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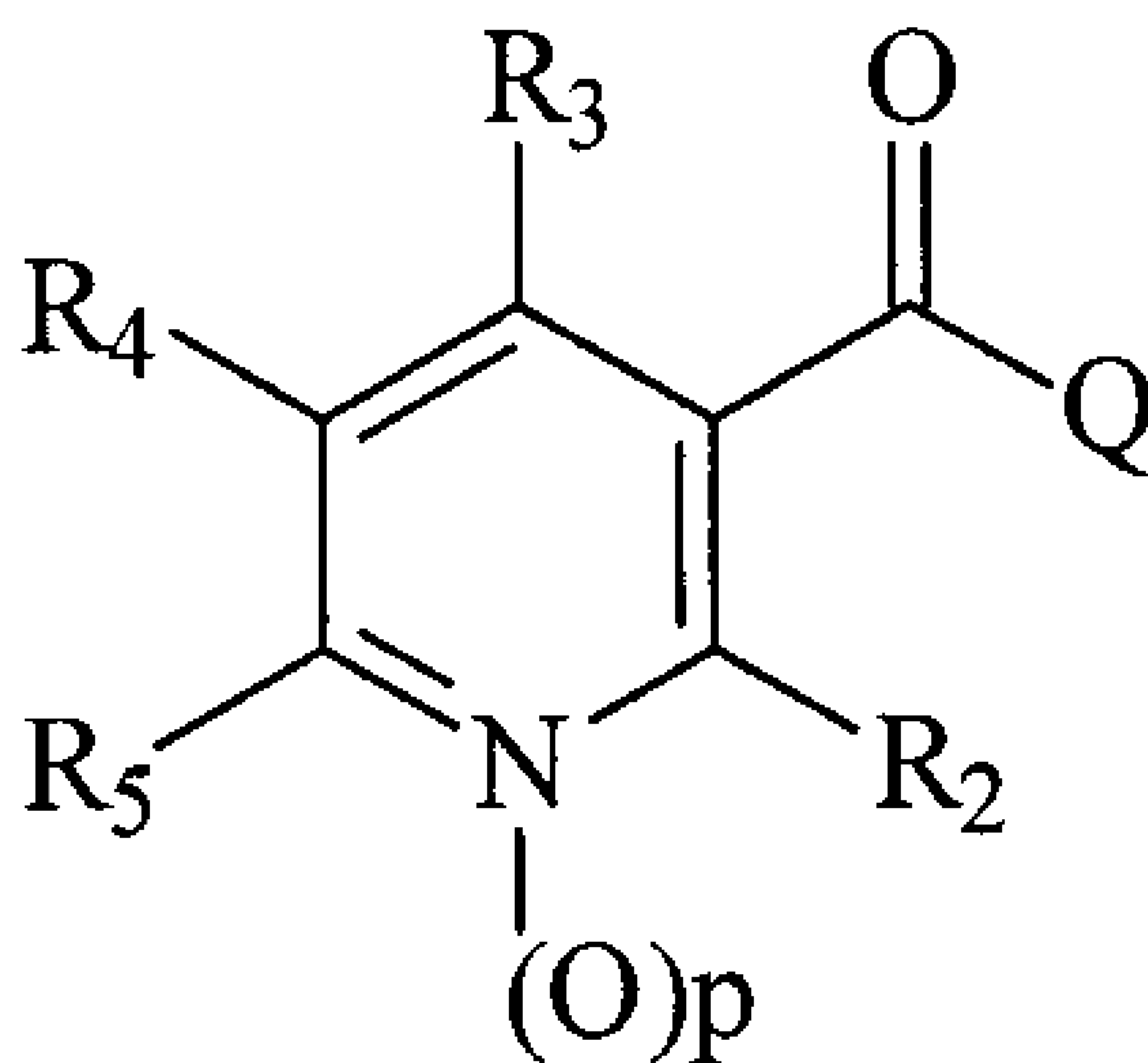
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(54) Title: SUBSTITUTED PYRIDINE HERBICIDES



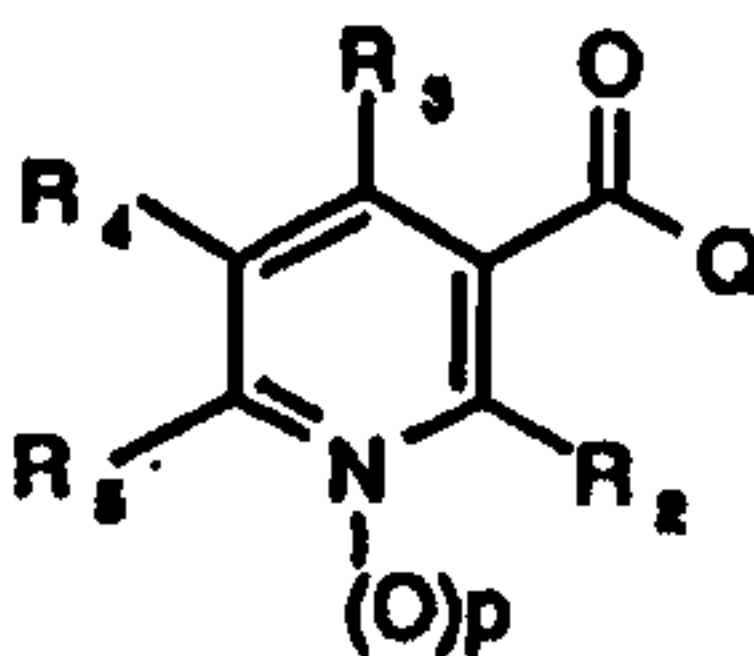
(57) Abrégé/Abstract:

Compounds of formula (I), in which the substituents are as defined in claim 1 and the agrochemically tolerated salts M⁺ and all stereoisomers and tautomers of the compounds of formula (I) are suitable for use as herbicides.



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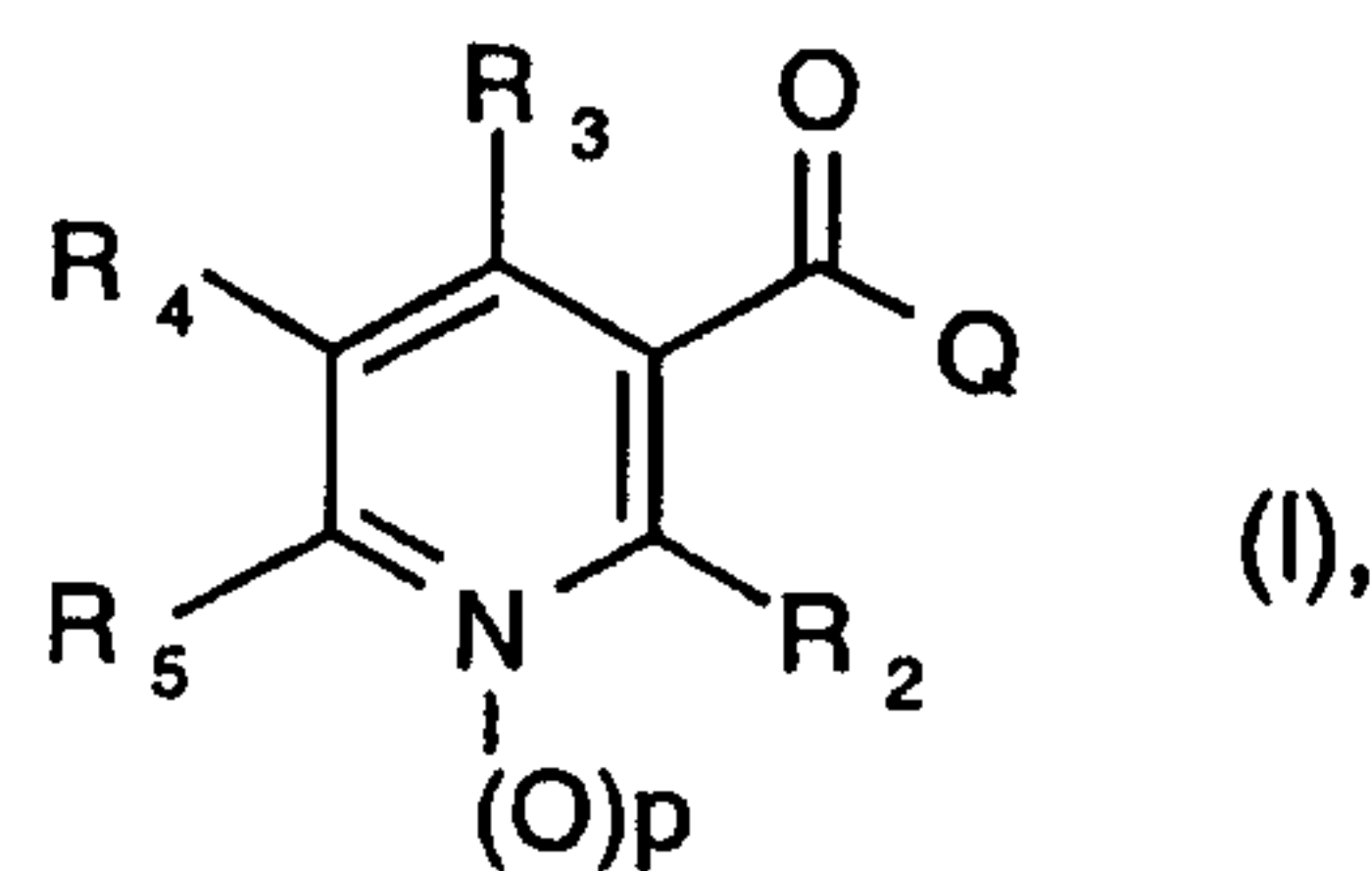
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(54) Title: SUBSTITUTED PYRIDINE HERBICIDES  (I) (57) Abstract Compounds of formula (I), in which the substituents are as defined in claim 1 and the agrochemically tolerated salts M⁺ and all stereoisomers and tautomers of the compounds of formula (I) are suitable for use as herbicides.		

SUBSTITUTED PYRIDINE HERBICIDES

The present invention relates to novel, herbicidally active pyridine ketones, to their preparation, to compositions comprising these compounds, and to their use for controlling weeds, especially in crops of useful plants, or for inhibiting plant growth.

Herbicidally active pyridine ketones are described, for example, in WO 97/46530. There have now been found novel pyridine ketones which have herbicidal and growth-inhibitory properties.

The present invention therefore relates to compounds of the formula I



in which

p is 0 or 1;

R₅ is C₁-C₆haloalkyl;

R₂ is hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, vinyl which is substituted by C₁-C₂alkoxycarbonyl or phenyl, or is C₂-C₆alkynyl, C₂-C₆haloalkynyl, ethynyl which is substituted by trimethylsilyl, hydroxyl, C₁-C₂alkoxy, C₁-C₂alkoxycarbonyl or phenyl, or is C₃-C₆allenyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl which is substituted by halogen, or is C₁-C₆alkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆haloalkoxy, C₃-C₆haloalkenyloxy, cyano-C₁-C₄alkoxy, C₁-C₄alkoxy-C₁-C₄alkoxy, C₁-C₄alkylthio-C₁-C₄alkoxy, C₁-C₄alkylsulfinyl-C₁-C₄alkoxy, C₁-C₄alkylsulfonyl-C₁-C₄alkoxy, C₁-C₄alkoxycarbonyl-C₁-C₄alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylthio, C₁-C₄alkoxycarbonyl-C₁-C₄alkylsulfinyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylsulfonyl, benzyl-S(O)_{n1}-, C₁-C₆alkylamino, C₂-C₆dialkylamino, C₁-C₆alkylaminosulfonyl, di-(C₁-C₆alkylamino)sulfonyl, benzyloxy, benzyl, phenyl, phenoxy, phenylthio, phenylsulfinyl or phenylsulfonyl, it being possible for the phenyl-containing groups, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-

C_3 haloalkoxy, halogen, cyano or nitro or R_2 is $OS(O)_{n2}-R_{21}$, $N(R_{23})-S(O)_{n3}-R_{22}$, cyano, carbamoyl, C_1-C_4 alkoxycarbonyl, formyl, halogen, thiocyanato, amino, hydroxy- C_1-C_4 alkyl, C_1-C_4 alkoxy- C_1-C_4 alkyl, C_1-C_4 alkyl- $S(O)_{n4}-C_1-C_4$ alkyl, cyano- C_1-C_4 alkyl, C_1-C_6 alkylcarbonyloxy- C_1-C_4 alkyl, C_1-C_4 alkoxycarbonyl- C_1-C_4 alkyl, C_1-C_4 alkoxycarbonyloxy- C_1-C_4 alkyl, C_1-C_4 thiocyanato- C_1-C_4 alkyl, benzoyloxy- C_1-C_4 alkyl, C_2-C_6 oxiranyl, C_1-C_4 alkylamino- C_1-C_4 alkyl, di- $(C_1-C_4$ -alkyl)amino- C_1-C_4 alkyl, C_1-C_{12} alkylthiocarbonyl- C_1-C_4 alkyl or formyl- C_1-C_4 alkyl, or R_2 is a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system being bonded to the pyridine ring via a C_1-C_4 alkylene, $-CH=CH-$, $-C\equiv C-$, $-CH_2O-$, $-CH_2N(C_1-C_4$ alkyl)-, $-CH_2SO-$, or $-CH_2SO_2$ group and it not being possible for each ring system to contain more than 2 oxygen atoms and not more than 2 sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_6 alkenyl, C_3-C_6 haloalkenyl, C_3-C_6 alkynyl, C_3-C_6 haloalkynyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_3-C_6 alkenyloxy, C_3-C_6 alkynyloxy, mercapto, C_1-C_6 alkylthio, C_1-C_6 haloalkylthio, C_3-C_6 alkenylthio, C_3-C_6 haloalkenylthio, C_3-C_6 alkynylthio, C_2-C_5 alkoxyalkylthio, C_3-C_5 acetylalkylthio, C_3-C_6 alkoxycarbonylalkylthio, C_2-C_4 cyanoalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1-C_6 alkylsulfonyl, C_1-C_6 haloalkylsulfonyl, aminosulfonyl, C_1-C_2 alkylaminosulfonyl, di- $(C_1-C_2$ alkyl)aminosulfonyl, di- $(C_1-C_4$ alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C_1-C_3 alkyl, C_1-C_3 haloalkyl, C_1-C_3 alkoxy, C_1-C_3 haloalkoxy, halogen, cyano or nitro, and substituents on the nitrogen in the heterocyclic ring being other than halogen;

R_3 is hydrogen, C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_2-C_6 alkenyl, C_2-C_6 haloalkenyl, C_2-C_6 alkynyl, C_2-C_6 haloalkynyl, C_3-C_6 cycloalkyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_1-C_6 alkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 alkylsulfonyl, C_1-C_6 haloalkylthio, C_1-C_6 haloalkylsulfinyl, C_1-C_6 haloalkylsulfonyl, C_1-C_6 alkylamino, C_2-C_6 dialkylamino, C_1-C_6 alkylaminosulfonyl, C_2-C_6 dialkylaminosulfonyl, phenyl, phenylthio, phenylsulfinyl, phenylsulfonyl or phenoxy, it being possible for phenyl, in turn, to be substituted by C_1-C_3 alkyl, C_1-C_3 haloalkyl, C_1-C_3 alkoxy, C_1-C_3 haloalkoxy, halogen, cyano or nitro, or R_3 is $-N(R_{23})-S(O)_n-R_{22}$, cyano, halogen, amino, C_1-C_4 alkoxy- C_1-C_4 alkyl or C_1-C_4 alkyl- $S(O)_n-C_1-C_4$ alkyl;

R_4 is hydrogen, C_1-C_6 alkyl, hydroxyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_3-C_6 alkenyloxy, C_3-C_6 haloalkenyloxy, C_3-C_6 alkynyloxy, C_1-C_4 alkylcarbonyloxy, C_1-C_4 alkylsulfonyloxy, tosyloxy, C_1-C_4 alkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylamino, C_1-C_4 dialkylamino, C_1-C_4 alkoxycarbonyl, C_1-C_4 haloalkyl, formyl, cyano, halogen, phenyl or

phenoxy, it being possible for phenyl, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro;
 or R₄ is a five to ten-membered monocyclic or R₃-fused bicyclic ring system which can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system, unless fused, being bonded to the pyridine ring directly or via a C₁-C₄alkylene, -CH=CH-, -C≡C-, -CH₂O-, -CH₂N(C₁-C₄alkyl)-, -CH₂S-, -CH₂SO-, or -CH₂SO₂- group and it not being possible for the ring system to contain more than 2 oxygen atoms and not more than two sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₁-C₄alkoxy-C₁-C₂alkylthio, C₁-C₄alkylcarbonyl-C₁-C₂alkylthio, C₁-C₄alkoxycarbonyl-C₁-C₂alkylthio, cyano-C₁-C₄alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, di-(C₁-C₄alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and substituents on the nitrogen in the heterocyclic ring being other than halogen;

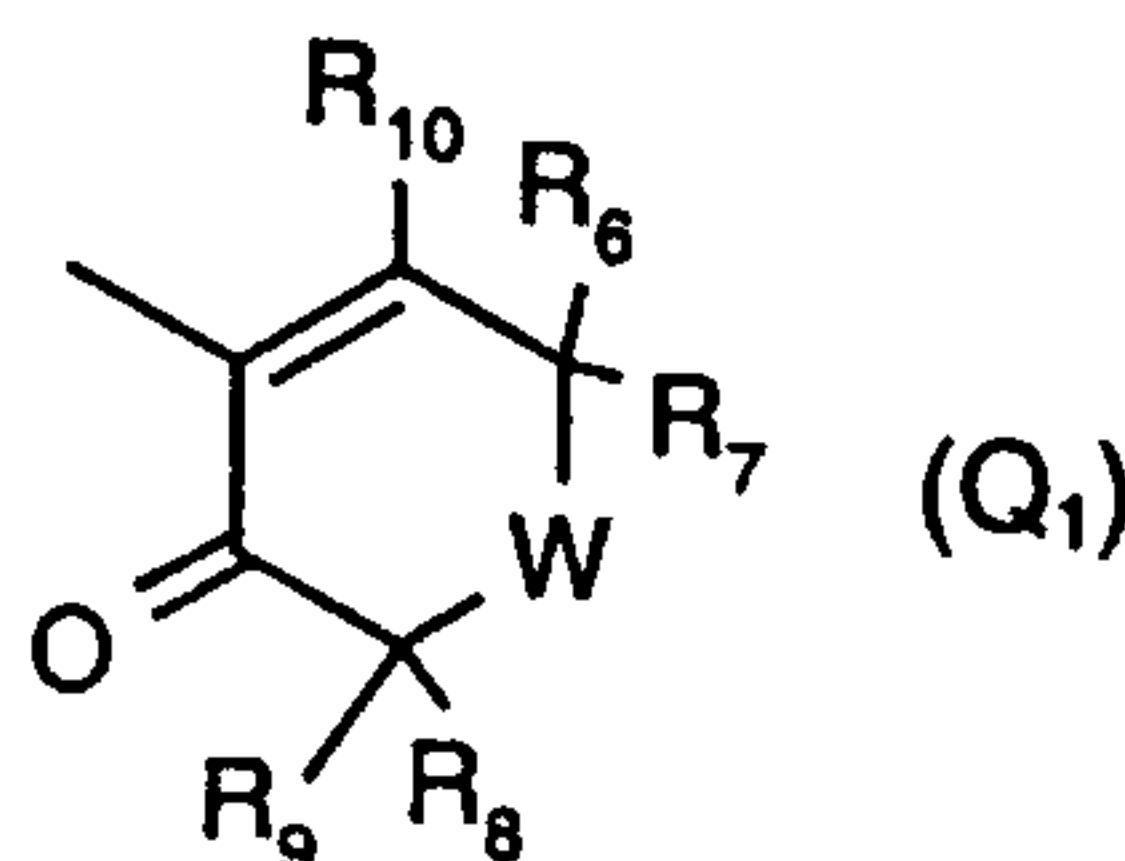
R₂₁ is C₁-C₄alkyl or C₁-C₄haloalkyl;

R₂₂ is C₁-C₄alkyl, C₁-C₄haloalkyl or di-(C₁-C₄alkyl)amino;

R₂₃, R₂₄, R₂₅ independently of one another are hydrogen or C₁-C₄alkyl;

n, n₁, n₂, n₃ and n₄ independently of one another are 0, 1 or 2;

Q is Q₁



in which

R₆, R₇, R₈ and R₉ independently of one another are hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl, C₁-C₆alkyl-S(O)_{n17}, C₁-C₆alkyl-NHS(O)₂, C₁-C₆alkylamino, di-(C₁-C₆alkyl)amino, hydroxyl, C₁-C₆alkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, hydroxy-C₁-C₆alkyl, C₁-C₄alkylsulfonyloxy-C₁-C₆alkyl,

tosyloxy-C₁-C₆alkyl, C₁-C₆alkoxy-C₁-C₆alkyl, C₁-C₆alkyl-S(O)_{n4}-C₁-C₆alkyl, cyano-C₁-C₆alkyl, C₁-C₆alkoxy-C₁-C₆alkoxy, benzyloxy-C₁-C₆alkyl, C₁-C₆alkoxycarbonyl-C₁-C₆alkyl, C₁-C₆alkoxycarbonyloxy-C₁-C₆alkyl, thiocyanato-C₁-C₆alkyl, oxiranyl, C₁-C₆alkylamino-C₁-C₆alkyl, di(C₁-C₆alkyl)amino-C₁-C₆alkyl, formyl-C₁-C₆alkyl, C₁-C₆alkyloximo, halogen, cyano, nitro, phenyl or phenyl which is substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, amino, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n18}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n5}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)_{n19}N(C₁-C₄alkyl)₂, halogen, nitro, COOH or cyano;

or adjacent R₆ and R₇ or R₈ and R₉ together are -(CH₂)_m-, C(O)O(CH₂)_{n20}- or -S(O)_{n21}(CH₂)_{n22}-;

n₅, n₁₇, n₁₈, n₁₉ and n₂₁ independently of one another are 0, 1 or 2;

n₂₀ is 2 or 3;

n₂₂ is 2, 3 or 4;

m is 2, 3, 4, 5, or 6;

W is oxygen, S(O)_{n6}-, CR₁₁R₁₂-, -CR₆₃R₆₄CR₆₅R₆₆-, -C(O)- or -NR₁₃;

R₆₃, R₆₄, R₆₅ and R₆₆ independently of one another are hydrogen or C₁-C₆alkyl, or R₆₅ together with R₇ or R₉ forms a direct bond;

n₆ is 0, 1 or 2;

R₁₁ is hydrogen, C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄alkyl, C₁-C₄alkylthio-C₃-C₆cycloalkyl, C₁-C₄alkylcarbonyloxy-C₁-C₄alkyl, C₁-C₄alkylsulfonyloxy-C₁-C₄alkyl, tosyloxy-C₁-C₄alkyl, di-(C₁-C₃alkoxyalkyl)methyl, di-(C₁-C₃alkthioalkyl)methyl, (C₁-C₃alkoxyalkyl)-(C₁-C₃alkthioalkyl)methyl, C₃-C₅oxacycloalkyl, C₃-C₅thiacycloalkyl, C₃-C₄dioxacycloalkyl, C₃-C₄dithiacycloalkyl, C₃-C₄oxathiacycloalkyl, formyl, C₁-C₄alkoxycarbonyl, carbamoyl, C₁-C₄alkylaminocarbonyl, di-(C₁-C₄alkyl)aminocarbonyl, phenylaminocarbonyl, benzylaminocarbonyl or phenyl which, in turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, amino, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n21}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n7}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)_{n20}N(C₁-C₄alkyl), halogen, nitro, COOH or cyano;

n₇, n₂₀ and n₂₁ independently of one another are 0, 1 or 2;

or R₁₂ together with R₆ or R₉ is a group -(CH₂)_o-;

o is 1, 2, 3, 4 or 5;

R₁₂ is hydrogen, C₁-C₄alkyl or C₁-C₄haloalkyl;

or R_{12} together with R_{11} is a group $-(CH_2)_{m_1}$;

m_1 is 2, 3, 4, 5, or 6;

R_{10} is hydroxyl, O^-M^+ , halogen, cyano, SCN, OCN, C_1 - C_{12} alkoxy, C_1 - C_4 alkoxycarbonyl- C_1 - C_4 alkoxy, C_1 - C_{12} alkylthio, C_1 - C_{12} alkylsulfinyl, C_1 - C_{12} alkylsulfonyl, C_1 - C_{12} haloalkylthio, C_1 - C_{12} haloalkylsulfinyl, C_1 - C_{12} haloalkylsulfonyl, C_1 - C_6 alkoxy- C_1 - C_6 alkylthio, C_1 - C_6 alkoxy- C_1 - C_6 alkylsulfinyl, C_1 - C_6 alkoxy- C_1 - C_6 alkylsulfonyl, C_2 - C_{12} alkenylthio, C_2 - C_{12} alkenylsulfinyl, C_2 - C_{12} alkenylsulfonyl, C_2 - C_{12} alkynylthio, C_2 - C_{12} alkynylsulfinyl, C_2 - C_{12} alkynylsulfonyl, C_2 - C_{12} haloalkenylthio, C_2 - C_{12} haloalkenylsulfinyl, C_2 - C_{12} haloalkenylsulfonyl, C_1 - C_4 -alkoxycarbonyl- C_1 - C_4 alkylthio, C_1 - C_4 alkoxycarbonyl- C_1 - C_4 alkylsulfinyl, C_1 - C_4 alkoxycarbonyl- C_1 - C_4 alkylsulfonyl, $(C_1$ - C_4 alkoxy) $_2$ P(O)O, C_1 - C_4 alkyl- $(C_1$ - C_4 alkoxy)P(O)O, $H(C_1$ - C_4 alkoxy)P(O)O, $R_{14}R_{15}N$, $R_{14}R_{15}NNH$, $R_{16}R_{17}NC(O)O^-$, $R_{16}R_{17}NC(O)NH^-$, C_1 - C_{12} alkyl-S(O) $_2$ NR $_{18}$, C_1 - C_4 haloalkyl-S(O) $_2$ NR $_{19}$, C_1 - C_{12} alkyl-S(O) $_2$ O, C_1 - C_4 haloalkyl-S(O) $_2$ O, C_1 - C_{18} alkylcarbonyloxy, it being possible for the alkyl group to be substituted by halogen, C_1 - C_6 alkoxy, C_1 - C_6 alkylthio or cyano, or is C_2 - C_{18} alkenylcarbonyloxy, C_2 - C_{18} alkynylcarbonyloxy, C_3 - C_6 cycloalkylcarbonyloxy, C_1 - C_{12} alkoxycarbonyloxy, C_1 - C_{12} alkylthiocarbonyloxy, C_1 - C_{12} alkylthiocarbamoyl, C_1 - C_6 alkyl-NH(CS)N(C_1 - C_6 alkyl)-NH-, di- C_1 - C_6 alkyl-N(CS)N(C_1 - C_6 alkyl)-NH-, benzyloxy, benzylthio, benzylsulfinyl, benzylsulfonyl, phenoxy, phenylthio, phenylsulfinyl, phenylsulfonyl, phenylsulfonylamino, phenylsulfonyloxy or benzoyloxy, it being possible for the phenyl groups, in turn, to be substituted by C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 haloalkoxy, C_1 - C_4 alkylcarbonyl, C_1 - C_4 alkoxycarbonyl, C_1 - C_4 alkylamino, di- C_1 - C_4 alkylamino, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfinyl, C_1 - C_4 alkylsulfonyl, C_1 - C_4 alkyl-S(O) $_2$ O, C_1 - C_4 haloalkylthio, C_1 - C_4 haloalkylsulfinyl, C_1 - C_4 haloalkylsulfonyl, C_1 - C_4 haloalkyl-S(O) $_2$ O, C_1 - C_4 alkyl-S(O) $_2$ NH, C_1 - C_4 alkyl-S(O) $_2$ N(C_1 - C_4 alkyl), halogen, nitro or cyano;

or R_{10} is a group Ar $_1$ -thio, Ar $_2$ -sulfinyl, Ar $_3$ -sulfonyl, -OCO-Ar $_4$ or NH-Ar $_5$ in which Ar $_1$, Ar $_2$, Ar $_3$, Ar $_4$ and Ar $_5$ independently of one another are a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, and it being possible for each ring system to contain not more than 2 oxygen atoms and not more than two sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_3 - C_6 alkenyl, C_3 - C_6 haloalkenyl, C_3 - C_6 alkynyl, C_3 - C_6 haloalkynyl, C_1 - C_6 alkoxy, C_1 - C_6 haloalkoxy, C_3 - C_6 alkenyloxy, C_3 - C_6 alkynyloxy, mercapto, C_1 - C_6 alkylthio, C_1 - C_6 haloalkylthio, C_3 - C_6 alkenylthio, C_3 - C_6 haloalkenylthio, C_3 - C_6 alkynylthio, C_2 - C_5 alkoxyalkylthio, C_3 - C_5 acetylalkylthio, C_3 - C_6 alkoxycarbonylalkylthio, C_2 - C_4 -cyanoalkylthio, C_1 - C_6 alkylsulfinyl, C_1 - C_6 haloalkylsulfinyl, C_1 - C_6 alkylsulfonyl, C_1 - C_6 -

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haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, di-(C₁-C₄alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen;

R₁₄, R₁₅, R₁₆, R₁₇ and R₁₈ independently of one another are hydrogen or C₁-C₆alkyl;

n₈, n₉, n₁₀, n₁₁, n₁₂, n₁₃ and n₁₄ independently of one another are 0, 1 or 2;

R₁₃ is hydrogen, C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄carbonyl, C₁-C₄alkylsulfinyl-C₁-C₄carbonyl, C₁-C₄alkylsulfonyl-C₁-C₄carbonyl, C₁-C₄alkoxycarbonyl, C₁-C₄alkylcarbonyl, phenylcarbonyl, or is phenyl which, in turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n₁₅}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₁₆}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)₂N(C₁-C₄alkyl), halogen, nitro, or cyano; and

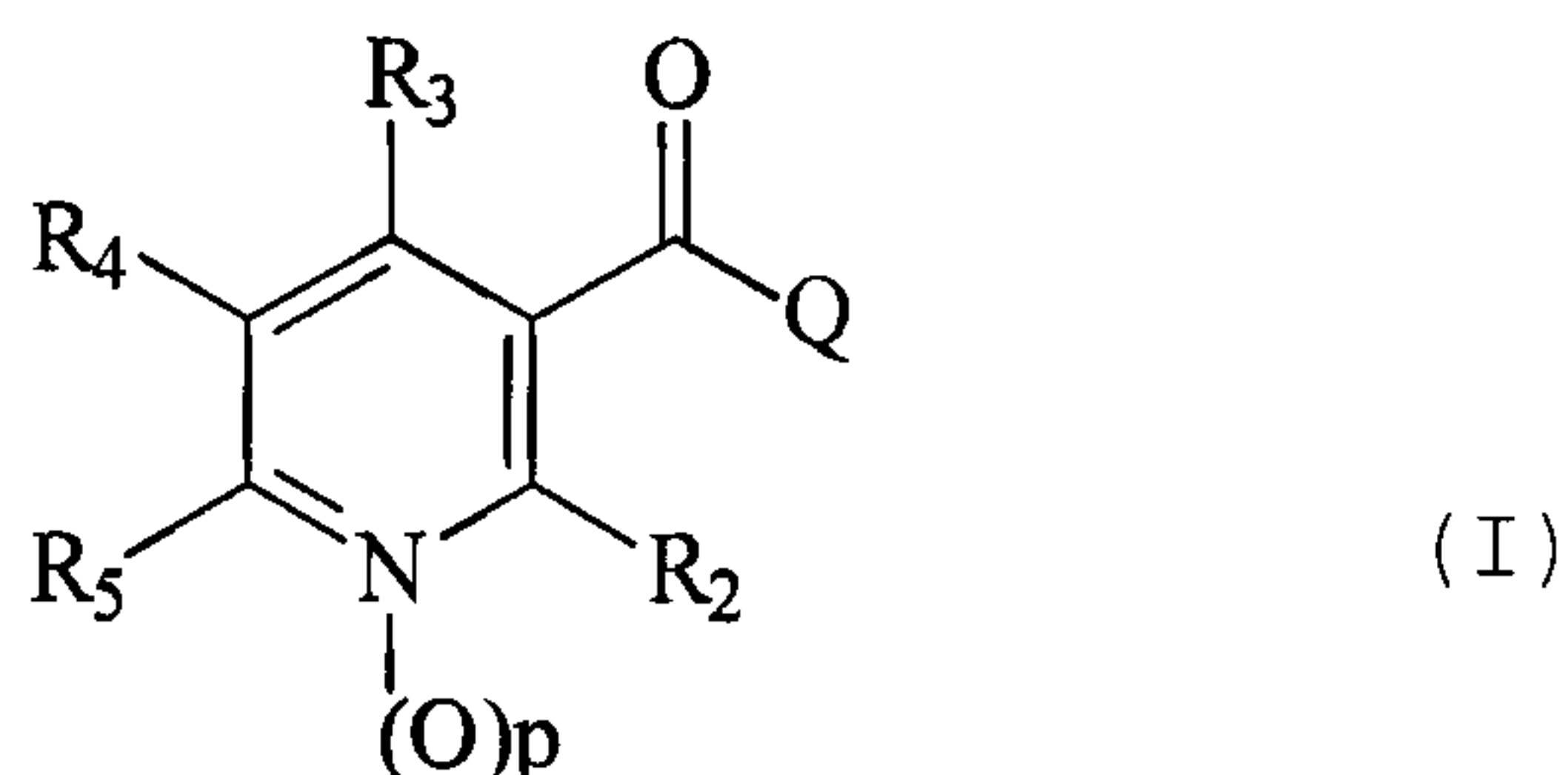
n₁₅ and n₁₆ independently of one another are 0, 1 or 2;

and the agrochemically tolerated salts M⁺ and all stereoisomers and tautomers of the compounds of the formula I.

