2-cPr	0 0
	3436	Cl	H	C0(3-Pyr-2-OPh) 2-CH ₂ CH ₂ CH ₂ -3	0 0
	3437	Cl	H	C0(3-Pyr-2-OPh) 2, 6-Me ₂	0 0
5	3438	Cl	H	C0(3-Pyr-2-OPh) 2-Me, 6-cPr	0 0
	3439	Cl	H	C0(3-Pyr-2-SMe) 2-Me	0 0
	3440	Cl	H	C0(3-Pyr-2-SMe) 2-iPr	0 0
	3441	Cl	H	C0(3-Pyr-2-SMe) 2-cPr	0 0
	3442	Cl	H	C0(3-Pyr-2-SMe) 2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3443	Cl	H	C0(3-Pyr-2-SMe) 2, 6-Me ₂	0 0
	3444	Cl	H	C0(3-Pyr-2-SMe) 2-Me, 6-cPr	0 0
	3445	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2-Me	0 0
	3446	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2-iPr	0 0
	3447	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2-cPr	0 0
15	3448	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2-CH ₂ CH ₂ CH ₂ -3	0 0
	3449	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2, 6-Me ₂	0 0
	3450	Cl	H	C0(3-Pyr-2-SCH ₂ CH=CH ₂) 2-Me, 6-cPr	0 0
	3451	Cl	H	C0(3-Pyr-2-SPh) 2-Me	0 0
	3452	Cl	H	C0(3-Pyr-2-SPh) 2-iPr	0 0
20	3453	Cl	H	C0(3-Pyr-2-SPh) 2-cPr	0 0
	3454	Cl	H	C0(3-Pyr-2-SPh) 2-CH ₂ CH ₂ CH ₂ -3	0 0
	3455	Cl	H	C0(3-Pyr-2-SPh) 2, 6-Me ₂	0 0
	3456	Cl	H	C0(3-Pyr-2-SPh) 2-Me, 6-cPr	0 0
	3457	Cl	H	C0(3-Pyr-4-CF ₃) 2-Me	0 0
25	3458	Cl	H	C0(3-Pyr-4-CF ₃) 2-iPr	0 0
	3459	Cl	H	C0(3-Pyr-4-CF ₃) 2-cPr	0 0
	3460	Cl	H	C0(3-Pyr-4-CF ₃) 2-CH ₂ CH ₂ CH ₂ -3	0 0
	3461	Cl	H	C0(3-Pyr-4-CF ₃) 2, 6-Me ₂	0 0
	3462	Cl	H	C0(3-Pyr-4-CF ₃) 2-Me, 6-cPr	0 0
30	3463	Cl	H	C0(3-Pyr-6-Cl) 2-Me	0 0
	3464	Cl	H	C0(3-Pyr-6-Cl) 2-iPr	0 0
	3465	Cl	H	C0(3-Pyr-6-Cl) 2-cPr	0 0
	3466	Cl	H	C0(3-Pyr-6-Cl) 2-CH ₂ CH ₂ CH ₂ -3	0 0
	3467	Cl	H	C0(3-Pyr-6-Cl) 2, 6-Me ₂	0 0
35	3468	Cl	H	C0(3-Pyr-6-Cl) 2-Me, 6-cPr	0 0
	3469	Cl	H	C0(3-Pyr-2, 6-Cl ₂) 2-Me	0 0

	3470	Cl	H	C0(3-Pyr-2, 6-Cl ₂)	2-iPr	0 0
	3471	Cl	H	C0(3-Pyr-2, 6-Cl ₂)	2-cPr	0 0
	3472	Cl	H	C0(3-Pyr-2, 6-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3473	Cl	H	C0(3-Pyr-2, 6-Cl ₂)	2, 6-Me ₂	0 0
5	3474	Cl	H	C0(3-Pyr-2, 6-Cl ₂)	2-Me, 6-cPr	0 0
	3475	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2-Me	0 0
	3476	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2-iPr	0 0
	3477	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2-cPr	0 0
	3478	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3479	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2, 6-Me ₂	0 0
	3480	Cl	H	C0(3-Pyr-2-Cl-6-Me)	2-Me, 6-cPr	0 0
	3481	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2-Me	0 0
	3482	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2-iPr	0 0
	3483	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2-cPr	0 0
15	3484	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3485	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2, 6-Me ₂	0 0
	3486	Cl	H	C0(3-Pyr-5, 6-Cl ₂)	2-Me, 6-cPr	0 0
	3487	Cl	H	C0(4-Pyr-2-Cl)	2-Me	0 0
	3488	Cl	H	C0(4-Pyr-2-Cl)	2-iPr	0 0
20	3489	Cl	H	C0(4-Pyr-2-Cl)	2-cPr	0 0
	3490	Cl	H	C0(4-Pyr-2-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3491	Cl	H	C0(4-Pyr-2-Cl)	2, 6-Me ₂	0 0
	3492	Cl	H	C0(4-Pyr-2-Cl)	2-Me, 6-cPr	0 0
	3493	Cl	H	C0(2-Bfur)	2-Me	0 0
25	3494	Cl	H	C0(2-Bfur)	2-iPr	0 0
	3495	Cl	H	C0(2-Bfur)	2-cPr	0 0
	3496	Cl	H	C0(2-Bfur)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3497	Cl	H	C0(2-Bfur)	2, 6-Me ₂	0 0
	3498	Cl	H	C0(2-Bfur)	2-Me, 6-cPr	0 0
30	3499	Cl	H	C0(2-Bthi)	2-Me	0 0
	3500	Cl	H	C0(2-Bthi)	2-iPr	0 0
	3501	Cl	H	C0(2-Bthi)	2-cPr	0 0
	3502	Cl	H	C0(2-Bthi)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3503	Cl	H	C0(2-Bthi)	2, 6-Me ₂	0 0
35	3504	Cl	H	C0(2-Bthi)	2-Me, 6-cPr	0 0
	3505	Cl	H	C0(6-Bthia)	2-Me	0 0

	3506	Cl	H	CO(6-Bthia)	2-iPr	0 0
	3507	Cl	H	CO(6-Bthia)	2-cPr	0 0
	3508	Cl	H	CO(6-Bthia)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3509	Cl	H	CO(6-Bthia)	2, 6-Me ₂	0 0
5	3510	Cl	H	CO(6-Bthia)	2-Me, 6-cPr	0 0
	3511	Cl	H	CO(5-Boxaz)	2-Me	0 0
	3512	Cl	H	CO(5-Boxaz)	2-iPr	0 0
	3513	Cl	H	CO(5-Boxaz)	2-cPr	0 0
	3514	Cl	H	CO(5-Boxaz)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3515	Cl	H	CO(5-Boxaz)	2, 6-Me ₂	0 0
	3516	Cl	H	CO(5-Boxaz)	2-Me, 6-cPr	0 0
	3517	Cl	H	CO(1-Iqu)	2-Me	0 0
	3518	Cl	H	CO(1-Iqu)	2-iPr	0 0
	3519	Cl	H	CO(1-Iqu)	2-cPr	0 0
15	3520	Cl	H	CO(1-Iqu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3521	Cl	H	CO(1-Iqu)	2, 6-Me ₂	0 0
	3522	Cl	H	CO(1-Iqu)	2-Me, 6-cPr	0 0
	3523	Cl	H	CONMe(tBu)	2-Me	0 0
	3524	Cl	H	CONMe(tBu)	2-iPr	0 0
20	3525	Cl	H	CONMe(tBu)	2-cPr	0 0
	3526	Cl	H	CONMe(tBu)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3527	Cl	H	CONMe(tBu)	2, 6-Me ₂	0 0
	3528	Cl	H	CONMe(tBu)	2-Me, 6-cPr	0 0
	3529	Cl	H	CONBu ₂	2-Me	0 0
25	3530	Cl	H	CONBu ₂	2-iPr	0 0
	3531	Cl	H	CONBu ₂	2-cPr	0 0
	3532	Cl	H	CONBu ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3533	Cl	H	CONBu ₂	2, 6-Me ₂	0 0
	3534	Cl	H	CONBu ₂	2-Me, 6-cPr	0 0
30	3535	Cl	H	CONMe(CH ₂ Ph)	2-Me	0 0
	3536	Cl	H	CONMe(CH ₂ Ph)	2-iPr	0 0
	3537	Cl	H	CONMe(CH ₂ Ph)	2-cPr	0 0
	3538	Cl	H	CONMe(CH ₂ Ph)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3539	Cl	H	CONMe(CH ₂ Ph)	2, 6-Me ₂	0 0
35	3540	Cl	H	CONMe(CH ₂ Ph)	2-Me, 6-cPr	0 0
	3541	Cl	H	CONMe(CH ₂ CN)	2-Me	0 0

	3542	Cl	H	CONMe(CH ₂ CN)	2-iPr	0 0
	3543	Cl	H	CONMe(CH ₂ CN)	2-cPr	0 0
	3544	Cl	H	CONMe(CH ₂ CN)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3545	Cl	H	CONMe(CH ₂ CN)	2, 6-Me ₂	0 0
5	3546	Cl	H	CONMe(CH ₂ CN)	2-Me, 6-cPr	0 0
	3547	Cl	H	CONMe(CH ₂ CO ₂ Et)	2-Me	0 0
	3548	Cl	H	CONMe(CH ₂ CO ₂ Et)	2-iPr	0 0
	3549	Cl	H	CONMe(CH ₂ CO ₂ Et)	2-cPr	0 0
	3550	Cl	H	CONMe(CH ₂ CO ₂ Et)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3551	Cl	H	CONMe(CH ₂ CO ₂ Et)	2, 6-Me ₂	0 0
	3552	Cl	H	CONMe(CH ₂ CO ₂ Et)	2-Me, 6-cPr	0 0
	3553	Cl	H	CONMe(2-Pyr)	2-Me	0 0
	3554	Cl	H	CONMe(2-Pyr)	2-iPr	0 0
	3555	Cl	H	CONMe(2-Pyr)	2-cPr	0 0
15	3556	Cl	H	CONMe(2-Pyr)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3557	Cl	H	CONMe(2-Pyr)	2, 6-Me ₂	0 0
	3558	Cl	H	CONMe(2-Pyr)	2-Me, 6-cPr	0 0
	3559	Cl	H	CONMe(OMe)	2-Me	0 0
	3560	Cl	H	CONMe(OMe)	2-iPr	0 0
20	3561	Cl	H	CONMe(OMe)	2-cPr	0 0
	3562	Cl	H	CONMe(OMe)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3563	Cl	H	CONMe(OMe)	2, 6-Me ₂	0 0
	3564	Cl	H	CONMe(OMe)	2-Me, 6-cPr	0 0
	3565	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2-Me	0 0
25	3566	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2-iPr	0 0
	3567	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2-cPr	0 0
	3568	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3569	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2, 6-Me ₂	0 0
	3570	Cl	H	CON(CH ₂ CH ₂ Cl) ₂	2-Me, 6-cPr	0 0
30	3571	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2-Me	0 0
	3572	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2-iPr	0 0
	3573	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2-cPr	0 0
	3574	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3575	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2, 6-Me ₂	0 0
35	3576	Cl	H	CON(CH ₂ CH=CH ₂) ₂	2-Me, 6-cPr	0 0
	3577	Cl	H	CON(CH ₂ CN) ₂	2-Me	0 0

	3578	Cl	H	CON(CH ₂ CN) ₂	2-iPr	0 0
	3579	Cl	H	CON(CH ₂ CN) ₂	2-cPr	0 0
	3580	Cl	H	CON(CH ₂ CN) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3581	Cl	H	CON(CH ₂ CN) ₂	2, 6-Me ₂	0 0
5	3582	Cl	H	CON(CH ₂ CN) ₂	2-Me, 6-cPr	0 0
	3583	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2-Me	0 0
	3584	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2-iPr	0 0
	3585	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2-cPr	0 0
	3586	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3587	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2, 6-Me ₂	0 0
	3588	Cl	H	CON(CH ₂ CH ₂ CN) ₂	2-Me, 6-cPr	0 0
	3589	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2-Me	0 0
	3590	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2-iPr	0 0
	3591	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2-cPr	0 0
15	3592	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3593	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2, 6-Me ₂	0 0
	3594	Cl	H	CON(CH ₂ CO ₂ Et) ₂	2-Me, 6-cPr	0 0
	3595	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2-Me	0 0
	3596	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2-iPr	0 0
20	3597	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2-cPr	0 0
	3598	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3599	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2, 6-Me ₂	0 0
	3600	Cl	H	CON(CH ₂ CH ₂ OMe) ₂	2-Me, 6-cPr	0 0
	3601	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2-Me	0 0
25	3602	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2-iPr	0 0
	3603	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2-cPr	0 0
	3604	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3605	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2, 6-Me ₂	0 0
	3606	Cl	H	CON(CH ₂ CH ₂ OEt) ₂	2-Me, 6-cPr	0 0
30	3607	Cl	H	CO(1-Azet)	2-Me	0 0
	3608	Cl	H	CO(1-Azet)	2-iPr	0 0
	3609	Cl	H	CO(1-Azet)	2-cPr	0 0
	3610	Cl	H	CO(1-Azet)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3611	Cl	H	CO(1-Azet)	2, 6-Me ₂	0 0
35	3612	Cl	H	CO(1-Azet)	2-Me, 6-cPr	0 0
	3613	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2-Me	0 0

	3614	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2-iPr	0 0
	3615	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2-cPr	0 0
	3616	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3617	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2, 6-Me ₂	0 0
5	3618	Cl	H	CO(1-Pyrd-2-CO ₂ Me)	2-Me, 6-cPr	0 0
	3619	Cl	H	CO(1-Pyrd-3-OH)	2-Me	0 0
	3620	Cl	H	CO(1-Pyrd-3-OH)	2-iPr	0 0
	3621	Cl	H	CO(1-Pyrd-3-OH)	2-cPr	0 0
	3622	Cl	H	CO(1-Pyrd-3-OH)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3623	Cl	H	CO(1-Pyrd-3-OH)	2, 6-Me ₂	0 0
	3624	Cl	H	CO(1-Pyrd-3-OH)	2-Me, 6-cPr	0 0
	3625	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2-Me	0 0
	3626	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2-iPr	0 0
	3627	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2-cPr	0 0
15	3628	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3629	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2, 6-Me ₂	0 0
	3630	Cl	H	CO(1-Pyrr-2, 5-Me ₂)	2-Me, 6-cPr	0 0
	3631	Cl	H	CO(1-Ppri)	2-Me	0 0
	3632	Cl	H	CO(1-Ppri)	2-iPr	0 0
20	3633	Cl	H	CO(1-Ppri)	2-cPr	0 0
	3634	Cl	H	CO(1-Ppri)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3635	Cl	H	CO(1-Ppri)	2, 6-Me ₂	0 0
	3636	Cl	H	CO(1-Ppri)	2-Me, 6-cPr	0 0
	3637	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2-Me	0 0
25	3638	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2-iPr	0 0
	3639	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2-cPr	0 0
	3640	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3641	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2, 6-Me ₂	0 0
	3642	Cl	H	CO(1-Ppri-2-CO ₂ Me)	2-Me, 6-cPr	0 0
30	3643	Cl	H	CO(1-Ppri-4-Br)	2-Me	0 0
	3644	Cl	H	CO(1-Ppri-4-Br)	2-iPr	0 0
	3645	Cl	H	CO(1-Ppri-4-Br)	2-cPr	0 0
	3646	Cl	H	CO(1-Ppri-4-Br)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3647	Cl	H	CO(1-Ppri-4-Br)	2, 6-Me ₂	0 0
35	3648	Cl	H	CO(1-Ppri-4-Br)	2-Me, 6-cPr	0 0
	3649	Cl	H	CO(1-Ppri-4-Me)	2-Me	0 0

	3650	Cl	H	C0(1-Ppri-4-Me)	2-iPr	0 0
	3651	Cl	H	C0(1-Ppri-4-Me)	2-cPr	0 0
	3652	Cl	H	C0(1-Ppri-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3653	Cl	H	C0(1-Ppri-4-Me)	2, 6-Me ₂	0 0
5	3654	Cl	H	C0(1-Ppri-4-Me)	2-Me, 6-cPr	0 0
	3655	Cl	H	C0(1-Ppri-4-CO ₂ Me)	2-Me	0 0
	3656	Cl	H	C0(1-Ppri-4-CO ₂ Me)	2-iPr	0 0
	3657	Cl	H	C0(1-Ppri-4-CO ₂ Me)	2-cPr	0 0
	3658	Cl	H	C0(1-Ppri-4-CO ₂ Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3659	Cl	H	C0(1-Ppri-4-CO ₂ Me)	2, 6-Me ₂	0 0
	3660	Cl	H	C0(1-Ppri-4-CO ₂ Et)	2-Me, 6-cPr	0 0
	3661	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2-Me	0 0
	3662	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2-iPr	0 0
	3663	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2-cPr	0 0
15	3664	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3665	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2, 6-Me ₂	0 0
	3666	Cl	H	C0(1-Ppri-4-OCH ₂ CH ₂ O-4)	2-Me, 6-cPr	0 0
	3667	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2-Me	0 0
	3668	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2-iPr	0 0
20	3669	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2-cPr	0 0
	3670	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3671	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2, 6-Me ₂	0 0
	3672	Cl	H	C0(1-Ppri-2, 2, 6, 6-Me ₄)	2-Me, 6-cPr	0 0
	3673	Cl	H	C0(1-Ppra-4-Me)	2-Me	0 0
25	3674	Cl	H	C0(1-Ppra-4-Me)	2-iPr	0 0
	3675	Cl	H	C0(1-Ppra-4-Me)	2-cPr	0 0
	3676	Cl	H	C0(1-Ppra-4-Me)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3677	Cl	H	C0(1-Ppra-4-Me)	2, 6-Me ₂	0 0
	3678	Cl	H	C0(1-Ppra-4-Me)	2-Me, 6-cPr	0 0
30	3679	Cl	H	C0(1-Ppra-4-Ph)	2-Me	0 0
	3680	Cl	H	C0(1-Ppra-4-Ph)	2-iPr	0 0
	3681	Cl	H	C0(1-Ppra-4-Ph)	2-cPr	0 0
	3682	Cl	H	C0(1-Ppra-4-Ph)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3683	Cl	H	C0(1-Ppra-4-Ph)	2, 6-Me ₂	0 0
35	3684	Cl	H	C0(1-Ppra-4-Ph)	2-Me, 6-cPr	0 0
	3685	Cl	H	C0-4-Morp	2-Me	0 0

	3686	Cl	H	CO-4-Morp	2-iPr	0 0
	3687	Cl	H	CO-4-Morp	2-cPr	0 0
	3688	Cl	H	CO-4-Morp	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3689	Cl	H	CO-4-Morp	2, 6-Me ₂	0 0
5	3690	Cl	H	CO-4-Morp	2-Me, 6-cPr	0 0
	3691	Cl	H	CO(4-Morp-2, 6-Me ₂)	2-Me	0 0
	3692	Cl	H	CO(4-Morp-2, 6-Me ₂)	2-iPr	0 0
	3693	Cl	H	CO(4-Morp-2, 6-Me ₂)	2-cPr	0 0
	3694	Cl	H	CO(4-Morp-2, 6-Me ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3695	Cl	H	CO(4-Morp-2, 6-Me ₂)	2, 6-Me ₂	0 0
	3696	Cl	H	CO(4-Morp-2, 6-Me ₂)	2-Me, 6-cPr	0 0
	3697	Cl	H	CO-4-Tmor	2-Me	0 0
	3698	Cl	H	CO-4-Tmor	2-iPr	0 0
	3699	Cl	H	CO-4-Tmor	2-cPr	0 0
15	3700	Cl	H	CO-4-Tmor	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3701	Cl	H	CO-4-Tmor	2, 6-Me ₂	0 0
	3702	Cl	H	CO-4-Tmor	2-Me, 6-cPr	0 0
	3703	Cl	H	COQ ¹⁸	2-Me	0 0
	3704	Cl	H	COQ ¹⁸	2-iPr	0 0
20	3705	Cl	H	COQ ¹⁸	2-cPr	0 0
	3706	Cl	H	COQ ¹⁸	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3707	Cl	H	COQ ¹⁸	2, 6-Me ₂	0 0
	3708	Cl	H	COQ ¹⁸	2-Me, 6-cPr	0 0
	3709	Cl	H	CO(9-Carb)	2-Me	0 0
25	3710	Cl	H	CO(9-Carb)	2-iPr	0 0
	3711	Cl	H	CO(9-Carb)	2-cPr	0 0
	3712	Cl	H	CO(9-Carb)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3713	Cl	H	CO(9-Carb)	2, 6-Me ₂	0 0
	3714	Cl	H	CO(9-Carb)	2-Me, 6-cPr	0 0
30	3715	Cl	H	CO(10-Pthia)	2-Me	0 0
	3716	Cl	H	CO(10-Pthia)	2-iPr	0 0
	3717	Cl	H	CO(10-Pthia)	2-cPr	0 0
	3718	Cl	H	CO(10-Pthia)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3719	Cl	H	CO(10-Pthia)	2, 6-Me ₂	0 0
35	3720	Cl	H	CO(10-Pthia)	2-Me, 6-cPr	0 0
	3721	Cl	H	SO ₂ (Ph-2-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0