According to one aspect of the present invention, there is provided a compound of the formula I

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5 in which

p is 0 or 1;

R₅ is C₁-C₆haloalkyl;

R₂ is hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, vinyl which is substituted by C₁-C₂alkoxycarbonyl or phenyl, or is C₂-C₆alkynyl, C₂-C₆haloalkynyl, ethynyl which is substituted by trimethylsilyl, hydroxyl, C₁-C₂alkoxy, C₁-C₂alkoxycarbonyl or phenyl, or is C₃-C₆allenyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl which is substituted by halogen, or is C₁-C₆alkoxy, C₃-C₆alkenyloxy, C₃-C₆-alkynyloxy, C₁-C₆haloalkoxy, C₃-C₆haloalkenyloxy, cyano-C₁-C₄alkoxy, C₁-C₄alkoxy-C₁-C₄alkoxy, C₁-C₄alkylthio-C₁-C₄alkoxy, C₁-C₄alkylsulfinyl-C₁-C₄alkoxy, C₁-C₄alkylsulfonyl-C₁-C₄alkoxy, C₁-C₄alkoxycarbonyl-C₁-C₄alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylthio, C₁-C₄alkoxycarbonyl-C₁-C₄alkylsulfinyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylsulfonyl, benzyl-S(O)_{n1}-, C₁-C₆alkylamino, C₂-C₆dialkylamino, C₁-C₆alkylaminosulfonyl, di-(C₁-C₆alkylamino)sulfonyl, benzyloxy, benzyl, phenyl, phenoxy, phenylthio, phenylsulfinyl or phenylsulfonyl, it being possible for the phenyl-containing groups, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro or R₂ is OS(O)_{n2}-R₂₁, N(R₂₃)-S(O)_{n3}-R₂₂,

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cyano, carbamoyl, C₁-C₄alkoxycarbonyl, formyl, halogen, thiocyanato, amino, hydroxy-C₁-C₄alkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkyl-S(O)_{n4}-C₁-C₄alkyl, cyano-C₁-C₄alkyl, C₁-C₆alkylcarbonyloxy-C₁-C₄alkyl, C₁-C₄alkoxycarbonyl-
5 C₁-C₄alkyl, C₁-C₄alkoxycarbonyloxy-C₁-C₄alkyl, C₁-C₄thiocyanato-C₁-C₄alkyl, benzoyloxy-C₁-C₄alkyl, C₂-C₆oxiranyl, C₁-C₄alkylamino-C₁-C₄alkyl, di-(C₁-C₄-alkyl)amino-C₁-C₄alkyl, C₁-C₁₂alkylthiocarbonyl-C₁-C₄alkyl or formyl-C₁-C₄alkyl, or R₂ is a five- to ten-membered
10 monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system being bonded to the pyridine ring via a C₁-C₄alkylene, -CH=CH-, -C≡C-, -CH₂O-,
15 -CH₂N(C₁-C₄alkyl)-, -CH₂SO-, or -CH₂SO₂ group and it not being possible for each ring system to contain more than 2 oxygen atoms and more than 2 sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆alkenyl,
20 C₃-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, mercapto, C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₂-C₅alkoxyalkylthio, C₃-C₅acetylalkylthio, C₃-C₆alkoxycarbonylalkylthio,
25 C₂-C₄cyanoalkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, di-(C₁-C₄alkyl)amino, halogen, cyano, nitro, phenyl and
30 benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen;

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R_3 is hydrogen or C_1 - C_6 alkyl;

R_4 is hydrogen, C_1 - C_6 alkyl, hydroxyl, C_1 - C_6 alkoxy, C_1 - C_6 haloalkoxy, C_3 - C_6 alkenyloxy, C_3 - C_6 haloalkenyloxy, C_3 - C_6 alkynyloxy, C_1 - C_4 alkylcarbonyloxy, C_1 - C_4 alkylsulfonyloxy, tosyloxy, C_1 - C_4 haloalkyl, or halogen;

R_{21} is C_1 - C_4 alkyl or C_1 - C_4 haloalkyl;

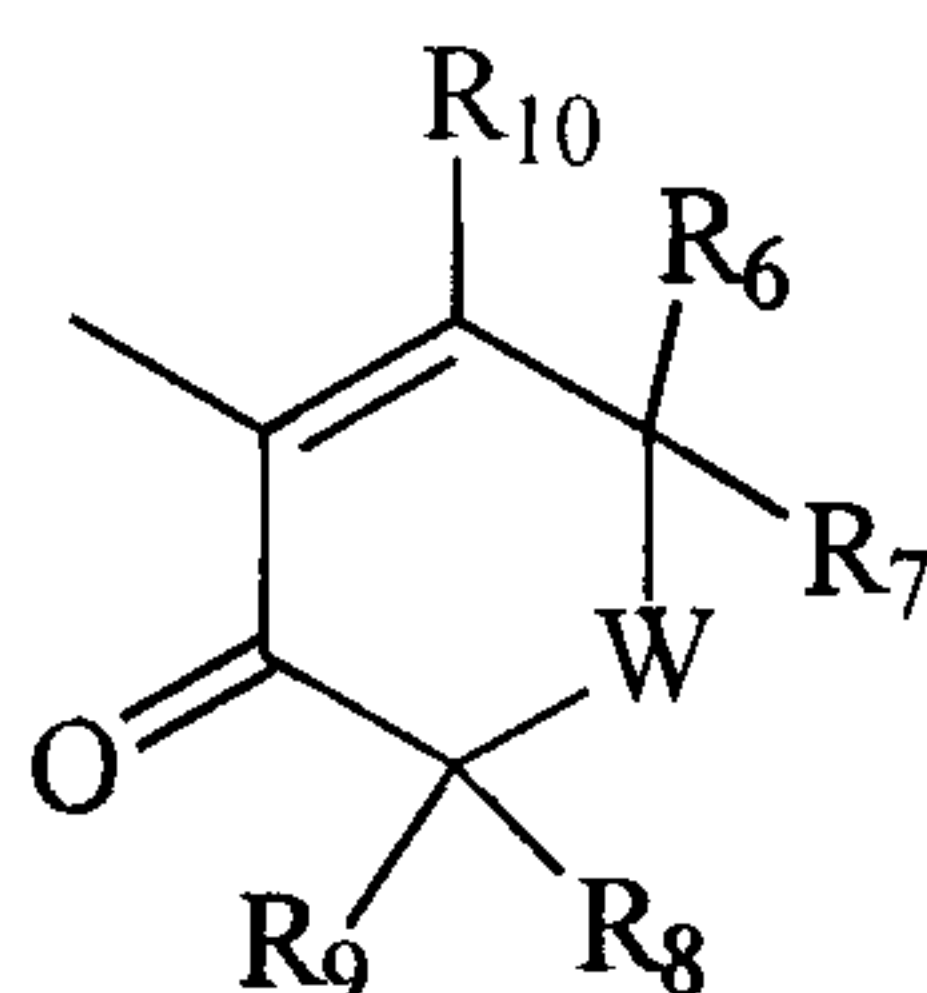
R_{22} is C_1 - C_4 alkyl, C_1 - C_4 haloalkyl or di- $(C_1$ - C_4 alkyl)amino;

R_{23} is hydrogen or C_1 - C_4 alkyl;

n , n_1 , n_2 , n_3 and n_4 independently of one another are 0, 1 or 2;

Q is Q_1

15

 (Q_1)

in which

R_6 , R_7 , R_8 and R_9 independently of one another are hydrogen, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_1 - C_6 alkoxycarbonyl, C_1 - C_6 alkylcarbonyl, C_1 - C_6 alkyl- $S(O)_{n17}$, C_1 - C_6 alkyl-NHS(O)₂, C_1 - C_6 alkylamino, di- $(C_1$ - C_6 alkyl)amino, hydroxyl, C_1 - C_6 alkoxy, C_3 - C_6 alkenyloxy, C_3 - C_6 alkynyloxy, hydroxy- C_1 - C_6 alkyl, C_1 - C_4 alkylsulfonyloxy- C_1 - C_6 alkyl, tosyloxy- C_1 - C_6 alkyl, C_1 - C_6 alkoxy- C_1 - C_6 alkyl, C_1 - C_6 alkyl- $S(O)_{n4}$ - C_1 - C_6 alkyl, cyano- C_1 - C_6 alkyl, C_1 - C_6 alkoxy- C_1 - C_6 alkoxy, benzyloxy- C_1 - C_6 alkyl, C_1 - C_6 alkoxycarbonyl- C_1 - C_6 alkyl, C_1 - C_6 alkoxycarbonyloxy- C_1 - C_6 alkyl, thiocyanato-

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C₁-C₆alkyl, oxiranyl, C₁-C₆alkylamino-C₁-C₆alkyl,
 di(C₁-C₆alkyl)amino-C₁-C₆alkyl, formyl-C₁-C₆alkyl,
 C₁-C₆alkyloximo, halogen, cyano, nitro, phenyl or phenyl
 which is substituted by C₁-C₄alkyl, C₁-C₄haloalkyl,
 5 C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl,
 C₁-C₄alkoxycarbonyl, amino, C₁-C₄alkylamino,
 di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n18}, C₁-C₄alkyl-S(O)₂O,
 C₁-C₄haloalkyl-S(O)_{n5}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-
 S(O)₂NH, C₁-C₄alkyl-S(O)_{n19}N(C₁-C₄alkyl)₂, halogen, nitro, COOH
 10 or cyano;

or adjacent R₆ and R₇ or R₈ and R₉ together are -(CH₂)_m-,
 C(O)O(CH₂)_{n20}- or -S(O)_{n21}(CH₂)_{n22}-;

n₅, n₁₇, n₁₈, n₁₉ and n₂₁ independently of one
 another are 0, 1 or 2;

15 n₂₀ is 2 or 3;

n₂₂ is 2, 3 or 4;

m is 2, 3, 4, 5 or 6;

W is oxygen, S(O)_{n6}, -CR₁₁R₁₂, -CR₆₃R₆₄CR₆₅R₆₆, -C(O)-
 or -NR₁₃;

20 R₆₃, R₆₄, R₆₅ and R₆₆ independently of one another
 are hydrogen or C₁-C₆alkyl, or R₆₅ together with R₇ or R₉
 forms a direct bond;

n₆ is 0, 1 or 2;

R₁₁ is hydrogen, C₁-C₄alkyl, C₁-C₄haloalkyl,
 25 C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄alkyl,
 C₁-C₄alkylthio-C₃-C₆cycloalkyl, C₁-C₄alkylcarbonyloxy-
 C₁-C₄alkyl, C₁-C₄alkylsulfonyloxy-C₁-C₄alkyl, tosyloxy-
 C₁-C₄alkyl, di-(C₁-C₃alkoxyalkyl)methyl,
 di-(C₁-C₃alkthioalkyl)methyl, (C₁-C₃alkoxyalkyl)-

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(C₁-C₃alkthioalkyl)methyl, C₃-C₅oxacycloalkyl,
 C₃-C₅thiacycloalkyl, C₃-C₄dioxacycloalkyl,
 C₃-C₄dithiacycloalkyl, C₃-C₅oxathiacycloalkyl, formyl,
 C₁-C₄alkoxycarbonyl, carbamoyl, C₁-C₄alkylaminocarbonyl,
 5 di-(C₁-C₄alkyl)aminocarbonyl, phenylaminocarbonyl,
 benzylaminocarbonyl or phenyl which, in turn, can be
 substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy,
 C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl,
 amino, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n₂₁},
 10 C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₇}, C₁-C₄haloalkyl-S(O)₂O,
 C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)_{n₂₀}N(C₁-C₄alkyl), halogen,
 nitro, COOH or cyano;

n₇, n₂₀ and n₂₁ independently of one another are 0,
 1 or 2;

15 or R₁₂ together with R₆ or R₉ is a group -(CH₂)_o-;

o is 1, 2, 3, 4 or 5;

R₁₂ is hydrogen, C₁-C₄alkyl or C₁-C₄haloalkyl;

or R₁₂ together with R₁₁ is a group -(CH₂)_{m₁};

m₁ is 2, 3, 4, 5 or 6;

20 R₁₀ is hydroxyl, O⁻M⁺, wherein M⁺ is -NH⁺(CH₂CH₃)₃,
 halogen, phenylthio, phenylsulfinyl or phenylsulfonyl;

R₁₃ is hydrogen, C₁-C₄alkyl, C₁-C₄alkylthio-
 C₁-C₄carbonyl, C₁-C₄alkylsulfinyl-C₁-C₄carbonyl,
 C₁-C₄alkylsulfonyl-C₁-C₄carbonyl, C₁-C₄-alkoxycarbonyl,
 25 C₁-C₄alkylcarbonyl, phenylcarbonyl, or is phenyl which, in
 turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl,
 C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl,
 C₁-C₄alkoxycarbonyl, C₁-C₄alkylamino, di-C₁-C₄-alkylamino,
 C₁-C₄alkyl-S(O)_{n₁₅}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₁₆},

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C_1 - C_4 haloalkyl- $S(O)_2O$, C_1 - C_4 alkyl- $S(O)_2NH$, C_1 - C_4 alkyl- $S(O)_2N(C_1$ - C_4 alkyl), halogen, nitro, or cyano; and

n_{15} and n_{16} independently of one another are 0, 1 or 2;

- 5 or an agrochemically tolerated salt M^+ or a stereoisomer or tautomer of a compound of the formula I.

The alkyl groups in the definitions of the substituents can be straight-chain or branched and are, for example, methyl, ethyl, n-propyl, iso-propyl, n-butyl,
 10 sec-butyl, iso-butyl, tert-butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl and dodecyl and their branched isomers. Alkoxy, alkenyl and alkynyl radicals are derived from the abovementioned alkyl radicals. The alkenyl and alkynyl groups can be mono- or polyunsaturated.

- 15 An alkylene group for example, $-(CH_2)_m-$, $-(CH_2)_{m1}-$ or $-(CH_2)_o-$ can be substituted by one or more methyl group; preferably, such alkylene groups are in each case unsubstituted. The same also applies to the $-C(O)O(CH_2)_{n20}-$ and $-S(O)_{n21}(CH_2)_{n22}-$ group and to all C_3 - C_6 cycloalkyl-,
 20 C_3 - C_5 oxacycloalkyl-, C_3 - C_5 thiacycloalkyl-, C_3 - C_4 dioxacycloalkyl-, C_3 - C_4 dithiacycloalkyl-, C_3 - C_4 oxathiacycloalkyl-containing groups.

- Halogen is, as a rule, fluorine, chlorine, bromine or iodine. This also applies analogously to halogen in
 25 conjunction with other meanings such as haloalkyl or halophenyl.

- Haloalkyl groups with a chain length of 1 up to 6 carbon atoms are, for example, fluoromethyl, difluoromethyl, trifluoromethyl, chloromethyl, dichloromethyl,
 30 trichloromethyl,

2,2,2-trifluoroethyl, 1-fluoroethyl, 2-fluoroethyl, 2-chloroethyl, 2-fluoroprop-2-yl, pentafluoroethyl, 1,1-difluoro-2,2,2-trichloroethyl, 2,2,3,3-tetrafluoroethyl and 2,2,2-trichloroethyl, pentafluoroethyl, heptafluoro-n-propyl, perfluoro-n-hexyl; haloalkyl groups in the meanings R_2 , R_3 and, in particular, R_5 are preferably trichloromethyl, fluoromethyl, dichlorofluoromethyl, difluorochloromethyl, difluoromethyl, trifluoromethyl, pentafluoroethyl or heptafluoro-n-propyl.

Suitable as haloalkyl are monohalogenated or polyhalogenated alkenyl groups, where halogen is fluorine, chlorine, bromine and iodine, and in particular fluorine and chlorine, for example 1-chlorovinyl, 2-chlorovinyl, 2,2-difluorovinyl, 2,2-difluoroprop-1-en-2-yl, 2,2-dichlorovinyl, 3-fluoroprop-1-en-1-yl, chloroprop-1-en-1-yl, 3-bromoprop-1-en-1-yl, 2,3,3-trifluoroprop-2-en-1-yl, 2,3,3-trichloroprop-2-en-1-yl and 4,4,4-trifluorobut-2-en-1-yl. Preferred amongst the monohalogenated, dihalogenated or trihalogenated C_2 - C_6 alkenyl groups are those which have a chain length of 2 to 5 carbon atoms.

Suitable as haloalkynyl are, for example, monohalogenated or polyhalogenated alkynyl groups, where halogen is bromine, iodine and, in particular, fluorine and chlorine, for example 3-fluoropropynyl, 3-chloropropynyl, 3-bromopropynyl, 3,3,3-trifluoropropynyl and 4,4,4-trifluorobut-2-yn-1-yl. Preferred amongst the monohalogenated or polyhalogenated alkynyl groups are those which have a chain length of 2 to 5 carbon atoms.

A monohalogenated or polyhalogenated C_3 - C_6 cycloalkyl group is, for example, the 2,2-dichlorocyclopropyl, 2,2-dibromocyclopropyl, 2,2,3,3-tetrafluorocyclobutyl or 2,2-difluoro-3,3-dichlorocyclobutyl group.

Alkoxy groups preferably have a chain length of 1 to 6 carbon atoms. Alkoxy is, for example, methoxy, ethoxy, propoxy, i-propoxy, n-butoxy, iso-butoxy, sec-butoxy and tert-butoxy and the pentyloxy and hexyloxy isomers; preferably methoxy and ethoxy. Alkylcarbonyl is preferably acetyl or propionyl. Alkoxy carbonyl is, for example, methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, iso-propoxycarbonyl, n-butoxycarbonyl, iso-butoxycarbonyl, sec-butoxycarbonyl or tert-butoxycarbonyl; preferably methoxycarbonyl, ethoxycarbonyl or tert-butoxycarbonyl. Haloalkoxy groups preferably have a chain length of 1 to 6 carbon atoms.

Haloalkoxy is, for example, fluoromethoxy, difluoromethoxy, trifluoromethoxy, 2,2,2-trifluoroethoxy, 1,1,2,2-tetrafluoroethoxy, 1-fluoroethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2,2-difluoroethoxy and 2,2,2-trichloroethoxy; preferably fluoromethoxy, difluoromethoxy, 2-chloroethoxy and trifluoromethoxy.

Alkylthio groups preferably have a chain length of 1 to 8 carbon atoms. Alkylthio is, for example, methylthio, ethylthio, propylthio, iso-propylthio, n-butylthio, iso-butylthio, sec-butylthio or tert-butylthio, preferably methylthio and ethylthio. Alkylsulfinyl is, for example, methylsulfinyl, ethylsulfinyl, propylsulfinyl, iso-propylsulfinyl, n-butylsulfinyl, iso-butylsulfinyl, sec-butylsulfinyl, tert-butylsulfinyl; preferably methylsulfinyl and ethylsulfinyl.

Alkylsulfonyl is, for example, methylsulfonyl, ethylsulfonyl, propylsulfonyl, iso-propylsulfonyl, n-butylsulfonyl, iso-butylsulfonyl, sec-butylsulfonyl or tert-butylsulfonyl; preferably methylsulfonyl or ethylsulfonyl.

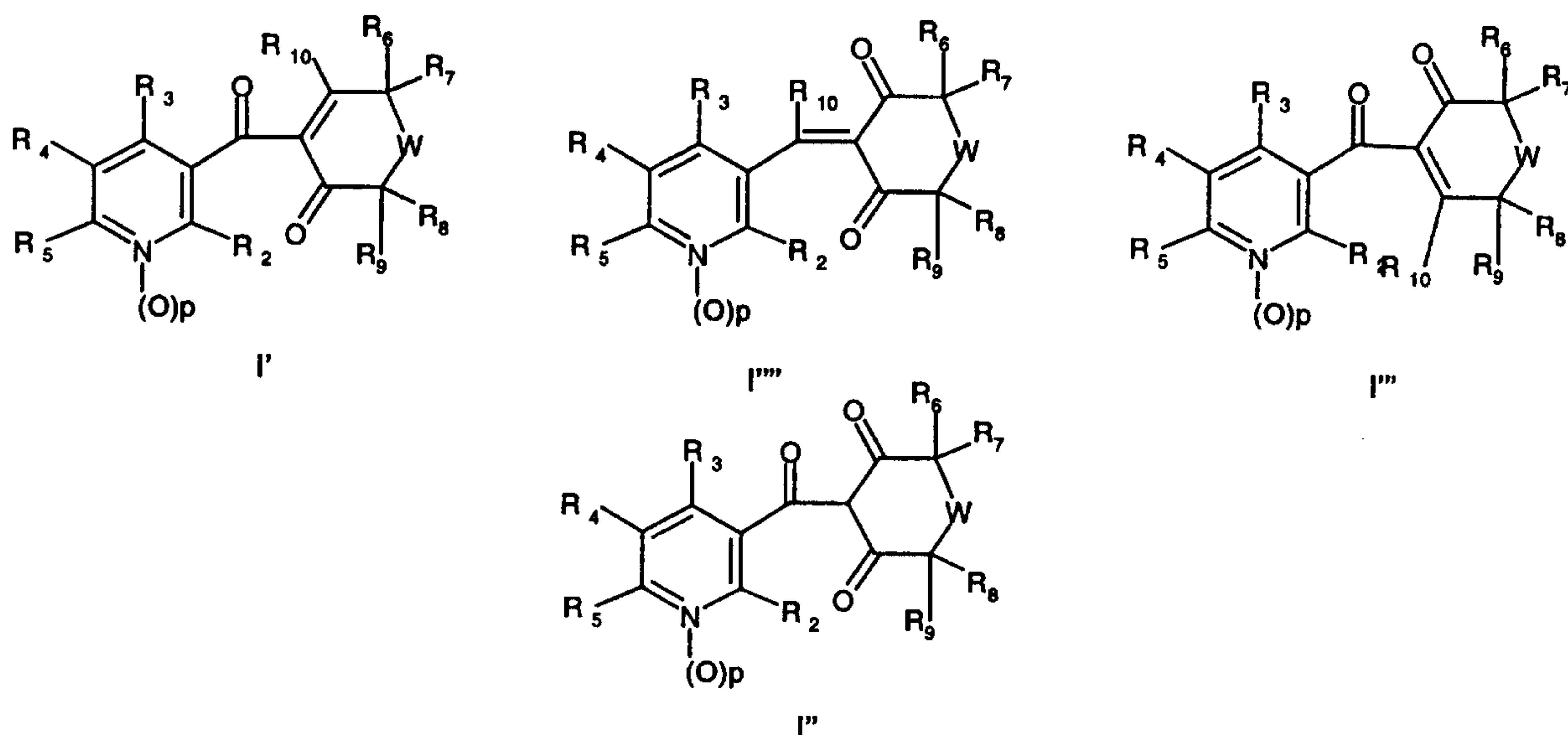
Alkylamino is, for example, methylamino, ethylamino, n-propylamino, iso-propylamino or the butylamino isomers. Dialkylamino is, for example, dimethylamino, methylethylamino, diethylamino, n-propylmethylamino, di-butylamino and di-iso-propylamino. Preferred are alkylamino groups having a chain length of 1 to 4 carbon atoms. Alkoxyalkyl groups preferably have 1 to 6 carbon atoms. Alkoxyalkyl is, for example, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, n-propoxymethyl, n-propoxyethyl, iso-propoxymethyl or iso-propoxyethyl. Alkylthioalkyl groups preferably have 1 to 6 carbon atoms. Alkylthioalkyl is, for example, methylthiomethyl, methylthioethyl, ethylthiomethyl, ethylthioethyl, n-propylthiomethyl, n-propylthioethyl, iso-propylthiomethyl, iso-propylthioethyl, butylthiomethyl, butylthioethyl or butylthiobutyl.

Phenyl, also as part of a substituent such as phenoxy, benzyl, benzyloxy, benzoyl, phenylthio, phenylalkyl, phenoxyalkyl or tosyl can be in monosubstituted or polysubstituted form. In this case, the substituents can be in any of the ortho, meta and/or para position(s).

Allenyl is, for example, $\text{CH}_2=\text{C}=\text{CH}_2$, $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}=\text{CH}_2$, $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}_2-\text{CH}=\text{CH}_2$ or $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_3$.

The invention also extends to the salts M^+ which the compounds of the formula I, in particular those compounds of the formula I in which R_{10} is O^-M^+ , can form, preferably with amines, alkali metal bases, alkaline earth metal bases or quaternary ammonium bases. The following must be emphasized as salt formers amongst the alkali metal bases and alkaline earth metal bases: the hydroxides of lithium, sodium, potassium, magnesium or calcium, in particular those of sodium or potassium. Examples of amines which are suitable for ammonium salt formation are not only ammonia, but also primary, secondary and tertiary C_1 - C_{18} alkylamines, C_1 - C_4 hydroxyalkylamines and C_2 - C_4 alkoxyalkylamines, for example methylamine, ethylamine, n-propylamine, iso-propylamine, the four butylamine isomers, n-amylamine, iso-amylamine, hexylamine, heptylamine, octylamine, nonylamine, decylamine, pentadecylamine, hexadecylamine, heptadecylamine, octadecylamine, methylethylamine, methylisopropylamine, methylhexylamine, methylnonylamine, methyl-pentadecylamine, methyloctadecylamine, ethylbutylamine, ethylheptylamine, ethyloctylamine, hexylheptylamine, hexyloctylamine, dimethylamine, diethylamine, di-n-propylamine, di-iso-propylamine, di-n-butylamine, di-n-amylamine, di-iso-amylamine, dihexylamine, diheptylamine, dioctylamine, ethanolamine, n-propanolamine, iso-propanolamine, N,N-diethanolamine, N-ethylpropanolamine, N-butylethanolamine, allylamine, n-butenyl-2-amine, n-pentenyl-2-amine, 2,3-dimethylbutenyl-2-amine, dibutenyl-2-amine, n-hexenyl-2-amine, propylenediamine, trimethylamine, triethylamine, tri-n-propylamine, tri-iso-propylamine, tri-n-butylamine, tri-iso-butylamine, tri-sec-butylamine, tri-n-amylamine, methoxyethylamine and ethoxyethylamine; heterocyclic amines for example, pyridine, quinoline, iso-quinoline, morpholine, piperidine, pyrrolidine, indoline, quinuclidine and azepine; primary arylamines for example anilines, methoxyanilines, ethoxyanilines, o-, m-, p-toluidines, phenylenediamines, naphthylamines and o-, m- and p-chloroanilines; but in particular triethylamine, iso-propylamine and di-iso-propylamine. Examples of quaternary ammonium bases which are suitable for salt formation are, for example, $[N(R_a R_b R_c R_d)]^+OH^-$, where R_a , R_b , R_c and R_d independently of one another are C_1 - C_4 alkyl. Other suitable tetraalkylammonium bases with other anions can be obtained, for example, by anion exchange reactions. M^+ preferably represents an ammonium salt, in particular NH_4^+ , or an alkali metal, in particular potassium or sodium.

The compounds of the formula I can occur in various tautomeric forms, for example, if R_{10} is hydroxyl, in the preferred formulation I' and I''



Preferred among the compounds of the formula I are those in which

p is 0;

R₅ is C₁-C₆haloalkyl;

R₂ is hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, C₃-C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆-haloalkylsulfonyl, benzyl-S(O)_{n1}-, C₁-C₆alkylamino, C₂-C₆dialkylamino, C₁-C₆-alkylaminosulfonyl, C₂-C₆-dialkylaminosulfonyl, phenyl, phenoxy, phenylthio, phenylsulfinyl or phenylsulfonyl, it being possible for the phenyl group, in turn, to be substituted by C₁-C₃-alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, or is OS(O)_{n2}-R₂₁, N(R₂₃)-S(O)_{n3}-R₂₂, cyano, halogen, amino, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkyl-S(O)_{n4}-C₁-C₄alkyl, cyano-C₁-C₄alkyl or C₁-C₄alkoxy-C₁-C₄alkoxy;

R₃ is hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, C₃-C₆cycloalkyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆-haloalkylsulfonyl, C₁-C₆alkylamino, C₂-C₆dialkylamino, C₁-C₆alkylaminosulfonyl, C₂-C₆-dialkylaminosulfonyl, phenyl, phenylthio, phenylsulfinyl, phenylsulfonyl or phenoxy, it being possible for phenyl, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, or is -N(R₂₃)-S(O)_n-R₂₂, cyano, halogen, amino, C₁-C₄alkoxy-C₁-C₄alkyl or C₁-C₄alkyl-S(O)_n-C₁-C₄alkyl;

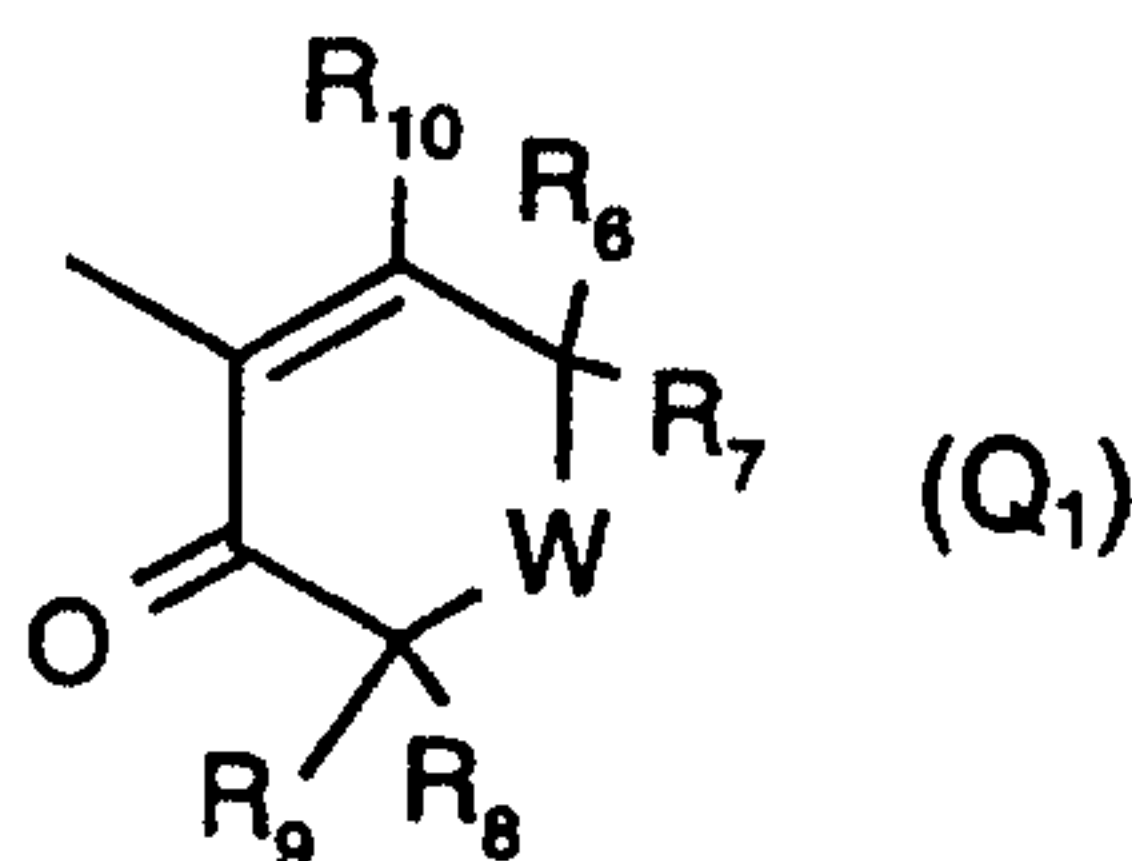
R_4 is hydrogen, C_1 - C_6 alkyl, C_1 - C_4 alkoxy, C_1 - C_4 haloalkoxy, C_1 - C_4 alkylcarbonyloxy, C_1 - C_4 -alkylthio, C_1 - C_4 alkylsulfinyl, C_1 - C_4 alkylsulfonyl, C_1 - C_4 haloalkyl, formyl, cyano, halogen, phenyl or phenoxy, it being possible for phenyl, in turn, to be substituted by C_1 - C_3 alkyl, C_1 - C_3 haloalkyl, C_1 - C_3 alkoxy, C_1 - C_3 haloalkoxy, halogen, cyano or nitro; or R_4 is a five- to ten-membered monocyclic or R_3 -fused bicyclic ring system which can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system being bonded to the pyridine ring via a C_1 - C_4 alkylene group and it not being possible for the ring system to contain more than 2 oxygen atoms and not more than two sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_2 - C_6 alkenyl, C_2 - C_6 haloalkenyl, C_2 - C_6 alkynyl, C_2 - C_6 haloalkynyl, C_1 - C_6 alkoxy, C_1 - C_6 haloalkoxy, C_3 - C_6 alkenyloxy, C_3 - C_6 alkynyloxy, C_1 - C_6 -Alkylthio, C_1 - C_6 haloalkylthio, C_3 - C_6 alkenylthio, C_3 - C_6 haloalkenylthio, C_3 - C_6 alkynylthio, C_1 - C_4 -alkoxy- C_1 - C_2 alkylthio, C_1 - C_4 alkylcarbonyl- C_1 - C_2 alkylthio, C_1 - C_4 alkoxycarbonyl- C_1 - C_2 alkylthio, cyano- C_1 - C_4 alkylthio, C_1 - C_6 alkylsulfinyl, C_1 - C_6 haloalkylsulfinyl, C_1 - C_6 alkylsulfonyl, C_1 - C_6 -haloalkylsulfonyl, aminosulfonyl, C_1 - C_2 alkylaminosulfonyl, C_2 - C_4 dialkylaminosulfonyl, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C_1 - C_3 alkyl, C_1 - C_3 haloalkyl, C_1 - C_3 alkoxy, C_1 - C_3 -haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen;

R_{21} and R_{22} independently of one another are C_1 - C_4 alkyl or C_1 - C_4 haloalkyl;

R_{23} , R_{24} and R_{25} independently of one another are hydrogen or C_1 - C_4 alkyl;

n , n_1 , n_2 , n_3 and n_4 independently of one another are 0, 1 or 2;

Q is Q_1



in which

R_6 , R_7 , R_8 and R_9 independently of one another are hydrogen, C_1 - C_6 alkyl, C_1 - C_6 haloalkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_1 - C_6 alkoxycarbonyl, C_1 - C_6 alkyl- $S(O)_{n17}$, C_1 - C_6 alkyl-NHS(O)₂, C_1 - C_6 alkylamino, di- $(C_1$ - C_6 alkyl)amino, hydroxyl, C_1 - C_6 alkoxy, C_3 - C_6 alkenyloxy, C_3 - C_6 -alkynyloxy, hydroxy- C_1 - C_6 alkyl, C_1 - C_4 alkylsulfonyloxy- C_1 - C_6 alkyl, tosyloxy- C_1 - C_6 alkyl, halogen, cyano, nitro, phenyl or phenyl which is substituted by C_1 - C_4 alkyl, C_1 - C_4 haloalkyl,

C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, amino, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n₁₈}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₅}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)_{n₁₉}N(C₁-C₄alkyl), halogen, nitro, COOH or cyano;

or adjacent R₆ and R₇ or R₈ and R₉ together are -(CH₂)_m-;

n₅, n₁₇, n₁₈ and n₁₉ independently of one another are 0, 1 or 2;

m is 2, 3, 4, 5, or 6;

W is oxygen, S(O)_{n₆}, -CR₁₁, R₁₂-, -C(O)- or -NR₁₃-;

n₆ is 0, 1 or 2;

R₁₁ is hydrogen, C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄alkyl, C₁-C₄alkylcarbonyloxy-C₁-C₄alkyl, C₁-C₄alkylsulfonyloxy-C₁-C₄alkyl, tosyloxy-C₁-C₄alkyl, di-(C₁-C₃alkoxyalkyl)methyl, di-(C₁-C₃alkylthioalkyl)methyl, (C₁-C₃alkoxyalkyl)-(C₁-C₃alkylthioalkyl)methyl, C₃-C₅oxacycloalkyl, C₃-C₅thiacycloalkyl, C₃-C₄dioxacycloalkyl, C₃-C₄dithiacycloalkyl, C₃-C₄oxathiacycloalkyl, formyl, C₁-C₄alkoxycarbonyl or phenyl which, in turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, amino, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n₂₁}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₇}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)_{n₂₀}N(C₁-C₄alkyl), halogen, nitro, COOH or cyano;

n₇, n₂₀ and n₂₁ independently of one another are 0, 1 or 2;

or R₁₂ together with R₉ is a group -(CH₂)_o-;

o is 1, 2, 3, 4 or 5;

R₁₂ is hydrogen, C₁-C₄alkyl or C₁-C₄haloalkyl;

or R₁₂ together with R₁₁ is a group -(CH₂)_{m₁}-;

m₁ is 2, 3, 4, 5, or 6;

R₁₀ is hydroxyl, O⁻M⁺, halogen, C₁-C₁₂alkoxy, C₁-C₁₂alkylcarbonyloxy, C₂-C₄alkenylcarbonyloxy, C₃-C₆cycloalkylcarbonyloxy, C₁-C₁₂alkoxycarbonyloxy, C₁-C₁₂alkylcarbonyloxy, R₂₃R₂₄N-C(O)O, C₁-C₁₂alkylS(O)_{n₈}-, C₁-C₄haloalkyl-S(O)_{n₉}-, C₂-C₁₂alkenylS(O)_{n₁₀}-, C₂-C₁₂haloalkenylS(O)_{n₁₁}-, C₂-C₁₂alkynylS(O)_{n₁₂}-; benzyloxy, phenoxy, phenylthio, phenylsulfinyl or phenylsulfonyl, where the phenyl group, in turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, C₁-C₄alkylamino, di-C₁-C₄alkylamino, C₁-C₄alkyl-S(O)_{n₁₃}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₁₄}, C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)₂N(C₁-C₄alkyl), halogen, nitro or cyano, or is C₁-C₄alkyl-S(O)₂O, phenyl-S(O)₂O, (C₁-C₄alkoxy)₂P(O)O, C₁-C₄alkyl(C₁-C₄alkoxy)P(O)O, or H(C₁-C₄alkoxy)P(O)O;

$n_8, n_9, n_{10}, n_{11}, n_{12}, n_{13}$ and n_{14} independently of one another are 0, 1 or 2;

R_{13} is hydrogen, C_1 - C_4 alkyl, C_1 - C_4 alkoxycarbonyl or phenyl which, in turn, can be substituted by C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 haloalkoxy, C_1 - C_4 alkylcarbonyl, C_1 - C_4 alkoxycarbonyl, C_1 - C_4 alkylamino, di- C_1 - C_4 alkylamino, C_1 - C_4 alkyl-S(O) $_{n_{15}}$, C_1 - C_4 alkyl-S(O) $_2$ O, C_1 - C_4 haloalkyl-S(O) $_{n_{16}}$, C_1 - C_4 haloalkyl-S(O) $_2$ O, C_1 - C_4 alkyl-S(O) $_2$ NH, C_1 - C_4 alkyl-S(O) $_2$ N(C_1 - C_4 alkyl), halogen, nitro or cyano;

n_{15} and n_{16} independently of one another are 0, 1 or 2;

and the agrochemically tolerated salts M^+ and all stereoisomers and tautomers of the compounds of the formula I.

In a preferred group of compounds of the formula I, R_{10} is halogen, thiocyanato, C_1 - C_{12} alkylthio, C_1 - C_{12} alkylsulfinyl, C_1 - C_{12} alkylsulfonyl, C_1 - C_{12} haloalkylthio, C_1 - C_{12} haloalkylsulfinyl, C_1 - C_{12} haloalkylsulfonyl, C_1 - C_{12} alkenylthio, C_2 - C_{12} alkenylsulfinyl, C_2 - C_{12} alkenylsulfonyl, C_2 - C_{12} haloalkenylthio, C_2 - C_{12} haloalkenylsulfinyl, C_2 - C_{12} haloalkenylsulfonyl, C_2 - C_{12} alkynylthio, C_2 - C_{12} alkynylsulfinyl, C_2 - C_{12} alkynylsulfonyl, C_1 - C_4 alkoxycarbonyl- C_1 - C_2 alkylthio, C_1 - C_4 alkoxycarbonyl- C_1 - C_2 alkylsulfinyl, C_1 - C_4 alkoxycarbonyl- C_1 - C_2 alkylsulfonyl, C_1 - C_8 alkyl-S(O) $_2$ NH, C_1 - C_8 haloalkyl-S(O) $_2$ NH, C_1 - C_8 alkyl-S(O) $_2$ O, C_1 - C_{18} alkylcarbonyloxy, C_2 - C_{18} alkenylcarbonyloxy, C_3 - C_6 cycloalkylcarbonyloxy, C_1 - C_{12} alkoxycarbonyloxy, C_1 - C_{12} alkylthiocarbonyloxy, $R_{16}R_{17}NC(O)O^-$, $R_{16}R_{17}NC(S)O^-$, benzylthio, benzylsulfinyl, benzylsulfonyl, phenylthio, phenylsulfinyl, phenylsulfonyl, phenylsulfonyloxy or benzoyloxy, it being possible for the phenyl groups, in turn, to be substituted as indicated in claim 1; or is a group Ar_1 -thio, Ar_1 -sulfinyl, Ar_1 -sulfonyl in which Ar_1 is a five- or six-membered monocyclic ring system which can be aromatic or partially saturated and can contain 1 to 2 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur and which, in turn, can be substituted as indicated in claim 1; or is thienylcarbonyloxy or furylcarbonyloxy, it being possible for these, in turn, to be substituted by methyl or halogen, or pyridylcarbonyloxy which, in turn, can be substituted as indicated in claim 1.

In preferred compounds of the formula I, furthermore, R_{10} is hydroxyl or O^-M^+ .

Other compounds of the formula I which must be emphasized are those in which W is oxygen, $-CR_{11}R_{12}-$ or $-C(O)-$, where, in particular when W is $-CR_{11}R_{12}-$,

a) R_6 is hydrogen, methyl, ethyl, cyano, methoxycarbonyl, ethoxycarbonyl, methylthio, methylsulfinyl, methylsulfonyl or methoxy; and R_7, R_8, R_9, R_{11} and R_{12} independently of one another are hydrogen, C_1 - C_4 alkyl, C_1 - C_3 haloalkyl, C_2 - C_3 alkenyl or C_2 - C_3 alkynyl, or

- b) adjacent R_6 and R_7 and/or R_8 and R_9 together are $-(CH_2)_m-$, $-C(O)O(CH_2)_2-$ or $S(O)_{n21}(CH_2)_3-$; or
- c) R_6 is hydrogen, methyl, ethyl, methoxycarbonyl, ethoxycarbonyl, methylthio, methylsulfinyl, methylsulfonyl or methoxy and R_{12} together with R_9 is $-(CH_2)_0-$.

Furthermore, preferred groups of compounds of the formula I are those in which W is oxygen and R_6 , R_7 , R_8 and R_9 independently of one another are hydrogen or C_1 - C_3 alkyl; or

W is $-C(O)-$ and R_6 , R_7 , R_8 and R_9 independently of one another are C_1 - C_3 alkyl; or R_2 is hydrogen and R_3 is methyl; or

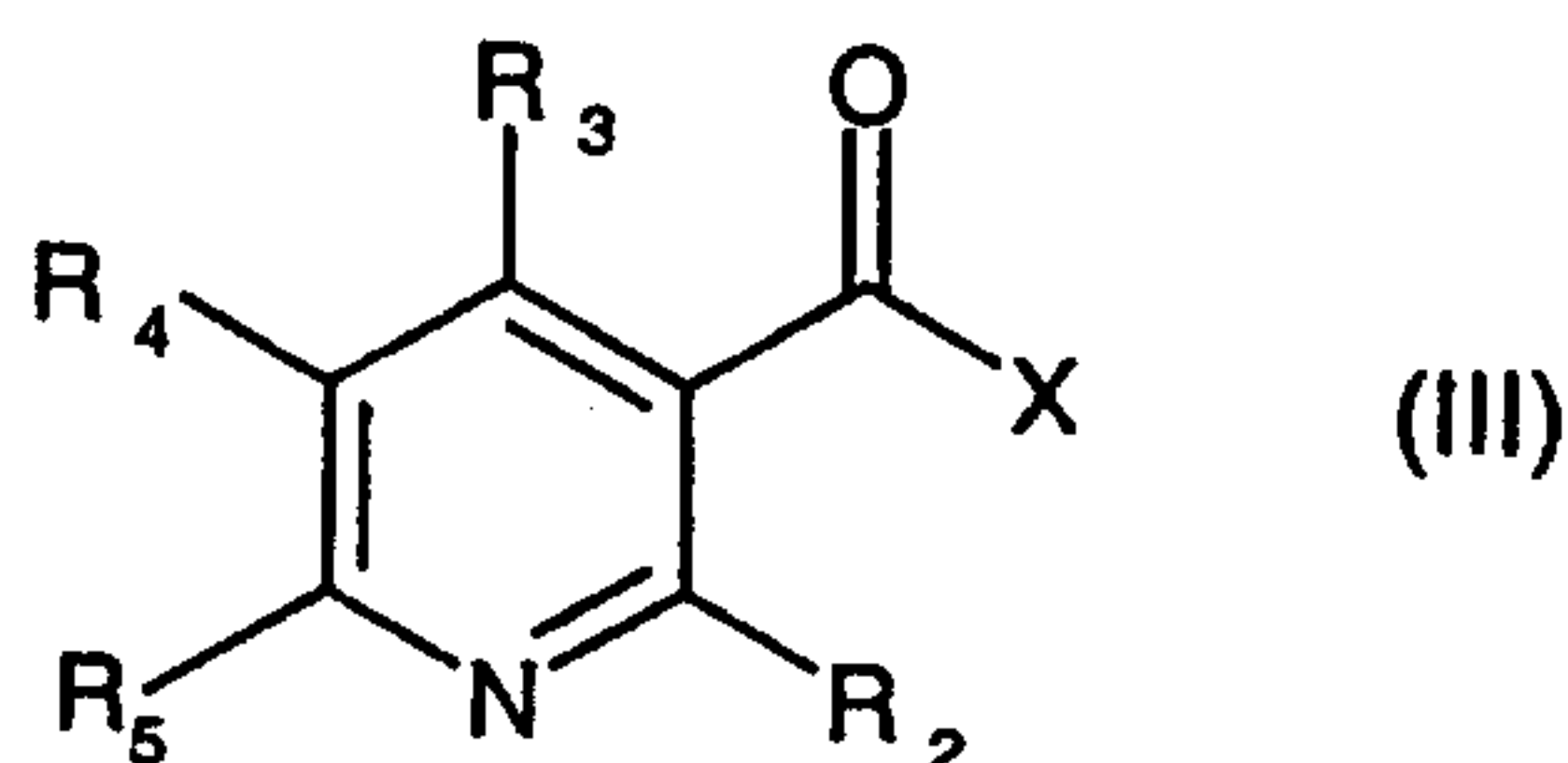
R_2 is methyl, ethyl, n-propyl, i-propyl, vinyl, methoxymethyl, methoxycarbonyloxymethyl, ethoxycarbonyloxymethyl, acetoxymethyl, propionyloxymethyl, chloromethyl, bromomethyl, fluoromethyl, difluoromethyl, trifluoromethyl or cyanomethyl.

Other compounds of the formula I which must be emphasized are those in which R_4 is hydrogen or methyl or R_5 is trifluoromethyl, difluorochloromethyl, pentafluoroethyl, heptafluoropropyl or difluoromethyl.

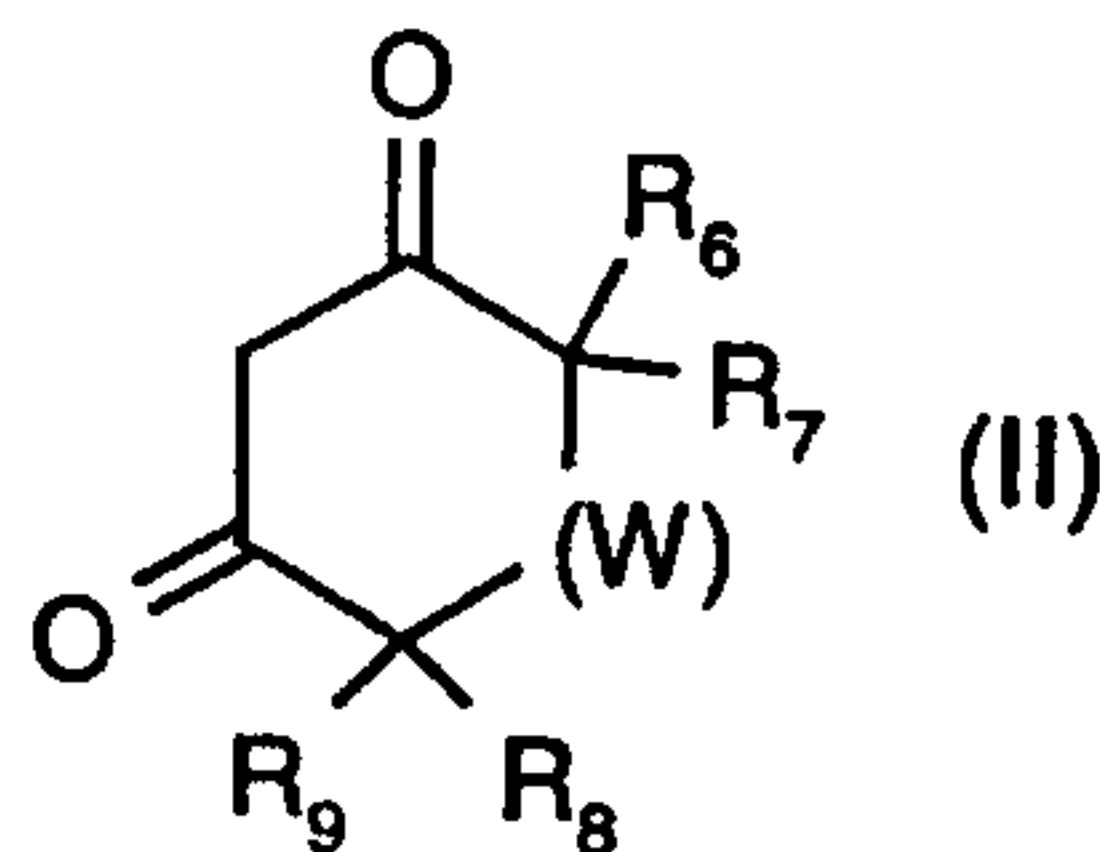
In a further preferred group of compounds of the formula I, R_3 is hydrogen, R_2 is C_1 - C_4 alkyl, C_1 - C_3 haloalkyl, cyclopropyl, C_2 - C_3 alkenyl, C_2 - C_3 haloalkenyl, C_2 - C_3 alkynyl, allenyl, C_1 - C_2 -alkoxy- C_1 - C_2 alkyl, C_1 - C_2 alkylthio- C_1 - C_2 alkyl, cyano- C_1 - C_2 alkyl, C_1 - C_2 alkoxycarbonyl- C_1 - C_2 -alkyl, C_1 - C_4 alkylcarbonyloxy- C_1 - C_2 alkyl, C_1 - C_3 alkoxy, C_1 - C_3 haloalkoxy, allyloxy, propargyloxy, C_1 - C_3 alkylthio, C_1 - C_3 alkylsulfinyl or cyano.

The compounds of the formula I in which Q is a group Q_1 can be prepared using processes which are known per se, for example those described in EP-A-0 353 187 and EP-A-0 316 491, for example either by

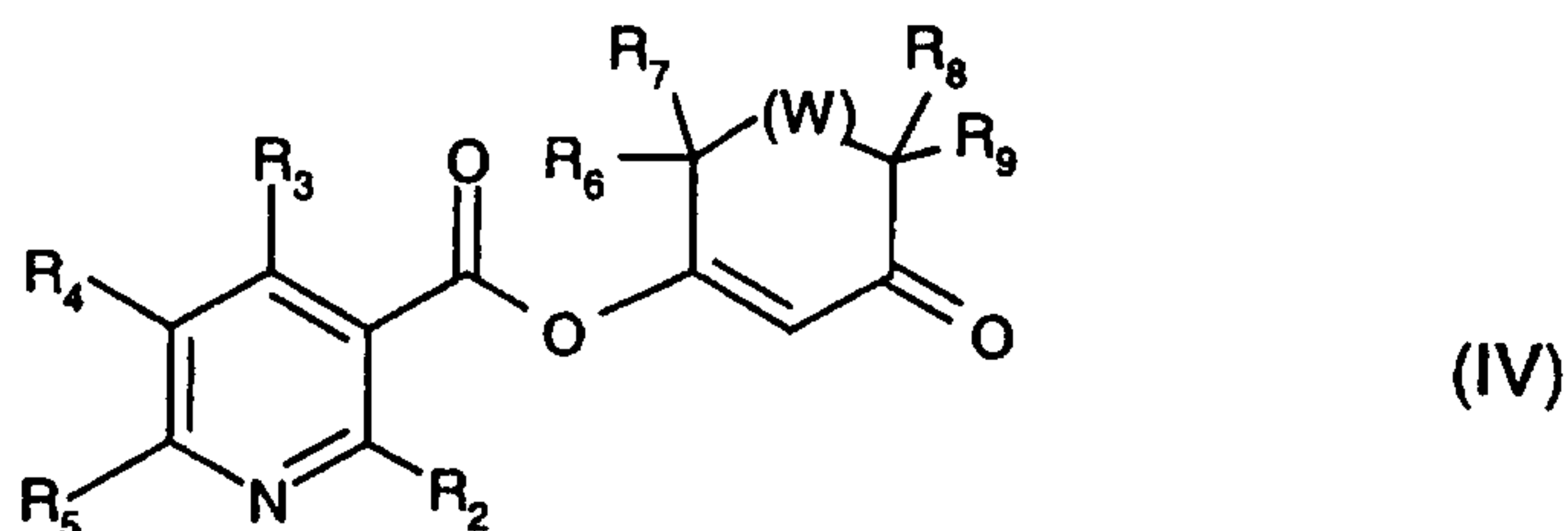
- a) reacting a compound of the formula III



in which R_2 , R_3 , R_4 and R_5 have the meaning given under formula I and X is a leaving group, for example halogen or cyano, with a compound of the formula II

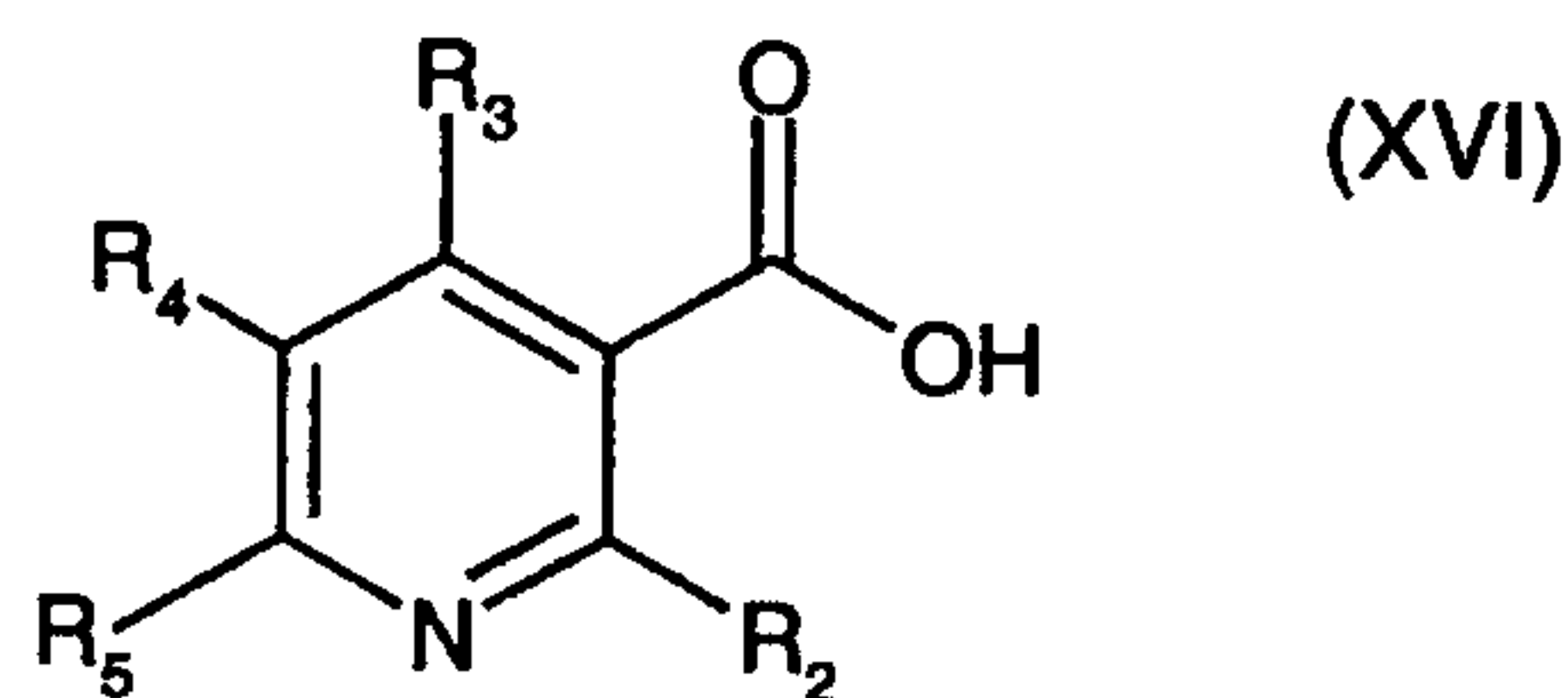


in which R_6 , R_7 , R_8 , R_9 and W have the meaning given under formula I in the presence of a base and in an inert organic solvent to give the compound of the formula IV