	3722	Cl	H	SO ₂ (Ph-3-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0
	3723	Cl	H	SO ₂ (Ph-4-CO ₂ Q ⁵)	2-Me, 6-cPr	0 0
	3724	Cl	H	SO ₂ (Ph-4-OMe)	2-Cl	0 0
	3725	Cl	H	SO ₂ (Ph-4-OMe)	2-Br	0 0
5	3726	Cl	H	SO ₂ (Ph-4-OMe)	2-I	0 0
	3727	Cl	H	SO ₂ (Ph-4-OMe)	2-cBu	0 0
	3728	Cl	H	SO ₂ (Ph-4-OMe)	2-cPr, 5-Me	0 0
	3729	Cl	H	SO ₂ (Ph-4-OMe)	2-OMe, 5-Me	0 0
	3730	Cl	H	SO ₂ (Ph-4-OMe)	2-F, 6-iPr	0 0
10	3731	Cl	H	SO ₂ (Ph-4-OMe)	2-Cl, 6-cPr	0 0
	3732	Cl	H	SO ₂ (Ph-4-OMe)	2-Br, 6-Me	0 0
	3733	Cl	H	SO ₂ (Ph-4-OMe)	2-I, 6-Me	0 0
	3734	Cl	H	SO ₂ (Ph-4-OMe)	2-Me, 6-Et	0 0
	3735	Cl	H	SO ₂ (Ph-4-OMe)	2, 6-cPr ₂	0 0
15	3736	Cl	H	SO ₂ (Ph-4-OMe)	2-cPr, 3, 5-Me ₂	0 0
	3737	Cl	H	SO ₂ (Ph-4-OMe)	2-cPr, 3, 6-Me ₂	0 0
	3738	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁶)	2-Me	0 0
	3739	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁷)	2-iPr	0 0
	3740	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁸)	2-cPr	0 0
20	3741	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3742	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹⁰)	2, 6-Me ₂	0 0
	3743	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹¹)	2-Me, 6-cPr	0 0
	3744	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹²)	2-Me, 6-cPr	0 0
	3745	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹³)	2-Me, 6-cPr	0 0
25	3746	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹⁴)	2-Me, 6-cPr	0 0
	3747	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹⁵)	2-Me, 6-cPr	0 0
	3748	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹⁶)	2-Me, 6-cPr	0 0
	3749	Cl	H	SO ₂ (Ph-2-SO ₂ OQ ¹⁷)	2-Me, 6-cPr	0 0
	3750	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁶)	2-Me	0 0
30	3751	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁷)	2-iPr	0 0
	3752	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁸)	2-cPr	0 0
	3753	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3754	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹⁰)	2, 6-Me ₂	0 0
	3755	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹¹)	2-Me, 6-cPr	0 0
35	3756	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹²)	2-Me, 6-cPr	0 0
	3757	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹³)	2-Me, 6-cPr	0 0

	3758	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹⁴)	2-Me, 6-cPr	0 0
	3759	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹⁵)	2-Me, 6-cPr	0 0
	3760	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹⁶)	2-Me, 6-cPr	0 0
	3761	Cl	H	SO ₂ (Ph-3-SO ₂ OQ ¹⁷)	2-Me, 6-cPr	0 0
5	3762	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁵)	2-Cl, 6-cPr	0 0
	3763	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁶)	2-Me	0 0
	3764	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁷)	2-iPr	0 0
	3765	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁸)	2-cPr	0 0
	3766	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ⁹)	2-CH ₂ CH ₂ CH ₂ -3	0 0
10	3767	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹⁰)	2, 6-Me ₂	0 0
	3768	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹¹)	2-Me, 6-cPr	0 0
	3769	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹²)	2-Me, 6-cPr	0 0
	3770	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹³)	2-Me, 6-cPr	0 0
	3771	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹⁴)	2-Me, 6-cPr	0 0
15	3772	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹⁵)	2-Me, 6-cPr	0 0
	3773	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹⁶)	2-Me, 6-cPr	0 0
	3774	Cl	H	SO ₂ (Ph-4-SO ₂ OQ ¹⁷)	2-Me, 6-cPr	0 0
	3775	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2-Me	0 0
	3776	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2-iPr	0 0
20	3777	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2-cPr	0 0
	3778	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3779	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2, 6-Me ₂	0 0
	3780	Cl	H	SO ₂ (Ph-2, 5-Cl ₂)	2-Me, 6-cPr	0 0
	3781	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2-Me	0 0
25	3782	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2-iPr	0 0
	3783	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2-cPr	0 0
	3784	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3785	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2, 6-Me ₂	0 0
	3786	Cl	H	SO ₂ (Ph-3-NO ₂ -4-Cl)	2-Me, 6-cPr	0 0
30	3787	Cl	H	SO ₂ (2-Thi)	2-Me	0 0
	3788	Cl	H	SO ₂ (2-Thi)	2-iPr	0 0
	3789	Cl	H	SO ₂ (2-Thi)	2-cPr	0 0
	3790	Cl	H	SO ₂ (2-Thi)	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3791	Cl	H	SO ₂ (2-Thi)	2, 6-Me ₂	0 0
35	3792	Cl	H	SO ₂ (2-Thi)	2-Me, 6-cPr	0 0
	3793	Cl	H	N(Bu) ₄	2-Me	0 0

	3794	Cl	H	N(Bu) ₄	2-iPr	0 0
	3795	Cl	H	N(Bu) ₄	2-cPr	0 0
	3796	Cl	H	N(Bu) ₄	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3797	Cl	H	N(Bu) ₄	2, 6-Me ₂	0 0
5	3798	Cl	H	N(Bu) ₄	2-Me, 6-cPr	0 0
	3799	Cl	H	Li	2-Me, 6-cPr	0 0
	3800	Cl	H	Na	2-Me	0 0
	3801	Cl	H	Na	2-iPr	0 0
	3802	Cl	H	Na	2-cPr	0 0
10	3803	Cl	H	Na	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3804	Cl	H	Na	2, 6-Me ₂	0 0
	3805	Cl	H	Na	2-Me, 6-cPr	0 0
	3806	Cl	H	K	2-Me	0 0
	3807	Cl	H	K	2-iPr	0 0
15	3808	Cl	H	K	2-cPr	0 0
	3809	Cl	H	K	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3810	Cl	H	K	2, 6-Me ₂	0 0
	3811	Cl	H	K	2-Me, 6-cPr	0 0
	3812	Cl	H	Rb	2-Me, 6-cPr	0 0
20	3813	Cl	H	Cs	2-Me, 6-cPr	0 0
	3814	Cl	H	Mg	2-Me, 6-cPr	0 0
	3815	Cl	H	Ca	2-Me, 6-cPr	0 0
	3816	Cl	H	Ba	2-Me, 6-cPr	0 0
	3817	Cl	H	Sc	2-Me, 6-cPr	0 0
25	3818	Cl	H	Ti	2-Me, 6-cPr	0 0
	3819	Cl	H	Mn	2-Me, 6-cPr	0 0
	3820	Cl	H	Fe	2-Me, 6-cPr	0 0
	3821	Cl	H	Cu	2-Me, 6-cPr	0 0
	3822	Cl	H	Ag	2-Me, 6-cPr	0 0
30	3823	Cl	H	Au	2-Me, 6-cPr	0 0
	3824	Cl	H	Zn	2-Me, 6-cPr	0 0
	3825	Cl	H	Al	2-Me, 6-cPr	0 0
	3826	Cl	F	H	2-Me	0 0
	3827	Cl	F	H	2-iPr	0 0
35	3828	Cl	F	H	2-cPr	0 0
	3829	Cl	F	H	2-CH ₂ CH ₂ CH ₂ -3	0 0

	3830	Cl	F	H	2, 6-Me ₂	0 0
	3831	Cl	F	H	2-Me, 6-cPr	0 0
	3832	Cl	Cl	H	2-Me	0 0
	3833	Cl	Cl	H	2-iPr	0 0
5	3834	Cl	Cl	H	2-cPr	0 0
	3835	Cl	Cl	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3836	Cl	Cl	H	2, 6-Me ₂	0 0
	3837	Cl	Cl	H	2-Me, 6-cPr	0 0
	3838	Cl	Br	H	2-Me	0 0
10	3839	Cl	Br	H	2-iPr	0 0
	3840	Cl	Br	H	2-cPr	0 0
	3841	Cl	Br	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3842	Cl	Br	H	2, 6-Me ₂	0 0
	3843	Cl	Br	H	2-Me, 6-cPr	0 0
15	3844	Cl	I	H	2-Me	0 0
	3845	Cl	I	H	2-iPr	0 0
	3846	Cl	I	H	2-cPr	0 0
	3847	Cl	I	H	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3848	Cl	I	H	2, 6-Me ₂	0 0
20	3849	Cl	I	H	2-Me, 6-cPr	0 0
	3850	Cl	H	OCOPh	2-Me, 4-OCOPh	0 0
	3851	Cl	H	CO-4-Thpy	2-Me	0 0
	3852	Cl	H	CO-4-Thpy	2-iPr	0 0
	3853	Cl	H	CO-4-Thpy	2-cPr	0 0
25	3854	Cl	H	CO-4-Thpy	2-CH ₂ CH ₂ CH ₂ -3	0 0
	3855	Cl	H	CO-4-Thpy	2, 6-Me ₂	0 0
	3856	Cl	H	CO-4-Thpy	2-Me, 6-cPr	0 0

Among the above-mentioned exemplary compounds,

30 preferred compounds are Compounds Nos. 124, 125, 126, 127, 128, 130, 131, 132, 134, 136, 139, 140, 144, 145, 151, 163, 173, 202, 207, 217, 226, 249, 264, 265, 266, 267, 269, 270, 271, 272, 273, 279, 280, 284, 287, 292, 300, 304, 305, 306, 307, 308, 309, 311, 330, 334, 336, 339, 344, 359, 361, 362,

35 364, 365, 370, 377, 385, 386, 387, 390, 391, 400, 401, 403, 410, 412, 413, 417, 422, 426, 437, 438, 441, 443, 446, 450,

456, 459, 472, 478, 498, 505, 506, 507, 514, 515, 516, 521,
527, 528, 529, 531, 532, 534, 535, 539, 541, 544, 547, 557,
562, 566, 571, 614, 618, 621, 623, 629, 640, 642, 658, 659,
662, 663, 664, 667, 700, 701, 702, 704, 707, 708, 710, 711,
5 712, 716, 717, 719, 728, 732, 733, 734, 735, 736, 737, 738,
740, 756, 758, 759, 760, 761, 762, 775, 778, 780, 781, 782,
801, 802, 803, 804, 805, 806, 827, 834, 844, 845, 846, 850,
890, 894, 896, 911, 914, 931, 964, 965, 979, 982, 987, 998,
1000, 1007, 1009, 1013, 1016, 1020, 1023, 1027, 1040, 1050,
10 1052, 1053, 1055, 1058, 1060, 1061, 1063, 1064, 1066, 1069,
1073, 1083, 1086, 1088, 1089, 1091, 1096, 1099, 1100, 1102,
1109, 1115, 1118, 1119, 1120, 1122, 1123, 1124, 1125, 1126,
1128, 1129, 1133, 1140, 1151, 1160, 1172, 1178, 1184, 1207,
1251, 1260, 1266, 1286, 1298, 1334, 1340, 1358, 1364, 1382,
15 1387, 1391, 1417, 1441, 1446, 1448, 1456, 1459, 1461, 1481,
1509, 1522, 1531, 1537, 1543, 1549, 1553, 1554, 1566, 1575,
1593, 1599, 1603, 1616, 1620, 1625, 1631, 1643, 1649, 1658,
1706, 1710, 1757, 1770, 1789, 1811, 1840, 1877, 1879, 1891,
1898, 1911, 1920, 1924, 1937, 1946, 1952, 1958, 1981, 1985,
20 2010, 2034, 2038, 2040, 2042, 2051, 2060, 2066, 2072, 2081,
2106, 2136, 2147, 2151, 2176, 2198, 2199, 2200, 2212, 2220,
2221, 2222, 2224, 2225, 2263, 2265, 2287, 2289, 2300, 2309,
2315, 2321, 2327, 2333, 2411, 2431, 2453, 2519, 2529, 2540,
2542, 2547, 2548, 2551, 2555, 2556, 2565, 2568, 2570, 2571,
25 2572, 2574, 2576, 2577, 2585, 2587, 2589, 2592, 2596, 2597,
2599, 2600, 2601, 2603, 2605, 2606, 2607, 2608, 2609, 2614,
2662, 2671, 2677, 2697, 2703, 2709, 2715, 2721, 2727, 2733,
2739, 2746, 2752, 2758, 2764, 2770, 2776, 2782, 2788, 2805,
2814, 2820, 2826, 2827, 2838, 2850, 2856, 2862, 2868, 2874,
30 2880, 2900, 2906, 2918, 2924, 2930, 2961, 2970, 2976, 2982,
2988, 2994, 3001, 3016, 3022, 3028, 3034, 3040, 3046, 3052,
3058, 3064, 3070, 3076, 3082, 3088, 3094, 3100, 3106, 3112,
3129, 3138, 3144, 3150, 3156, 3162, 3168, 3185, 3194, 3200,
3217, 3226, 3243, 3252, 3258, 3264, 3270, 3276, 3282, 3288,
35 3294, 3300, 3306, 3312, 3318, 3324, 3330, 3336, 3342, 3348,
3354, 3360, 3366, 3372, 3378, 3384, 3390, 3396, 3402, 3408,

3414, 3420, 3426, 3432, 3438, 3444, 3450, 3456, 3462, 3468,
3474, 3480, 3486, 3492, 3498, 3504, 3510, 3516, 3522, 3528,
3534, 3540, 3546, 3552, 3558, 3564, 3570, 3576, 3582, 3588,
3594, 3600, 3606, 3612, 3618, 3624, 3630, 3636, 3642, 3648,
5 3654, 3660, 3666, 3672, 3678, 3684, 3690, 3696, 3702, 3708,
3714, 3720, 3755, 3780, 3786, 3792, 3798, 3805, 3811, 3837,
3843 or 3849,
more preferably compounds of Compounds Nos. 124, 125,
126, 127, 128, 130, 132, 136, 139, 140, 144, 145, 151, 163,
10 173, 202, 217, 249, 264, 265, 266, 267, 269, 270, 271, 284,
287, 300, 304, 308, 309, 311, 334, 336, 339, 361, 362, 377,
385, 386, 387, 390, 391, 401, 437, 438, 459, 472, 505, 506,
507, 515, 516, 521, 528, 529, 531, 532, 534, 539, 541, 544,
547, 571, 621, 658, 659, 662, 663, 664, 667, 700, 701, 702,
15 704, 707, 708, 711, 712, 717, 719, 732, 733, 734, 735, 736,
737, 738, 740, 756, 758, 759, 760, 762, 775, 778, 780, 781,
782, 801, 802, 803, 806, 827, 834, 845, 846, 850, 896, 914,
931, 964, 965, 998, 1013, 1016, 1023, 1040, 1050, 1052,
1053, 1055, 1058, 1060, 1061, 1063, 1064, 1066, 1069, 1073,
20 1086, 1088, 1089, 1091, 1096, 1099, 1100, 1102, 1109, 1115,
1118, 1119, 1120, 1123, 1124, 1125, 1126, 1129, 1133, 1140,
1151, 1160, 1172, 1178, 1184, 1207, 1260, 1266, 1286, 1298,
1334, 1340, 1358, 1364, 1382, 1387, 1391, 1417, 1441, 1446,
1448, 1481, 1522, 1531, 1537, 1543, 1549, 1566, 1575, 1593,
25 1599, 1616, 1620, 1625, 1631, 1643, 1649, 1658, 1710, 1770,
1789, 1811, 1840, 1879, 1891, 1911, 1937, 1946, 1958, 1981,
1985, 2010, 2034, 2038, 2040, 2042, 2051, 2060, 2066, 2072,
2081, 2106, 2136, 2151, 2176, 2200, 2212, 2220, 2225, 2265,
2289, 2300, 2309, 2327, 2333, 2411, 2519, 2529, 2540, 2542,
30 2556, 2565, 2568, 2576, 2577, 2587, 2597, 2599, 2600, 2601,
2605, 2609, 2614, 2662, 2671, 2677, 2697, 2703, 2709, 2715,
2721, 2727, 2733, 2739, 2746, 2752, 2758, 2764, 2770, 2776,
2782, 2788, 2805, 2814, 2820, 2826, 2850, 2856, 2862, 2868,
2874, 2880, 2900, 2906, 2918, 2924, 2930, 2961, 2970, 2976,
35 2982, 2988, 2994, 3022, 3028, 3034, 3040, 3046, 3052, 3058,
3064, 3070, 3076, 3082, 3088, 3094, 3100, 3106, 3112, 3129,

3138, 3144, 3162, 3168, 3185, 3194, 3200, 3217, 3226, 3243,
 3252, 3258, 3264, 3270, 3276, 3282, 3288, 3294, 3300, 3306,
 3312, 3318, 3324, 3330, 3336, 3342, 3348, 3354, 3360, 3366,
 3372, 3378, 3384, 3390, 3396, 3402, 3408, 3414, 3420, 3426,
 5 3432, 3438, 3444, 3450, 3456, 3462, 3468, 3474; 3480, 3486,
 3492, 3498, 3504, 3510, 3516, 3528, 3534, 3540, 3546, 3552,
 3558, 3564, 3570, 3576, 3582, 3588, 3594, 3600, 3606, 3612,
 3618, 3624, 3630, 3636, 3642, 3648, 3654, 3660, 3666, 3672,
 3678, 3684, 3690, 3696, 3702, 3708, 3714, 3720, 3755, 3780,
 10 3786, 3792, 3798, 3805, 3811, 3837, 3843 or 3849,

still further preferably compounds of Compounds Nos.

125, 126, 127, 128, 130, 132, 139, 140, 144, 145, 151, 163,
 217, 249, 264, 265, 266, 284, 304, 308, 387, 390, 391, 459,
 472, 506, 507, 515, 516, 531, 539, 541, 621, 658, 659, 662,
 15 700, 701, 702, 704, 711, 717, 719, 733, 734, 735, 740, 758,
 759, 762, 775, 780, 781, 801, 802, 803, 806, 827, 834, 846,
 850, 931, 964, 965, 1023, 1040, 1050, 1052, 1053, 1055,
 1058, 1061, 1064, 1066, 1069, 1073, 1088, 1089, 1091, 1096,
 1099, 1100, 1102, 1109, 1119, 1124, 1125, 1126, 1129, 1133,
 20 1151, 1160, 1172, 1178, 1184, 1207, 1260, 1286, 1298, 1334,
 1340, 1358, 1382, 1417, 1441, 1481, 1522, 1531, 1537, 1543,
 1549, 1566, 1593, 1599, 1616, 1625, 1631, 1643, 1649, 1770,
 1811, 1891, 1958, 2034, 2051, 2060, 2072, 2136, 2176, 2212,
 2265, 2309, 2327, 2333, 2519, 2556, 2577, 2587, 2597, 2599,
 25 2600, 2601, 2609, 2614, 2662, 2677, 2697, 2709, 2715, 2721,
 2727, 2733, 2739, 2746, 2752, 2758, 2764, 2770, 2776, 2782,
 2788, 2805, 2814, 2820, 2826, 2850, 2862, 2868, 2874, 2900,
 2918, 2924, 2930, 2961, 2970, 2988, 2994, 3022, 3034, 3046,
 3058, 3064, 3076, 3082, 3094, 3106, 3112, 3129, 3144, 3162,
 30 3168, 3185, 3217, 3243, 3252, 3264, 3282, 3288, 3294, 3306,
 3324, 3330, 3336, 3354, 3378, 3390, 3396, 3402, 3408, 3414,
 3420, 3426, 3432, 3438, 3450, 3462, 3468, 3474, 3486, 3492,
 3510, 3516, 3546, 3552, 3564, 3582, 3588, 3594, 3600, 3606,
 3612, 3618, 3624, 3642, 3654, 3660, 3678, 3690, 3696, 3702,
 35 3780, 3786, 3798, 3805, 3811, 3837, 3843 or 3849,

particularly preferably compounds of Compounds Nos.