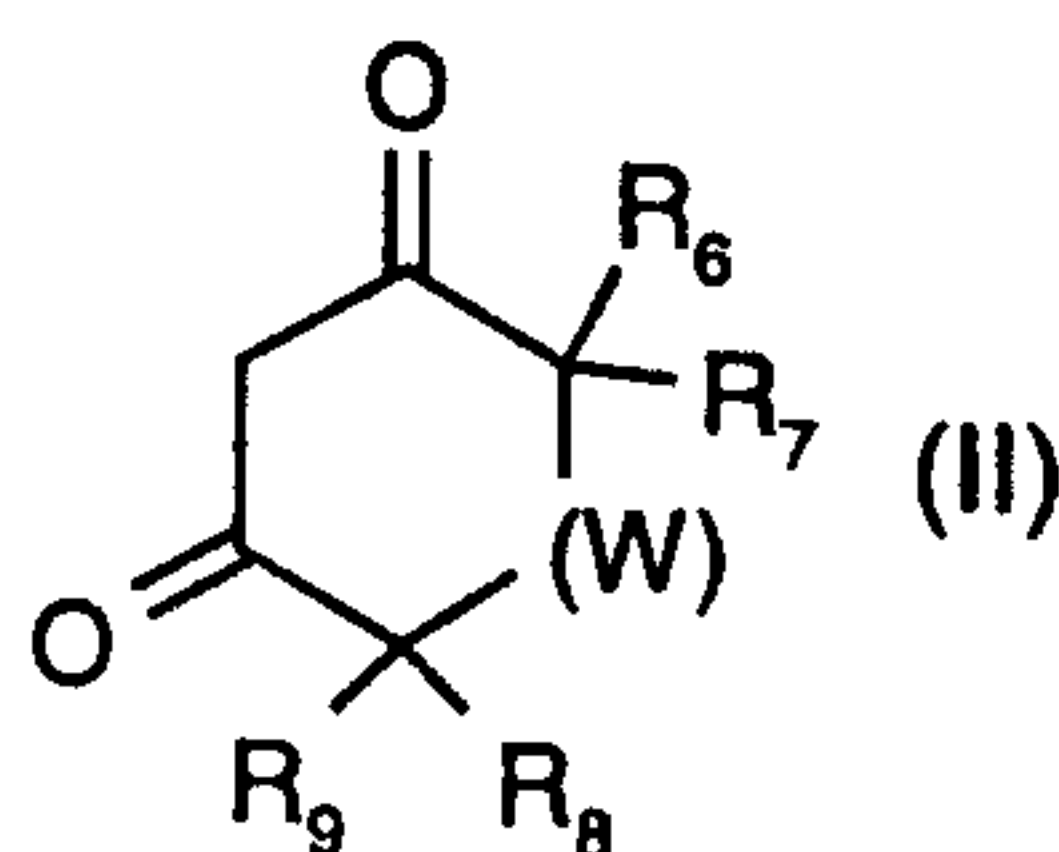


and subsequently isomerizing the latter, for example in the presence of a base and a catalytic amount of dimethylaminopyridine (DMAP) or a cyanide source; or

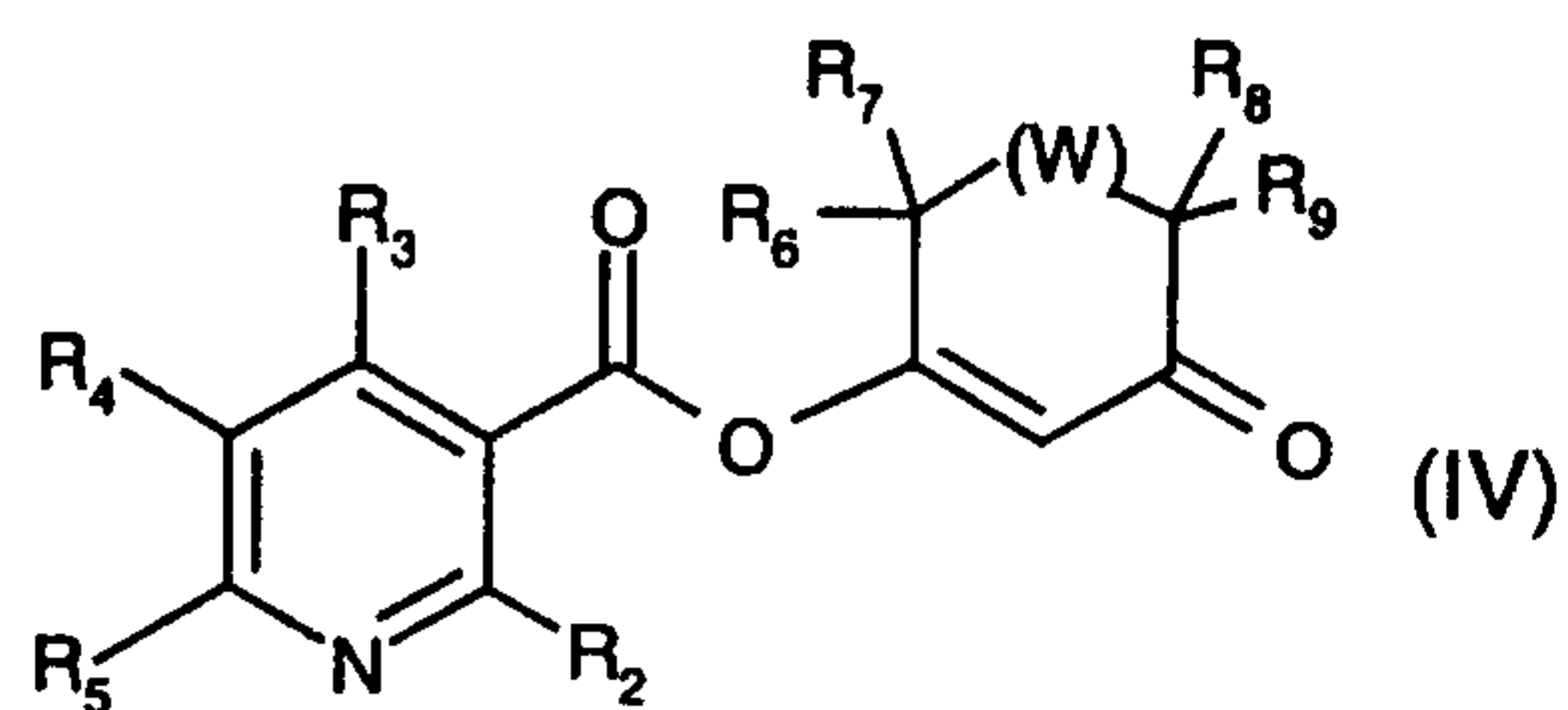
b) reacting a compound of the formula XVI



in which R_2 , R_3 , R_4 and R_5 have the meaning given under formula I with compounds of the formula II



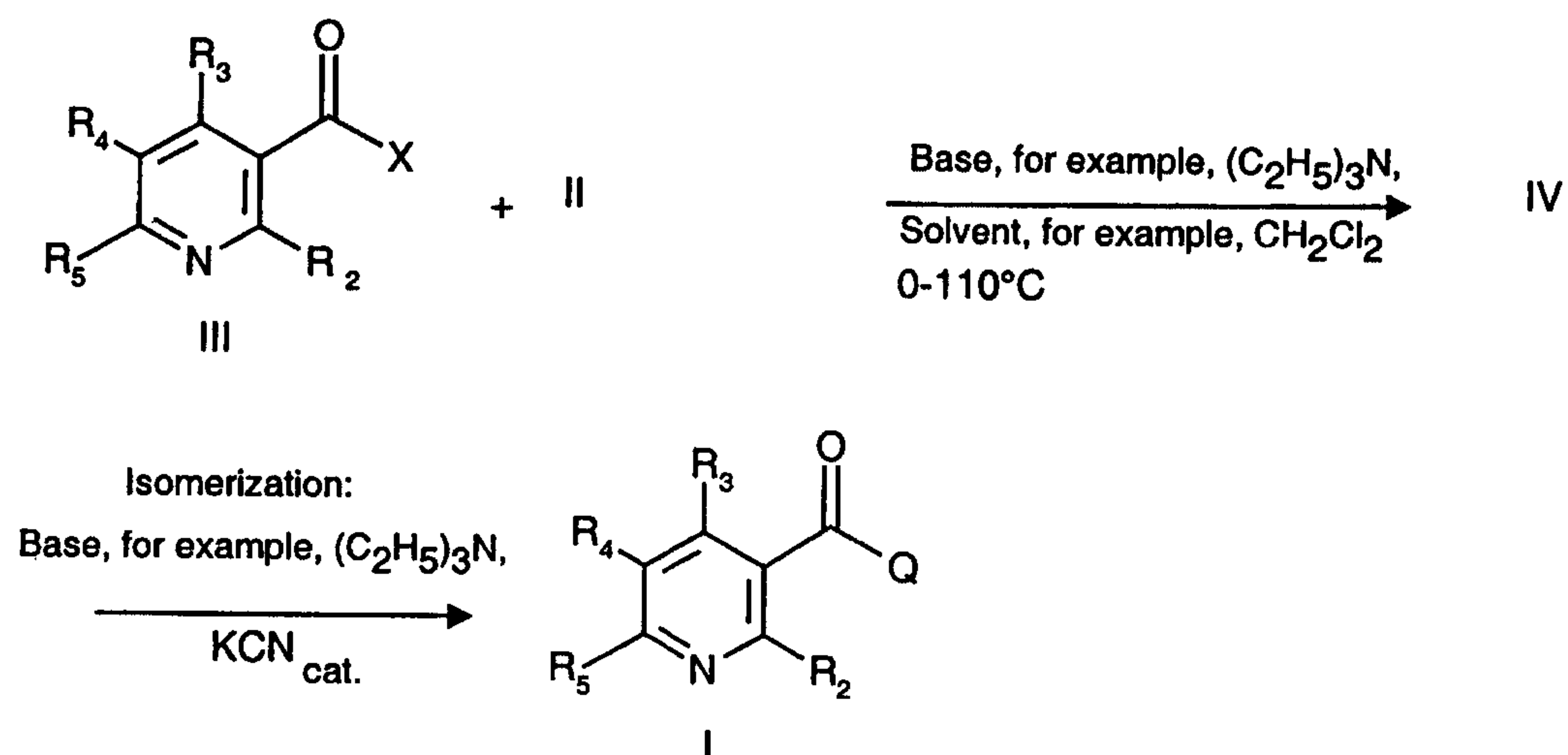
in which R_6 , R_7 , R_8 , R_9 and W have the meaning given under formula I in an inert organic solvent in the presence of a base and a coupling agent to give the compound of the formula IV



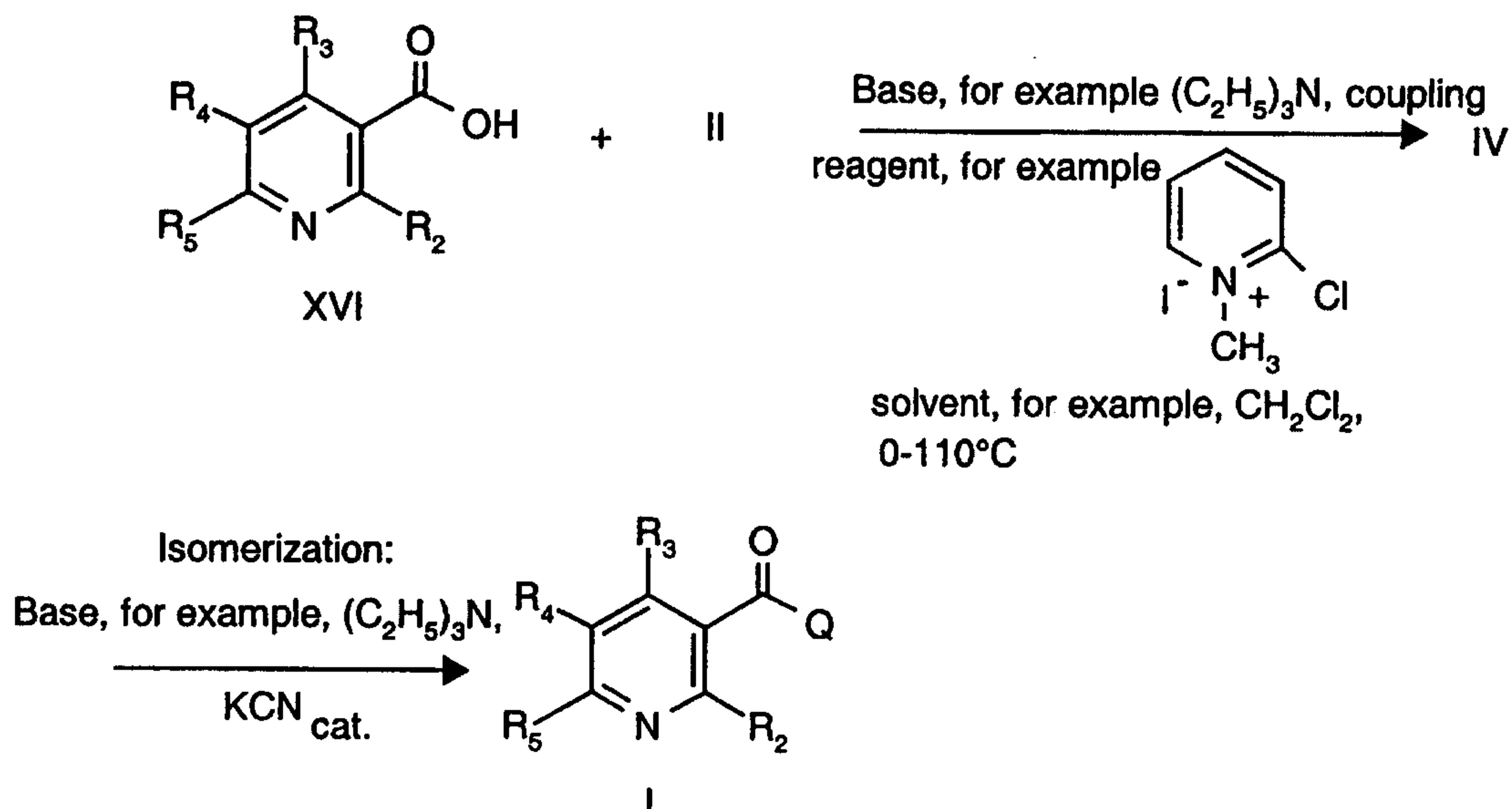
and subsequently isomerizing the latter, for example as described under route a).
The preparation of the compounds of the formula I is illustrated in greater detail in reaction scheme 1 below.

Reaction scheme 1

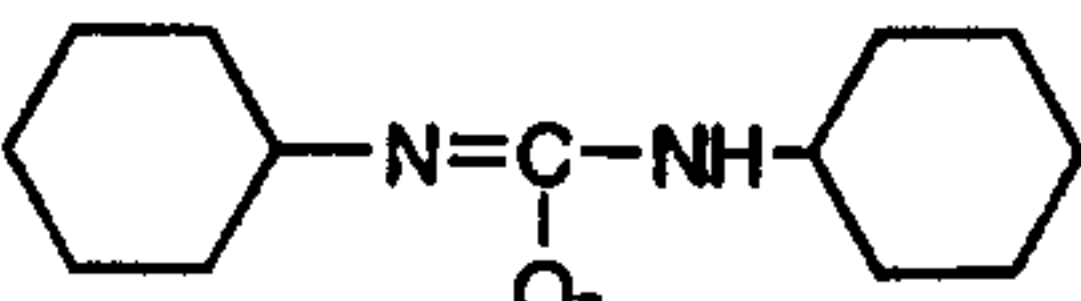
Route a):



Route b):



The compounds of the formula I with the group Q_1 in which R_{10} is hydroxyl can preferably be prepared in accordance with this reaction scheme. The starting material for the preparation of the compounds of the formula I in which Q is the group Q_1 and R_{10} is hydroxyl is, in accordance with reaction scheme 1, route a), the carboxylic acid derivatives of the formula III in which X is a leaving group for example halogen, for example iodine, bromine and, in particular chlorine, N-oxyphthalimide or N,O-dimethylhydroxylamino or part of an activated

ester, for example  (formed from dicyclohexylcarbodiimide (DCC) and

the corresponding carboxylic acid) or $\text{C}_2\text{H}_5\text{N}=\text{C}(\text{O}-)\text{NH}(\text{CH}_2)_3\text{N}(\text{CH}_3)_2$ (formed from N-ethyl-N'-(3-

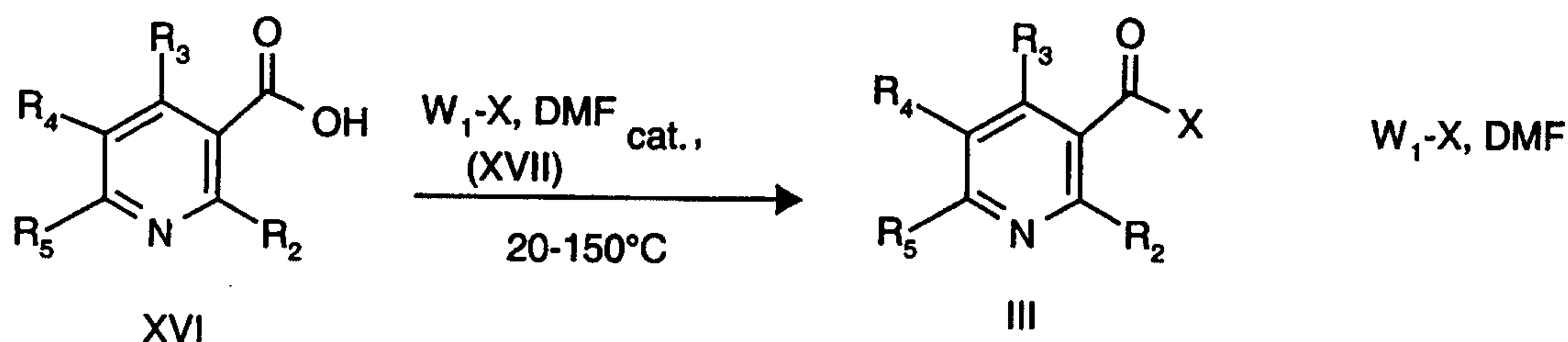
dimethylaminopropyl)carbodiimide (EDC) and the corresponding carboxylic acid). These are reacted with the dione derivatives of the formula II in an inert organic solvent, for example a halogenated hydrocarbon, for example dichloromethane, a nitrile, for example acetonitrile, or an aromatic hydrocarbon, for example toluene, and in the presence of a base, for example an alkylamine, preferably triethylamine, an aromatic amine, for example pyridine or 4-dimethylaminopyridine (DMAP) to give the isomeric enol ethers of the formula IV. This esterification is successfully carried out at temperatures from 0°C to 110°C .

The isomerization of the ester derivatives of the formula IV to give the dione derivatives of the formula I (in which R_{10} is OH) can be carried out, for example, in analogy to

EP-A-0 353 187 or EP-A-0 316 491 in the presence of a base, for example an alkylamine, for example triethylamine, a carbonate, for example potassium carbonate, and a catalytic amount of DMAP or a catalytic amount of a cyanide source, for example acetone cyanohydrin or potassium cyanide. Both reaction steps can be carried out *in situ* without isolation of the intermediates IV, in particular when using a cyanide compound of the formula III (X = cyano), or in the presence of a catalytic amount of acetone cyanohydrin or potassium cyanide.

In accordance with reaction scheme 1, route b), the desired diones of the formula I (in which R₁₀ is hydroxyl) can be obtained, for example, analogously to Chem. Lett. 1975, 1045 by esterifying the carboxylic acids of the formula XVI with the dione derivatives of the formula II in an inert solvent, for example a halogenated hydrocarbon, e.g. dichloromethane, a nitrile, e.g. acetonitrile or an aromatic hydrocarbon, e.g. toluene, in the presence of a base, for example an alkylamine, e.g. triethylamine, and a coupling agent, for example 2-chloro-1-methylpyridinium iodide. Depending on the solvent used, this esterification is successfully carried out at temperatures from 0°C to 110°C and first yields, as described under route a), the isomeric ester of the formula IV which can be isomerized as described under route a), for example in the presence of a base and a catalytic amount of DMAP, or a cyanide source, to give the desired dione derivatives of the formula I (R₁₀ = hydroxyl).

The activated carboxylic acid derivatives of the formula III in reaction scheme I (route a) in which X is a leaving group, for example halogen, e.g. bromine, iodine or, in particular, chlorine, can be prepared by known standard methods, for example as described by C. Ferri "Reaktionen der organischen Synthese" ["Reactions in organic synthesis"], Georg Thieme Verlag, Stuttgart, 1978, page 460 et seq. This is shown in the reaction scheme 2 which follows.

Reaction scheme 2

In accordance with reaction scheme 2, the compounds of the formula III in which X has the abovementioned meaning are prepared, for example, by using a halogenating agent, for example thionyl halides, e.g. thionyl chloride or thionyl bromide; phosphorus halides or phosphorus oxyhalides, e.g. phosphorus pentachloride or phosphorus oxychloride, or phosphorus pentabromide or phosphoryl bromide; or oxalyl halides, for example oxalyl chloride, or by employing a reagent for forming activated esters, for example N,N'-dicyclohexylcarbodiimide (DCC) or N-ethyl-N'-(3-dimethylaminopropyl)carbodiimide (EDC), of the formula XVII. Examples of meanings of X for the compound of the formula XVII as halogenating agent is a leaving group, for example halogen, e.g. fluorine, bromine or iodine and, in particular, chlorine, and W₁ is, for example, PCl₂, SOCl, SOBr or ClCOCO.

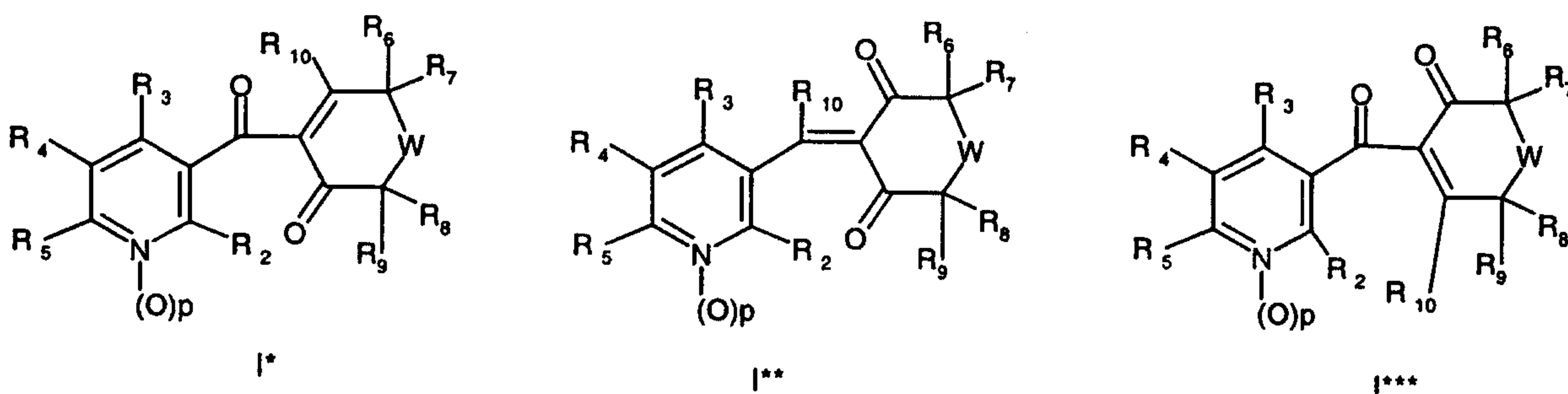
The reaction is preferably carried out in an inert organic solvent, for example in aliphatic, halogenated aliphatic, aromatic or halogenated aromatic hydrocarbons, e.g. n-hexane, benzene, toluene, xylenes, dichloromethane, 1,2-dichloroethane or chlorobenzene, at reaction temperatures in the range of -20°C to the reflux temperature of the reaction mixture, preferably at 40-150°C, and in the presence of a catalytic amount of N,N-dimethylformamide. Such reactions are generally known, and various variations with regard to the leaving group X are described in the literature.

Compounds of the formula I in which R₁₀ is other than hydroxyl or halogen can be prepared by conversion methods which are generally known from the literature, for example by acylation or carbamoylation methods using appropriate acid chlorides in the presence of a suitable base, starting from compounds in which R₁₀ is hydroxyl, or can be prepared by nucleophilic substitution reactions on chlorides of the formula I in which R₁₀ is halogen, which can also be obtained by known methods by reaction with a chlorinating agent such as phosgene, thionyl chloride or oxalyl chloride. In this case, examples of compounds which are employed are suitably substituted amines, or, directly, hydroxylamines, or alkylsulfonamides,

mercaptans, thiophenols, phenols, $\text{Ar}_5\text{-NH}_2$ or $\text{Ar}_1\text{-SH}$, in the presence of a base, for example 5-ethyl-2-methylpyridine, diisopropylethylamine, triethylamine, sodium bicarbonate, sodium acetate or potassium carbonate.

Compounds of the formula I in which R_{10} contains thio groups can be oxidized in analogy to known standard methods, for example using peracids, e.g. meta-chloroperoxybenzoic acid (m-CPBA) or peracetic acid, to give the corresponding sulfones and sulfoxides of the formula I. The degree of oxidation on the sulfur atom (SO- or $\text{SO}_2\text{-}$) can be controlled by the amount of oxidant.

Also, the resulting derivatives of the formula I in which R_{10} is other than hydroxyl can exist in various isomeric forms which, if appropriate, can be isolated in pure form. The invention therefore also extends to all of these stereoisomeric forms. Examples of these isomeric forms are the formulae I*, I** and I*** below in which Q is the group Q_1 (see also note and scheme on page 10 above).



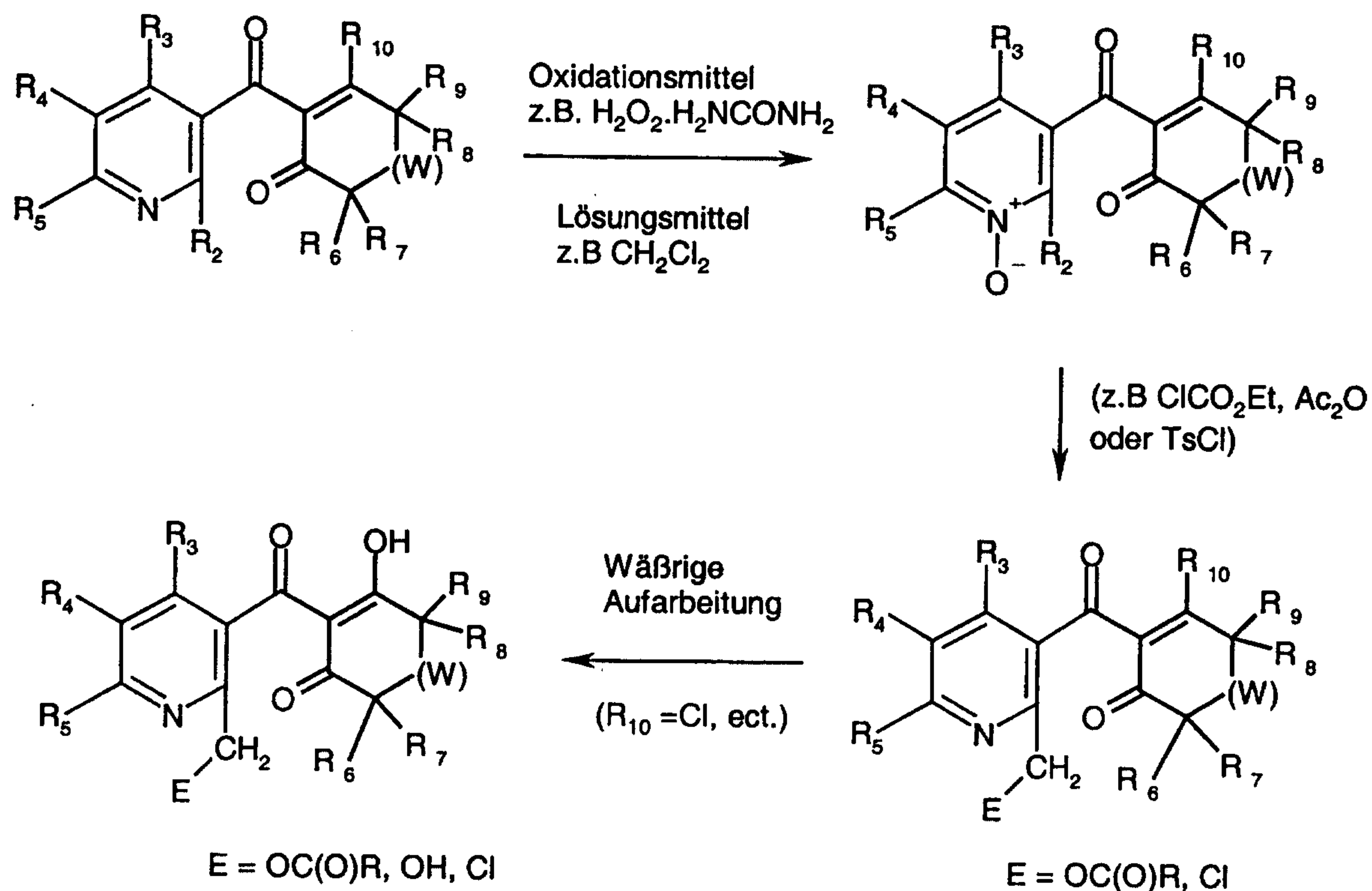
All other compounds from within the scope of the formula I can be readily prepared taking into consideration the chemical properties of the pyridyl or Q moiety.

The end products of the formula I can be isolated in the customary manner by concentration or by evaporating the solvent and purified by recrystallization or trituration of the solid residue in solvents in which they are not readily soluble, such as ethers, aromatic hydrocarbons or chlorinated hydrocarbons, by distillation or by means of column chromatography and a suitable eluent.

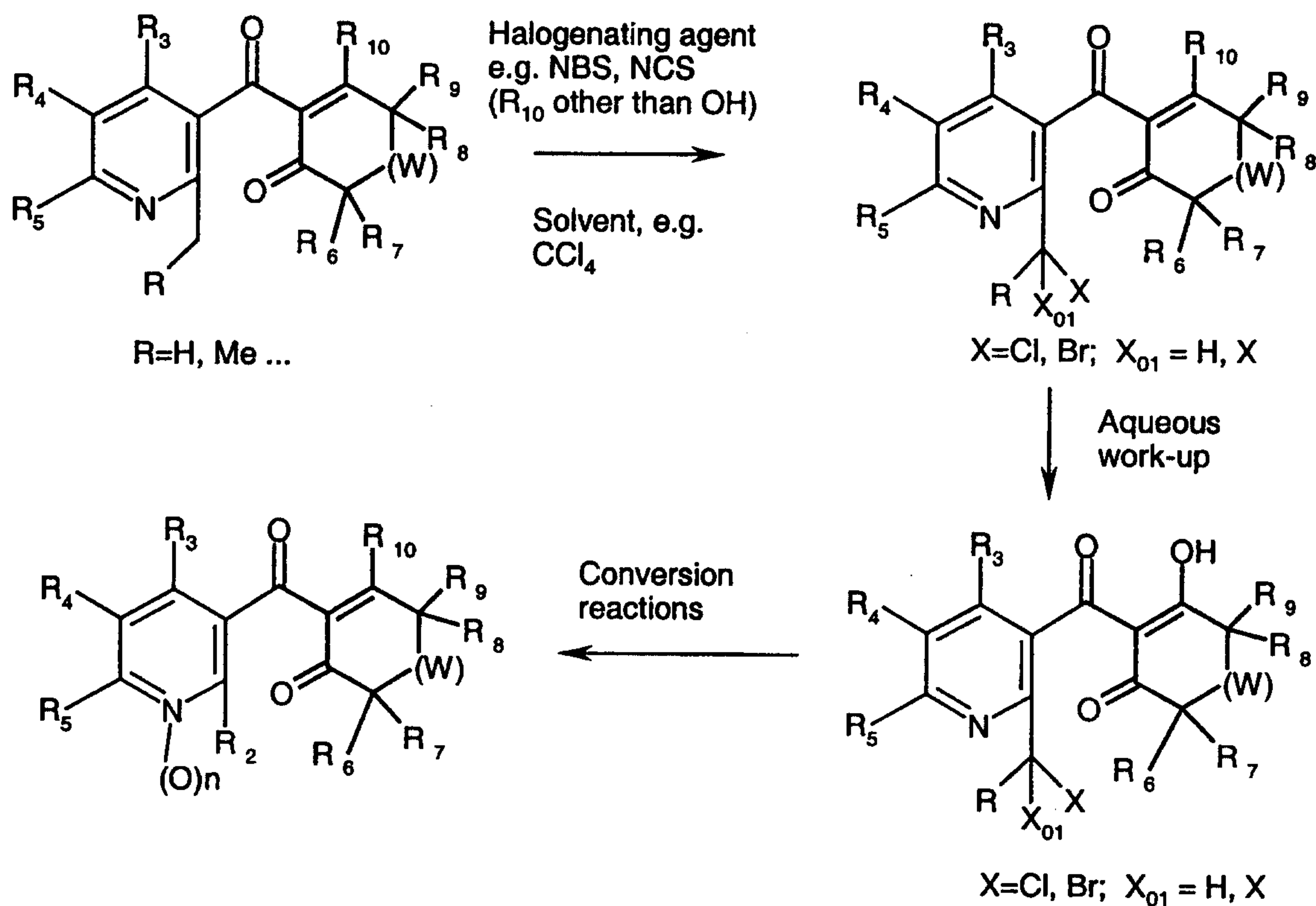
Furthermore, the skilled worker knows in which sequence certain reactions are expediently carried out to avoid any side reactions. Unless a directed synthesis for isolating pure isomers is carried out, the product may be obtained as a mixture of two or more isomers. The isomers can be resolved by methods known per se.

Compounds of the formula I in which n is 1, i.e. the corresponding N-oxides of the formula I, can be synthesized by reacting a compound of the formula I in which n is 0 with a suitable oxidant, for example with the H₂O₂-urea adduct in the presence of an acid anhydride, e.g. trifluoroacetic anhydride.

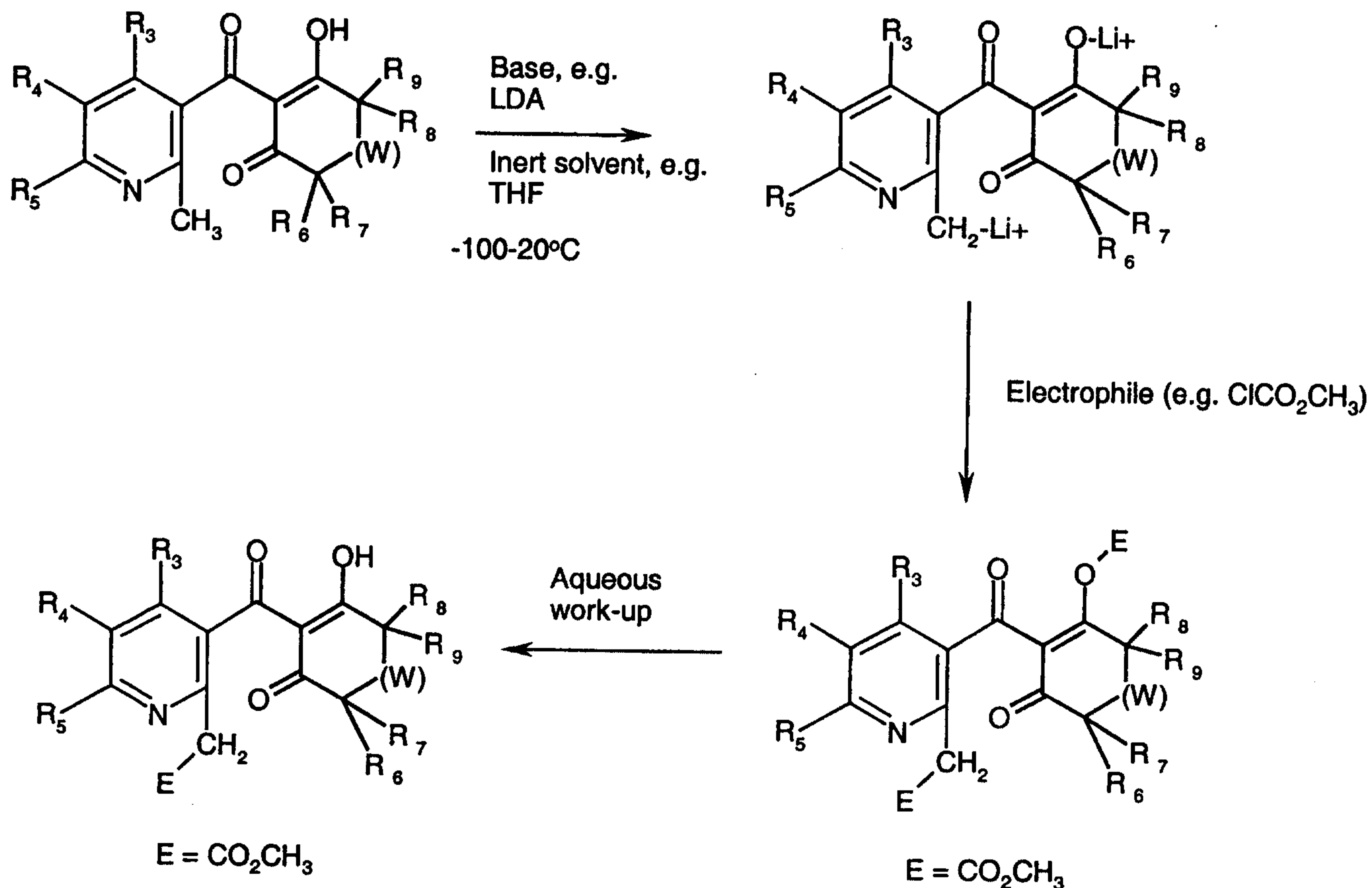
Compounds of the formula I in which R in the ortho-position relative to the pyridine nitrogen is 1-chloro-C₁-C₂alkyl, 1-hydroxy-C₁-C₂alkyl, 1-(C₁-C₆alkylcarbonyloxy)-C₁-C₂alkyl, 1-benzoyloxy-C₁-C₂alkyl, 1-(C₁-C₄alkoxycarbonyloxy)-C₁-C₂alkyl, 1-(C₁-C₄alkylthio)-C₁-C₂alkyl, 1-(C₁-C₄alkylsulfinyl)-C₁-C₂alkyl, 1-(C₁-C₄alkylsulfonyl)-C₁-C₂alkyl, 1-thiocyanato-C₁-C₂alkyl, 1-cyano-C₁-C₂alkyl, can also be prepared by, for example, heating an N-oxide of the formula I under known reaction conditions, for example in the presence of tosyl chloride (see, for example, Parham, W. E.; Sloan, K. B.; Reddy, K. R.; Olson, P. E.; *J Org Chem* 1973, **38**, 927) or in the presence of an acid anhydride (see, for example, Konno, K.; Hashimoto, K.; Shirahama, H.; Matsumoto, T.; *Heterocycles* 1986, 24, 2169) and, if appropriate, subsequently further reacting the product. These reaction sequences may be demonstrated with reference to the following example:



Compounds of the formula I in which R in the ortho-position relative to the pyridine nitrogen, in particular 1-bromo- C_1 - C_2 alkyl, 1-chloro- C_1 - C_2 alkyl, 1-fluoro- C_1 - C_2 alkyl, 1,1-dibromomethyl, 1,1-dichloromethyl, formyl, 1-(C_1 - C_4 alkylthio)- C_1 - C_2 alkyl, 1-(C_1 - C_4 alkylsulfinyl)- C_1 - C_2 alkyl, 1-(C_1 - C_4 alkylsulfonyl)- C_1 - C_2 alkyl, 1-thiocyanato- C_1 - C_2 alkyl or 1-cyano- C_1 - C_2 alkyl, can also be prepared, for example, by oxidizing a compound of the formula I in which R_{10} is, in particular, chlorine, C_1 - C_4 alkoxycarbonyloxy or benzoylcarbonyloxy under known halogenation conditions, for example with N-bromosuccinimide or N-chlorosuccinimide in the presence of light and a free-radical initiator, for example benzoyl peroxide, to give the 1-bromo or 1-chloro, 1,1-dibromo or 1,1-dichloro compound, and subsequently refunctionalizing the latter to give the corresponding derivatives. Again, these reaction sequences may be demonstrated with reference to the example below.

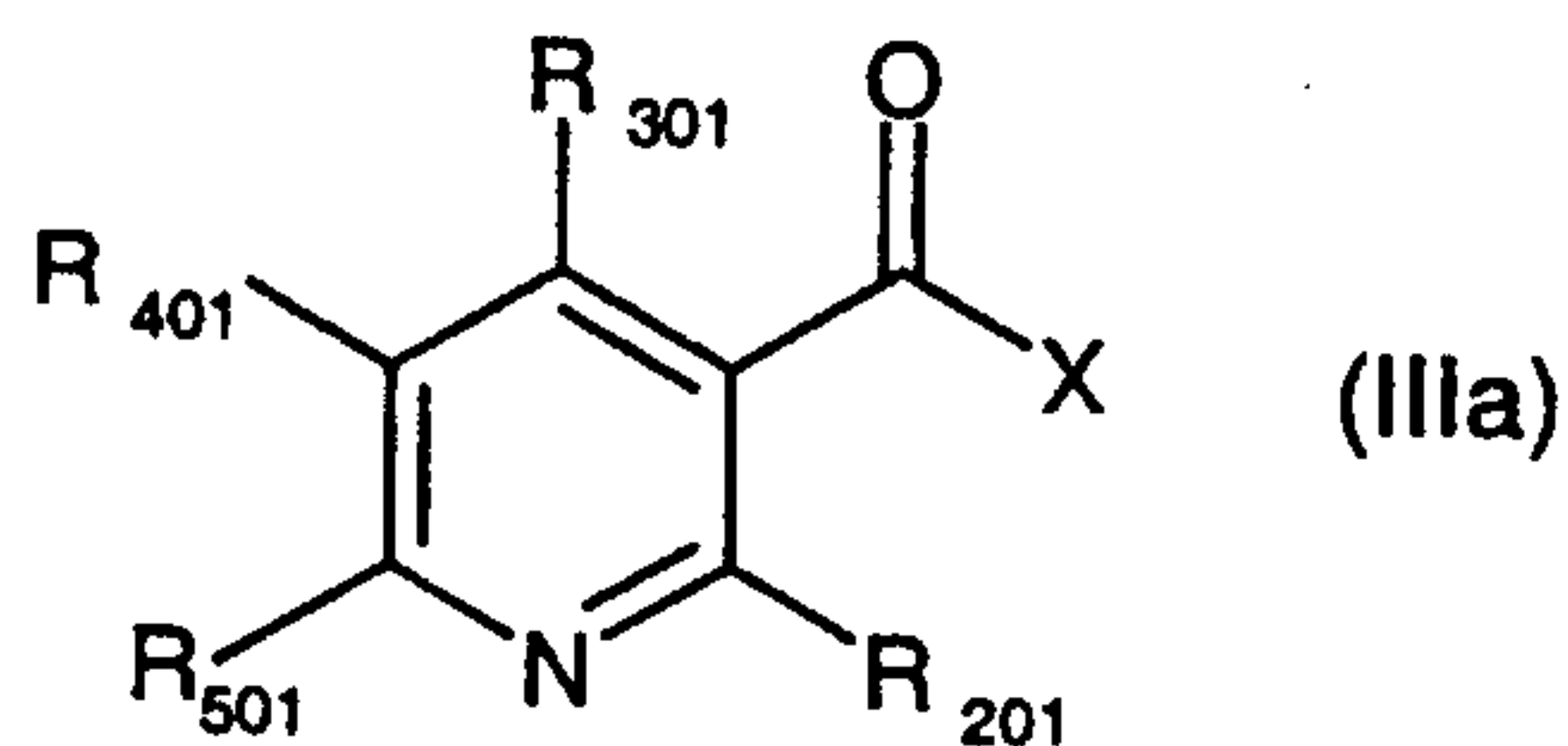


Compounds of the formula I can also be synthesized by reacting a compound of the formula I in which p is 0 and R_2 is C_1 - C_6 alkyl with a suitable base, for example lithium diisopropylamide or n -butyllithium, at temperatures between -100 and -20°C (preferably -70 and -50°C) in an inert solvent (for example tetrahydrofuran) to give the corresponding dianion. The skilled worker knows how such carbanions can be converted by means of electrophilic substitution, for example with a chloroformic ester. This reaction sequence may be demonstrated with reference to the following example:



Other compounds from within the scope of the formula I can be prepared with suitable electrophiles taking into consideration the chemical properties of the pyridyl or Q moiety.

The compounds of the formula IIIa



in which

R_{501} is C_1 - C_6 haloalkyl;

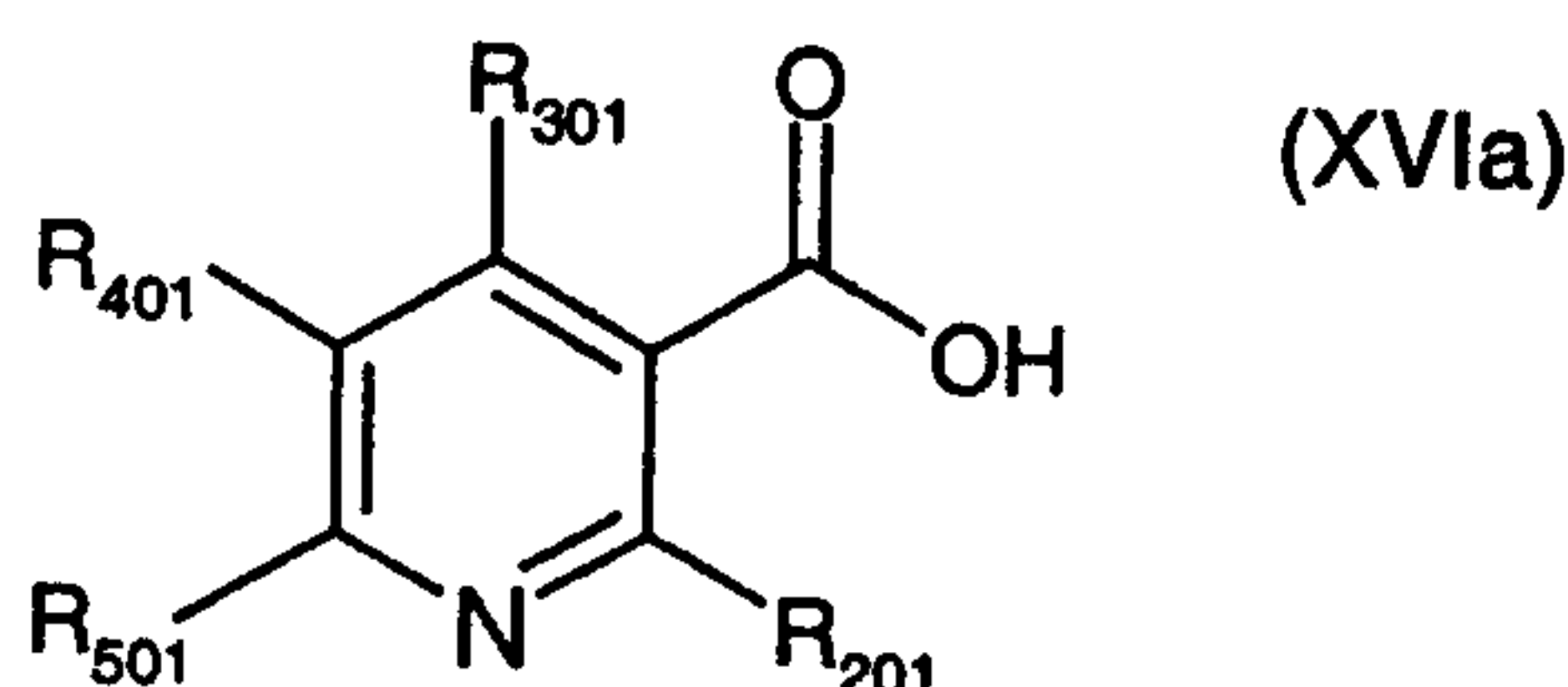
R_{301} is hydrogen;

R_{401} is hydrogen or C_1 - C_6 alkyl; and

R_{201} is C_1 - C_6 alkyl, C_1 - C_6 haloalkyl- C_1 - C_4 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 haloalkenyl, or C_1 - C_2 -alkoxycarbonyl- or phenyl-substituted vinyl, C_2 - C_6 alkynyl or C_2 - C_6 haloalkynyl; or trimethylsilyl-, hydroxyl-, C_1 - C_2 alkoxy-, C_1 - C_2 alkoxycarbonyl- or phenyl-substituted ethynyl or

C₃-C₆allenyl; or C₃-C₆cycloalkyl, halogen-substituted C₃-C₆cycloalkyl, C₁-C₄alkoxy-C₁-C₄-alkyl, C₁-C₄alkyl-S(O)_{n4}-C₁-C₄alkyl, cyano-C₁-C₄alkyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkyl, C₁-C₄-thiocyanato, oxiranyl, C₁-C₄alkylamino-C₁-C₄alkyl, C₁-C₄dialkylamino-C₁-C₄alkyl, hydroxy-C₁-C₄alkyl, C₁-C₁₂alkylthiocarbonyl-C₁-C₄alkyl or formyl-C₁-C₄alkyl, or R₂₀₁ is a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system being bonded to the pyridine ring via a C₁-C₄-alkylene, -CH=CH-, -C≡C-, -CH₂O-, -CH₂N(C₁-C₄alkyl)-, -CH₂S-, -CH₂SO- or -CH₂SO₂- group and it not being possible for each ring system to contain more than 2 oxygen atoms and more than two sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆alkenyl, C₃-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, mercapto, C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₂-C₅alkoxyalkylthio, C₃-C₅acetylalkylthio, C₃-C₆alkoxycarbonylalkylthio, C₂-C₄-cyanoalkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆-haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, di-(C₁-C₄alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃-haloalkoxy, halogen, cyano or nitro, and where the substituents on the nitrogen in the heterocyclic ring are other than halogen; and X is halogen or cyano, are novel and were developed specifically for the preparation of the compounds of the formula I and are therefore a further subject of the present invention.

The compounds of the formula XVIa

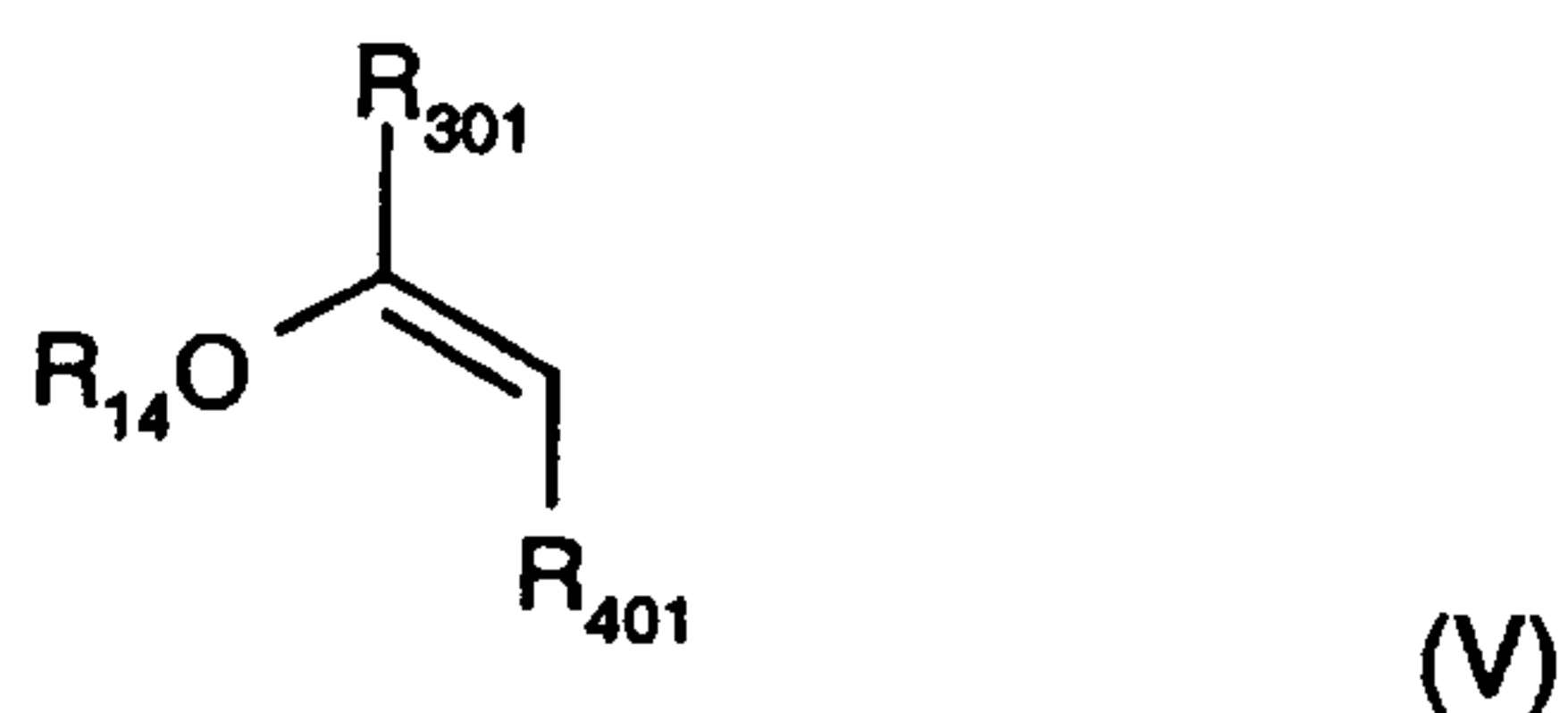


in which R₂₀₁, R₃₀₁, R₄₀₁ and R₅₀₁ have the abovementioned meaning, with the proviso that, if R₅₀₁ is trifluoromethyl and, simultaneously, R₃₀₁ and R₄₀₁ are hydrogen, then R₂₀₁ is other than C₁-C₆alkyl, are novel and therefore a further subject of the present invention.

The compounds of the formula Q₁ (or formula II) are known and can be prepared by methods similar to those described, for example in J. Org. Chem. (1977), 42, 1163-9, Brit. UK Pat. Appl. GB 2205316, DE 3902818, GB 8706557, DE 4434987, WO 9213821 and Aust. J. Chem. (1976), 29(11), 2525-31, Chem. Commun. (1998), (16), 1691-1692.

The compounds of the formula XVI (or XVIa and XVIb) are synthesized by methods similar to known methods, for example as in Heterocycles, 46, 129 (1997) or Helvetica Chimica Acta 71, 596 (1988), and is characterized in that either

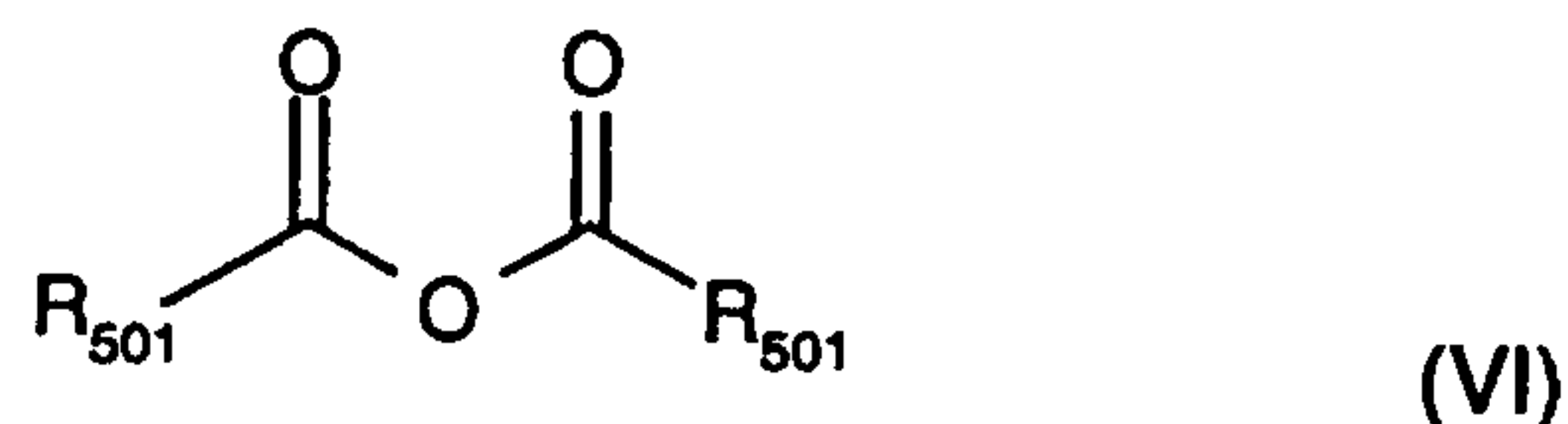
a) a compound of the formula V



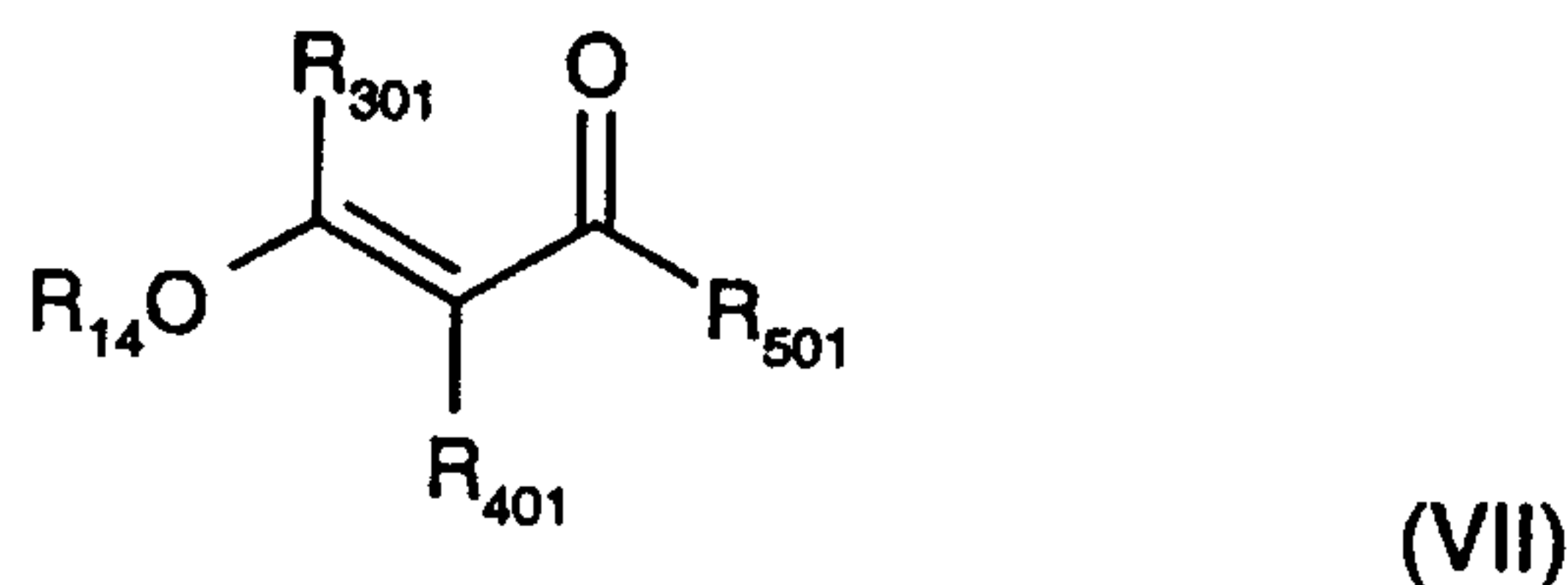
in which R₃₀₁ is hydrogen;

R₄₀₁ is hydrogen, C₁-C₆alkyl or phenyl, it being possible for phenyl, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro; or R₄₀₁ is a five- to ten-membered monocyclic or fused bicyclic ring system which can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur and it not being possible for the ring system to contain more than 2 oxygen atoms and more than two sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₁-C₄alkoxy-C₁-C₂alkylthio, C₁-C₄alkylcarbonyl-C₁-C₂alkylthio, C₁-C₄alkoxycarbonyl-C₁-C₂alkylthio, cyano-C₁-C₄alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen; and R₁₄ is C₁-C₄alkyl;

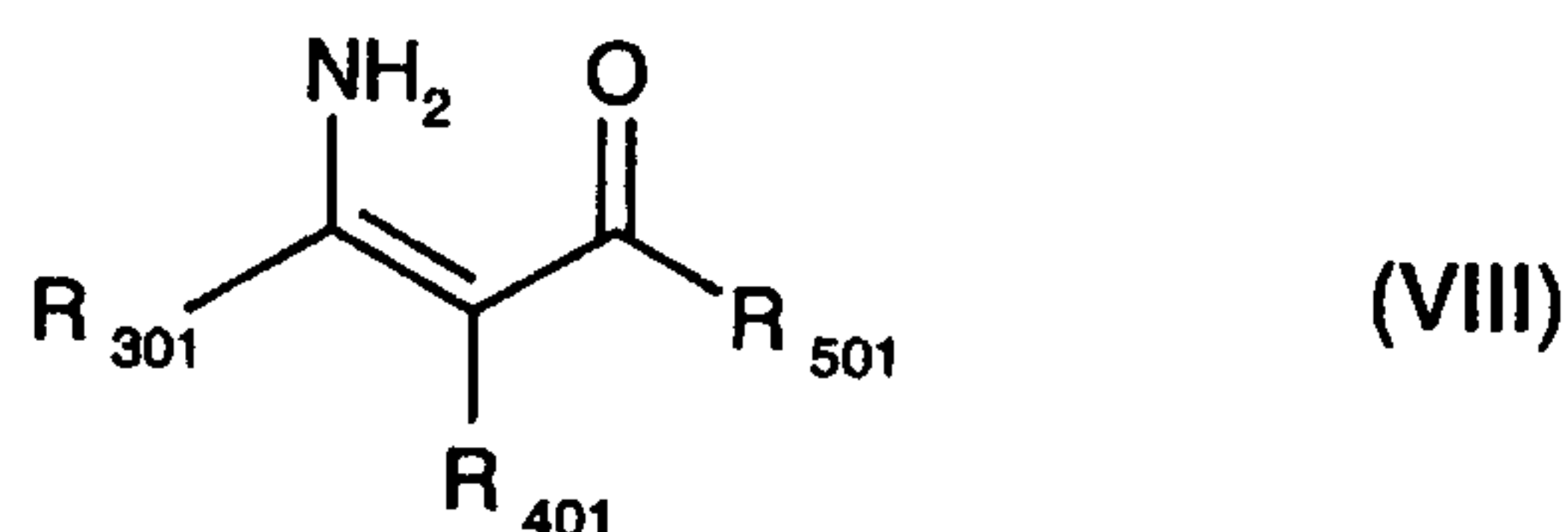
is acylated with a compound of the formula VI