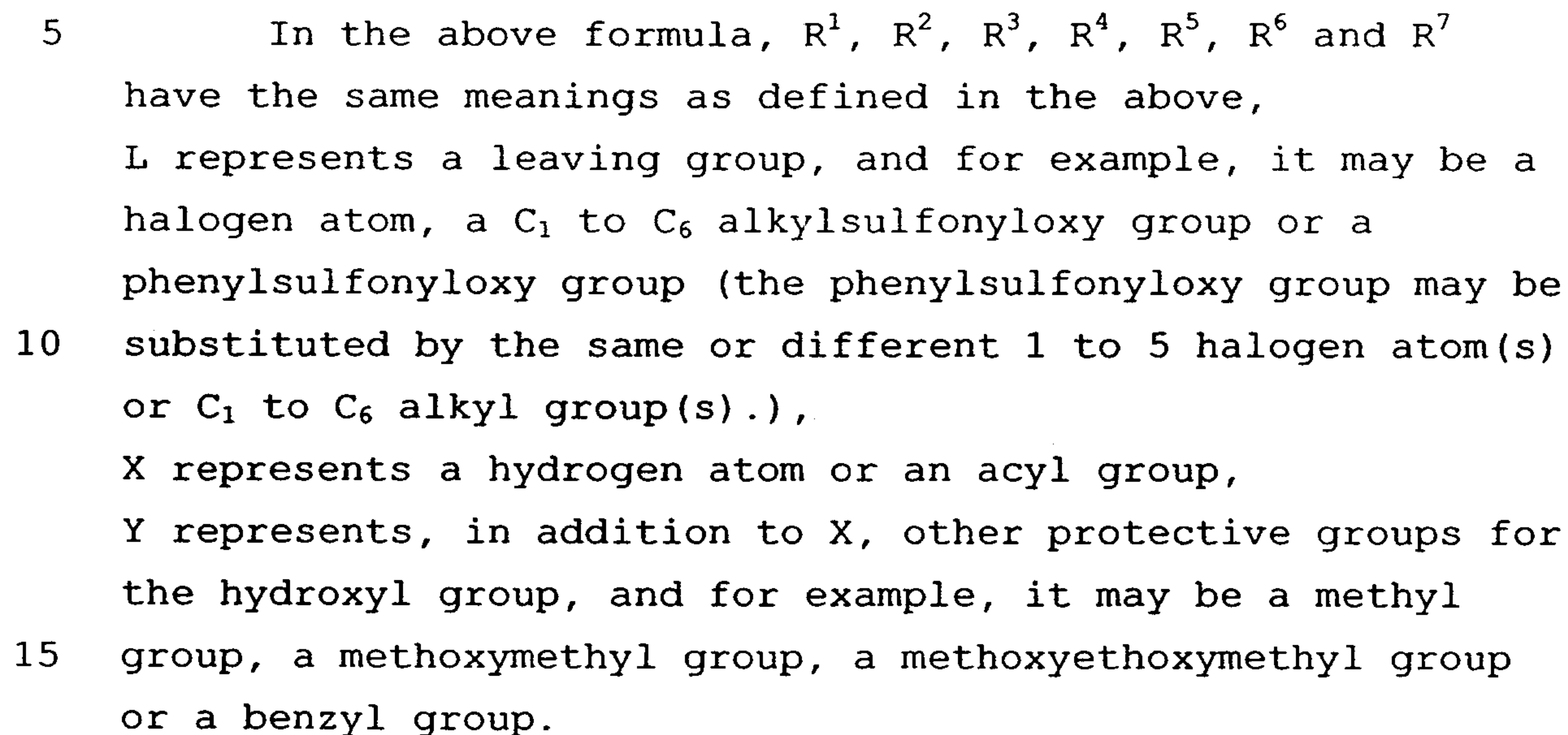
127, 128, 132, 139, 144, 217, 265, 284, 304, 391, 472, 506,
 507, 515, 516, 539, 541, 621, 658, 659, 662, 704, 711, 717,
 719, 733, 735, 740, 758, 759, 762, 780, 781, 801, 802, 803,
 806, 827, 846, 850, 931, 964, 965, 1023, 1040, 1052, 1058,
 5 1061, 1088, 1089, 1091, 1096, 1099, 1100, 1102, 1109, 1124,
 1125, 1151, 1160, 1172, 1184, 1207, 1286, 1298, 1334, 1358,
 1417, 1441, 1481, 1522, 1531, 1537, 1543, 1566, 1593, 1599,
 1616, 1625, 1631, 1643, 1770, 1811, 1891, 1958, 2034, 2051,
 2176, 2212, 2265, 2309, 2327, 2333, 2597, 2599, 2614, 2662,
 10 2677, 2727, 2733, 2739, 2746, 2752, 2805, 2814, 2850, 2900,
 2918, 2961, 2994, 3022, 3046, 3064, 3094, 3129, 3144, 3168,
 3185, 3217, 3243, 3264, 3288, 3402, 3408, 3426, 3432, 3450,
 3462, 3546, 3552, 3564, 3582, 3588, 3594, 3600, 3606, 3612,
 3618, 3624, 3642, 3654, 3660, 3678, 3690, 3696, 3702, 3805
 15 or 3811,

most preferably compounds of 6-chloro-3-(2-
 methylphenoxy)-4-pyridazinol (Compound No. 128), 6-chloro-
 3-(2-isopropylphenoxy)-4-pyridazinol (Compound No. 132), 6-
 chloro-3-(2-cyclopropylphenoxy)-4-pyridazinol (Compound No.
 20 139), 6-chloro-3-[2-(2,2-dichlorocyclopropyl)phenoxy]-4-
 pyridazinol (Compound No. 265), 6-chloro-3-(2,3-dihydro-1H-
 inden-4-yloxy)-4-pyridazinol (Compound No. 506), 6-chloro-
 3-(2-cyclopropyl-5-methylphenoxy)-4-pyridazinol (Compound
 No. 662), 6-chloro-3-(2-fluoro-6-isopropylphenoxy)-4-
 25 pyridazinol (Compound No. 717), 6-chloro-3-(2-chloro-6-
 cyclopropylphenoxy)-4-pyridazinol (Compound No. 740), 6-
 chloro-3-(2,6-dimethylphenoxy)-4-pyridazinol (Compound No.
 801), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-
 pyridazinol (Compound No. 806), 6-chloro-3-[2-(2,2-
 30 dichlorocyclopropyl)-6-methylphenoxy]-4-pyridazinol
 (Compound No. 827), 6-chloro-3-(2-cyclopropyl-3,5-
 dimethylphenoxy)-4-pyridazinol (Compound No. 1023), 6-
 chloro-3-(6-cyclopropyl-3-fluoro-2-methylphenoxy)-4-
 pyridazinol (Compound No. 1052), 6-chloro-3-(6-cyclopropyl-
 35 2,3-dimethylphenoxy)-4-pyridazinol (Compound No. 1061), 6-
 chloro-3-(2,3,5,6-tetramethylphenoxy)-4-pyridazinol

(Compound No. 1125), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl acetate (Compound No. 1151), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl propionate (Compound No. 1160), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 2-methylpropanoate (Compound No. 1172), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl pivalate (Compound No. 1207), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3-methyl-2-butenate (Compound No. 1358), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl benzoate (Compound No. 1417), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 2-methylbenzoate (Compound No. 1481), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 2-methoxybenzoate (Compound No. 1522), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3-methylbenzoate (Compound No. 1531), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-bromobenzoate (Compound No. 1543), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-methylbenzoate (Compound No. 1566), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl phthalate (Compound No. 1625), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl isophthalate (Compound No. 1631), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl isobutylcarbonate (Compound No. 1770), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl dimethylcarbamate (Compound No. 1891), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 1-propanesulfonate (Compound No. 2051), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl benzene sulfonate (Compound No. 2176), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-chlorobenzene sulfonate (Compound No. 2212), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-methylbenzene sulfonate (Compound No. 2265), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-methoxybenzene sulfonate (Compound

No. 2309), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl 1,2-benzene disulfonate (Compound No. 2327), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl 1,3-benzene disulfonate (Compound No. 2333), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3,3-dimethylbutanoate (Compound No. 2662), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl ethyl succinate (Compound No. 2727), bis[6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl] succinate (Compound No. 2733), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yl pentanedioate (Compound No. 2739), bis[6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl] pentanedioate (Compound No. 2746), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 2-bromobenzoate (Compound No. 2805), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-ethylbenzoate (Compound No. 2961), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 2,5-dimethylbenzoate (Compound No. 3129), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3-fluoro-4-methylbenzoate (Compound No. 3185), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3,5-difluorobenzoate (Compound No. 3217), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 3,5-dimethylbenzoate (Compound No. 3243), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl methoxy(methyl) carbamate (Compound No. 3564), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl bis(2-methoxyethyl) carbamate (Compound No. 3600), 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 1-azetizincarboxylate (Compound No. 3612) or 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-morpholinecarboxylate (Compound No. 3690).

The 3-phenoxy-4-pyridazinol compound and its ester derivative of the present invention can be produced by the methods described in the following Steps A to N.



Step A is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII) , in which a hydroxyl group is protected, by reacting
20 a phenol compound represented by the formula (III) with a pyridazine compound represented by the formula (II), then, chlorinating the resulting compound, and further reacting an

oxygen nucleophilic agent, and further a step to produce Compound (Ib) of the present invention by removing the protective group of Compound (VII).

(Step A-1)

5 Step A-1 is a step to produce a phenoxypyridazine compound represented by the formula (IV) by reacting Compound (II) with Compound (III) in the presence or absence of a solvent, and if necessary, in the presence of a base.

10 The base to be used is not specifically limited so long as it is a base showing generally a pH of 8 or more, and for example, it may be alkali metal hydroxides such as sodium hydroxide, potassium hydroxide, etc.; alkali metal carbonates such as sodium carbonate, potassium carbonate,
15 cesium carbonate, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, potassium t-butoxide, etc.; alkali metal hydrides such as sodium hydride, potassium hydride, etc.; alkali metals such as sodium, potassium, etc.; aliphatic tertiary amines such as triethylamine, tributylamine, diisopropylethylamine, etc.; aliphatic
20 cyclic tertiary amines such as 1,4-diazabicyclo[2.2.2]-octane (DABCO), 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), etc.; pyridines such as pyridine, collidine, 4-(N,N-dimethylamino)pyridine, etc.; organic metal bases such as
25 n-butyl lithium, s-butyl lithium, lithium diisopropylamide, sodium bis(trimethylsilyl)amide, lithium bis(trimethylsilyl)amide, etc., preferably alkali metal hydroxides, alkali metal carbonates, metal alkoxides, alkali metal hydrides or alkali metals, more preferably
30 potassium carbonate, potassium t-butoxide, sodium hydride or sodium.

 An amount of the base to be used is generally 0.5 to 5 mol, preferably 1 to 3 mol based on 1 mol of the compound (II).

35 The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves

starting material(s) to a certain extent, and for example, it may be water; alcohols such as methanol, ethanol, t-butanol, etc.; ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.;
5 esters such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethyl-
10 acetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; or a mixed solvent of the above, preferably nitriles, halogenated hydrocarbons, ethers, aromatic hydrocarbons, amides or sulfoxides, more preferably dioxane, toluene, dimethylformamide or dimethylsulfoxide.

15 The reaction temperature may vary depending on the starting compounds, reaction reagents and solvent, etc., and is generally -90°C to 200°C , preferably 0°C to 100°C .

The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents
20 and a kind of the solvent to be used, and usually 5 minutes to 48 hours, preferably 15 minutes to 12 hours.

(Step A-2)

Step A-2 is a step to produce a compound represented by the formula (V) in which a chlorine atom is
25 introduced into the 4-position of a pyridazine ring by chlorinating Compound (IV) with a chlorinating agent in the presence or absence of a solvent.

As the chlorinating agent to be used, it is not
30 specifically limited so long as it can chlorinate an aromatic ring, and for example, it may be chlorine, chlorine-iron chloride, sulfuryl chloride, copper chloride, N-chlorosuccinimide or phosphorus pentachloride, preferably chlorine.

35 An amount of the chlorinating agent to be used is generally 0.5 to 10 mol, preferably 1 to 2 mol based on 1

mol of the compound (IV).

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for example, it may be phosphorus oxychloride; water; alcohols such as methanol, ethanol, t-butanol, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; aliphatic hydrocarbons such as hexane, cyclohexane, heptane, etc.; or a mixed solvent of the above, preferably phosphorus oxychloride, water, halogenated hydrocarbons or ethers, more preferably phosphorus oxychloride.

The reaction temperature may vary depending on the starting compounds, reaction reagents and a kind of the solvent to be used, etc., and is generally -90°C to 200°C , preferably 0°C to 50°C .

The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and usually 5 minutes to 24 hours, preferably 15 minutes to 6 hours.

25

(Step A-3)

Step A-3 is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by reacting Compound (V) with an oxygen nucleophilic agent represented by the formula (VI) in the presence or absence of a solvent, and if necessary, in the presence of a base.

The base to be used is not specifically limited so long as it is a base showing generally a pH of 8 or more, and for example, it may be alkali metal hydroxides such as sodium hydroxide, potassium hydroxide, etc.; alkali metal

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carbonates such as sodium carbonate, potassium carbonate, cesium carbonate, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, potassium t-butoxide, etc.; alkali metal salts of an organic acid such as sodium acetate, potassium acetate, sodium formate, potassium formate, etc.; alkali metal hydrides such as sodium hydride, potassium hydride, etc.; alkali metals such as sodium, potassium, etc.; aliphatic tertiary amines such as triethylamine, tributylamine, diisopropylethylamine, etc.; aliphatic cyclic tertiary amines such as 1,4-diazabicyclo[2.2.2]octane (DABCO), 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), etc.; pyridines such as pyridine, collidine, 4-(N,N-dimethylamino)pyridine, etc.; organic metal bases such as n-butyl lithium, s-butyl lithium, lithium diisopropylamide, sodium bis(trimethylsilyl)amide, lithium bis(trimethylsilyl)amide, etc., preferably alkali metal hydroxides, alkali metal carbonates, metal alkoxide, alkali metal salts of an organic acid, alkali metal hydrides or alkali metals, more preferably sodium hydroxide, potassium hydroxide, potassium carbonate, potassium t-butoxide, sodium acetate, sodium formate, sodium hydride or sodium.

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, for example, water; alcohols such as methanol, ethanol, t-butanol, etc.; ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; or a mixed solvent of the above, preferably water, alcohols, nitriles, ethers, amides or sulfoxides, more preferably water, methanol, acetonitrile, tetrahydrofuran, dioxane, dimethylformamide or

dimethylsulfoxide.

The reaction temperature may vary depending on the starting compounds, reaction reagents and a kind of the solvent to be used, etc., and is generally -90°C to 200°C, preferably 0°C to 100°C.

The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and is usually 5 minutes to 24 hours, preferably 15 minutes to 6 hours.

Incidentally, in the present step, the compound (VI) may be used in the present step after making a salt by previously reacting with a base.

(Step A-4)

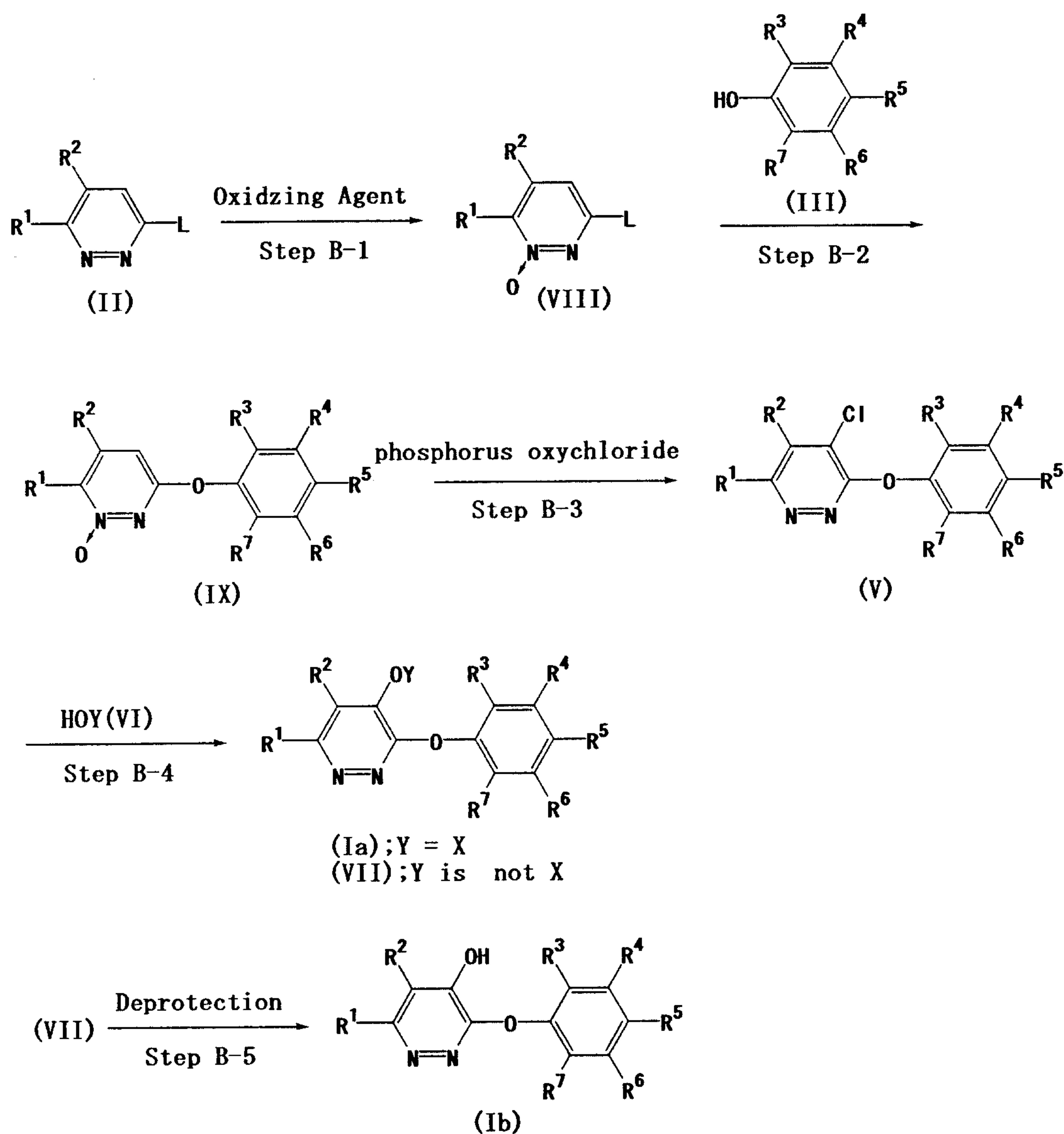
Step A-4 is a step to produce Compound (Ib) of the present invention by removing the protective group for a hydroxyl group of Compound (VII).

The protective group to be used in the present step is not specifically limited so long as it can selectively removed from Compound (VII) to provide Compound (Ib), and for example, it may be a methyl group, methoxymethyl group, benzyloxymethyl group, methoxyethoxymethyl group, 2-(trimethylsilyl)ethoxymethyl group, methylthiomethyl group, phenylthiomethyl group, 2,2-dichloro-1,1-difluoroethyl group, tetrahydropyranyl group, phenacyl group, p-bromophenacyl group, cyclopropylmethyl group, allyl group, isopropyl group, cyclohexyl group, t-butyl group, benzyl group, 2,6-dimethylbenzyl group, 4-methoxybenzyl group, 2-nitrobenzyl group, 2,6-dichlorobenzyl group, 4-(dimethylaminocarbonyl)benzyl group, 9-anthrylmethyl group, 4-picolyl group, heptafluoro-p-tolyl group or tetrafluoro-4-pyridyl group, preferably a methyl group, methoxymethyl group, methoxyethoxymethyl group, methylthiomethyl group, tetrahydropyranyl group, phenacyl group, allyl group or benzyl group, more preferably a methyl group.