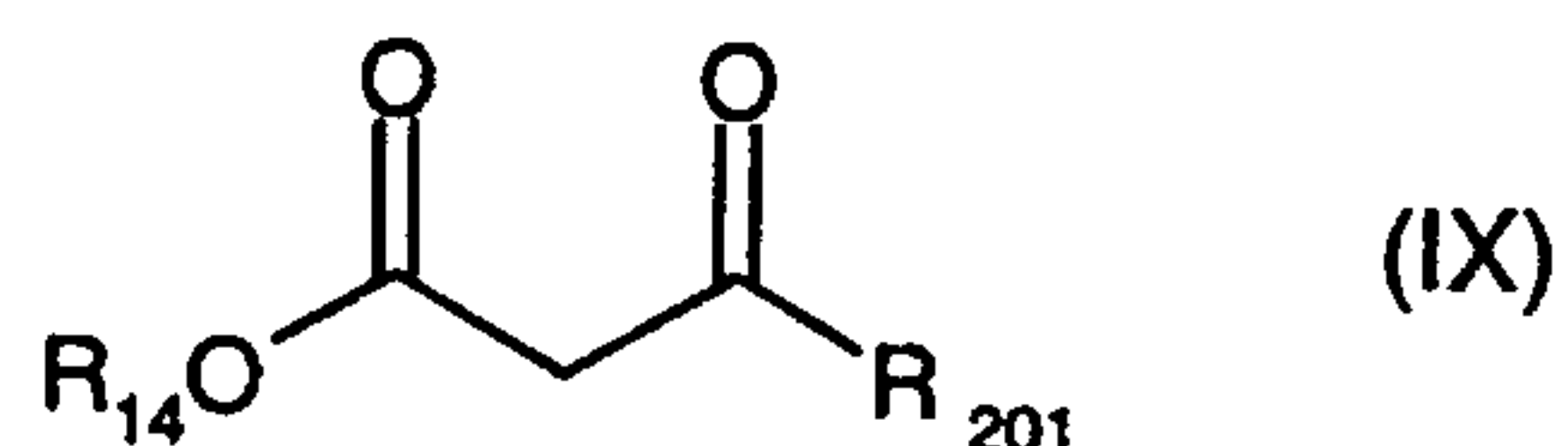
in which R₅₀₁ is C₁-C₆haloalkyl to give the compound of the formula VII



in which R₃₀₁, R₄₀₁, R₅₀₁ and R₁₄ have the abovementioned meaning in the presence of a base, for example an aromatic amine, e.g. pyridine, and the alkoxy group is subsequently exchanged for the amino group with ammonia in an organic solvent, for example a halogenated hydrocarbon, e.g. dichloromethane, a nitrile, e.g. acetonitrile. The resulting compound of the formula VIII

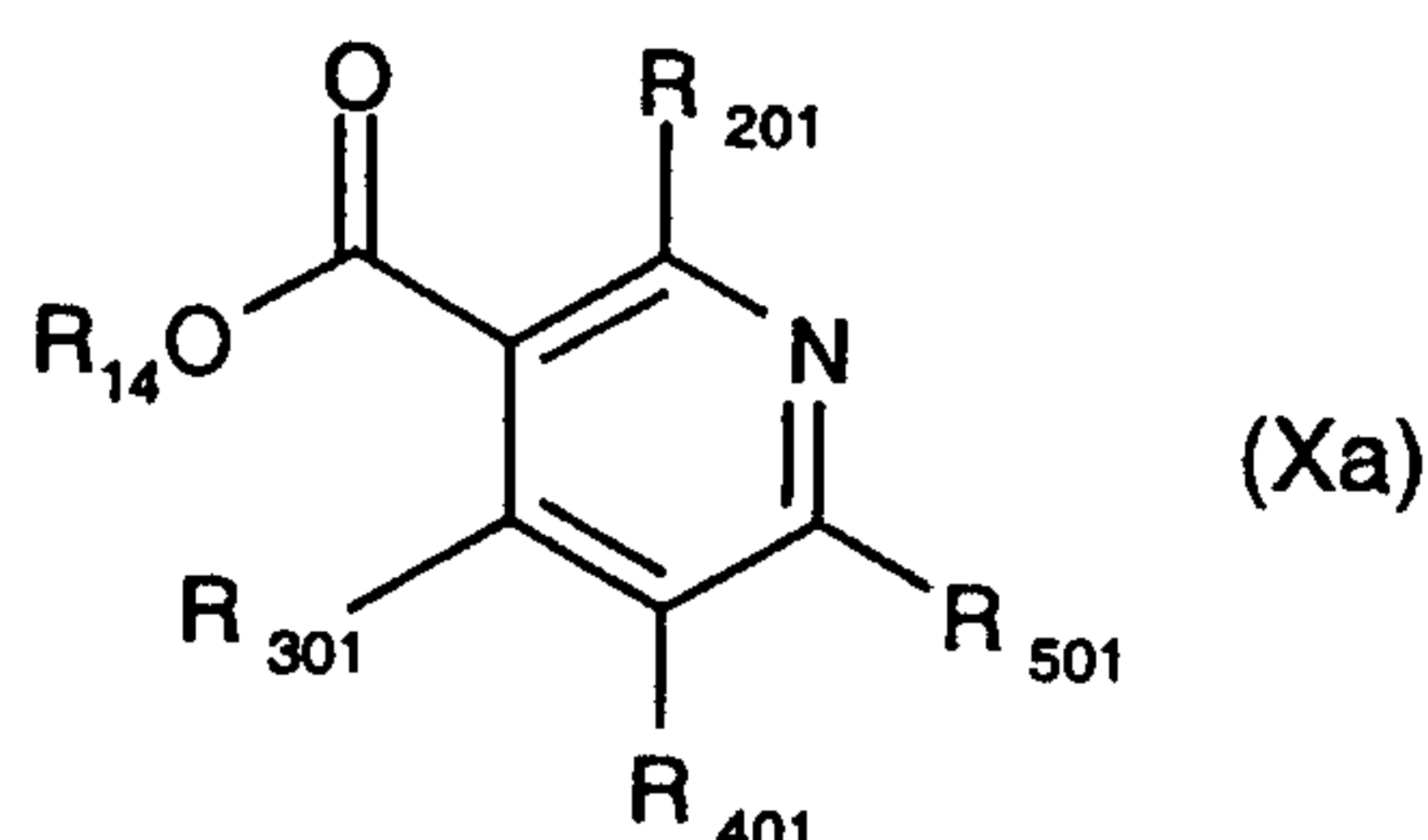


is subsequently subjected to a condensation reaction with a compound of the formula IX

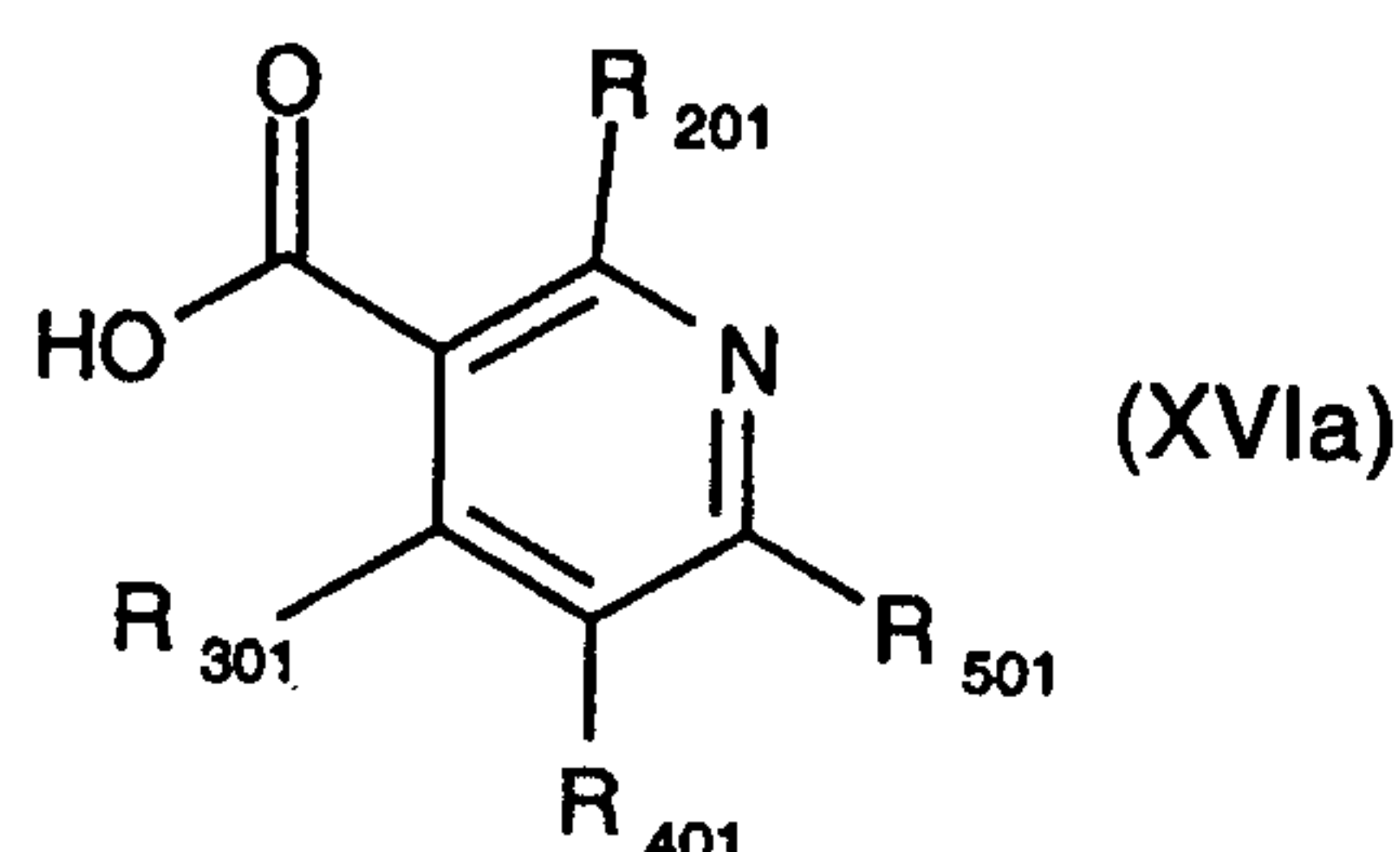


in which R₂₀₁ is C₁-C₆alkyl, C₁-C₆haloalkyl-C₁-C₄alkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, C₃-C₆cycloalkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkyl-S(O)_{n4}-C₁-C₄alkyl, cyano-C₁-C₄alkyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkyl, C₁-C₄alkoxycarbonyloxy-C₁-C₄alkyl, C₁-C₄thiocyanato-C₁-C₄alkyl, oxiranyl, C₁-C₄alkylamino-C₁-C₄alkyl, di-(C₁-C₄alkyl)amino-C₁-C₄alkyl or formyl-C₁-C₄alkyl;

or R_{201} is a group $Ar_6-C_1-C_4$ alkyl in which Ar_6 is a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, it not being possible for each ring system to contain more than 2 oxygen atoms and more than two sulfur atoms and it being possible for the ring system itself to be mono-, di- or trisubstituted by C_1-C_6 alkyl, C_1-C_6 haloalkyl, C_3-C_6 alkenyl, C_3-C_6 haloalkenyl, C_3-C_6 alkynyl, C_3-C_6 haloalkynyl, C_1-C_6 alkoxy, C_1-C_6 haloalkoxy, C_3-C_6 alkenyloxy, C_3-C_6 alkynyloxy, mercapto, C_1-C_6 alkylthio, C_1-C_6 haloalkylthio, C_3-C_6 alkenylthio, C_3-C_6 haloalkenylthio, C_3-C_6 alkynylthio, C_2-C_5 alkoxyalkylthio, C_3-C_5 acetylalkylthio, C_3-C_6 alkoxycarbonylalkylthio, C_2-C_4 -cyanoalkylthio, C_1-C_6 alkylsulfinyl, C_1-C_6 haloalkylsulfinyl, C_1-C_6 alkylsulfonyl, C_1-C_6 -haloalkylsulfonyl, aminosulfonyl, C_1-C_2 alkylaminosulfonyl, di- $(C_1-C_2$ alkyl)aminosulfonyl, di- $(C_1-C_4$ alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C_1-C_3 alkyl, C_1-C_3 haloalkyl, C_1-C_3 alkoxy, C_1-C_3 haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen, and R_{14} has the abovementioned meaning, and subsequently hydrolysing the resulting compound of the formula Xa

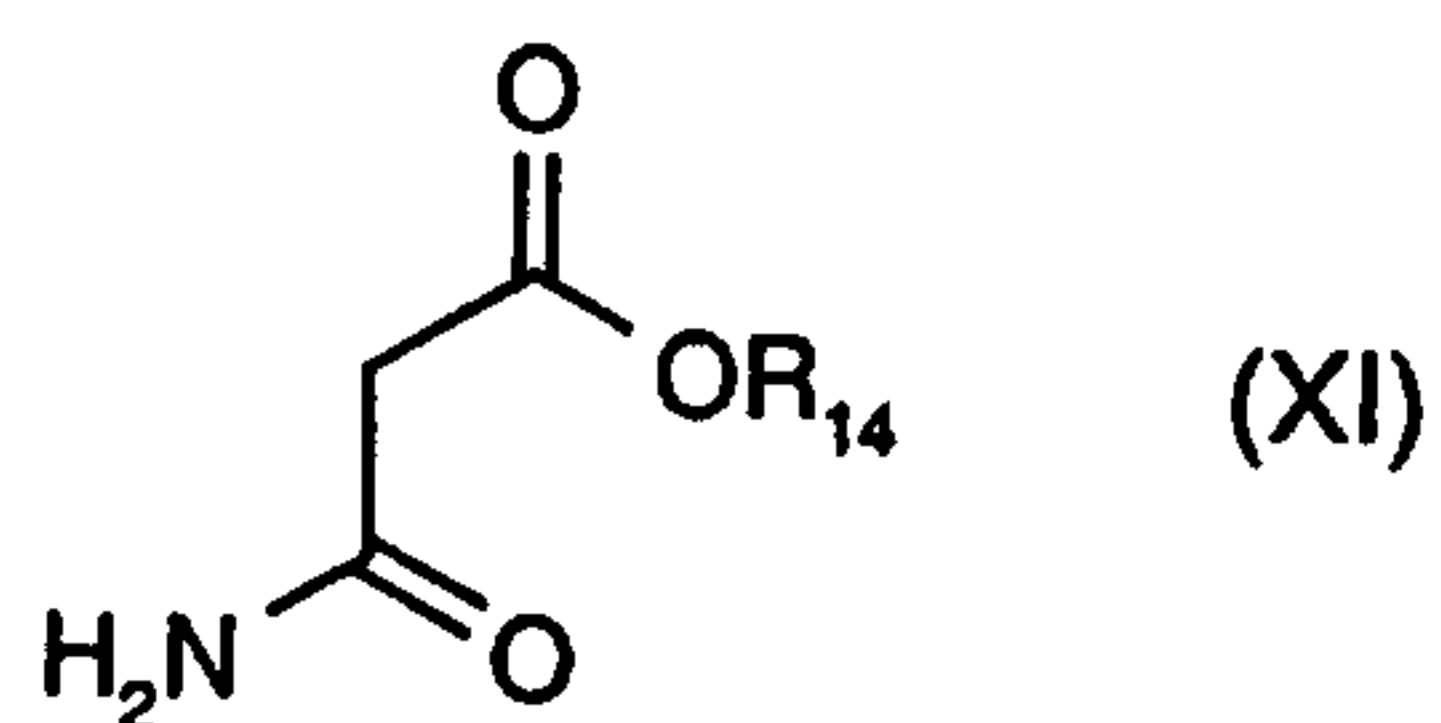


is subsequently hydrolysed to give the compound of the formula XVIa

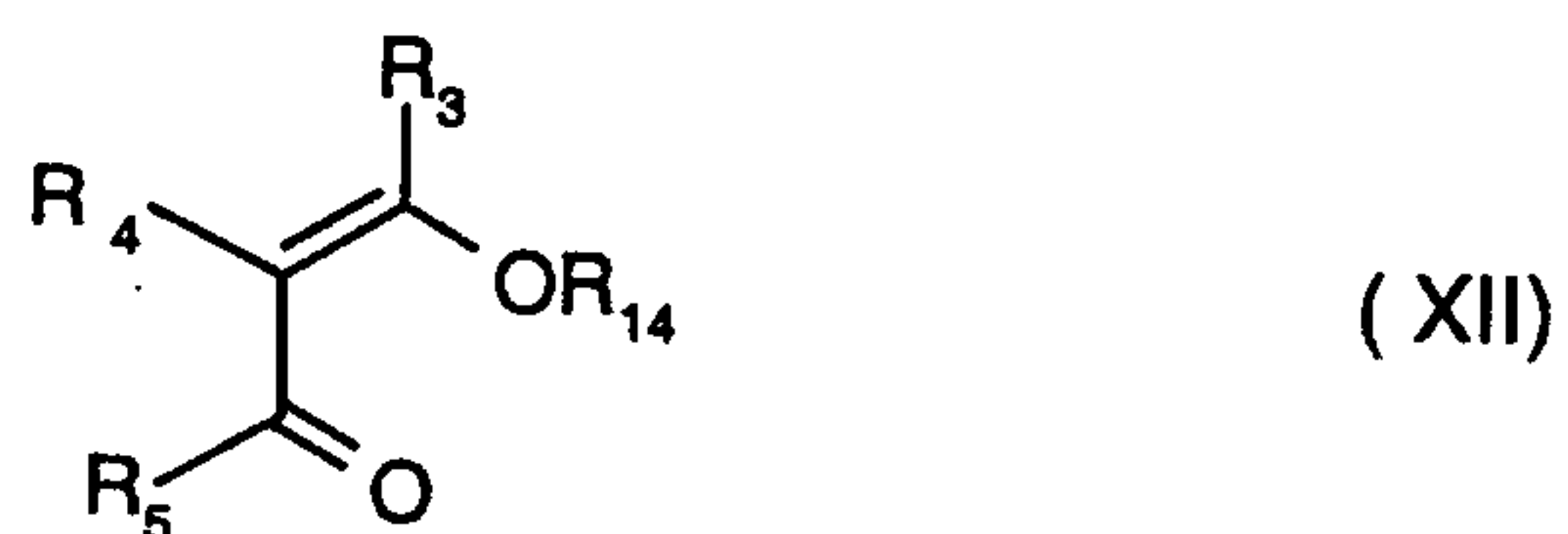


in which R_{201} , R_{301} , R_{401} and R_{501} have the abovementioned meaning; or

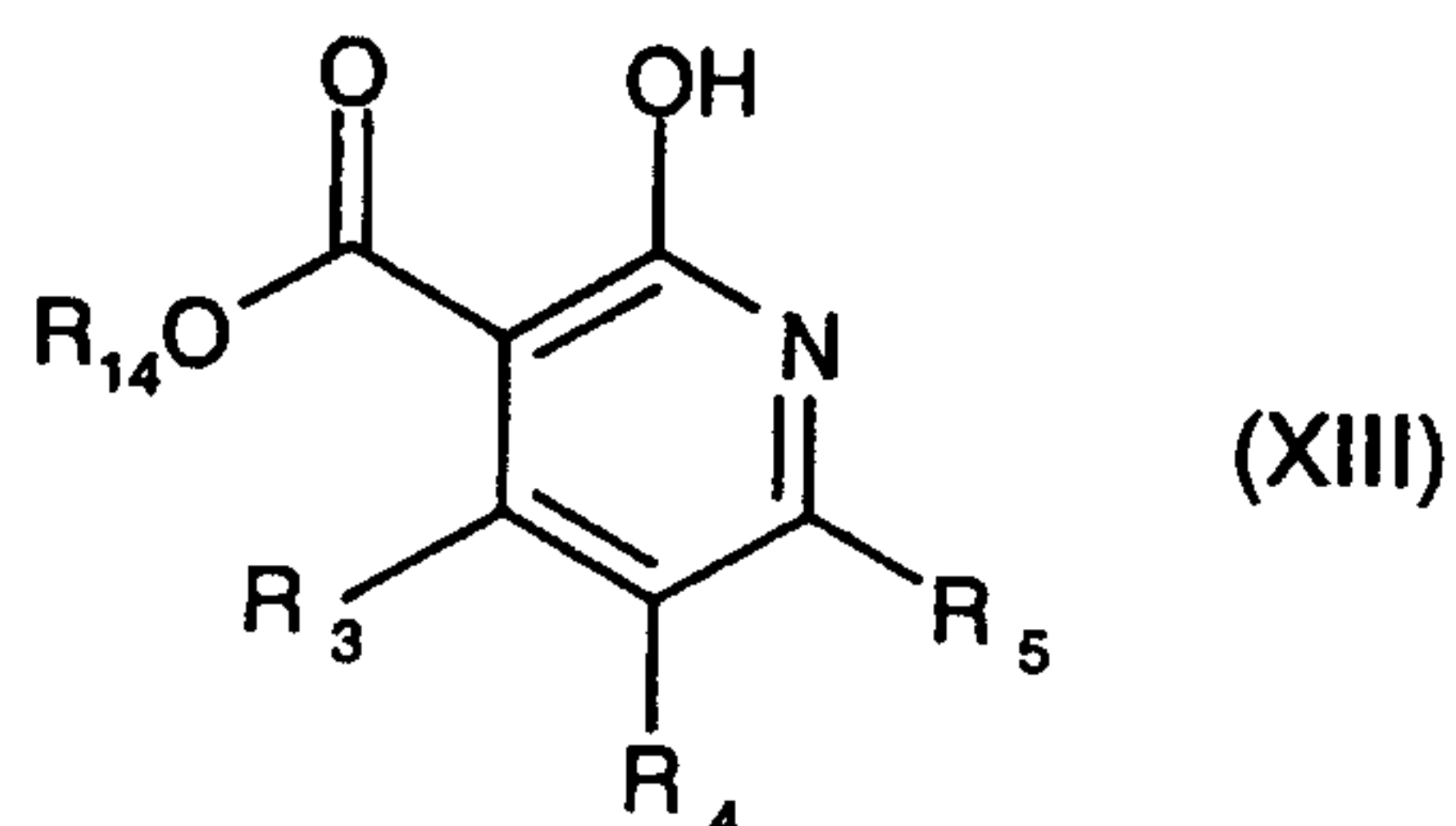
b) a compound of the formula XI



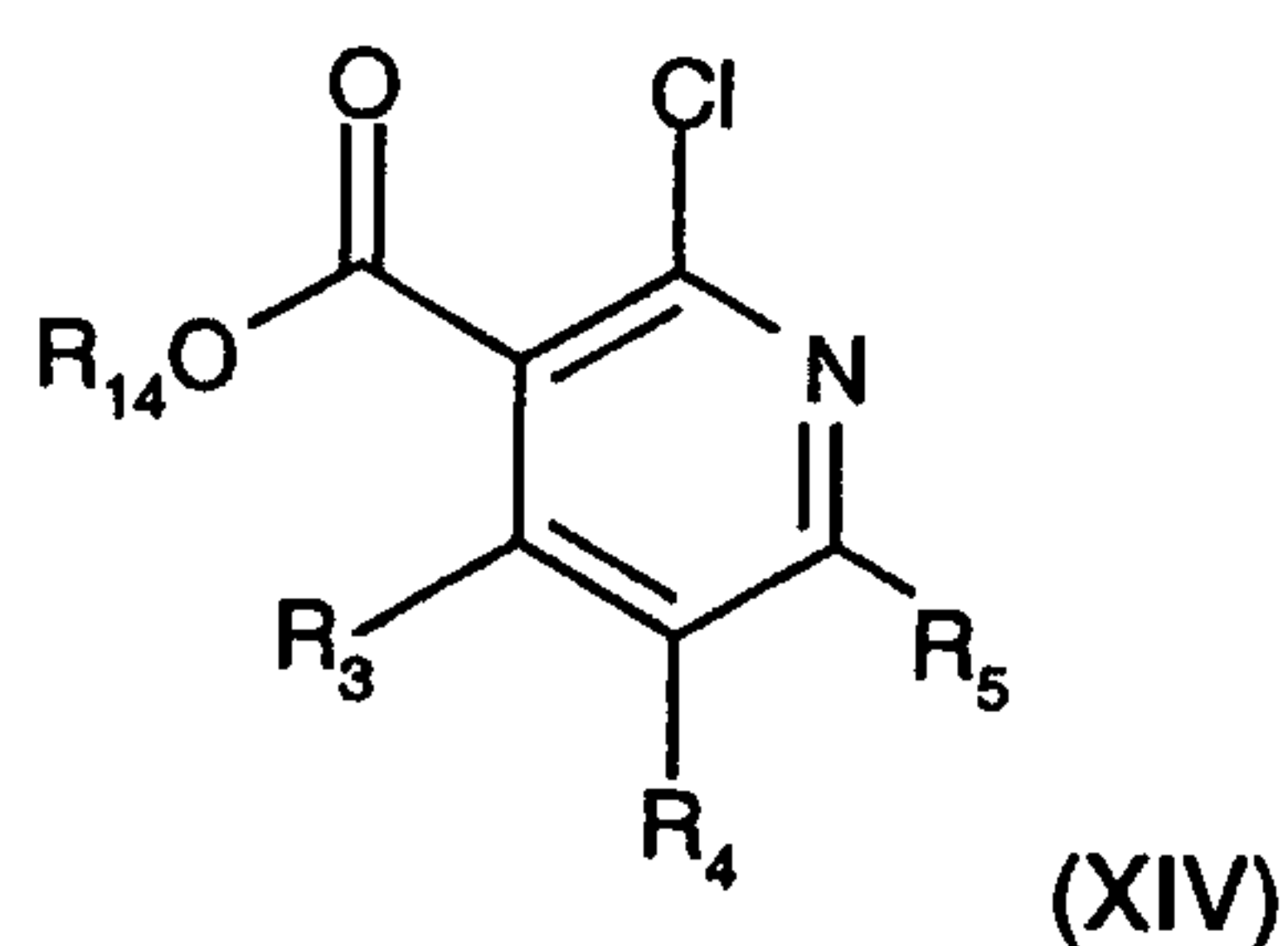
in which R_{14} has the abovementioned meaning is subjected to a condensation reaction with a compound of the formula XII



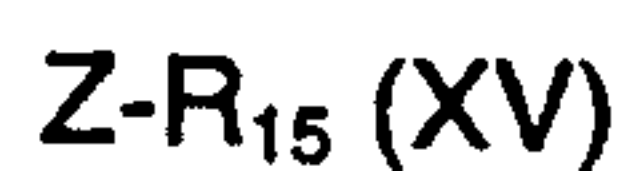
and the resulting compound of the formula XIII



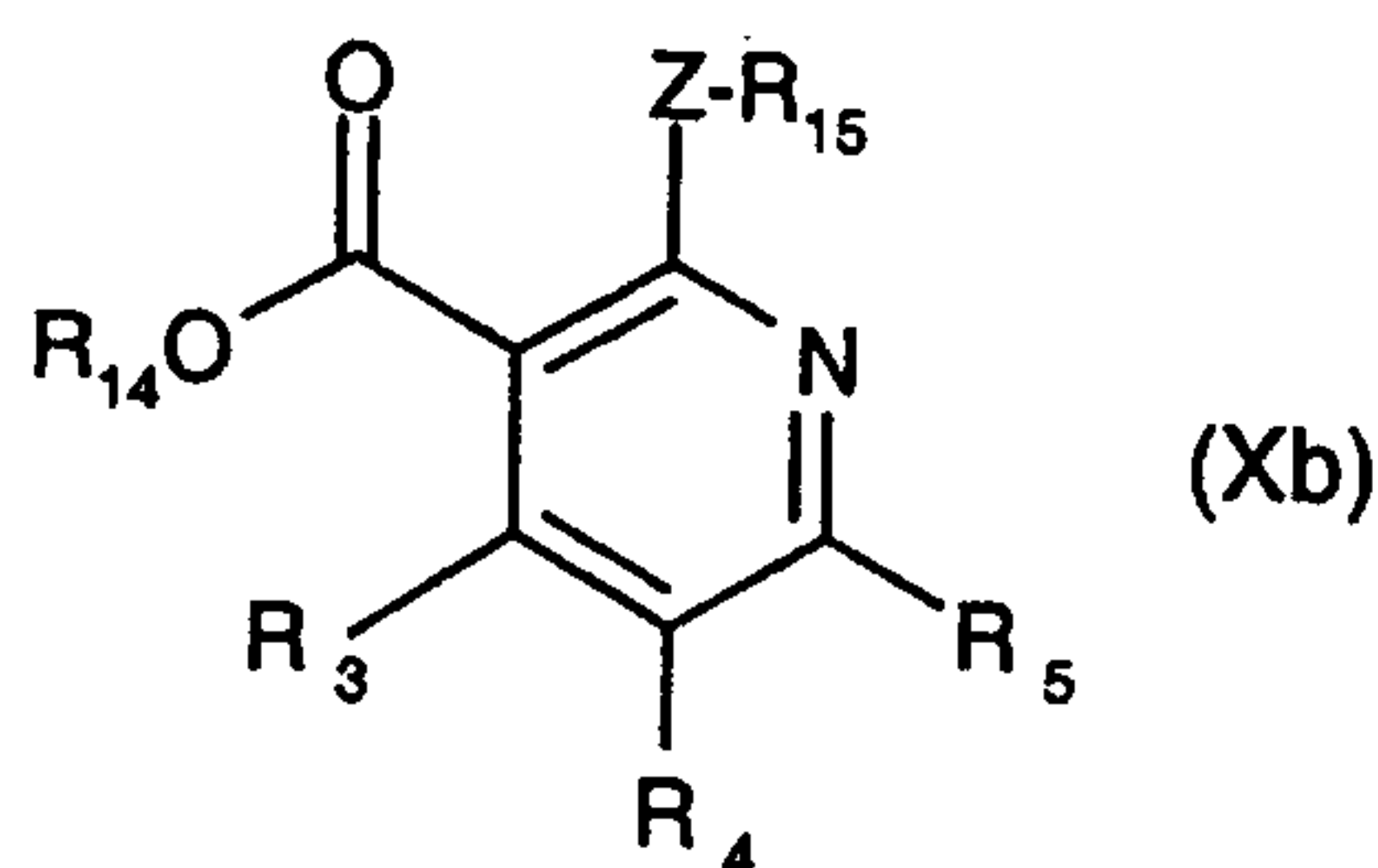
in which R_3 , R_4 and R_5 have the abovementioned meaning and R_{14} is C_1 - C_4 alkyl, is chlorinated to give the compound of the formula XIV