A method for removing the protective group to be used

in the present step is not specifically limited so long as it can selectively remove the protective group for a hydroxyl group, and it can be carried out by the conventionally known method (for example, a method described in
5 Protective Groups in Organic Synthesis, 13th Edition, written by Theodora W. Greene and Peter G. M. Wuts, JOHN WILEY & SONS, INC.) with regard to the respective protective groups or in accordance with these methods. For example, when the protective group is a methyl group,
10 removal of the methyl group can be carried out, for example, by reacting with a potassium salt or sodium salt of 2-hydroxypyridine in dimethylsulfoxide, a sodium salt of ethanethiol in dimethylformamide, or boron tribromide in methylene chloride. For example, when the protective group
15 is a methoxymethyl group, removal of the methoxymethyl group can be carried out, for example, by reacting with trifluoroacetic acid. For example, when the protective group is a methoxyethoxymethyl group, removal of the methoxyethoxymethyl group can be carried out, for example,
20 by reacting with trifluoroacetic acid. Also, for example, when the protective group is a benzyl group, removal of the benzyl group can be carried out by catalytic hydrogenation.

(Step B)



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , L , X and Y have the same meanings as defined in the above.

Step B is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by oxidizing a pyridazine compound represented by the formula (II), reacting a phenol compound represented by the formula (III) to the resulting compound, then chlorinating the resulting compound, and further reacting an oxygen nucleophilic agent, or a step to produce Compound (Ib) of the present invention by removing the protective group of Compound (VII).

(Step B-1)

Step B-1 is a step to produce Pyridazine N-oxide represented by the formula (VIII) by oxidizing Compound
5 (II) with an oxidizing agent in the presence or absence of a solvent.

The oxidizing agent to be used is not specifically limited so long as it can convert an amine into an N-oxide, and for example, it may be peroxides such as m-chloro-
10 perbenzoic acid (mcpba), peracetic acid, pertrifluoroacetic acid, trifluoroacetic anhydride-hydrogen peroxide, peroxy-dichloromaleic acid, dichloromaleic acid-hydrogen peroxide, peroxymaleic acid, maleic acid-hydrogen peroxide, t-butylhydroperoxide, t-butylhydroperoxide-vanadium oxyacetyl-
15 acetate, t-butylhydroperoxide-molybdenum chloride, hydrogen peroxide, etc.; ozone; or oxygen, preferably m-chloroperbenzoic acid (mcpba), trifluoroacetic anhydride-hydrogen peroxide or dichloromaleic acid-hydrogen peroxide.

An amount of the oxidizing agent to be used in the
20 reaction is usually 0.5 to 100 mol, preferably 1 to 2 mol based on 1 mol of Compound (II).

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for
25 example, it may be water; alcohols such as methanol, ethanol, t-butanol, etc.; ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform,
30 dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; or a mixed solvent of the above, preferably
35 halogenated hydrocarbons, more preferably methylene chloride.

The reaction temperature may vary depending on the starting compounds, reaction reagents and solvents, etc., and is generally -90°C to 200°C , preferably 0°C to 100°C .

5 The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and usually 5 minutes to 24 hours, preferably 15 minutes to 6 hours.

10 According to the present step, an isomer in which other nitrogen atom is oxidized may be by-produced in some cases, and an objective Pyridazine N-oxide can be obtained by purifying the resulting materials after completion of the present step, or carrying out the subsequent steps in a state of admixture and by purifying the resulting materials after completion of the step.

15

(Step B-2)

Step B-2 is a step to produce a phenoxy pyridazine compound represented by the formula (IX) by reacting Compound (VIII) with Compound (III) in the presence or
20 absence of a solvent, and if necessary, in the presence of a base.

The present step can be carried out in accordance with Step A-1.

25

(Step B-3)

Step B-3 is a step to produce Compound (V) by reacting Compound (IX) with phosphorus oxychloride in the presence or absence of a solvent.

30 An amount of the phosphorus oxychloride to be used in the present step is generally 0.5 to 100 mol, preferably 1 to 5 mol based on 1 mol of Compound (IX).

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for
35 example, it may be ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters

such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides
5 such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; aliphatic hydrocarbons such as hexane, cyclohexane, etc.; or a mixed solvent of the above, preferably halogenated hydrocarbons, more preferably methylene chloride or chloroform.

10 The reaction temperature may vary depending on the starting compounds, reaction reagents and solvents, etc., and is generally -90°C to 200°C, preferably 0°C to 100°C.

 The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents
15 and a kind of the solvent to be used, and usually 5 minutes to 72 hours, preferably 30 minutes to 24 hours.

(Step B-4)

 Step B-4 is a step to produce Compound (Ia) of the
20 present invention or a compound represented by the formula (VII) , in which a hydroxyl group is protected, by reacting Compound (V) with an oxygen nucleophilic agent represented by the formula (VI) in the presence or absence of a solvent, and if necessary, in the presence of a base.

25 The present step is similar to Step A-3.

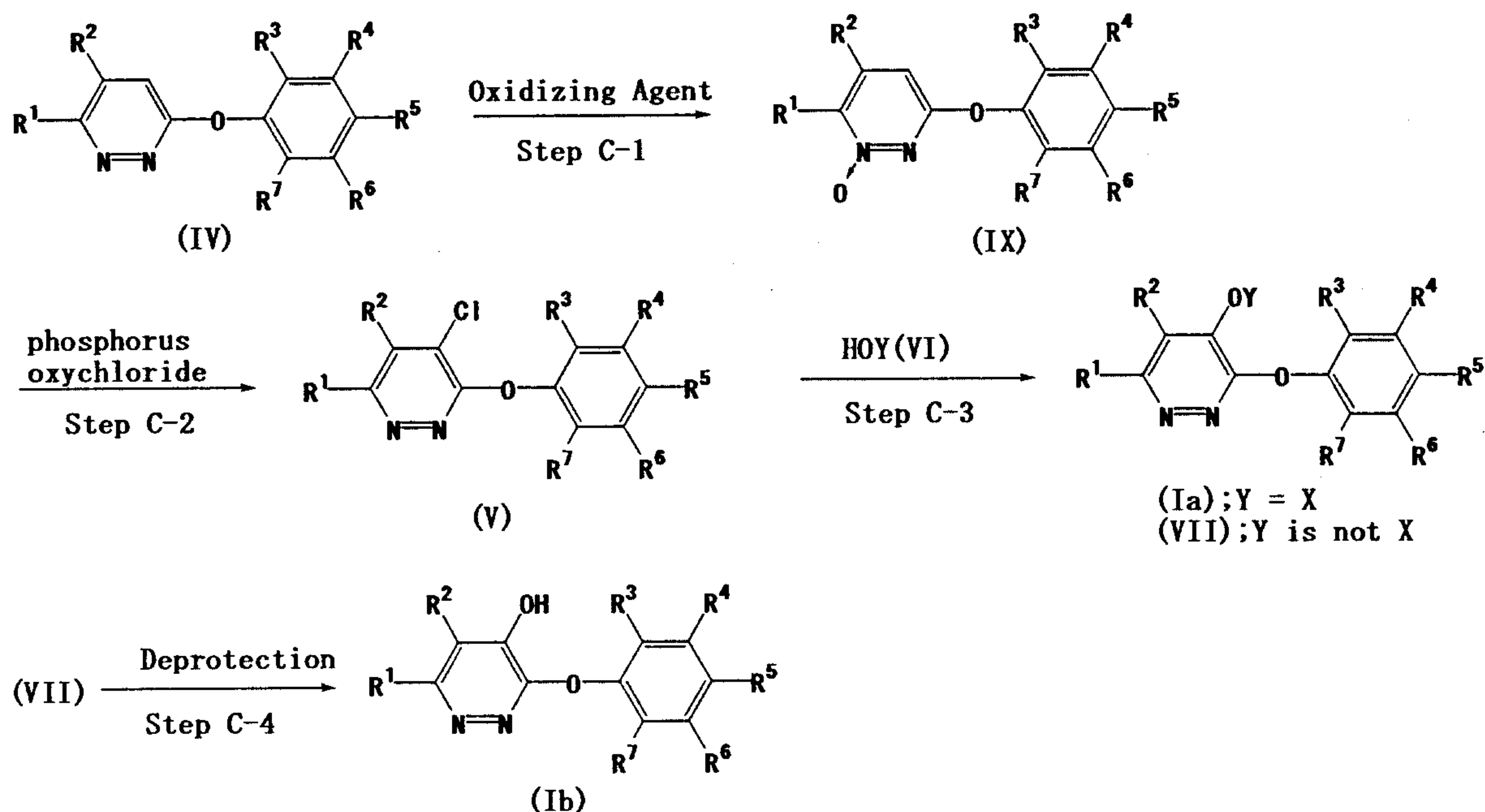
(Step B-5)

 Step B-5 is a step to produce Compound (Ib) of the present invention by removing the protective group for a
30 hydroxyl group of Compound (VII).

 The present step is similar to Step A-4.

(Step C)

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In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , X and Y have the same meanings as defined in the above.

5 Step C is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by oxidizing Compound (IV), then chlorinating the resulting material, and then reacting the same with an oxygen
 10 nucleophilic agent, and further a step to produce Compound (Ib) of the present invention by removing the protective group of Compound (VII).

(Step C-1)

15 Step C-1 is a step to produce Pyridazine N-oxide represented by the formula (IX) by oxidizing Compound (IV) with an oxidizing agent in the presence or absence of a solvent.

The present step can be carried out in accordance with Step B-1.

20

(Step C-2)

Step C-2 is a step to produce Compound (V) by reacting Compound (IX) with phosphorus oxychloride in the presence or absence of a solvent.

The present step is similar to Step B-3.

(Step C-3)

Step C-3 is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by reacting Compound (V) with an oxygen nucleophilic agent represented by the formula (VI) in the presence or absence of a solvent, and if necessary, in the presence of a base.

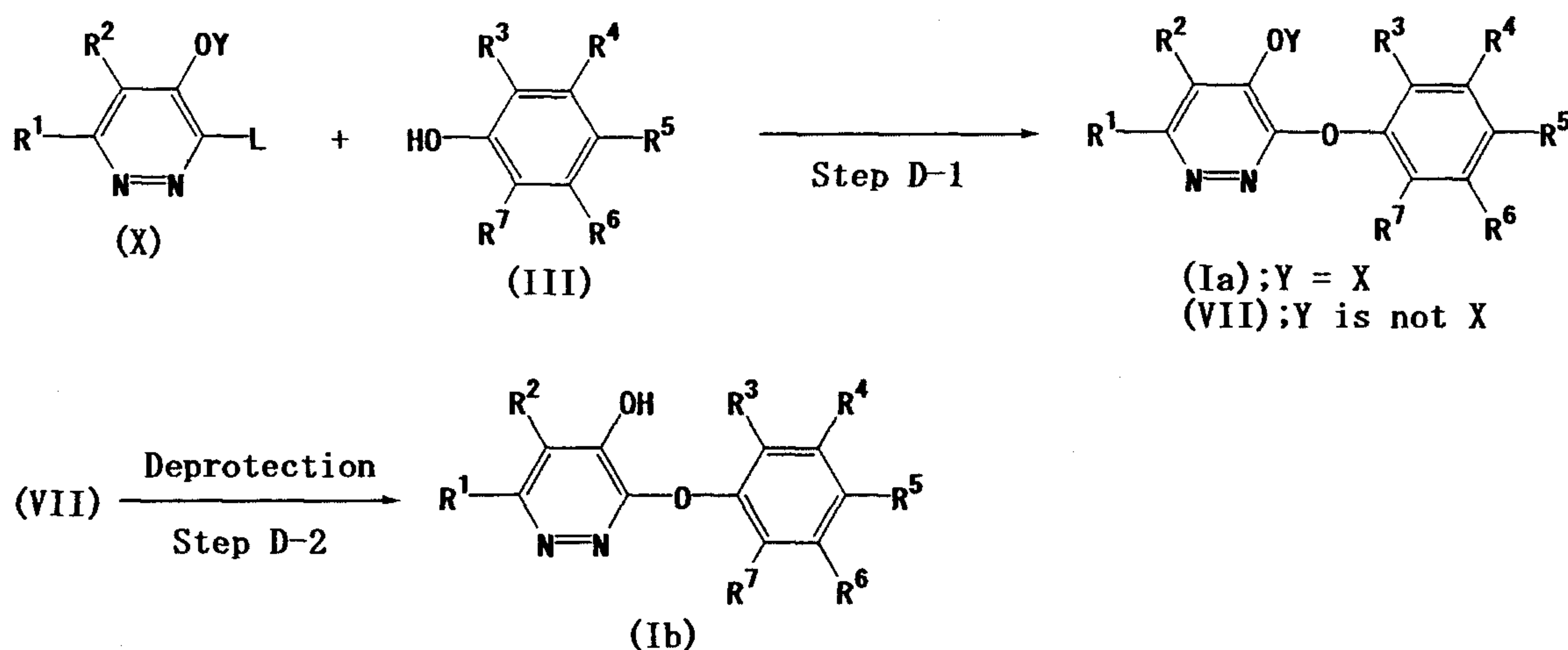
The present step is similar to Step A-3 or B-4.

(Step C-4)

Step C-4 is a step to produce Compound (Ib) of the present invention by removing the protective group for a hydroxyl group of Compound (VII).

The present step is similar to Step A-4 or B-5.

(Step D)



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , L , X and Y have the same meanings as defined above.

Step D is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by reacting a pyridazine compound represented by the formula (X), into which an oxygen functional group has previously been

substituted, with a phenol represented by the formula (III), and further a step to produce Compound (Ib) of the present invention by removing the protective group of Compound (VII).

5

(Step D-1)

Step D-1 is a step to produce Compound (Ia) of the present invention or a compound represented by the formula (VII), in which a hydroxyl group is protected, by reacting
10 Compound (X) with Compound (III) in the presence or absence of a solvent, and if necessary, in the presence of a base.

The present step can be carried out in accordance with Step A-1 or B-2.

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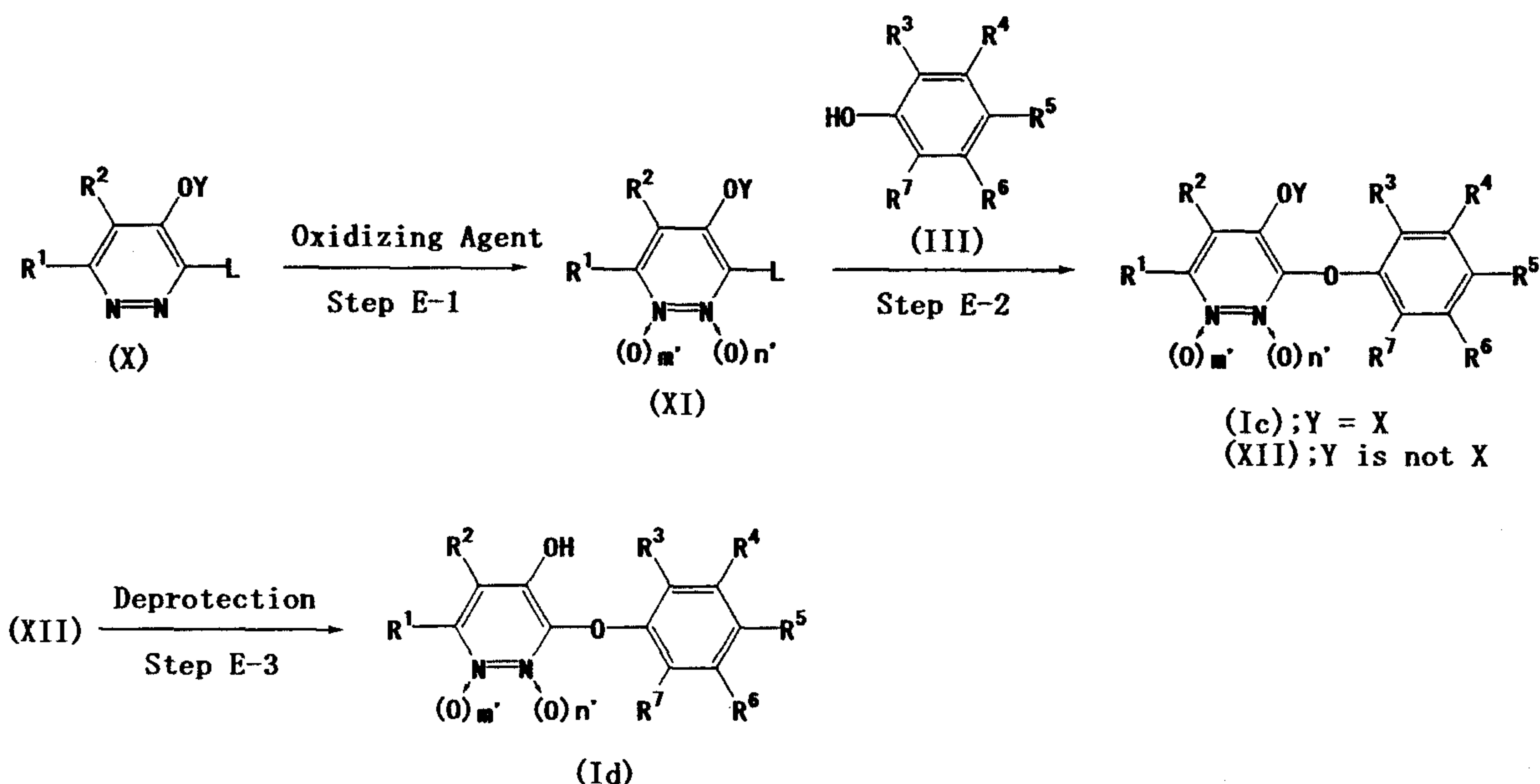
(Step D-2)

Step D-2 is a step to produce Compound (Ib) of the present invention by removing the protective group for a hydroxyl group for Compound (VII).

The present step is similar to Step A-4, B-5 or C-4.

20

(Step E)



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , L , X

and Y have the same meanings as defined above,
m' and n' each represent 0 or 1, provided that m' and n'
are not simultaneously 0.

Step E is a step to produce Compound (Ic) of the
5 present invention or a compound represented by the formula
(XII) , in which a hydroxyl group is protected, by
oxidizing a pyridazine compound to which an oxygen
functional group has previously been substituted
represented by the formula (X), and then reacting a phenol
10 represented by the formula (III), and further a step to
produce Compound (Id) of the present invention by removing
the protective group of Compound (XII).

(Step E-1)

15 Step E-1 is a step to produce Pyridazine N-oxide
represented by the formula (XI) by oxidizing Compound (X)
with an oxidizing agent in the presence or absence of a
solvent.

The present step can be carried out in accordance
20 with Step B-1 or C-1 in the case where m'=0 or n'=0, and
when m'=n'=1, it can be carried out under severer
conditions by making an amount of the oxidizing agent in
excess, by using an oxidizing agent having higher
reactivity to carry out the oxidation, and the like.

25

(Step E-2)

Step E-2 is a step to produce Compound (Ic) of the
present invention or a compound represented by the formula
(XII) , in which a hydroxyl group is protected, by reacting
30 Compound (XI) with Compound (III) in the presence or
absence of a solvent, and if necessary, in the presence of
a base.

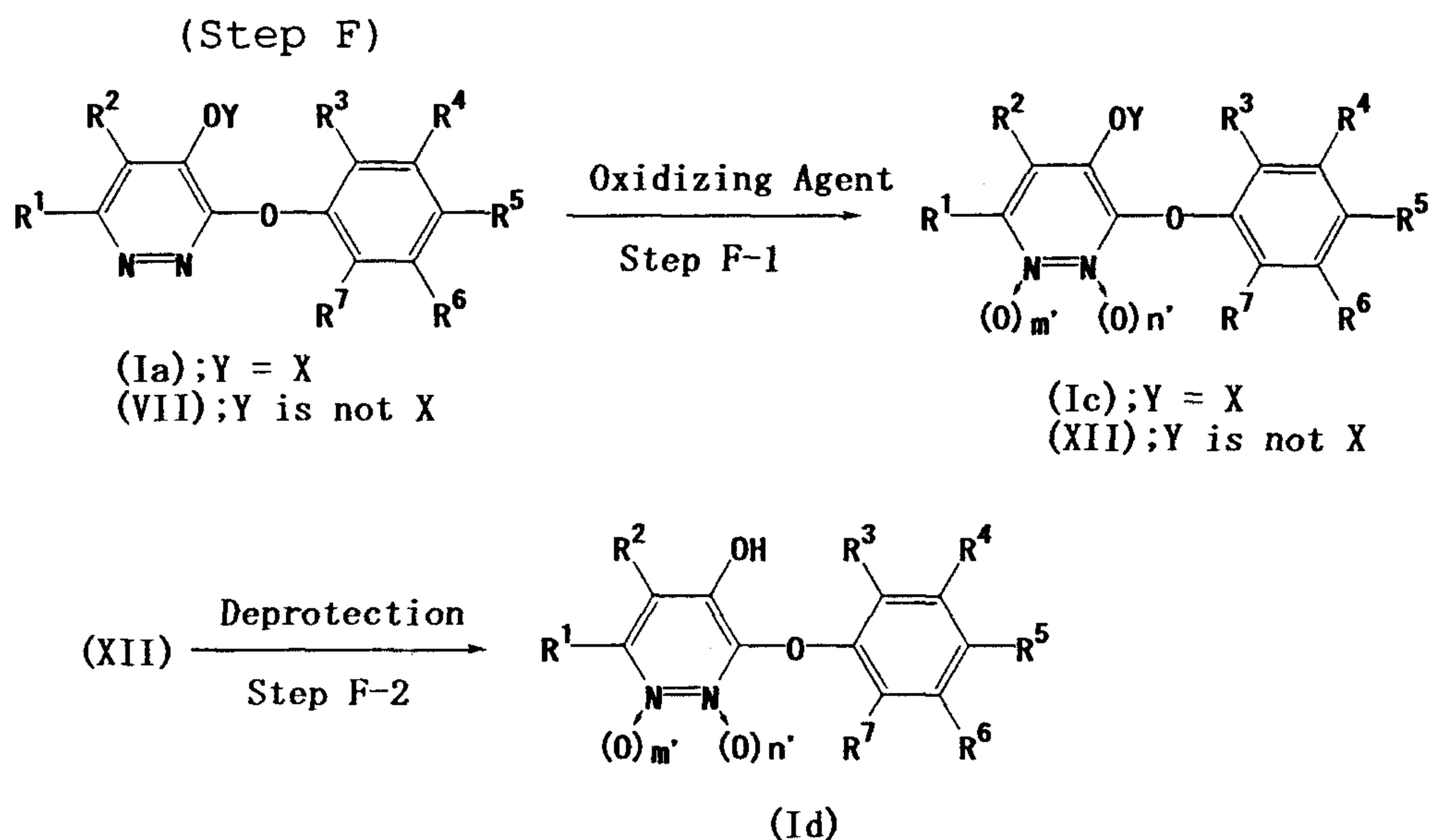
The present step can be carried out in accordance
with Step A-1, B-2 or D-1.

35

(Step E-3)

Step E-3 is a step to produce Compound (Id) of the present invention by removing the protective group for a hydroxyl group of Compound (XII).

The present step is similar to Step A-4, B-5, C-4 or
5 D-2.



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , X , Y ,
10 m' and n' have the same meanings as defined above.

Step F is a step to produce Compound (Ic) of the present invention or a compound represented by the formula (XII), in which a hydroxyl group is protected, by oxidizing Compound (Ia) of the present invention or a compound represented by the formula (VII) in which a hydroxyl group is protected, and further is a step to produce Compound (Id) of the present invention by removing the protective group of Compound (XII).

20 (Step F-1)

Step F-1 is a step to produce Compound (Ic) of the present invention or a compound represented by the formula (XII), in which a hydroxyl group is protected, by oxidizing Compound (Ia) of the present invention or Compound (VII) with an oxidizing agent in the presence or
25 absence of a solvent.

The present step can be carried out in accordance with Step E-1.

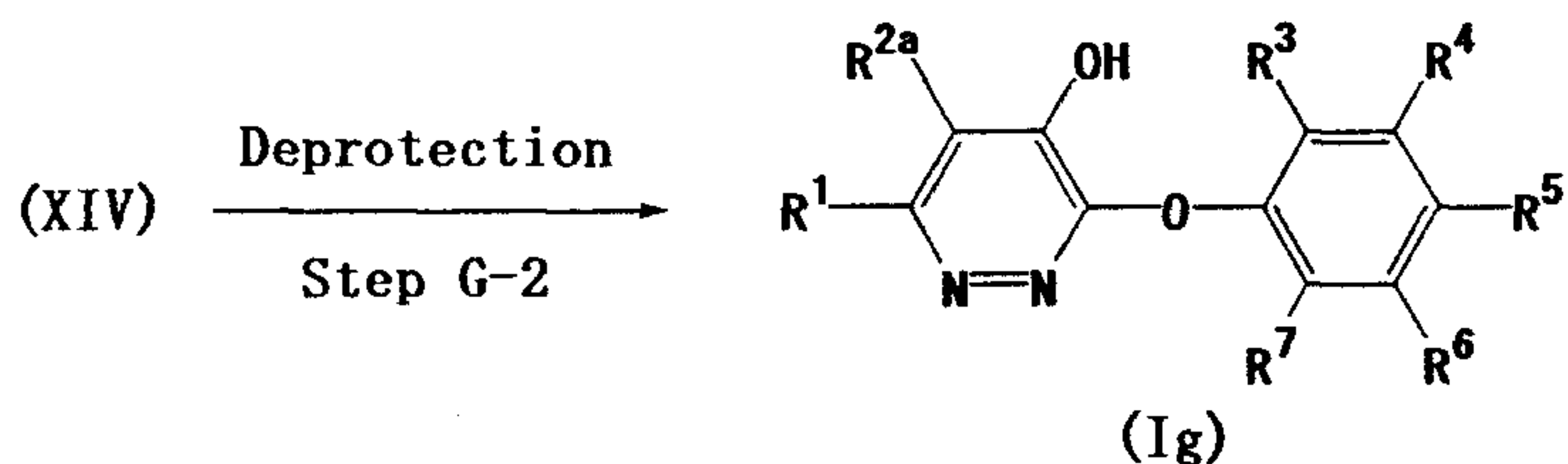
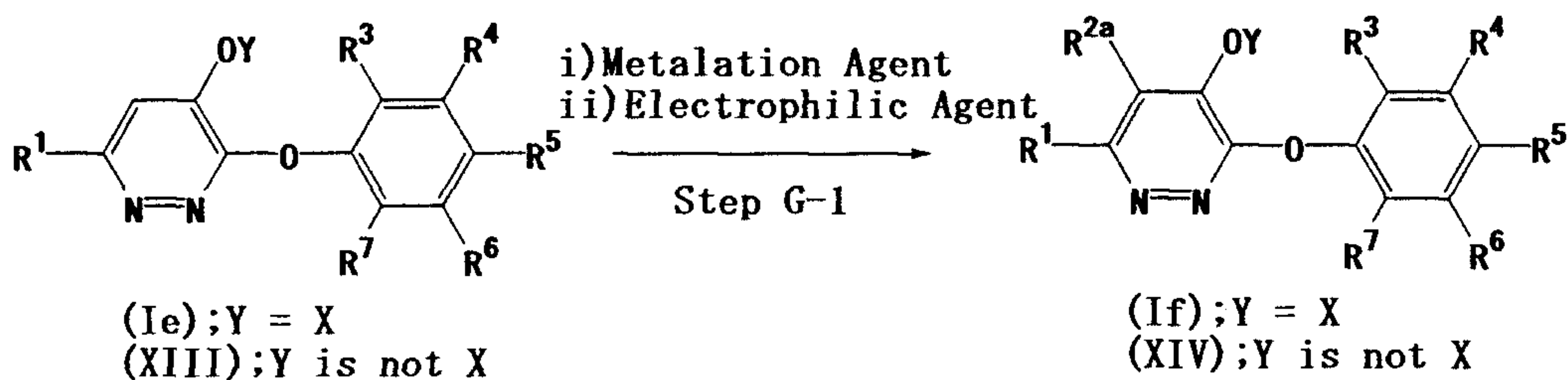
(Step F-2)

5 Step F-2 is a step to produce Compound (Id) of the present invention by removing the protective group for a hydroxyl group of Compound (XII).

The present step is similar to Step A-4, B-5, C-4, D-2 or E-3.

10

(Step G)



In the above formula, R^1 , R^3 , R^4 , R^5 , R^6 , R^7 , X and Y have the same meanings as defined above,

15 R^{2a} has the same meaning as R^2 except for removing a hydrogen atom.

Step G is a step to produce Compound (If) of the present invention or a compound represented by the formula (XIV), in which a hydroxyl group is protected, by
 20 subjecting the 5-position of the pyridazine ring of Compound (Ie) of the present invention or a compound represented by the formula (XIII), in which a hydroxyl group is protected, to metalation, and then reacting an electrophilic agent to the resulting material, and further
 25 is a step to produce Compound (Ig) of the present invention by removing the protective group of Compound (XIV).

(Step G-1)

Step G-1 is a step to produce Compound (If) of the present invention or a compound represented by the formula (XIV) , in which a hydroxyl group is protected, by reacting Compound (Ie) of the present invention or a compound represented by the formula (XIII) , in which a hydroxyl group is protected, with a metalating agent in the presence or absence of a solvent, and then, reacting with an electrophilic agent.

The metalating agent to be used is not specifically limited so long as it can metalate an aromatic ring, and for example, it may be organic lithium compounds such as methyl lithium, butyl lithium, s-butyl lithium, t-butyl lithium, phenyl lithium, etc.; organic magnesium compounds such as methyilmagnesium chloride, methyl magnesium bromide, ethyl magnesium bromide, phenylmagnesium bromide, etc.; organometal amides such as lithium diisopropylamide, sodium bis(trimethylsilyl)amide, lithium bis(trimethylsilyl)amide, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, potassium t-butoxide, etc.; alkali metal hydrides such as sodium hydride, potassium hydride, etc.; alkali metals such as lithium, sodium, potassium, etc.; alkaline earth metals such as magnesium, etc., preferably organic lithium compounds, more preferably butyl lithium.

An amount of the metalating agent to be used in the reaction is generally 0.5 to 10 mol, preferably 1 to 2 mol based on 1 mol of Compound (Ie) or Compound (XIII).

The electrophilic agent to be used in the reaction is not specifically limited so long as it can be an electrophilic agent capable of reacting with an organometallic compound, and for example, it may be silylating agents such as trimethylsilyl chloride, triethylsilyl chloride, t-butyldimethylsilyl chloride, trimethylsilyl trifluoromethane sulfonate, etc.; acylating agents such as acetyl chloride, benzoyl chloride, ethyl chlorocarbonate, methyl

chlorocarbonate, N,N-dimethylformamide, methyl formate, etc.; carbonyl compounds such as acetaldehyde, benzaldehyde, acetone, cyclohexanone, etc.; alkylating agents such as methyl iodide, methyl bromide, benzyl bromide, etc.;
5 halogenating agents such as fluorine, chlorine, bromine, iodine, N-fluorobenzene sulfonamide, 1-fluoro-2,6-dichloropyridinium triflate, N-chlorosuccinimide (NCS), N-bromosuccinimide (NBS), etc.; or carbon dioxide, preferably a silylating agent, acylating agent, alkylating agent or
10 halogenating agent, more preferably trimethylsilyl chloride, benzoyl chloride, ethyl chlorocarbonate or methyl iodide.

An amount of the electrophilic agent to be used in the reaction is generally 0.5 to 10 mol, preferably 1 to 3
15 mol based on 1 mol of Compound (Ie) or Compound (XIII).

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for example, it may be halogenated hydrocarbons such as
20 methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; aliphatic hydrocarbons such as hexane, cyclohexane, etc.; or a mixed solvent of the above, preferably ethers, more
25 preferably tetrahydrofuran.

The reaction temperature may vary depending on starting materials, reaction reagents and a kind of the solvent to be used, etc., and usually -90°C to 100°C , preferably -70°C to 30°C .

30 The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and usually 5 minutes to 24 hours, preferably 30 minutes to 12 hours.

35 (Step G-2)

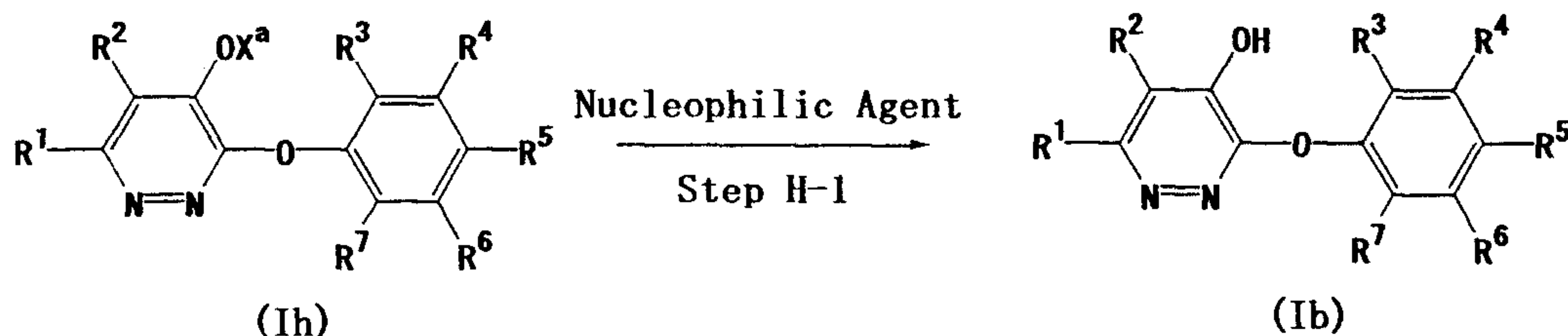
Step G-2 is a step to produce Compound (Ig) of the

present invention by removing the protective group for a hydroxyl group of Compound (XIV).

The present step is similar to Step A-4, B-5, C-4, D-2, E-3 or F-2.

5

(Step H)



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 and R^7 have the same meanings as defined above,

10 X^a represents the same meanings as X except for removing a hydrogen atom.

Step H is a step to convert an ester derivative represented by the formula (Ih) of the present invention into a hydroxy compound represented by the formula (Ib) of the present invention.

15

(Step H-1)

Step H-1 is a step to produce Compound (Ib) of the present invention by reacting Compound (Ih) of the present invention with a nucleophilic agent in the presence or absence of a solvent.

20

The nucleophilic agent to be used is not specifically limited so long as it can nucleophilically attack an ester derivative, and cleave the ester bonding to an acid portion and an alcohol portion, and for example, it may be water; hydroxides of an alkali metal such as lithium hydroxide, sodium hydroxide, potassium hydroxide, etc.; hydroxides of an alkaline earth metal such as magnesium hydroxide, calcium hydroxide, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, 2-hydroxypyridine potassium salt, 2-hydroxypyridine sodium salt, etc.; alkali metal salts of an organic acid such as sodium acetate, potassium

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acetate, sodium formate, potassium formate, etc.; fluorides such as tetrabutylammonium fluoride, potassium fluoride, etc.; chlorides such as lithium chloride, sodium chloride, etc.; bromides such as lithium bromide, sodium bromide, etc.; iodides such as sodium iodide, potassium iodide, etc.; or metal salts of a sulfur compound such as methanethiol sodium salt, ethanethiol sodium salt, etc., preferably water, hydroxides of an alkali metal, metal alkoxides or alkali metal salts of an organic acid, more preferably water, sodium hydroxide, potassium hydroxide or sodium acetate.

An amount of the nucleophilic agent to be used is generally 1 to 10 mol, preferably 1 to 5 mol based on 1 mol of Compound (Ih).

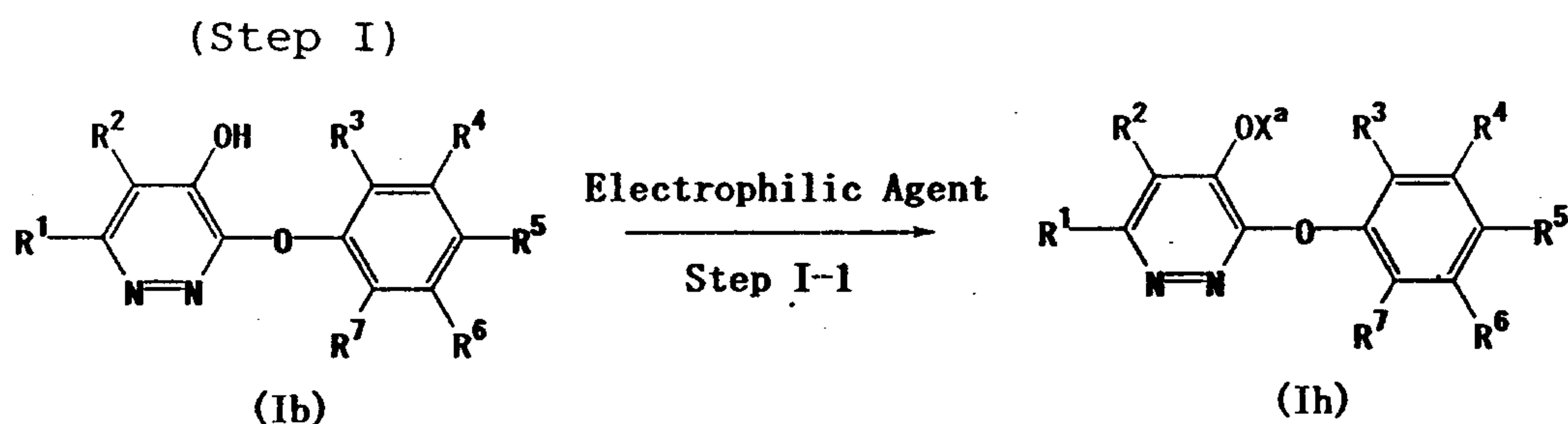
The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for example, it may be water; alcohols such as methanol, ethanol, t-butanol, etc.; ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; or a mixed solvent of the above, preferably water, alcohols, nitriles, ethers, amides or sulfoxides, more preferably water, methanol, ethanol, tetrahydrofuran, dioxane, dimethylformamide or dimethylsulfoxide.

The reaction temperature may vary depending on starting materials, reaction reagents and a kind of the solvent to be used, etc., and usually -90°C to 200°C , preferably 0°C to 100°C .

The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents

and a kind of the solvent to be used, and usually 5 minutes to 48 hours, preferably 15 minutes to 12 hours.

Incidentally, in the present step, a conventionally known method can be employed as usual deprotection of a hydroxyl group.



In the above formula, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 and X^a have the same meanings as defined above.

Step I is a step to convert the hydroxy compound represented by the formula (Ib) of the present invention into an ester derivative represented by the formula (Ih) of the present invention.

(Step I-1)

Step I-1 is a step to produce Compound (Ih) of the present invention by reacting Compound (Ib) of the present invention with an esterifying agent in the presence or absence of a solvent.

The esterifying agent to be used is not specifically limited so long as it can esterify a hydroxyl group, and for example, it may be acylating agents such as acetyl chloride, acetyl bromide, acetic anhydride, trifluoroacetic anhydride, benzoyl chloride, methyl chlorocarbonate, ethyl chlorocarbonate, N,N-dimethylcarbamoyle chloride, methyl chlorothioformate, etc.; or sulfonylating agents such as methanesulfonyl chloride, propanesulfonyl chloride, p-toluenesulfonyl chloride, trifluoromethanesulfonic acid anhydride, N,N-dimethylsulfamoyl chloride, etc., preferably acetyl chloride, acetic anhydride, trifluoroacetic anhydride, benzoyl chloride, methyl chlorocarbonate, ethyl

chlorocarbonate, methanesulfonyl chloride, propanesulfonyl chloride, p-toluenesulfonyl chloride or trifluoromethanesulfonic acid anhydride, more preferably benzoyl chloride, p-toluenesulfonyl chloride or trifluoromethanesulfonic acid anhydride.

An amount of the esterifying agent to be used in the reaction is generally 0.5 to 10 mols, preferably 1 to 3 mols based on 1 mol of Compound (Ib).