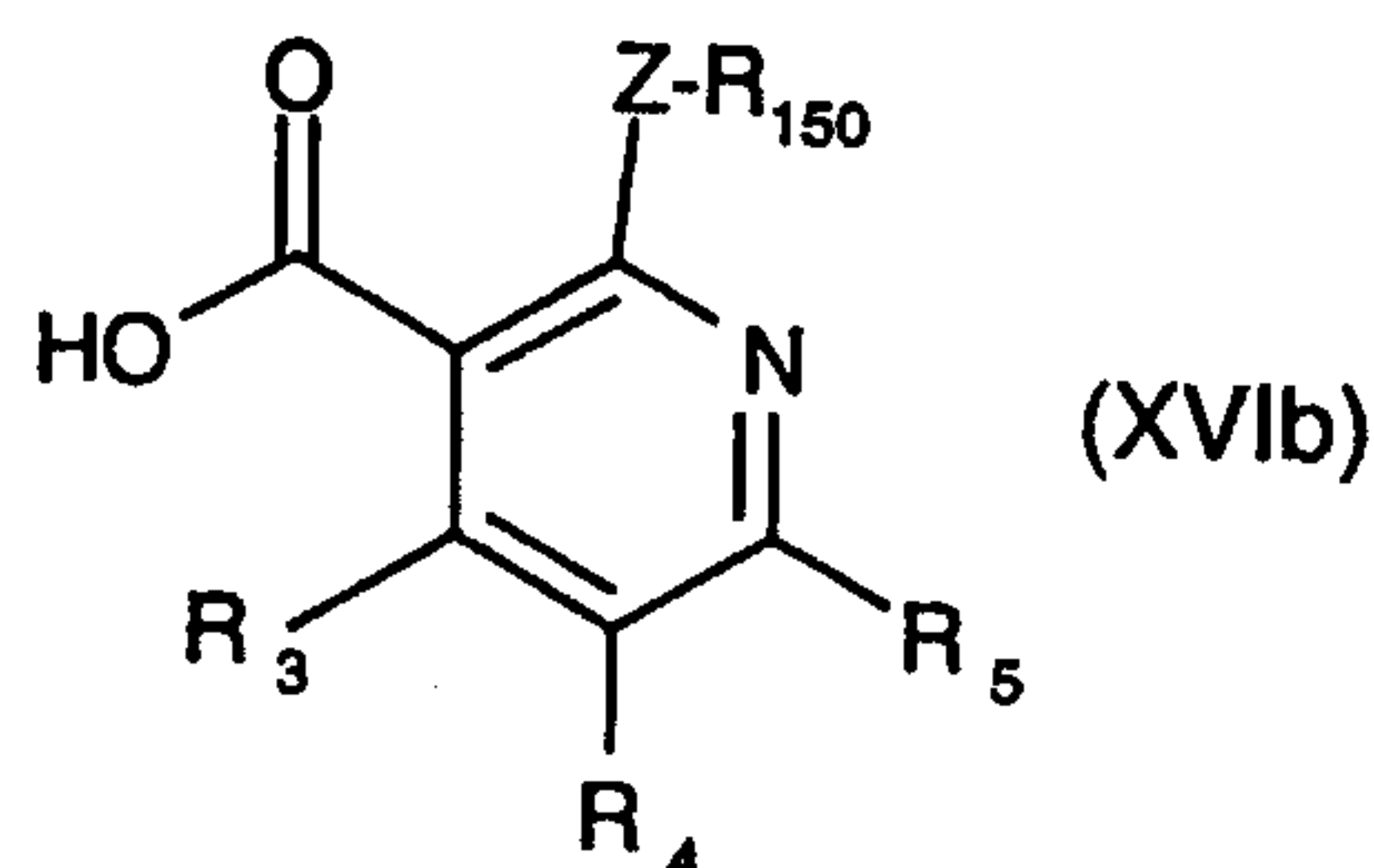
in which R_3 , R_4 , R_5 and R_{14} have the abovementioned meaning (for example using $POCl_3$), and this compound is subsequently reacted with a nucleophile of the formula XV



in which Z is SH, OH or amino and R₁₅ is C₁-C₆alkyl, C₃-C₆alkenyl, C₃-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₆haloalkynyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkyl, phenyl or benzyl, it being possible for the phenyl group, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, or is C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄alkyl, C₁-C₄alkylsulfinyl-C₁-C₄alkyl, C₁-C₄alkylsulfonyl-C₁-C₄alkyl, C₁-C₄alkylsulfonyl or di-(C₁-C₄alkyl)aminosulfonyl, or R₁₅ is a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, it not being possible for each ring system to contain more than 2 oxygen atoms and more than two sulfur atoms and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆alkenyl, C₃-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, mercapto, C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₂-C₅alkoxyalkylthio, C₃-C₅acetylalkylthio, C₃-C₆alkoxycarbonylalkylthio, C₂-C₄cyanoalkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, (CH₂)_nR₇, NR₈R₉, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and substituents on the nitrogen in the heterocyclic ring being other than halogen, in the presence of a base to give compounds of the formula Xb



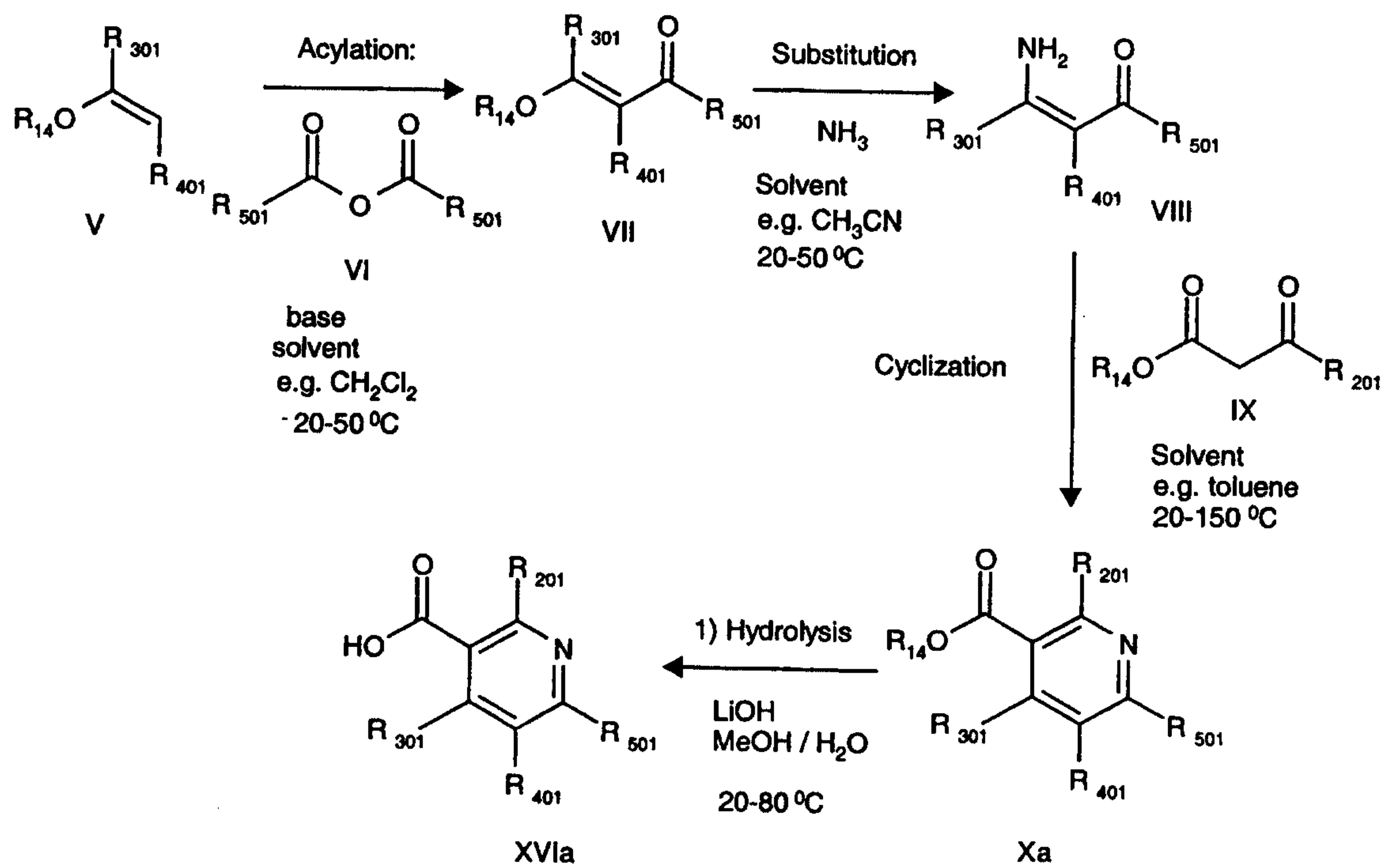
in which R₁₄, R₁₅, R₃, R₄, R₅ and Z have the abovementioned meanings and the resulting compound is subsequently hydrolysed to give the compound of the formula XVIb

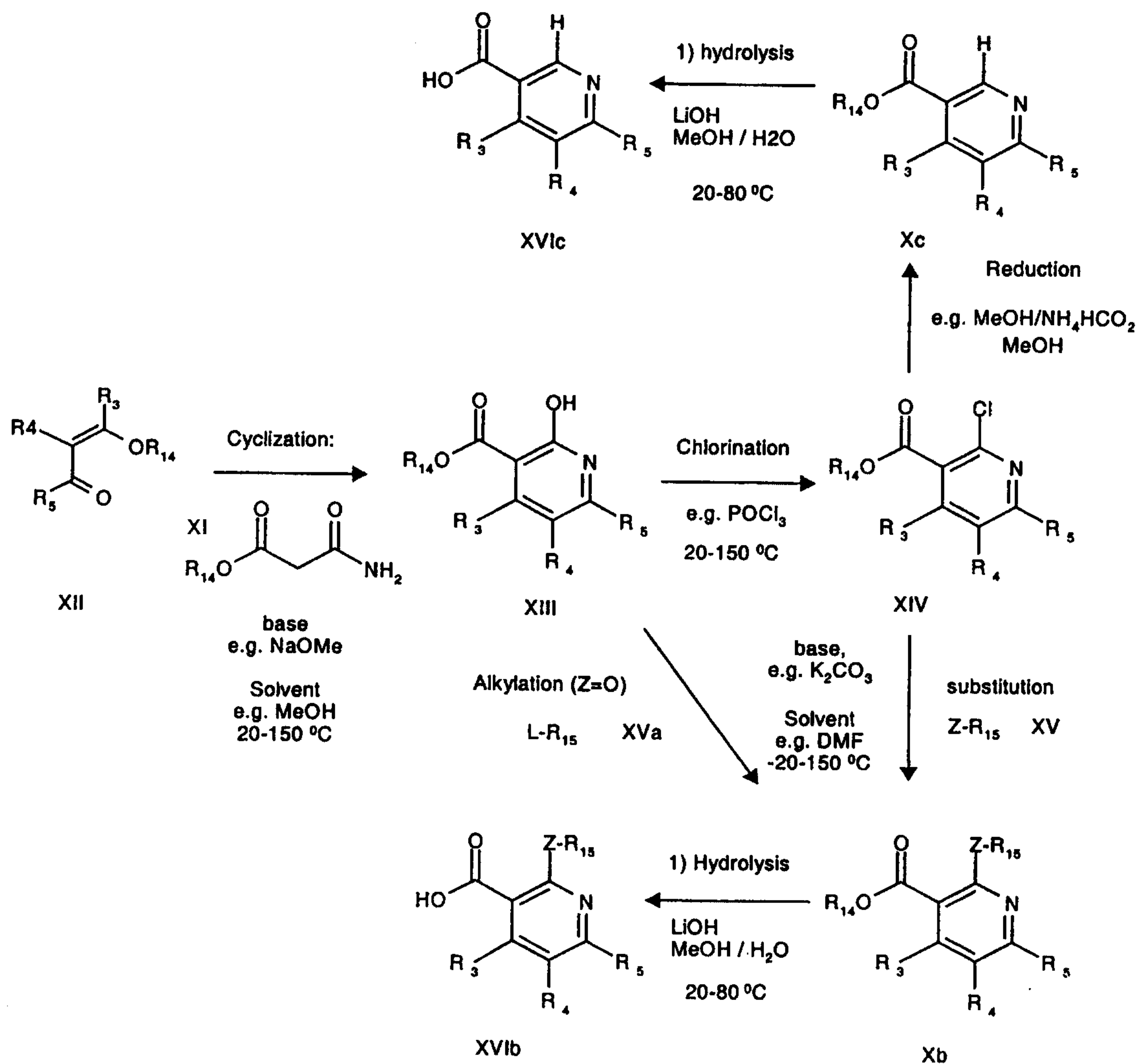


in which R_{15} , R_3 , R_4 , R_5 and Z have the abovementioned meaning.

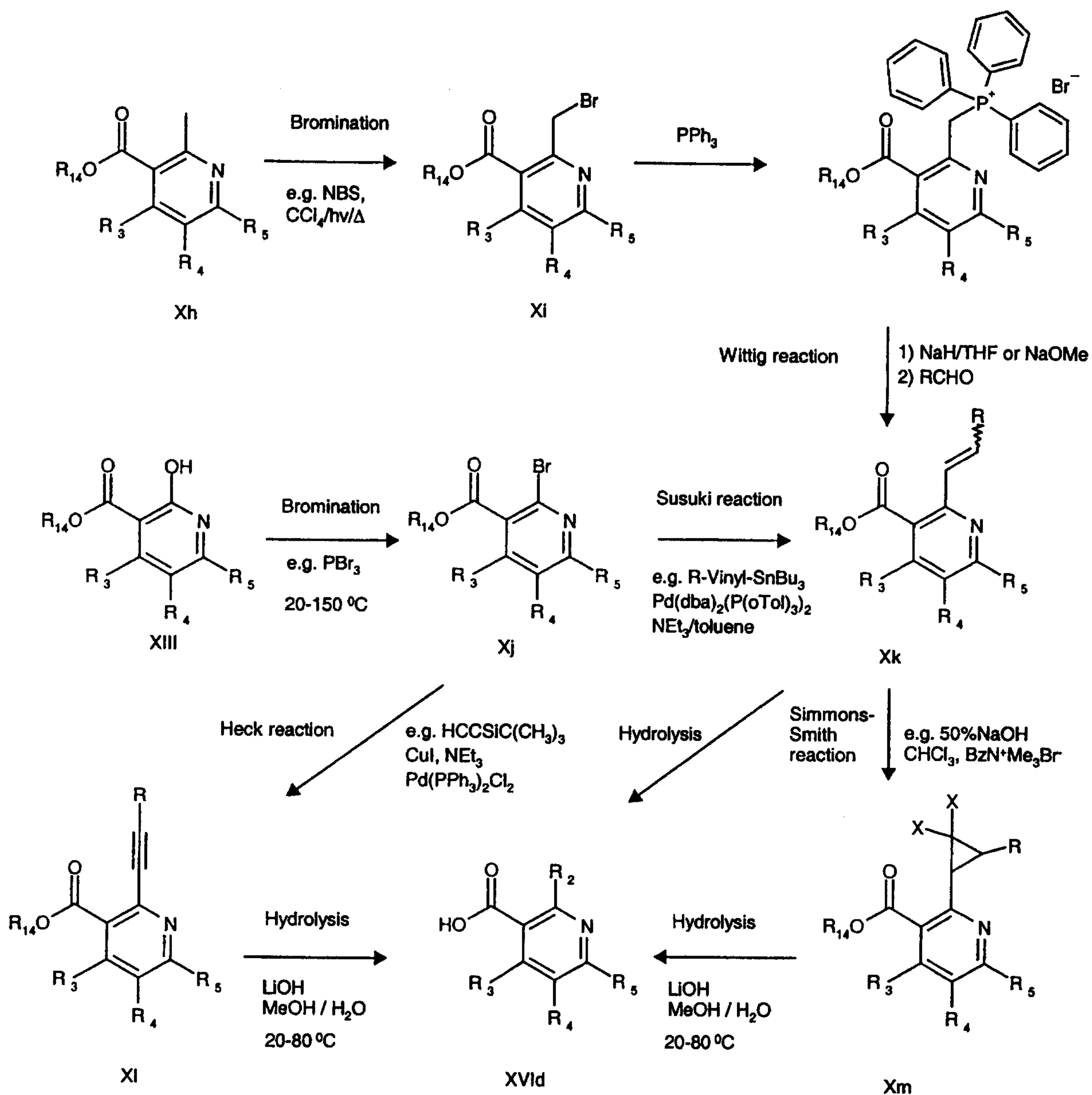
Compounds in which $Z-R_{15}$ and Z are oxygen and R_{15} is C_1 - C_6 alkyl, C_3 - C_6 alkenyl, C_3 - C_6 alkynyl, C_1 - C_6 haloalkyl, C_3 - C_6 haloalkenyl, cyano- C_1 - C_4 alkyl, C_1 - C_4 alkoxy- C_1 - C_4 alkyl, C_1 - C_4 alkylthio- C_1 - C_4 alkyl or C_1 - C_4 alkoxycarbonyl- C_1 - C_4 alkyl can also be reacted starting from XIII by direct alkylation with the corresponding alkylating agent $L-R_{15}$ XVa in which L is a leaving group such as chlorine, bromine, iodine, mesyloxy or tosyloxy.

Compounds of the formula XVIb in which $Z-R_{15}$ is fluorine are prepared by reacting a compound of the formula XIV with potassium fluoride and, if appropriate, a catalytic amount of 18-crown-6 in the presence of a polar aprotic solvent, for example acetonitrile, dimethylformamide or sulfolane. Compounds of the formula XVIc in which $Z-R_{15}$ is hydrogen are prepared by reducing the chlorine group in formula XIV, for example with hydrogen in the presence of a suitable metal catalyst or with ammonium formate, in a suitable solvent. The preparation of the compounds of the formula XVI or XVIa, XVIb and XVIc are illustrated in greater detail in reaction schemes 3 and 4 which follow.

Reaction scheme 3

Reaction scheme 4

Compounds of the formula XVIc in which R₂ is bromomethyl, cyanomethyl, thiocyanatomethyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, a C₁-C₂alkoxycarbonyl- or phenyl-substituted vinyl, C₂-C₆alkynyl, C₂-C₆haloalkynyl, a trimethylsilyl-, hydroxyl-, C₁-C₂alkoxy-, C₁-C₂alkoxycarbonyl- or phenyl-substituted ethynyl, C₃-C₆allenyl, C₃-C₆cycloalkyl or mono- or polyhalogenated C₃-C₆cycloalkyl can be prepared, for example, in accordance with generally known conversion methods which are shown in reaction scheme 4a.

Reaction scheme 4a

Intermediates of the formula XVIa in which R_{501} is CF_2Cl are prepared as described in scheme 3 or by reacting a compound of the formula Xa in which R_{501} is trichloromethyl with hydrofluoric acid in a pressurized vessel at temperatures between 0 and 220°C (preferably $60-200^\circ\text{C}$).

Compounds of the formula XVIa in which R_{501} is CHF_2 can be prepared as in scheme 3 or by heating a compound of the formula Xa in which R_{301} , R_{401} , R_{14} and R_{201} have the abovementioned meaning and R_{501} is CF_2Cl in an inert solvent, for example toluene or benzene, at temperatures between 25 and 120°C (preferably $80-120^\circ\text{C}$) with tributyltin

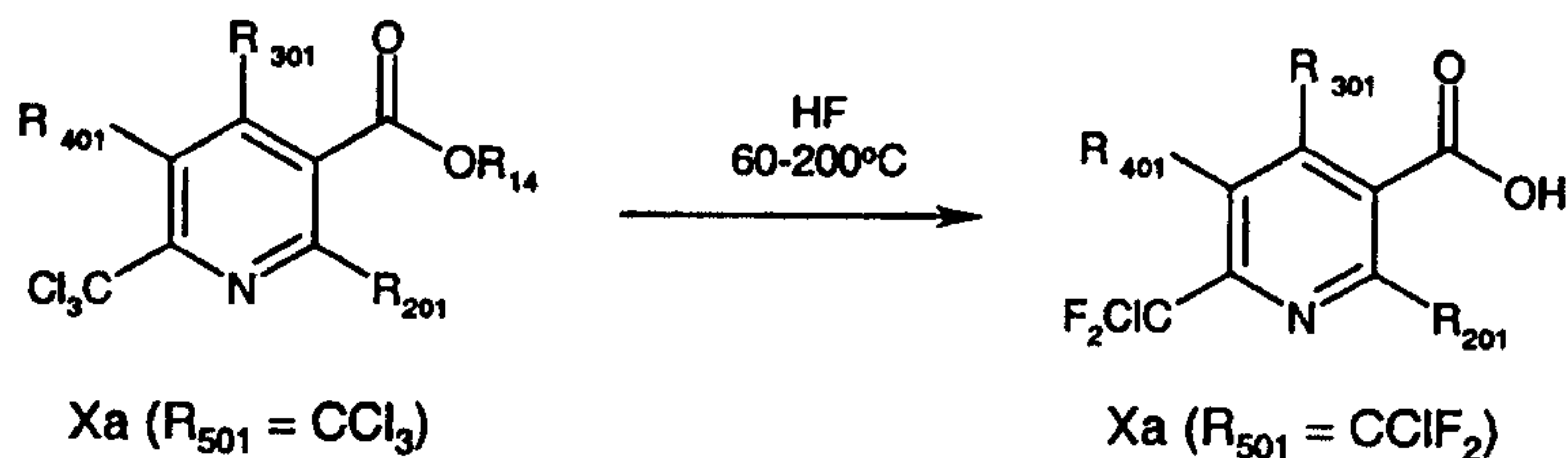
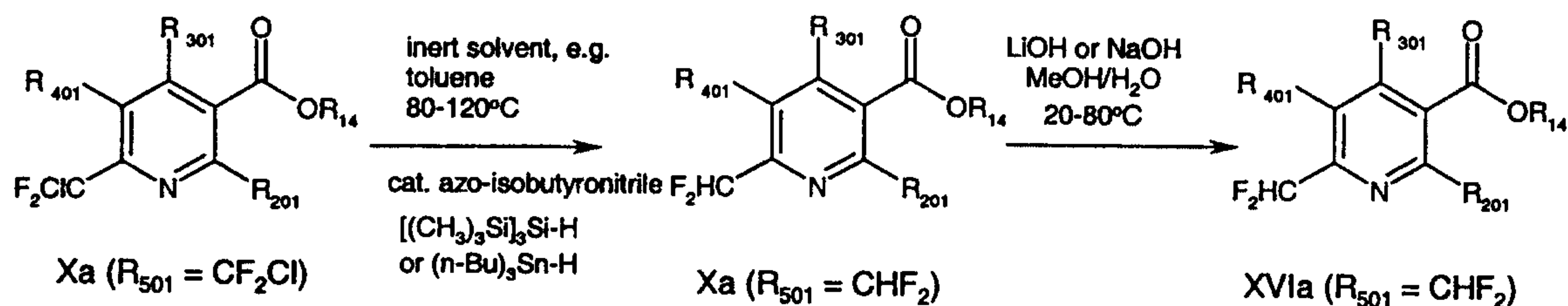
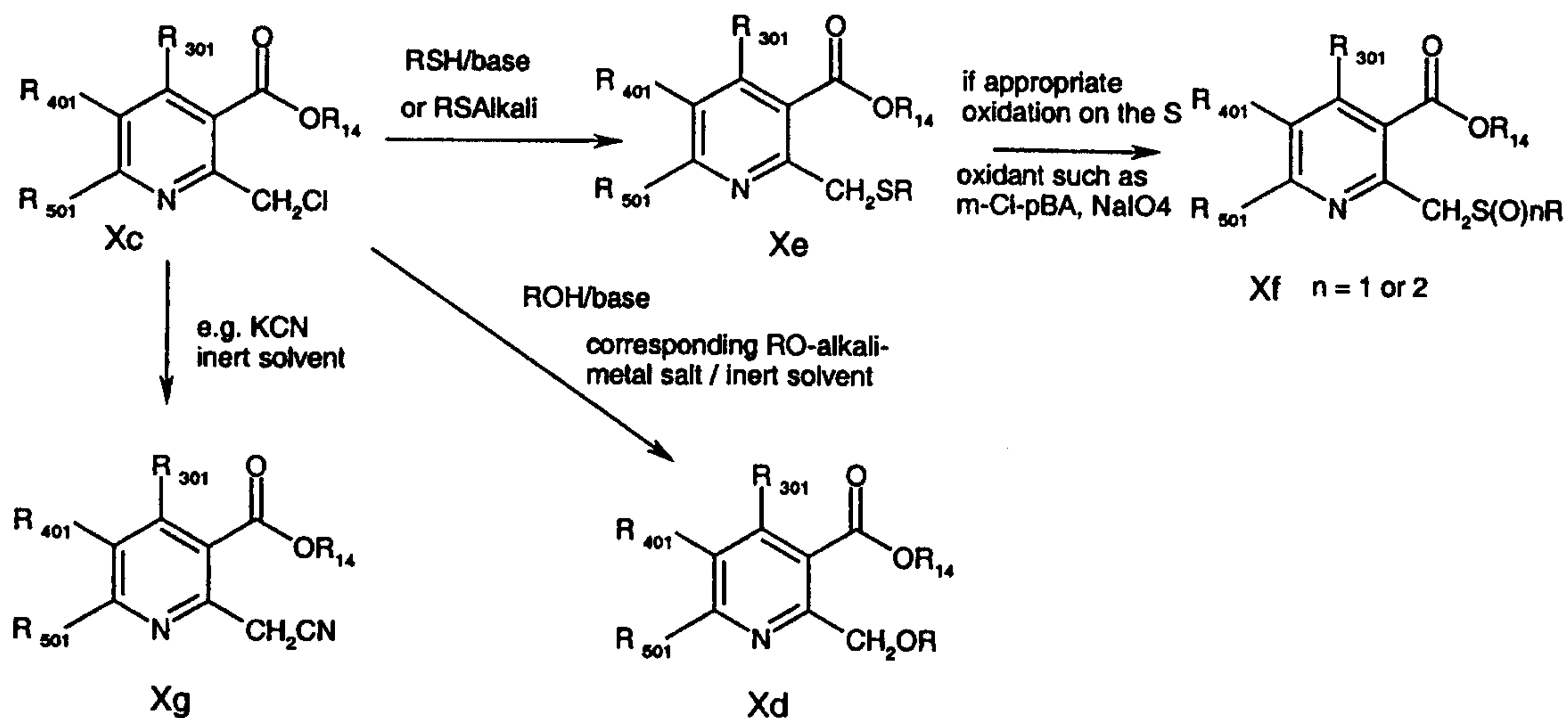
hydride or 1,1,1,3,3,3-hexamethyl-2-(trimethylsilyl)trisilane in the presence of a catalytic amount of azo-isobutyronitrile and subsequently hydrolysing the resulting compound to give the compound of the formula XVIa in which R_{501} is CHF_2 .

Compounds of the formula XVIa in which R_{201} , R_{301} , R_{401} and R_{501} have the abovementioned meaning can also be prepared by reacting a compound of the formula Xc in which R_{14} , R_{301} , R_{401} and R_{501} have the abovementioned meaning and R_{201} is CH_2Cl by nucleophilic substitution, for example with an alkali metal iodide in an inert solvent, to give the corresponding iodides, or by means of gaseous hydrobromic acid in lower carboxylic acids such as glacial acetic acid to give the corresponding bromine derivatives (for example in accordance with US-3974166) or by means of alkali metal fluoride in a dipolar solvent such as sulfolane to give the corresponding fluorine derivatives, or, to prepare an alkoxy radical Xd, by reacting a halogen derivative Xc with an alcohol or phenol in the presence of a base such as sodium hydride or an alkaline earth metal oxide or alkaline earth metal carbonate or directly with an alkali metal alkoxide in an inert solvent such as dimethylformamide or in an excess of the alcohol ROH which corresponds to the group to be introduced at temperatures between -5 and 160°C ,

or, in order to prepare a corresponding aromatic or aliphatic thioether Xe, by reacting, analogously to what has been said above, either the halide Xc with an aliphatic or aromatic thiol in the presence of a base such as sodium hydride or with an alkali metal salt of a thiol in an inert solvent at $-10 - 150^\circ\text{C}$, or, in order to prepare corresponding sulfinyl or sulfonyl derivatives Xe, by carrying out the reaction with an oxidant such as m-chloroperbenzoic acid or sodium periodate or sodium perborate, with the temperature control known in the art, depending on the degree of oxidation (for example $-30^\circ\text{C} - +50^\circ\text{C}$ for $n=1$) or $-20^\circ\text{C} - +100^\circ\text{C}$ for $n=2$) in an inert solvent such as dichloromethane to give Xf,

or, in order to prepare cyanomethylene derivatives of the formula Xg, by reacting a halide of the formula Xc with an alkali metal cyanide or tetraalkylammonium cyanide or copper cyanide in an inert solvent such as dichloromethane, tetrahydrofuran or dimethylformamide at temperatures between 0°C and 220°C .

The preparation of the compounds of the formula XVIa ($R_{501} = \text{CF}_2\text{Cl}$) and of the intermediates of the formulae Xc, Xd, Xe, Xf, and Xg are illustrated in greater detail in the reaction schemes 5, 6 and 7 which follow.

Reaction scheme 5Reaction scheme 6Reaction scheme 7

To prepare all other compounds of the formula X and XVI which are functionalized in accordance with the definition of R₂₀₁ (Z-R₁₅) to R₅₀₁, a multiplicity of known standard methods are suitable, for example alkylation, halogenation, acylation, amidation, oximation, oxidation and reduction, the choice of the preparation methods which are suitable depending on the properties (reactivities) of the substituents in the intermediates.

The reactions to give compounds of the formula I are advantageously carried out in aprotic inert organic solvents. Such solvents are hydrocarbons such as benzene, toluene, xylene or cyclohexane, chlorinated hydrocarbons such as dichloromethane, trichloromethane, tetrachloromethane or chlorobenzene, ethers such as diethyl ether, ethylene glycol dimethyl ether, diethylene glycol dimethyl ether, tetrahydrofuran or dioxane, nitriles such as acetonitrile or propionitrile, amides such as N,N-dimethylformamide, diethylformamide or N-methylpyrrolidinone. The reaction temperatures are advantageously between -20°C and +120°C. In general, the reactions are slightly exothermic and, as a rule, they can be carried out at room temperature. To shorten the reaction time, or else to start the reaction, the mixture may be heated briefly to the boiling point of the reaction mixture. The reaction times can also be shortened by adding a few drops of base as reaction catalyst. Suitable bases are, in particular, tertiary amines such as trimethylamine, triethylamine, quinuclidine, 1,4-diazabicyclo[2.2.2]octane, 1,5-diazabicyclo[4.3.0]non-5-ene or 1,5-diazabicyclo[5.4.0]undec-7-ene. However, inorganic bases such as hydrides, e.g. sodium hydride or calcium hydride, hydroxides, e.g. sodium hydroxide or potassium hydroxide, carbonates such as sodium carbonate and potassium carbonate, or hydrogen carbonates such as potassium hydrogen carbonate and sodium hydrogen carbonate, may also be used as bases. The compounds of the formula I can be isolated in the customary manner by concentrating and/or by evaporating the solvent and purified by recrystallization or trituration of the solid residue in solvents in which they are not readily soluble, such as ethers, aromatic hydrocarbons or chlorinated hydrocarbons.