The reaction is preferably carried out in the presence of a base.

The base to be used is not specifically limited so long as it is a base showing a pH of 8 or more, and for example, it may be alkali metal hydroxides such as sodium hydroxide, potassium hydroxide, etc.; alkali metal carbonates such as sodium carbonate, potassium carbonate, cesium carbonate, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, potassium t-butoxide, etc.; alkali metal hydrides such as sodium hydride, potassium hydride, etc.; aliphatic tertiary amines such as triethylamine, tributylamine, diisopropylethylamine, etc.; aliphatic cyclic tertiary amines such as 1,4-diazabicyclo[2.2.2]octane (DABCO), 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), etc.; pyridines such as pyridine, collidine, 4-(N,N-dimethylamino)pyridine, etc.; or organic metal bases such as n-butyl lithium, s-butyl lithium, lithium diisopropylamide, sodium bis(trimethylsilyl)amide, lithium bis(trimethylsilyl)amide, etc., preferably aliphatic tertiary amines, aliphatic cyclic tertiary amines or pyridines, more preferably triethylamine, 1,4-diazabicyclo[2.2.2]octane (DABCO), pyridine or 4-(N,N-dimethylamino)pyridine.

An amount of the base to be used in the reaction is generally 0.5 to 20 mols, preferably 1 to 5 mols based on 1 mol of Compound (Ib).

The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves starting material(s) to a certain extent, and for

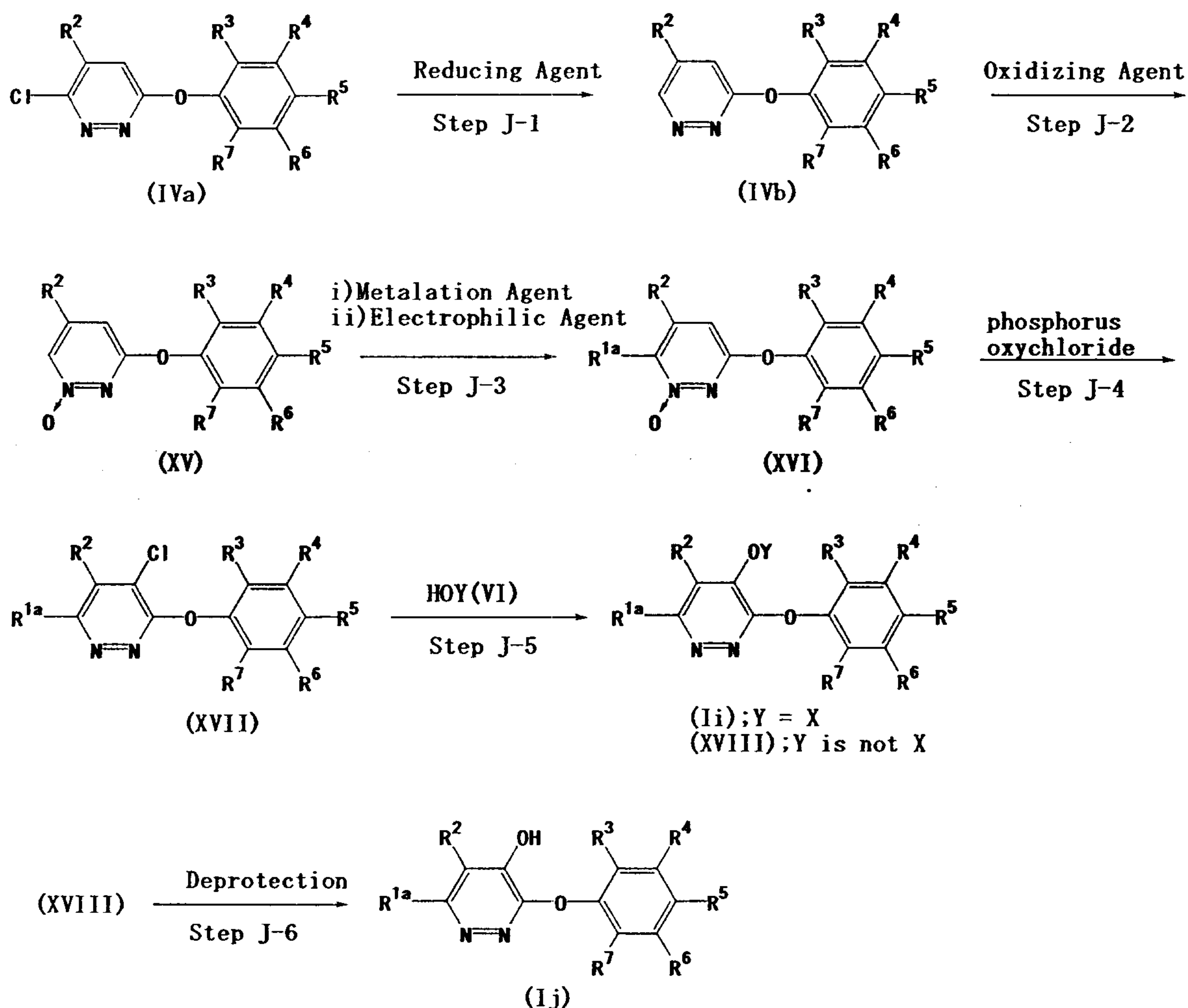
example, it may be ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters such as ethyl acetate, etc.; halogenated hydrocarbons such as methylene chloride, chloroform, dichloroethane, etc.;
5 ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; aliphatic hydrocarbons such as hexane, cyclohexane, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide, etc.; or a mixed
10 solvent of the above, preferably nitriles, halogenated hydrocarbons or ethers, more preferably acetonitrile or methylene chloride.

The reaction temperature may vary mainly depending on starting materials, reaction reagents and a kind of the
15 solvent to be used, and usually -90°C to 200°C , preferably 0°C to 100°C .

The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and usually 5 minutes
20 to 48 hours, preferably 15 minutes to 12 hours.

Incidentally, in the present step, a conventionally known method can be employed as usual protection of a hydroxyl group.

25 (Step J)



In the above formula, R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , X and Y have the same meanings as defined above,

- 5 R^{1a} has the same meaning as R^1 except for excluding a hydrogen atom.

Step J is a step to produce Compound (Ii) of the present invention or a compound represented by the formula (XVIII), in which a hydroxyl group is protected, by
 10 reducing, oxidizing and then metalating a 6-chloropyridazine derivative represented by the formula (IVa), and reacting the resulting material with an electrophilic agent to introduce a substituent on the 6-position of a pyridazine ring, and further subjecting to
 15 chlorination, and substitution reaction with an oxygen nucleophilic agent, and further, a step to produce Compound

(Ij) of the present invention by removing the protective group of Compound (XVIII).

(Step J-1)

5 Step J-1 is a step to produce Compound (IVb) in which R^1 in Compound (IV) is a hydrogen atom by reacting Compound (IVa) in which R^1 in Compound (IV) is a chlorine atom with a reducing agent in the presence or absence of a solvent.

10 The reducing agent to be used in the reaction is not specifically limited so long as it can reduce a chlorine atom on an aromatic ring, and for example, it may be a reducing agent to be used in a usual hydrogenation reaction, preferably hydrogen-palladium catalyst.

15 When the hydrogenation reaction is carried out in the present step, a hydrogen pressure is generally 1 atm to 100 atms, preferably 1 to 3 atms.

 An amount of the palladium to be used in the hydrogenation reaction is generally 0.001 to 10 mols, preferably 0.01 to 1 mol based on 1 mol of Compound (IVa).

20 The hydrogenation reaction is preferably carried out in the presence of a base.

 The base to be used is not specifically limited so long as it is a base showing a pH of generally 8 or more, and for example, alkali metal hydroxides such as sodium
25 hydroxide, potassium hydroxide, etc.; alkali metal carbonates such as sodium carbonate, potassium carbonate, cesium carbonate, etc.; metal alkoxides such as sodium methoxide, sodium ethoxide, potassium t-butoxide, etc.; alkali metal hydrides such as sodium hydride, potassium
30 hydride, etc.; aqueous ammonia; aliphatic tertiary amines such as triethylamine, tri-n-butylamine, diisopropyl-ethylamine, etc.; aliphatic cyclic tertiary amines such as 1,4-diazabicyclo[2.2.2]octane (DABCO), 1,8-diazabicyclo-[5.4.0]undec-7-ene (DBU), etc.; pyridines such as pyridine,
35 collidine, 4-(N,N-dimethylamino)pyridine, etc.; or organo-metallic bases such as butyl lithium, s-butyl lithium,

lithium diisopropylamide, sodium bis(trimethylsilyl)amide, lithium bis(trimethylsilyl)amide, etc., preferably aqueous ammonia or aliphatic tertiary amines, more preferably aqueous ammonia or triethylamine.

5 An amount of the base to be used in the reaction is generally 0.1 to 100 mols, preferably 1 to 3 mols based on 1 mol of Compound (IVa).

 The solvent to be used is not specifically limited so long as it does not inhibit the reaction, and dissolves
10 starting material(s) to a certain extent, and for example, it may be water; alcohols such as methanol, ethanol, t-butanol, etc.; ketones such as acetone, methyl isobutyl ketone, etc.; nitriles such as acetonitrile, etc.; esters such as ethyl acetate, etc.; halogenated hydro-
15 carbons such as methylene chloride, chloroform, dichloroethane, etc.; ethers such as diethyl ether, tetrahydrofuran, dioxane, etc.; aromatic hydrocarbons such as toluene, etc.; amides such as dimethylformamide, dimethylacetamide, etc.; sulfoxides such as dimethylsulfoxide,
20 etc.; aliphatic hydrocarbons such as hexane, cyclohexane, etc.; or a mixed solvent of the above, preferably alcohols, more preferably methanol or ethanol.

 The reaction temperature may vary mainly depending on starting materials, reaction reagents and a kind of the
25 solvent to be used, and usually -90°C to 200°C, preferably 0°C to 100°C.

 The reaction time may vary mainly depending on a reaction temperature, starting materials, reaction reagents and a kind of the solvent to be used, and usually 5 minutes
30 to 48 hours, preferably 15 minutes to 12 hours.

(Step J-2)

 Step J-2 is a step to produce Pyridazine N-oxide represented by the formula (XV) by oxidizing Compound (IVb)
35 with an oxidizing agent in the presence or absence of a solvent.

The present step can be carried out in accordance with Step B-1 or C-1.

(Step J-3)

5 Step J-3 is a step to produce Compound (XVI) of the present invention by reacting Compound (XV) with a metalating agent in the presence or absence of a solvent, and then, reacting with an electrophilic agent.

10 The present step can be carried out in accordance with Step G-1.

(Step J-4)

15 Step J-4 is a step to produce Compound (XVII) by reacting Compound (XVI) with phosphorus oxychloride in the presence or absence of a solvent.

The present step is similar to Step B-3 or C-2.

(Step J-5)

20 Step J-5 is a step to produce Compound (Ii) of the present invention or a compound represented by the formula (XVIII) , in which a hydroxyl group is protected, by reacting Compound (XVII) with an oxygen nucleophilic agent represented by the formula (VI) in the presence or absence of a solvent, and if necessary, in the presence of a base.

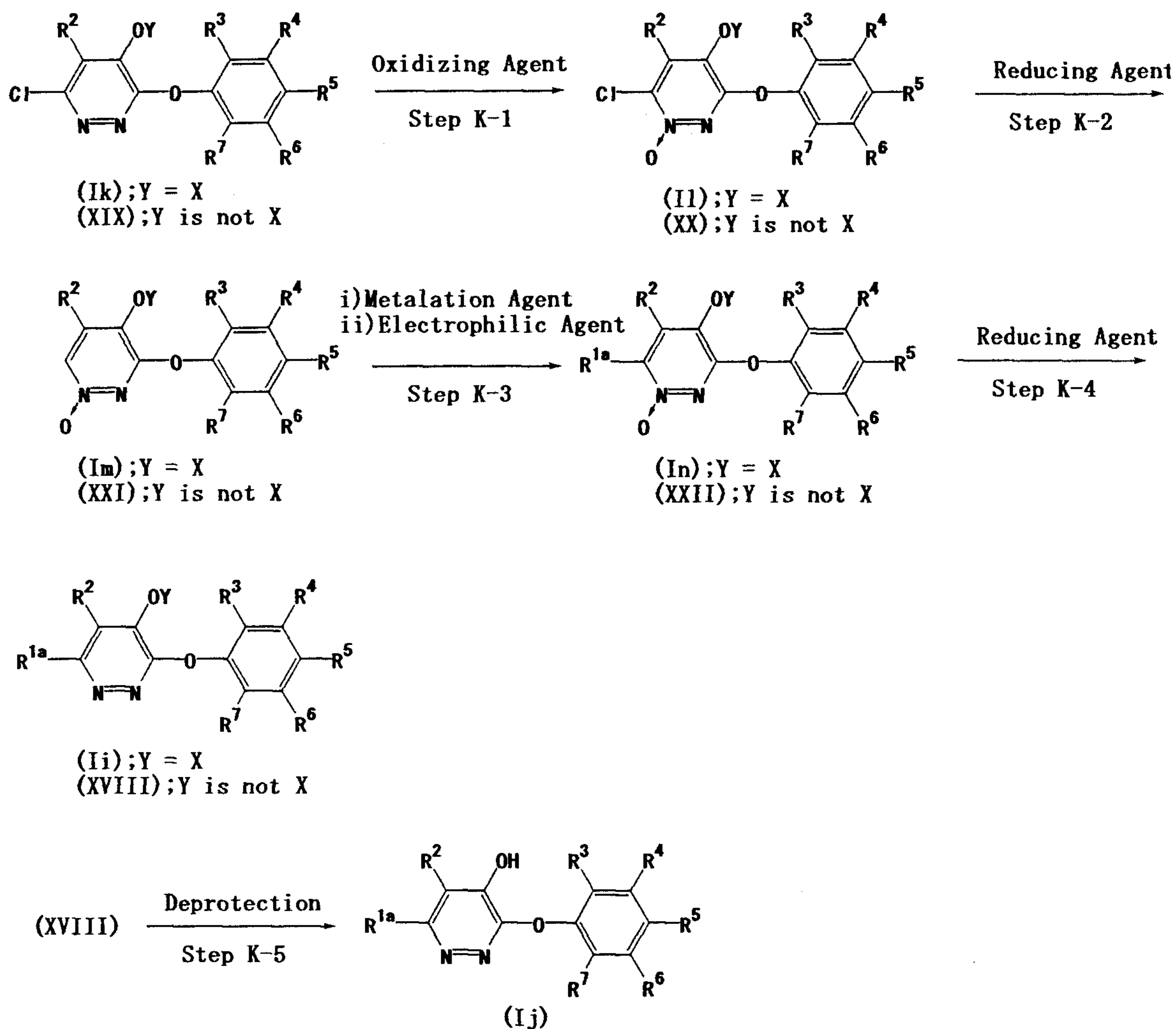
25 The present step is similar to Step A-3, B-4 or C-3.

(Step J-6)

30 Step J-6 is a step to produce Compound (Ij) of the present invention by removing the protective group for a hydroxyl group of Compound (XVIII).

The present step is similar to Step A-4, B-5, C-4, D-2, E-3, F-2 or G-2.

(Step K)



In the above formula, R^{1a} , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , X and Y have the same meanings as defined above.

- 5 Step K is a step to produce Compound (Ii) of the present invention or a compound represented by the formula (XVIII), in which a hydroxyl group is protected, by oxidizing, dechlorinating and then metalating 6-chloro-pyridazine derivative represented by the formula (Ik) of the present invention or a 6-chloropyridazine derivative represented by the formula (XIX) in which a hydroxyl group is protected, then introducing an electrophilic agent and finally reducing the resulting material, and further a step to produce Compound (Ij) of the present invention by removing the protective group of Compound (XVIII).
- 10
- 15

(Step K-1)

Step K-1 is a step to produce a N-oxypyridazine compound represented by the formula (II) or (XX) by oxidizing Compound (Ik) or Compound (XIX) with an oxidizing agent in the presence or absence of a solvent.

The present step can be carried out in accordance with Step B-1, C-1 or J-2.

(Step K-2)

Step K-2 is a step to produce a N-oxide compound (Im) or (XXI), in which the 6-position of the pyridazine ring is a hydrogen atom, by reacting a N-oxide compound (II) or (XX), in which the 6-position of the pyridazine ring is a chlorine atom, with a reducing agent in the presence or absence of a solvent.

The present step can be carried out in accordance with Step J-1.

(Step K-3)

Step K-3 is a step to produce Compound (In) of the present invention or a compound represented by the formula (XXII), in which a hydroxyl group is protected, by reacting Compound (Im) or (XXI) with a metalating agent in the presence or absence of a solvent, and then, reacting with an electrophilic agent.

The present step can be carried out in accordance with Step G-1 or J-3.

(Step K-4)

Step K-4 is a step to produce Compound (Ii) of the present invention or a compound represented by the formula (XVIII), in which a hydroxyl group is protected, by reacting a N-oxide derivative represented by the formula (In) or (XXII) with phosphorus trichloride or phosphorus tribromide in the presence or absence of a solvent.

An amount of the phosphorus trichloride or phosphorus

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COMPREND PLUS D'UN TOME.**

CECI EST LE TOME __1__ DE __3__

NOTE: Pour les tomes additionels, veuillez contacter le Bureau Canadien des Brevets.

JUMBO APPLICATIONS / PATENTS

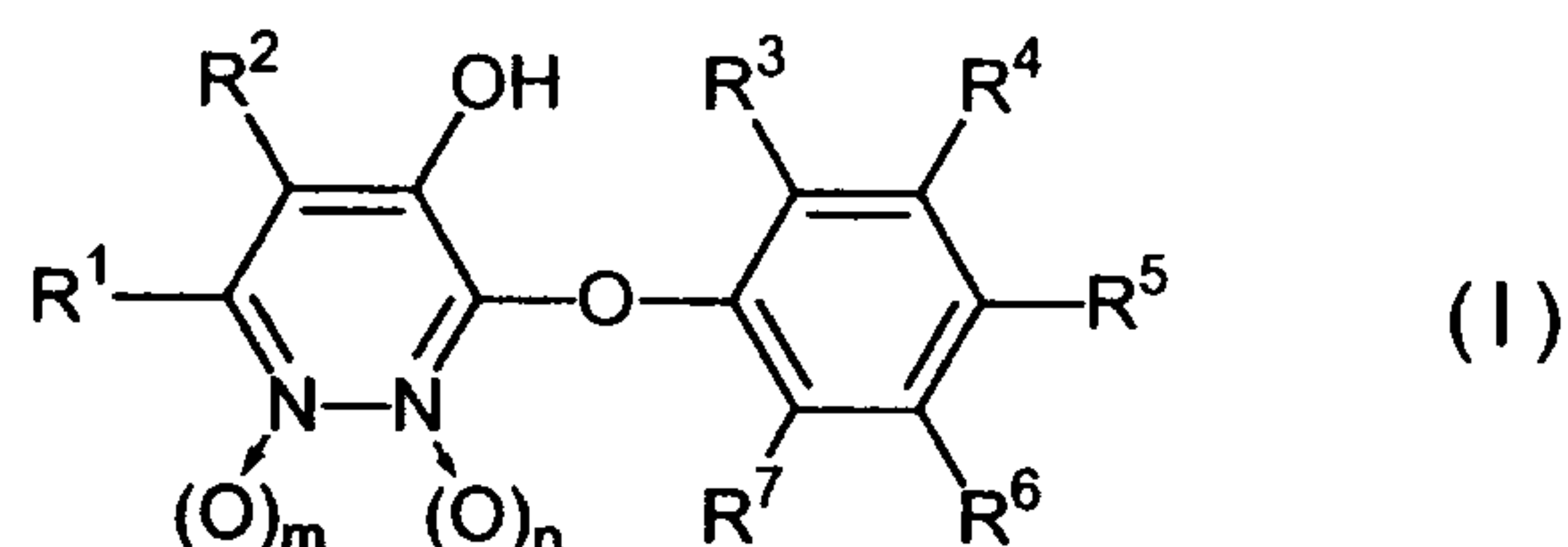
**THIS SECTION OF THE APPLICATION / PATENT CONTAINS MORE
THAN ONE VOLUME.**

THIS IS VOLUME __1__ OF __3__

NOTE: For additional volumes please contact the Canadian Patent Office.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A compound represented by the formula:



wherein R^1 represents:

- a hydrogen atom;
- a halogen atom;
- a C_1 to C_6 alkyl group;
- a C_1 to C_6 haloalkyl group;
- a C_3 to C_6 cycloalkyl group;
- a C_2 to C_6 alkenyl group;
- a cyano group;
- a C_2 to C_7 alkylcarbonyl group;
- a di(C_1 to C_6 alkyl)carbamoyl group;
- a phenyl group which may be substituted with:
 - a halogen atom, a C_1 to C_6 alkyl group, a C_1 to C_6 haloalkyl group, a C_3 to C_6 cycloalkyl group, a cyano group or a tri(C_1 to C_6 alkyl)silyl group;
- a 5- or 6-membered heterocyclic group wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atoms; wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranal, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group,
- a C_1 to C_6 alkoxy group,
- a phenoxy group which may be substituted with:
 - a halogen atom, a C_1 to C_6 alkyl group, a C_1 to C_6 haloalkyl group, a C_3 to C_6 cycloalkyl group, a cyano group or a tri(C_1 to C_6 alkyl)silyl group; or
 - a 5- or 6-membered heterocycloxy group which may be substituted, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl,

thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein the substituent is:

a benzoyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group; or

a C₁ to C₆ alkyl group;

R² represents:

a hydrogen atom;

a halogen atom;

a C₁ to C₆ alkyl group;

a (C₁ to C₆ alkoxy)C₁ to C₆ alkyl group;

a benzoyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a C₂ to C₇ alkoxycarbonyl group;

a phenoxy group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a phenylthio group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group; or

a tri(C₁ to C₆ alkyl)silyl group;

R³, R⁴, R⁵, R⁶ and R⁷ each independently represent:

a hydrogen atom;

a halogen atom;

a C₁ to C₆ alkyl group which may be substituted with:

a halogen atom, a C₃ to C₆ cycloalkyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxycarbonyl group, a phenyl group, a C₁ to C₆ alkoxy group, a C₁ to C₆ alkylthio group, a C₁ to C₆ alkylsulfinyl group, a C₁ to C₆ alkylsulfonyl group, a C₁ to C₄ alkylenedioxy group, a hydroxylimino group or a C₁ to C₆ alkoxyimino group;

a C₂ to C₆ alkenyl group which may be substituted with a cyano group or a nitro group;

a C₂ to C₆ alkynyl group;

a C₃ to C₆ cycloalkyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group which may be substituted with:

a halogen atom, a C₃ to C₆ cycloalkyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a phenyl group, a C₁ to C₆ alkoxy group, a C₁ to C₆ alkylthio group, a C₁ to C₆ alkylsulfinyl group, a C₁ to C₆ alkylsulfonyl group, a C₁ to C₄ alkylene-dioxy group, a hydroxyimino group or a C₁ to C₆ alkoxyimino group;

a C₃ to C₆ cycloalkyl group; a C₂ to C₆ alkenyl group; a cyano group; a C₂ to C₇ alkylcarbonyl group; a benzoyl group; a carboxyl group; a C₂ to C₇ alkoxy carbonyl group; a carbamoyl group; a di(C₁ to C₆ alkyl)carbamoyl group; a phenyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a 5 or 6-membered heterocyclic group wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atoms; wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group,

an amino group which may be substituted with:

a C₁ to C₆ alkyl group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a di(C₁ to C₆ alkyl)carbamoyl group or a C₁ to C₆ alkylsulfonyl group;

a nitro group; a hydroxyl group; a C₁ to C₆ alkoxy group; a C₁ to C₆ haloalkoxy group; a phenoxy group; a C₁ to C₆ alkylthio group; a phenylthio group; a C₁ to C₆ alkylsulfinyl group; or a C₁ to C₆ alkylsulfonyl group;

a C₄ to C₁₀ bicycloalkyl group;

a cyano group;

a formyl group;

a C₂ to C₇ alkylcarbonyl group;

a benzoyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a carboxyl group;

a C₂ to C₇ alkoxy-carbonyl group;

a carbamoyl group;

a di(C₁ to C₆ alkyl)carbamoyl group;

a phenyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a 3- to 6-membered heterocyclic group which may be substituted, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atoms, which may be fused with a benzene ring, wherein the heterocycle is an azetidiny, furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperidinyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein the substituent is:

a halogen atom; a C₁ to C₆ alkyl group; a C₁ to C₆ haloalkyl group; a hydroxyl group; a phenylsulfonyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group; or

a di(C₁ to C₆ alkyl)sulfamoyl group;

an amino group which may be substituted with:

a C₁ to C₆ alkyl group, a C₂ to C₇ alkyl-carbonyl group, a C₂ to C₇ alkoxy-carbonyl group, a di(C₁ to C₆ alkyl)carbamoyl group or a C₁ to C₆ alkylsulfonyl group;

a nitro group;

a hydroxyl group;

a C₁ to C₆ alkoxy group;

a C₁ to C₆ haloalkoxy group;

a (C₁ to C₆ alkoxy)C₁ to C₆ alkoxy group;

a phenoxy group which may be substituted with:

a hydroxyl group; or

a pyridazinyl group substituted by a halogen atom or a C₁ to C₆ alkoxy group;

a 5- to 6-membered heterocyclic oxy group which may be substituted, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl,

pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein the substituent is:

a halogen atom; a C₁ to C₆ alkyl group; a C₁ to C₆ haloalkyl group; a hydroxyl group; a phenylsulfonyl group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group; or a di(C₁ to C₆ alkyl)sulfamoyl group;

a phenylsulfonyloxy group which may be substituted with:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₆ haloalkyl group, a C₃ to C₆ cycloalkyl group, a cyano group or a tri(C₁ to C₆ alkyl)silyl group;

a C₁ to C₆ alkylthio group;

a C₁ to C₆ alkylsulfinyl group;

a C₁ to C₆ alkylsulfonyl group; or

a tri(C₁ to C₆ alkyl)silyl group; or

R³, R⁴, R⁵, R⁶ and R⁷ may form a 3- to 6-membered cyclic hydrocarbon group which may be substituted, wherein the group is formed by the adjacent two of R³ to R⁷ with carbon atoms to which the respective substituents are bonded, wherein the cyclic hydrocarbon may be interrupted by the same or different 1 or 2 hetero atoms each of which is a nitrogen atom, an oxygen atom or a sulfur atom, wherein the heterocycle is an azetidine, furan, dihydrofuran, 1,3-dioxole, 2,3-dihydro- 1,4-dioxine, thiophene, pyrrolidine, pyrrole, pyrazole, imidazole, isoxazole, oxazole, isothiazole, thiazole, triazole, 1,2,3-thiadiazole, piperidine, piperadine, morpholine, thiomorpholine, tetrahydro-2H-pyran, pyran, pyridine, pyrazine, pyrimidine, pyridazine or triazine group, and wherein the substituent is a halogen atom, a C₁ to C₆ alkyl group, a hydroxy-C₁ to C₆ alkyl group, a C₁ to C₆ alkoxy group, an oxo group, a hydroxyimino group or a C₁ to C₆ alkoxyimino group, and when the C₁ to C₆ alkyl group is substituted, it may form another 3-membered ring by combining with the other C₁ to C₆ alkyl group or a carbon atom(s) in the cyclic hydrocarbon; and

m and n each independently represent 0 or 1;

or a salt thereof or an ester derivative thereof;

and the ester derivative is a compound in which a group bonded to the oxygen atom of the hydroxyl group at the 4-position of the pyridazine ring is:

a C₂ to C₁₅ alkylcarbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkoxy group, a C₂ to C₇ alkoxy carbonyl group, a C₂ to C₆ alkenyloxy carbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a C₃ to C₆ cycloalkyl group, a cyano group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a C₃ to C₆ cycloalkenyloxy carbonyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:

an oxo group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a 5 or 6-membered heterocyclic oxycarbonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperidinyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyloxy group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a phenyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a phenoxy group or a C₁ to C₆ alkylthio group;

- a C₄ to C₇ cycloalkylcarbonyl group;
- an adamantylcarbonyl group;
- a C₃ to C₇ alkenylcarbonyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:
 - a halogen atom or a phenyl group;
- a C₃ to C₇ alkynylcarbonyl group;
- a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a halogen atom, a C₁ to C₆ alkyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a halogen atom or a phenyl group;
 - a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a C₃ to C₇ alkenyloxy carbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a C₃ to C₆ cycloalkyl group, a cyano group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;
 - a C₄ to C₇ cycloalkenyloxy carbonyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:
 - an oxo group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;
 - a phenyl group, a nitro group, a C₁ to C₆ alkoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:
 - a halogen atom and a phenyl group;
 - a phenoxy group, a 5 or 6-membered heterocyclic oxycarbonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperidinyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranal, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group,

and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group and a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyl group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group; or

a 5 or 6-membered heterocyclic oxysulfonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperidinyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyl group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a naphthyl group;

a 3- to 6-membered heterocyclic carbonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, or may form a 5- to 6-membered spiro ring containing 1 or 2 oxygen atoms on an optional carbon atom in the heterocycle, wherein the heterocycle is an azetidinyl, furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperidinyl, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom or a phenyl group;

a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a phenyl group which may be substituted by 1 to 3 halogen atoms, a nitro group, a hydroxyl group, a C₁ to C₆ alkoxy group, a phenoxy group, a C₁ to C₆ alkylthio group, a C₂ to C₆ alkenylthio group or a phenylthio group;

a 7 to 14-membered fused bi- or tri-cyclic heterocyclic carbonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms or oxygen atoms, wherein the heterocycle is a benzofuranyl, benzothienyl, benzothiazolyl, benzodioxolyl, isoquinolyl, 3,4-dihydro-2(1H)-isoquinolyl, carbazolyl or phenothiazinyl group, and wherein each substituent is:

a halogen atom or a C₁ to C₆ alkyl group;

a 5 or 6-membered heterocycle carbonylcarbonyl group, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms; wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadyl, morpholyl, thiomorpholyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group,

a C₂ to C₇ alkoxy carbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkoxy group or a phenyl group;

a C₃ to C₇ alkenyloxy carbonyl group;

a phenoxycarbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a cyano group, a C₂ to C₇ alkylcarbonyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₆ alkoxy group;

a fused polycyclic hydrocarbyloxy carbonyl group;

a 5 or 6-membered heterocyclic oxycarbonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadyl, morpholyl, thiomorpholyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyl group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a carbamoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a C₁ to C₆ alkyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₂ to C₇ alkoxy carbonyl group, a cyano group, a phenyl group or a C₁ to C₆ alkoxy group;

a C₃ to C₆ alkenyl group, a phenyl group, a C₂ to C₇ alkyl carbonyl group, a C₂ to C₇ alkoxy carbonyl group or a C₁ to C₆ alkoxy group;

a (C₁ to C₆ alkylthio)carbonyl group;

a (phenylthio)carbonyl group;

a C₁ to C₈ alkylsulfonyl group which may be substituted (the substituent is the same or different 1 to 3 halogen atoms);

a phenylsulfonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a cyano group, a C₂ to C₇ alkyl carbonyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group, a C₁ to C₆ alkoxy group, a C₂ to C₆ alkenyloxysulfonyl group which may be substituted by 1 to 3 substituents selected from the group consisting of a C₃ to C₆ cycloalkyl group, a cyano group and a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a C₃ to C₆ cycloalkenyloxysulfonyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:

an oxo group and a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkyl-

sulfonyl group; or

a 5 or 6-membered heterocyclic oxysulfonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyl oxy group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group and a C₁ to C₃ alkylsulfonyl group;

a 5 or 6-membered heterocyclic oxysulfonyl group which may be substituted by 1 to 3 substituents, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyranyl, pyranyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a phenoxy group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₃ to C₆ cycloalkyl group or a C₂ to C₇ alkoxy carbonyl group;

a 2,3-dihydro-1H-indenyl oxy group or a benzoyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a halogen atom, a C₁ to C₆ alkyl group, a C₁ to C₃ haloalkyl group, a C₂ to C₇ alkoxy carbonyl group, a nitro group or a C₁ to C₃ alkylsulfonyl group;

a di(C₁ to C₆ alkyl)sulfamoyl group;

a C₁ to C₆ alkoxy sulfonyl group;

a di(C₁ to C₆ alkyl)phosphoryl group;

a tri(C₁ to C₆ alkyl)silyl group; or
a triphenylsilyl group.

2. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R¹ is:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

a C₁ to C₃ alkyl group;

a C₁ to C₃ haloalkyl group wherein the halogen atom is 1 to 3 fluorine atom;

a cyclopropyl group;

a C₂ to C₃ alkenyl group;

a cyano group;

a C₂ to C₄ alkylcarbonyl group;

a di(C₁ to C₃ alkyl)carbamoyl group;

a phenyl group which may be substituted with 1 or 2 substituents, wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group;

a furyl group;

a thienyl group;

a C₁ to C₃ alkoxy group;

a phenoxy group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group wherein the halogen atom is 1 to 3 fluorine atoms, a cyclopropyl group, a cyano group or a tri(C₁ to C₃ alkyl)silyl group; or

a substituted pyrazolyloxy group wherein the substituent is a benzoyl group which is substituted by two chlorine atoms and two C₁ to C₃ alkyl groups.

3. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R¹ is a chlorine atom, a bromine atom, a trifluoromethyl group or a cyano group.

4. A compound, a salt thereof or an ester derivative thereof according to claim 1,

wherein R^1 is a chlorine atom or a bromine atom.

5. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R^1 is a chlorine atom.

6. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 5, wherein R^2 is:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C_1 to C_3 alkyl group;

a (C_1 to C_3 alkoxy) C_1 to C_3 alkyl group;

a benzoyl group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C_1 to C_3 alkyl)silyl group;

a C_2 to C_4 alkoxy carbonyl group;

a phenoxy group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C_1 to C_3 alkyl)silyl group;

a phenylthio group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_1 to C_3 haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C_1 to C_3 alkyl)silyl group; or

a tri(C_1 to C_3 alkyl)silyl group.

7. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 5, wherein R^2 is a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethoxycarbonyl group or a trimethylsilyl group.

8. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 5, wherein R^2 is a hydrogen atom.

9. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 8, wherein R^3 , R^4 , R^5 , R^6 and R^7 each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C_1 to C_4 alkyl group which may be substituted with 1 to 3 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_3 to C_4 cycloalkyl group, a C_1 to C_3 alkylthio group or a C_1 to C_3 alkoxyimino group;

a C_2 to C_3 alkenyl group;

a C_2 to C_3 alkynyl group;

a C_3 to C_5 cycloalkyl group which may be substituted with 1 to 3 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group, a C_3 to C_4 cycloalkyl group, a cyano group, a C_1 to C_3 alkoxy group and a C_1 to C_3 alkylthio group;

a C_6 to C_7 bicycloalkyl group;

a cyano group;

a C_2 to C_4 alkylcarbonyl group;

a C_2 to C_4 alkoxy carbonyl group;

a phenyl group which may be substituted with a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl group or a C_1 to C_3 haloalkyl group having 1 to 3 halogen atoms selected from the group consisting of a fluorine atom, a chlorine atom and a bromine atom;

a 5- to 6-membered heterocyclic group which may be substituted, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, wherein the substituent is 1 or 2 substituents and wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_3 alkyl

group and a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom;

a nitro group;

a C₁ to C₃ alkoxy group;

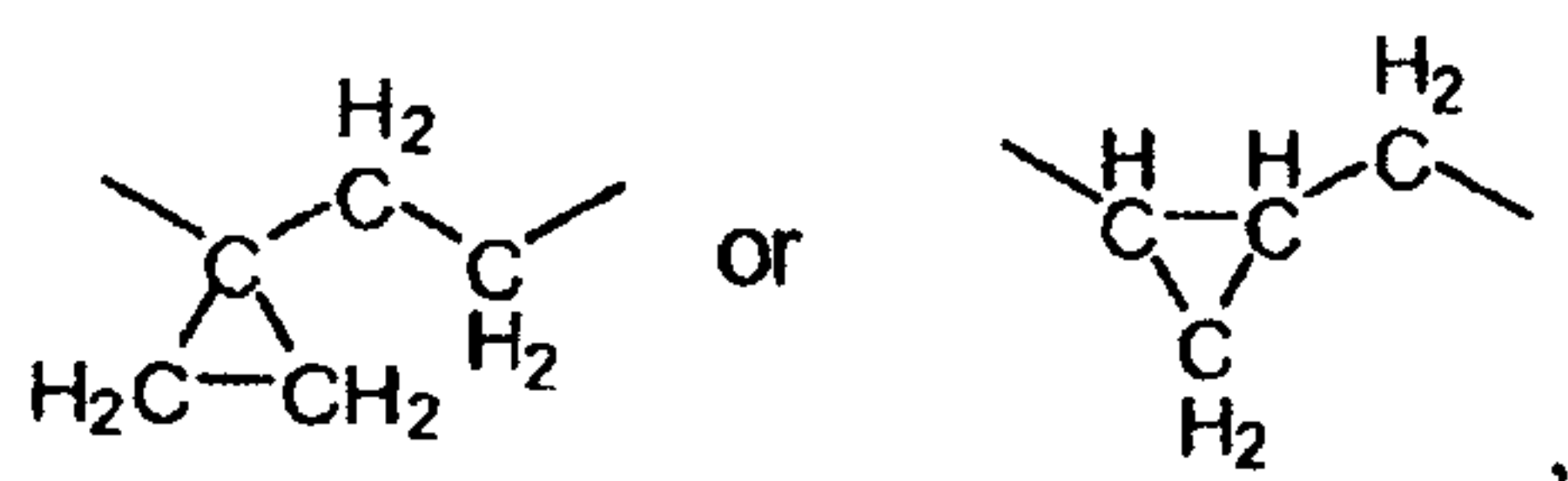
a C₁ to C₃ haloalkoxy group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom;

a phenoxy group which may be substituted with a pyridazinyloxy group which is substituted by a fluorine atom, a chlorine atom, a bromine atom or a C₁ to C₃ alkoxy group; or

a C₁ to C₃ alkylthio group, or

R³, R⁴, R⁵, R⁶ and R⁷ are a group represented by

-CH₂CH₂-, -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -CH₂CH₂CH₂CH₂-,
 -CH=CH-CH=CH-, -OCH₂CH₂-, -OCH=CH-, -OCH=C(CH₃)-, -SCH=CH-,
 -N=CH-CH=CH-, -OCH₂O-, -OCH₂CH₂O-,



which is formed by an adjacent two of R³ to R⁷.

10. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 8, wherein R³, R⁴, R⁵, R⁶ and R⁷ each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C₁ to C₄ alkyl group which may be substituted with 1 to 3 fluorine atoms or a cyclopropyl group;

a C₃ to C₄ cycloalkyl group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₂ alkyl group, a cyclopropyl group or a C₁ to C₂ alkoxy group;

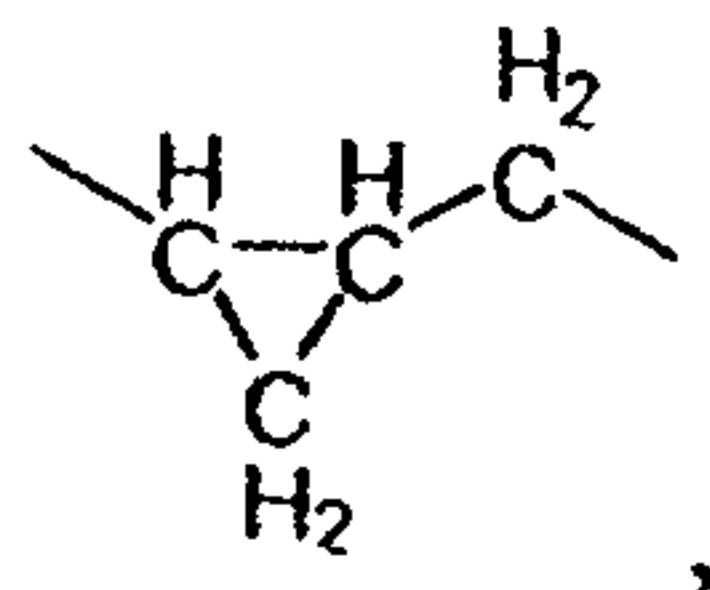
a cyano group;

a C₂ to C₃ alkoxycarbonyl group;

a nitro group;

a C₁ to C₃ alkoxy group or a trifluoromethoxy group; or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by
 $-\text{CH}_2\text{CH}_2\text{CH}_2-$, $-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2-$, $-\text{OCH}_2\text{CH}_2-$, $-\text{OCH}=\text{CH}-$ or



which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom.

11. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 8, wherein R^3 , R^4 , R^5 , R^6 and R^7 each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C_1 to C_3 alkyl group;

a C_3 to C_4 cycloalkyl group which may be substituted with 1 or 2 substituents wherein each substituent is a chlorine atom or a C_1 to C_2 alkyl group;

a cyano group; or

a C_1 to C_2 alkoxy group, or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by $-\text{CH}_2\text{CH}_2\text{CH}_2-$ or $-\text{OCH}=\text{CH}-$, which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom.

12. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 8, wherein:

R^3 , R^4 , R^5 , R^6 and R^7 each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl group, an isopropyl group, a cyclopropyl group which may be substituted with two chlorine atoms, or a methoxy group; or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by $-\text{CH}_2\text{CH}_2\text{CH}_2-$, which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom.

13. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 12, wherein m and n are both 0.

14. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R¹ is:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

a C₁ to C₃ alkyl group;

a C₁ to C₃ haloalkyl group wherein the halogen atom is 1 to 3 fluorine atoms;

a cyclopropyl group;

a C₂ to C₃ alkenyl group;

a cyano group;

a C₂ to C₄ alkylcarbonyl group;

a di(C₁ to C₃ alkyl)carbamoyl group;

a phenyl group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C₁ to C₃ alkyl)silyl group;

a furyl group;

a thienyl group;

a C₁ to C₃ alkoxy group;

a phenoxy group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 fluorine atoms, a cyclopropyl group, a cyano group or a tri(C₁ to C₃ alkyl)silyl group; or

a substituted pyrazolyloxy group wherein the substituent is a benzoyl group which is substituted by two chlorine atoms and two C₁ to C₃ alkyl groups;

R² is:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C₁ to C₃ alkyl group;

a (C₁ to C₃ alkoxy)C₁ to C₃ alkyl group;

a benzoyl group which may be substituted with 1 or 2 substituents wherein each

substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C₁ to C₃ alkyl)silyl group;

a C₂ to C₄ alkoxycarbonyl group;

a phenoxy group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group or a tri(C₁ to C₃ alkyl)silyl group;

a phenylthio group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and at each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom, a cyclopropyl group, a cyano group and a tri(C₁ to C₃ alkyl)silyl group; or

a tri(C₁ to C₃ alkyl)silyl group;

R³, R⁴, R⁵, R⁶ and R⁷ each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C₁ to C₄ alkyl group which may be substituted with 1 to 3 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₃ to C₄ cycloalkyl group, a C₁ to C₃ alkylthio group or a C₁ to C₃ alkoxyimino group;

a C₂ to C₃ alkenyl group;

a C₂ to C₃ alkynyl group;

a C₃ to C₅ cycloalkyl group which may be substituted with 1 to 3 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₃ to C₄ cycloalkyl group, a cyano group, a C₁ to C₃ alkoxy group or a C₁ to C₃ alkylthio group;

a C₆ to C₇ bicycloalkyl group;

a cyano group;

a C₂ to C₄ alkylcarbonyl group;

a C₂ to C₄ alkoxycarbonyl group;

a phenyl group which may be substituted with a fluorine atom, a chlorine atom, a

bromine atom, a C₁ to C₃ alkyl group or a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom;

a 5- to 6-membered heterocyclic group which may be substituted, wherein the heterocycle contains one nitrogen atom, oxygen atom or sulfur atom in the ring, and may contain a further 1 or 2 nitrogen atoms, wherein the substituent is 1 or 2 substituents, wherein the heterocycle is a furyl, thienyl, pyrrolidinyl, pyrrolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, isothiazolyl, thiazolyl, triazolyl, 1,2,3-thiadiazolyl, piperidyl, piperadiny, morpholinyl, thiomorpholinyl, tetrahydro-2H-pyran, pyran, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl or triazinyl group, and wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group or a C₁ to C₃ haloalkyl group having 1 to 3 halogen atoms and each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom;

a nitro group;

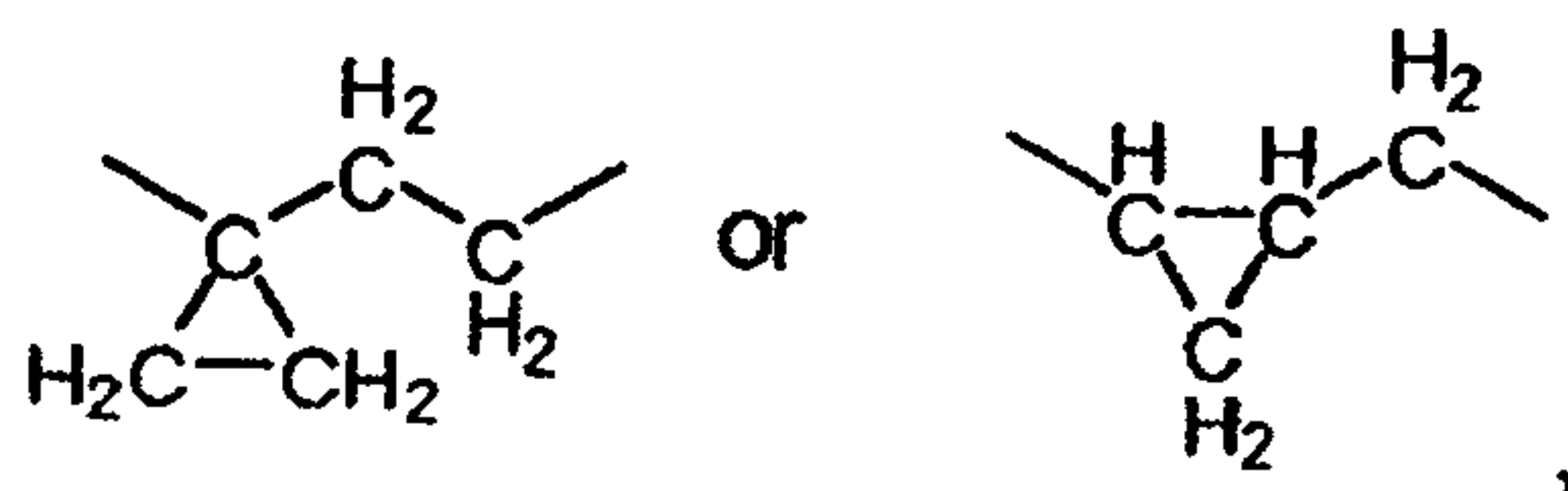
a C₁ to C₃ alkoxy group;

a C₁ to C₃ haloalkoxy group having 1 to 3 halogen atoms and each occurrence the halogen atom is a fluorine atom, a chlorine atom or a bromine atom;

a phenoxy group which may be substituted wherein the substituent is a pyridazinyl group substituted by a fluorine atom, a chlorine atom, a bromine atom or a C₁ to C₃ alkoxy group; or

a C₁ to C₃ alkylthio group; or

R³, R⁴, R⁵, R⁶ and R⁷ are a group represented by -CH₂CH₂-, -CH₂CH₂CH₂-, -CH(CH₃)CH₂CH₂-, -CH₂CH₂CH₂CH₂-, -CH=CH-CH=CH-, -OCH₂CH₂-, -OCH=CH-, -OCH=C(CH₃)-, -SCH=CH-, -N=CH-CH=CH-, -OCH₂O-, -OCH₂CH₂O-, or



which is formed by the adjacent two of R³ to R⁷; and
m and n are both 0.

15. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R¹ is:

a chlorine atom; a bromine atom;

a trifluoromethyl group; or

a cyano group;

R^2 is:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a methyl group;

an ethoxycarbonyl group; or

a trimethylsilyl group;

R^3 , R^4 , R^5 , R^6 and R^7 each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C_1 to C_4 alkyl group which may be substituted with 1 to 3 fluorine atoms or a cyclopropyl group;

a C_3 to C_4 cycloalkyl group which may be substituted with 1 or 2 substituents wherein each substituent is a fluorine atom, a chlorine atom, a bromine atom, a C_1 to C_2 alkyl group, a cyclopropyl group or a C_1 to C_2 alkoxy group;

a cyano group;

a C_2 to C_3 alkoxy carbonyl group;

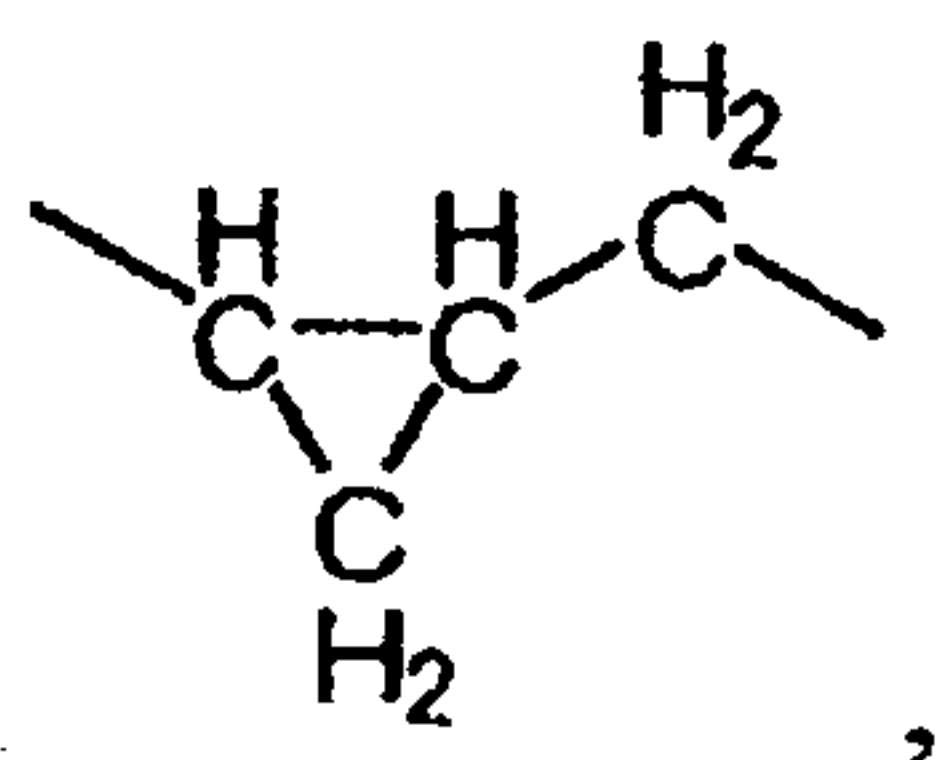
a nitro group;

a C_1 to C_3 alkoxy group; or

a trifluoromethoxy group; or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by

$-\text{CH}_2\text{CH}_2\text{CH}_2-$, $-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2-$, $-\text{OCH}_2\text{CH}_2-$, $-\text{OCH}=\text{CH}-$ or



which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom; and

m and n are both 0.

16. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein R^1 is:

a chlorine atom; or

a bromine atom;

R^2 is a hydrogen atom;

R^3 , R^4 , R^5 , R^6 and R^7 each independently represent:

a hydrogen atom;

a fluorine atom;

a chlorine atom;

a bromine atom;

an iodine atom;

a C_1 to C_3 alkyl group;

a C_3 to C_4 cycloalkyl group which may be substituted with 1 or 2 substituents wherein each substituent is a chlorine atom or a C_1 to C_2 alkyl group;

a cyano group; or

a C_1 to C_2 alkoxy group; or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by $-CH_2CH_2CH_2-$ or $-OCH=CH-$, which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom; and m and n are both 0.

17. A compound, a salt thereof or an ester derivative thereof according to claim 1, wherein:

R^1 is a chlorine atom;

R^2 is a hydrogen atom;

R^3 , R^4 , R^5 , R^6 and R^7 each independently represent a hydrogen atom, a fluorine atom, a chlorine atom, a bromine atom, an iodine atom, a methyl group, an ethyl group, an isopropyl group, a cyclopropyl group which may be substituted with two chlorine atoms, or a methoxy group; or

R^3 , R^4 , R^5 , R^6 and R^7 are a group represented by $-CH_2CH_2CH_2-$, which is formed by the adjacent two of R^3 to R^7 , provided that R^3 is not a hydrogen atom; and m and n are both 0.

18. A compound, a salt thereof or an ester derivative thereof according to any one of claims 1 to 17, wherein the compound is:

6-chloro-3-(2-iodophenoxy)-4-pyridazinol;

6-chloro-3-(2-methylphenoxy)-4-pyridazinol;

6-chloro-3-(2-cyclopropylphenoxy)-4-pyridazinol;
 6-chloro-3-(2,3-dihydro-1H-inden-4-yloxy)-4-pyridazinol;
 3-(1-benzofuran-17-yloxy)-6-chloro-4-pyridazinol;
 6-chloro-3-(2-methoxy-5-methylphenoxy)-4-pyridazinol;
 6-chloro-3-(2-chloro-6-cyclopropylphenoxy)-4-pyridazinol;
 3-(2-bromo-6-methylphenoxy)-6-chloro-4-pyridazinol;
 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinol; or
 6-chloro-3-(2-cyclopropyl-3,5-dimethylphenoxy)-4-pyridazinol.

19. A compound according to any one of claims 1 to 18, wherein the ester derivative is a compound in which a group bonded to the oxygen atom of the hydroxyl group at the 4-position of the pyridazine ring is:

a C₂ to C₁₀ alkylcarbonyl group;

a benzoyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:

a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a C₁ to C₃ alkoxy group or a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxy-carbonyl group;

a pyrrolidinylcarbonyl group;

an azetidiny carbonyl group;

a morpholinylcarbonyl group;

a C₂ to C₅ alkoxy carbonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a fluorine atom, a chlorine atom or a bromine atom;

a di(C₁ to C₃ alkyl)carbamoyl group;

a (C₁ to C₃ alkyl)(C₁ to C₃ alkoxy)carbamoyl group;

a C₁ to C₃ alkylsulfonyl group which may be substituted by 1 to 3 substituents, wherein each substituent is:

a fluorine atom, a chlorine atom or a bromine atom; or

a phenylsulfonyl group which may be substituted by 1 or 2 substituents, wherein each substituent is:

a fluorine atom, a chlorine atom, a bromine atom, a C₁ to C₃ alkyl group, a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxysulfonyl group or a nitro group.

20. A compound according to any one of claims 1 to 18, wherein the ester derivative

is a compound in which a group bonded to the oxygen atom of the hydroxyl group at the 4-position of the pyridazine ring is:

- a C₂ to C₄ alkylcarbonyl group;
- a benzoyl group which may be substituted by a methyl group or a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxy carbonyl group;
- a 1-azetidiny carbonyl group;
- a 4-morpholinyl carbonyl group;
- a C₂ to C₃ alkoxycarbonyl group which may be substituted by 1 to 3 chlorine atoms;
- a dimethylcarbamoyl group;
- a methoxy(methyl)carbamoyl group;
- a C₁ to C₃ alkylsulfonyl group which may be substituted by 1 to 3 fluorine atoms; or
- a phenylsulfonyl group which may be substituted by a chlorine atom, a methyl group, a 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-1H-pyrazol-5-yloxysulfonyl group or a nitro group.

21. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-methylbenzoate.

22. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl dimethylcarbamate.

23. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 1-propanesulfonate.

24. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-methylbenzenesulfonate.

25. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 4-morpholinecarboxylate.

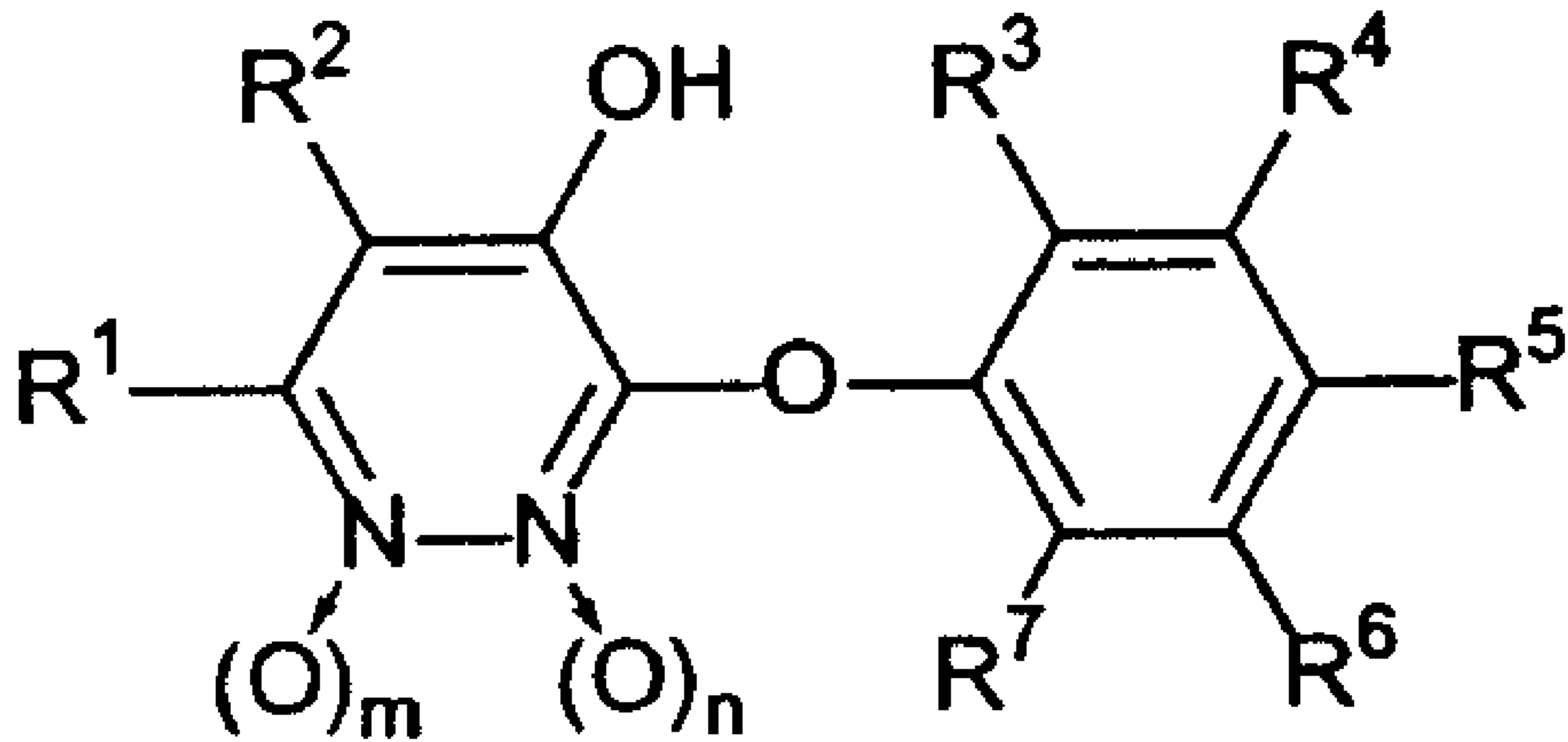
26. A compound according to claim 1, wherein the compound is 6-chloro-3-(2-cyclopropyl-6-methylphenoxy)-4-pyridazinyl 1-azetizinecarboxylate.

27. An agricultural chemical which comprises the compound, a salt thereof or an ester derivative thereof as defined in any one of claims 1 to 26 as an effective ingredient and an agriculturally acceptable carrier.

28. A herbicidal composition which comprises at least one 3-phenoxy-4-pyridazinol derivatives as defined in any one of claims 1 to 26, and a second herbicidally active compound which is:

4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl-p-toluenesulfonate, 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone, 2-[4-(2,4-dichloro-m-toluoyl)-1,3-dimethylpyrazol-5-yloxy]-4'-methylacetophenone, 5-cyclopropyl-1,2-oxazol-4-yl α,α,α -trifluoro-2-mesyl-p-tolyl ketone, 2-(2-chloro-4-mesylbenzoyl)cyclohexan-1,3-dione, 2-(4-mesyl-2-nitrobenzoyl)cyclohexan-1,3-dione and 4-chloro-2-(methylsulfonyl)phenyl 5-cyclopropyl-4-isoxazolyl ketone as effective ingredients.

29. The herbicidal composition according to claim 28, wherein the second herbicidally active compound is 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl-p-toluenesulfonate.



(1)