All application methods which are conventionally used in agriculture, for example pre-emergence application, post-emergence application and seed treatment, as well as various methods and techniques, for example the controlled release of active ingredients, are suitable for the use according to the invention of the compounds of the formula I or of compositions comprising them. To this end, the active ingredient in solution is applied to mineral carriers for granules or to polymerized granules (urea/formaldehyde) and dried. If appropriate, an additional coating can be applied (coated granules), which allows the active ingredient to be released in a controlled manner over a specific period of time.

The compounds of the formula I can be employed as herbicides as such, i.e. as obtained from synthesis. However, they are preferably processed in the customary manner together with the auxiliaries conventionally used in the art of formulation, for example to give

emulsifiable concentrates, directly sprayable or dilutable solutions, dilute emulsions, wettable powders, soluble powders, dusts, granules or microcapsules. Such formulations are described, for example, in WO 97/34485 on pages 9 to 13. The application methods such as spraying, atomizing, dusting, wetting, scattering or pouring, as well as the type of composition, are chosen to suit the intended aims and the prevailing circumstances.

The formulations, i.e. the compositions, preparations or products which comprise the active ingredient of the formula I or at least one active ingredient of the formula I and, as a rule, one or more solid or liquid formulation auxiliaries are prepared in the known manner, for example by intimately mixing and/or grinding the active ingredients together with the formulation auxiliaries, for example solvents or solid carriers. Furthermore, surface-active compounds (surfactants) may additionally be used when preparing the formulations. Examples of solvents and solid carriers are indicated for example in WO 97/34485 on page 6.

Suitable surface-active compounds are, depending on the nature of the active ingredient of the formula I to be formulated, non-ionic, cationic and/or anionic surfactants and surfactant mixtures which have good emulsifying, dispersing and wetting properties.

Examples of suitable anionic, non-ionic and cationic surfactants are enumerated, for example, in WO 97/34485 on pages 7 and 8.

The surfactants conventionally used in the art of formulation which are described, inter alia, in "McCutcheon's Detergents and Emulsifiers Annual" MC Publishing Corp., Ridgewood New Jersey, 1981, Stache, H., "Tensid-Taschenbuch" ["Surfactants Guide"], Carl Hanser Verlag, Munich/Vienna, 1981, and M. and J. Ash, "Encyclopedia of Surfactants", Vol I-III, Chemical Publishing Co., New York, 1980-81, are furthermore also suitable for preparing the herbicidal compositions according to the invention.

As a rule, the herbicidal formulations comprise 0.1 to 99% by weight, in particular 0.1 to 95% by weight, of herbicide, 1 to 99.9% by weight, in particular 5 to 99.8% by weight, of a solid or liquid formulation auxiliary and 0 to 25% by weight, in particular 0.1 to 25% by weight, of a surfactant. While concentrated compositions are more preferred as commercially available goods, the end consumer uses, as a rule, dilute compositions. The compositions can also

comprise further additives such as stabilizers, for example epoxidized or non-epoxidized vegetable oils (epoxidized coconut oil, rapeseed oil or soya oil), antifoams, e.g. silicone oil, preservatives, viscosity regulators, binders, tackifiers and fertilizers or other active ingredients.

As a rule, the active ingredients of the formula I are applied to the plant or its environment at rates of 0.001 to 4 kg/ha, in particular 0.005 to 2 kg/ha. The dosage required for the desired action can be determined by experiments. It depends on the type of the action, the developmental stage of the crop plant and of the weed, and on the application (location, timing, method) and can, owing to these parameters, vary within wide limits.

The compounds of the formula I are distinguished by herbicidal and growth-inhibitory properties which allow them to be employed in crops of useful plants, in particular in cereals, cotton, soya, sugar beet, sugar cane, plantation crops, rapeseed, maize and rice and for the non-selective control of weeds. Crops are also to be understood as including those which have been rendered tolerant to herbicides or classes of herbicides by means of conventional plant breeding or by genetic engineering methods. The weeds to be controlled may be both mono- and dicotyledonous weeds such as *Stellaria*, *Nasturtium*, *Agrostis*, *Digitaria*, *Avena*, *Setaria*, *Sinapis*, *Lolium*, *Solanum*, *Echinochloa*, *Scirpus*, *Monochoria*, *Sagittaria*, *Bromus*, *Alopecurus*, *Sorghum halepense*, *Rottboellia*, *Cyperus*, *Abutilon*, *Sida*, *Xanthium*, *Amaranthus*, *Chenopodium*, *Ipomoea*, *Chrysanthemum*, *Galium*, *Viola* and *Veronica*.

The examples which follow illustrate the invention in greater detail without limiting it.

Preparation Examples:

Example H1: Preparation of 3-hydroxy-4,4-dimethyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (compound A2-B24):

6.68 g (0.0305 mol) of methyl 2-methyl-6-trifluoromethylnicotinate (prepared as described in *Heterocycles*, 46, 129 (1997)) are dissolved in 250 ml of methanol/water (3:1 mixture), and 1.92 g (0.046 mol) of lithium hydroxide hydrate are added portionwise at a temperature of 22°C. After 4 hours at 22°C, the reaction mixture is poured onto ethyl acetate and 2 N hydrochloric acid, and the organic phase is washed three times with water, dried with sodium

sulfate and evaporated, and the residue is triturated with a small amount of hexane. After filtration, 5.69 g (90% of theory) of 2-methyl-6-trifluoromethylnicotinic acid of melting point 147-149°C are obtained.

The resulting 2-methyl-6-trifluoromethylnicotinic acid (1.026 g, 0.005 mol) is dissolved in 20 ml of oxalyl chloride. Three drops of dimethylformamide are added and the mixture is refluxed for 1 hour. The mixture is then concentrated on a rotary evaporator and the residue (2-methyl-6-trifluoromethylnicotinoyl chloride) is taken up in 100 ml of methylene chloride. At a temperature of 0°C, 1.6 ml (0.0115 mol) of triethylamine and 0.7 g (0.005 mol) of 4,4-dimethylcyclohexane-1,3-dione are added. After 2 hours at a temperature of 22°C, the solvent is removed on a vacuum rotary evaporator, the residue which remains is dissolved in 55 ml of acetonitrile, and 0.15 ml (0.0016 mol) of acetone cyanohydrin and 0.79 ml (0.0057 mol) of triethylamine are added in order to subject the intermediate to a rearrangement reaction. After the reaction solution has been stirred for 4 hours at room temperature, it is evaporated. The syrup which remains is chromatographed on silica gel. Elution with a mixture of toluene, ethyl alcohol, dioxane, triethylamine and water (100:40:20:20:5 parts by volume) gives a pale yellow viscous oil ($R_f = 0.39$ on the abovementioned mixture as mobile phase), which is dissolved in dichloromethane and washed in succession with 75 ml of 5% hydrochloric acid and 75 ml of water. Evaporation to dryness of the organic solution which has been dried with Na_2SO_4 yields 1.05 g (63%) of pure 3-hydroxy-4,4-dimethyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone in the form of white crystals of melting point 75-77°C.

^1H NMR (d_6 -DMSO, δ in ppm): 1.342, s, 6H: 2.088, t, J 9Hz, 2H: 2.685, s, 3H: 2.982, t, J 9Hz, 2H: 8.030, d, J 8.1Hz, 1H: 8.094, d, (J, 8.1Hz), 1H.

Example H2: Preparation of 5-methyl-5-trifluoromethylcyclohexane-1,3-dione (compound H-B1066):

0.64 g of sodium were introduced into 40 ml of ethanol, and 3.23 ml of methyl acetoacetate and 4.9 g of isopropyl 4,4,4-trifluoro-3-methylbut-2-enoate were introduced, and the mixture was heated at the boil for 18 hours. After the mixture has been partitioned between dilute hydrochloric acid and ethyl acetate, the mixture is evaporated. The remaining unpurified methyl 2-methyl-4,6-dioxo-2-trifluoromethylcyclohexanecarboxylate is hydrolysed in a mixture of methanol and water at boiling point in the presence of 9.1 g of sodium hydroxide.

The mixture is subsequently acidified with hydrochloric acid and extracted with fresh ethyl acetate. After recrystallization (ethyl acetate), pure 5-methyl-5-trifluoromethylcyclohexane-1,3-dione of melting point 150-152°C is obtained.

Example H3: Preparation of methyl 2-hydroxy-1-methoxy-5-methyl-4-oxocyclohex-2-enecarboxylate (Example H-B1069):

A 30% solution of 35.8 g of sodium methoxide is introduced into 65 ml of dimethyl sulfoxide and, within 20 minutes, treated with a mixture of 16.7 g of 3-methyl-3-butene-2-one and 32.4 g of dimethyl methoxymalonate at a temperature of 30-35°C. The mixture is stirred for 1 hour at a temperature of 35°C, and is then acidified with hydrochloric acid and extracted repeatedly with dichloromethane. The organic phases are washed with water, dried and concentrated. Crystallization from hot ethyl acetate and hexane gives pure methyl 2-hydroxy-1-methoxy-5-methyl-4-oxocyclohex-2-enecarboxylate of melting point 117-117.5°C.

Example H4: Preparation of methyl 2-hydroxy-1-methoxy-5-methyl-3-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-4-oxocyclohex-2-enecarboxylate (compound A2-B1069):

2.23 g of fresh 2-methyl-6-trifluoromethylnicotinoyl chloride are added to a mixture of 2.14 g of methyl 2-hydroxy-1-methoxy-5-methyl-4-oxocyclohex-2-enecarboxylate and 2.02 g of triethylamine in 30 ml of acetonitrile. After approximately 30 minutes, 0.065 g of potassium cyanide is added and the mixture is stirred for 18 hours. At pH 2, the mixture is subsequently partitioned between water and ethyl acetate, dried over magnesium sulfate and evaporated. Filtration on silica gel (mobile phase ethyl acetate/methanol/triethylamine 85:10:5) gives the pure methyl 2-hydroxy-1-methoxy-5-methyl-3-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-4-oxocyclohex-2-enecarboxylate as a viscous oil.

Example H5: Preparation of 3-hydroxy-4-methoxy-6-methyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (compound A2-B1070):

1.4 g of methyl 2-hydroxy-1-methoxy-5-methyl-3-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-4-oxocyclohex-2-enecarboxylate in dioxane/water (5:3) are treated with 0.586 g of potassium hydroxide and the mixture is stirred for 3 hours. The mixture is then acidified (pH 3) and extracted with fresh ethyl acetate. The crude product is purified by chromatography analogously to Example H4. 3-Hydroxy-4-methoxy-6-methyl-2-(2-methyl-6-

trifluoromethyl-pyridine-3-carbonyl)cyclohex-2-enone is obtained as a viscous oil (according to $^1\text{H-NMR}$ as a mixture of 3 tautomeric forms).

Example H6: 5-Chloro-2,2,6,6-tetramethyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-cyclohex-4-ene-1,3-dione (compound A2-B1105) and 6-[chloro-(2-methyl-6-trifluoromethylpyridin-3-yl)methylene]-2,2,4,4-tetramethylcyclohexane-1,3,5-trione :

7.0 g (55 mmol) of oxalyl chloride are introduced into 18.5 g (50 mmol) of 5-hydroxy-2,2,6,6-tetramethyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione (compound A2-B354), dissolved in 50 ml of dichloromethane; 5 drops of dimethylformamide are added, and the mixture is slowly heated up to boiling point. After approximately 30 minutes, after the evolution of gas has ceased, the mixture is evaporated and the product is crystallized by adding n-hexane. The main product obtained is pure 5-chloro-2,2,6,6-tetramethyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione, m.p. 119.5-120°C. Further HPLC-separation of the mother liquor using 5-10% ethyl acetate in hexane gives the isomer 6-[chloro-(2-methyl-6-trifluoromethylpyridine-3-yl)methylene]-2,2,4,4-tetramethylcyclohexane-1,3,5-trione, m.p. 92.5-93°C.

Example H7: 5-Chloro-2,2,6,6-tetramethyl-4-(2-methyl-1-oxy-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione (compound A1210-B1105):

1.94 g (5 mmol) of 5-chloro-2,2,6,6-tetramethyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione are treated in 20 ml of dichloroethane at a temperature of -10°C with 0.94 g (10 mmol) of hydrogen peroxide/urea adduct and 1.89 g (9 mmol) of trifluoroacetic anhydride. The reaction mixture is warmed to room temperature, with stirring, and held for a further 4 hours at this temperature. The mixture is then partitioned between ethyl acetate and water of pH 5, washed with sodium chloride solution and evaporated. The residue which is filtered through silica gel is pure 5-chloro-2,2,6,6-tetramethyl-4-(2-methyl-1-oxy-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione of melting point 145.5-146°C.

Example H8: 4-(2-Bromomethyl-6-trifluoromethylpyridine-3-carbonyl)-5-chloro-2,2,6,6-tetramethylcyclohex-4-ene-1,3-dione (compound A1029-B1105):

0.39 g (1 mmol) of 5-chloro-2,2,6,6-tetramethyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione and 0.20 g (1.1 mmol) of N-bromosuccinimide are refluxed in the presence of a catalytic amount of dibenzoyl peroxide in 10 ml of carbon tetrachloride. After the reaction has subsided, the resulting succinimide is removed by filtration and the crude product is purified by column chromatography (mobile phase: ethyl acetate/hexane 1:4). This gives pure 4-(2-bromomethyl-6-trifluoromethylpyridine-3-carbonyl)-5-chloro-2,2,6,6-tetramethylcyclohex-4-ene-1,3-dione of melting point 94.5-95°C.

Example H9: 2-(2-Acetoxymethyl-6-trifluoromethylpyridine-3-carbonyl)-4,4,6,6-tetramethyl-3,5-dioxocyclohex-1-enyl acetate (compound A1099-B1107):

0.4 g (1 mmol) of 5-chloro-2,2,6,6-tetramethyl-4-(2-methyl-1-oxy-6-trifluoromethylpyridine-3-carbonyl)cyclohex-4-ene-1,3-dione (Example H7) is refluxed for 25 minutes in the presence of 3 ml of acetic anhydride. The mixture is then concentrated and partitioned between ethyl acetate and sodium bicarbonate solution at pH 6.5. The crude product, separated on silica gel (mobile phase: ethyl acetate/hexane 1:4) yields the pure 2-(2-acetoxymethyl-6-trifluoromethylpyridine-3-carbonyl)-4,4,6,6-tetramethyl-3,5-dioxocyclohex-1-enyl acetate as an oil; ¹H-NMR (CDCl₃): 7.98 d, CH, 7.72 d, CH, 5.62 s, CH₂, 2.22 and 2.20 2x OAc, 1.58, s, 2x CH₃, 1.44 ppm, s, 2x CH₃.

Example H10: 5-Hydroxy-2-methyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-bicyclo[4.1.0]hept-4-en-3-one (compound A2-D109) and 3-hydroxy-7-methyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohepta-2,6-dienone (compound A2-F5):

0.82 g (2 mmol) of ethyl trans-5-hydroxy-2-methyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-3-oxobicyclo[4.1.0]hept-4-en-2-carboxylate (compound A2-D111) is stirred in a 2:1 mixture of dioxane/water together with 0.254 g (4.5 mmol) of potassium hydroxide at room temperature until all of the starting material is reacted. Then, ethyl acetate is added, the mixture is acidified to pH 3 using 4 N HCl, and the 2-phase mixture is then heated for approx. 1 hour at a temperature of 40°C. The aqueous phase which is saturated with sodium chloride is then separated off. The ethyl acetate extract is evaporated to dryness and the

product is chromatographed on silica gel (mobile phase ethyl acetate/hexane 1:2). The 1st fraction which is isolated is 3-hydroxy-7-methyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohepta-2,6-dienone as pure tautomer mixture, $^1\text{H-NMR}$ (CDCl_3): 17.72 and 17.08, 2s, OH, 7.6-7.45, 2 arom. H, 6.68 and 6.62, 2t, CH, 2.84, m, 2.63, m, 2.52, m, 4H, 2.62 and 2.54, 2s, CH_3 , 2.03 and 1.77 ppm, 2s, CH_3 . Subsequent elution with 100% ethyl acetate gives, as the 2nd fraction, the isomer and tautomer mixture of 5-hydroxy-2-methyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)bicyclo[4.1.0]hept-4-en-3-one, $^1\text{H-NMR}$ (CDCl_3): i.a. 17.62 and 17.48, 2s, OH, 7.6-7.45, 2 arom. H, 2.54, m, 2.48, 2s CH_3 , 1.22 and 1.14, 2d, CH_3 , 1.00 to 0.05 ppm, 2H.

Example H11: 5-Hydroxy-2-methanesulfinyl-2-methyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)bicyclo[4.1.0]hept-4-en-3-one (compound A2-D114):

0.87 g (2.3 mmol) of 5-hydroxy-2-methyl-2-methylsulfonyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)bicyclo[4.1.0]hept-4-en-3-one (compound A2-D113), dissolved in 8 ml of methanol, is warmed for 3 hours at a temperature of 50°C in the presence of 0.56 g of sodium periodate. The mixture is then partitioned between ethyl acetate and sodium chloride solution, concentrated, and the crude product is purified by chromatography (mobile phase: ethyl acetate/methanol 19:1). Pure 5-hydroxy-2-methanesulfinyl-2-methyl-4-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)bicyclo[4.1.0]hept-4-en-3-one is obtained as tautomer and isomer mixture of melting point 159.5-160°C.

Example H12: 2-Prop-2-ynyloxy-6-trifluoromethylnicotinic acid (compound A1025):

47 g (0.2 mol) of 2-oxo-6-trifluoromethyl-1,2-dihydropyridine-3-carboxylic acid, 20 ml (0.25 mol) of propargyl bromide and 43 g (0.31 mol) of potassium carbonate are heated to a temperature of 75°C in a mixture of 40 ml of dimethylformamide and 80 ml of acetonitrile in the presence of a catalytic amount of 18-crown-6 ether. After 5 hours, the mixture is partitioned between ethyl acetate and saturated sodium chloride solution. The crude product is filtered through a silica gel column using 15% ethyl acetate in hexane. The main component, which is obtained in the form of an oil, is the pure ethyl 2-prop-2-ynyloxy-6-trifluoromethylnicotinate; $^1\text{H-NMR}$ (CDCl_3): 8.31, d, CH, 7.38, d, CH, 5.13, d, CH_2 , 4.41, q, CH_2 , 2.48, t, CCH, 1.41 ppm, t, CH_3 .

36.3 g (0.13 mol) of this product is stirred over a period of 16 hours with a solution of 11.5 g (0.17 mol) of potassium hydroxide in 50 ml of water and 50 ml of dioxane. After acidification and extraction with ethyl acetate, crystalline 2-prop-2-ynyloxy-6-trifluoromethylnicotinic acid is obtained; $^1\text{H-NMR}$ (CDCl_3): 10.0, b, OH, 8.53, d, CH, 7.44, d, CH, 5.22, d, CH_2 , 2.54 ppm, t, CCH.

Example H13: 2-Methylthio-6-trifluoromethylnicotinic acid (compound A15):

9.4 g (40 mmol) of 2-oxo-6-trifluoromethyl-1,2-dihydropyridine-3-carboxylic acid are introduced into a 1-molar solution of 21.7 g of phosphorus tribromide (80 mmol) in dichloromethane at a temperature of 35°C . Then, the solvent is distilled off and the reaction mixture is heated slowly to boiling point, approx. 175°C . After 18 hours, the mixture is cooled to 0°C , diluted with dichloromethane and stirred with ice-water of pH 1.8. The organic phase is then washed with cold sodium carbonate solution and with 15% sodium chloride solution, dried over magnesium sulfate and concentrated. The residue is ethyl 2-bromo-6-trifluoromethylnicotinate in the form of an oil; $^1\text{H-NMR}$ (CDCl_3): 8.20, d, CH, 7.72 d, CH, 4.46, q, CH_2 , 1.42 ppm, t, CH_3 of melting point $164\text{-}166^\circ\text{C}$.

1.0 g (3.4 mmol) of this product, dissolved in a small amount of acetonitrile, is heated for 45 minutes to a temperature of 70°C together with 0.26 g of sodium methanethiolate (3.4 mmol) in the presence of a catalytic amount of 15-crown-5 ether. The solution, which is cooled to room temperature, is then treated with 0.22 g (5.5 mmol) of sodium hydroxide and 5 ml of water, and stirring is continued for 3 hours. The neutral components are subsequently removed with a small amount of diethyl ether, and the aqueous phase is brought to pH 2.5 and extracted twice using ethyl acetate. This gives 2-methylthio-6-trifluoromethylnicotinic acid as crystalline product; $^1\text{H-NMR}$ (CDCl_3): 8.46, d, CH, 7.43, d, CH, 2.58 ppm, s, SCH_3 .

Example H14: 2-Methanesulfonylamino-6-trifluoromethylnicotinic acid (compound A1203):

0.52 g of methanesulfonamide is introduced into a tetrahydrofuran suspension of 0.24 g of 55% sodium hydride in oil. After the evolution of hydrogen has ceased, 1.5 g (5 mmol) of ethyl 2-bromo-6-trifluoromethylnicotinate, 0.3 g (5.2 mmol) of potassium fluoride and a catalytic amount of crown ether and 5 ml of N-methylpyrrolidone are added and the mixture

is heated at the boil for 18 hours. The reaction mixture is then partitioned between ethyl acetate and water and freed from organic neutral constituents. The aqueous phase is brought to pH 2.9, extracted 3 times with fresh ethyl acetate, dried and concentrated. A crystalline product, ethyl 2-methanesulfonylamino-6-trifluoromethylnicotinate, is obtained from ether/hexane; $^1\text{H-NMR}$ (CDCl_3): 10.48, s, NH, 8.49, d, CH, 7.38, d, CH, 4.45, q, CH_2 , 3.51, s, SO_2CH_3 , 1.42 ppm, t, CH_3 .

0.43 g (1.4 mmol) of the above product is hydrolysed at room temperature using a 1:1 solution of 0.22 g (3.9 mmol) of potassium hydroxide in dioxane/water. After the solution, which has been acidified to pH 2.5, has been extracted with ethyl acetate, 2-methanesulfonylamino-6-trifluoromethylnicotinic acid is obtained as crystallisate; $^1\text{H-NMR}$ ($d_6\text{-DMSO}$): 8.62, d, CH, 7.72, d, CH, 3.52 ppm, s, SO_2CH_3 .

Example H15: (3-Methoxycarbonyl-6-trifluoromethylpyridin-2-ylmethyl)triphenylphosphonium bromide:

50 g (0.23 mol) of methyl 2-methyl-6-trifluoromethylnicotinate and 49 g (0.28 mol) of N-bromosuccinimide are heated for 90 minutes at 50°C in 500 ml of carbon tetrachloride in the presence of a catalytic amount of α,α -azaisobutyronitrile with illumination by a 150 watt lamp. Precipitated succinimide is filtered off, and the product methyl 2-bromomethyl-6-trifluoromethylnicotinate is then isolated as main component by means of column chromatography (mobile phase ethyl acetate/hexane 1:15), $^1\text{H-NMR}$ (CDCl_3): 4.01, s, 3H; 5.03, s, 2H; 7.72, d (J 8.2Hz), 1H; 8.43 ppm, d, (J 8.2Hz), 1H. 25.6 g (35 mmol) of the above product are taken up in toluene and treated with 10.6 g (40 mmol) of triphenylphosphine. After the mixture has been heated for 2 hours at boiling point, pure (3-methoxycarbonyl-6-trifluoromethylpyridine-2-ylmethyl)triphenylphosphonium bromide of melting point $215\text{-}217^\circ\text{C}$ crystallizes out upon cooling.

Example H16: 2-Vinyl-6-trifluoromethylnicotinic acid (compound A21) and 2-(2,2-dichlorocyclopropyl)-6-trifluoromethylnicotinic acid (compound A1092):

5.7 g (10 mmol) of (3-methoxycarbonyl-6-trifluoromethylpyridine-2-ylmethyl)triphenylphosphonium bromide are dissolved at room temperature in a 2-phase system of 25 ml of chloroform and 2.1 g (20 mmol) of sodium carbonate and reacted, in 10 ml of water, with a

35% aqueous solution of 1.7 g (20 mmol) of formaldehyde. After 1.5 hours, the organic phase is separated off and filtered through silica gel. Methyl 2-vinyl-6-trifluoromethylnicotinate is obtained as an oil, $^1\text{H-NMR}$ (CDCl_3): 8.31, d, CH, 7.10, dd, CH, 7.09, d, CH, 6.68, dd, CH, 5.68, dd, CH, 3.97 ppm, s, OCH_3 .

0.97 g (4.1 mmol) of this product is again taken up in chloroform and reacted with 6 ml of 50% sodium hydroxide solution with vigorous stirring in the presence of 90 mg of benzyltrimethylammonium bromide. After 20 hours, the organic phase is separated off, concentrated and purified by HPLC (mobile phase: ethyl acetate/hexane 1:4). This gives pure methyl 2-(2,2-dichlorocyclopropyl)-6-trifluoromethylnicotinate, $^1\text{H-NMR}$ (CDCl_3): 8.50, d, CH, 7.70, d, CH, 4.08, s, OCH_3 , 3.68, dd, CH, 2.64, dd, CH, 2.05 ppm, dd, CH.

Hydrolysis of the above esters gives, accordingly, the 2-vinyl-6-trifluoromethylnicotinic acid, $^1\text{H-NMR}$ (CDCl_3): 8.40, d, CH, 7.22, dd, CH, 7.09, d, CH, 6.68, dd, CH, 5.58 ppm, dd, CH, and 2-(2,2-dichlorocyclopropyl)-6-trifluoromethylnicotinic acid, $^1\text{H-NMR}$ (CDCl_3): 8.64, d, CH, 7.23, d, CH, 3.78, dd, CH, 2.67, dd, CH, 2.08 ppm, dd, CH.

Example H17: 2-Propa-1,2-dienyl-6-trifluoromethylnicotinic acid (A1096) and 2-(3-chloropropenyl)-6-trifluoromethylnicotinic acid (compound A1095).

6.7 g (11 mmol) of ((3-methoxycarbonyl-6-trifluoromethylpyridin-2-yl)methyl)triphenylphosphonium bromide are reacted with 2 ml of 45% aqueous chloroacetaldehyde solution (14 mmol) and 1.5 g (14 mmol) of sodium carbonate with vigorous stirring in a 2-phase system of 20 ml of chloroform and 7 ml of water. After 2 hours, the organic solution is separated off and washed with half-saturated sodium chloride solution. The product is separated on silica gel (mobile phase ethyl acetate/hexane 1:4). As the 1st fraction, methyl 2-propa-1,2-dienyl-6-trifluoromethylnicotinate, $^1\text{H-NMR}$ (CDCl_3): 7.62, m, CH, 7.55, d, CH, 7.32, d, CH, 7.04, d, CH, 7.02, m, CH, 3.98 ppm, s, OCH_3 , is isolated, and methyl 2-(3-chloropropenyl)-6-trifluoromethylnicotinate, $^1\text{H-NMR}$ (CDCl_3): 8.85, d, CH, 7.65, dd, 7.58, d, CH, CH, 7.28, dd, CH, 4.32, d, CH_2Cl , 3.98 ppm, s, OCH_3 is isolated as the 2nd fraction.

Hydrolysis of the above esters gives 2-propa-1,2-dienyl-6-trifluoromethylnicotinic acid, m.p. 194-196°C, and 2-(3-chloropropenyl)-6-trifluoromethylnicotinic acid, m.p. 137-138°C.

Example H18: 2-Chloro-4-methyl-6-trifluoromethylnicotinic acid (compound A1205):

In a pressurized vessel, 7.5 g (0.03 mol) of ((3-ethoxycarbonyl)-4-methyl-6-trifluoromethyl)-pyrid-2-one is heated for 3 hours at a temperature of 170°C in the presence of 5.8 ml of phenyl dichlorophosphate. When cold, the reaction solution is filtered directly over a short silica gel column (mobile phase: ethyl acetate/hexane 1:9), and the 2-chloro-4-methyl-6-trifluoromethylpyridin-3-ylethyl ester is obtained as oily product. The latter is hydrolysed in the presence of aqueous potassium hydroxide solution in dioxane at a temperature of 40°C. After acidification to pH 2.7, extraction with ethyl acetate gives 2-chloro-4-methyl-6-trifluoromethylnicotinic acid as crystalline product: ¹H NMR (CDCl₃): 9.55, b, OH, 7.55, s, 1H; 3.80, s, CH₃, 2.56 ppm, s, CH₃.

Example H19: 4-Methyl-6-trifluoromethylnicotinic acid (compound A531):

To a suspension of 0.55 g of 10% Pd/C in 20 ml of methanol there are added 3.0 g (16.8 mmol) of the 2-chloro-4-methyl-6-trifluoromethylpyridin-3-ylethyl ester and, in 2 portions, a total of 5 g of ammonium formate, and the mixture is stirred for 24 hours at room temperature. The reaction mixture is then filtered through Celite and partitioned between ethyl acetate and sodium chloride solution. Chromatographic purification (mobile phase 1:9) gives the 4-methyl-6-trifluoromethylpyridin-3-ylethyl ester in the form of an oil: hydrolysis in accordance with the above processes gives 4-methyl-6-trifluoromethylnicotinic acid: ¹H NMR (CDCl₃): 9.32, s, 1H, 7.62, s, 1H, 2.79 ppm, s, CH₃.

Example H20: 5-Methyl-5-methylsulfanylbicyclo[4.1.0]heptane-2,4-dione (compound H-D113):

A 1-molar solution of 16.7 g (0.1 mol) of lithium bistrimethylsilylamide in tetrahydrofuran is added at a temperature of 0°C to a solution of 13.4 g (0.1 mol) of methyl 2-methylmercaptopropionate in 30 ml of tetrahydrofuran. After the mixture has been stirred for 1 hour, 11.8 g (0.1 mol) of 5-chloropent-3-en-2-one are added dropwise in the course of 20 minutes in such a way that the temperature can be maintained at 0°C. After the mixture has been stirred for a further 30 minutes, ice-water is added, and the mixture is acidified with hydrochloric acid and extracted with diethyl acetate. The crude product is chromatographed with ethyl acetate/hexane 15/85. This gives methyl 2-(2-acetylcyclopropyl)-2-

methylsulfanylpropionate, $^1\text{H-NMR}$ (CDCl_3): 3.74, s, OCH_3 , 2.19 and 2.14, 2s, SCH_3 , 2.12. and 2.00, 2s, CH_3 , 2.2-1.9, 1H, 1.3, s, CH_3 , 1.3 to 1.0 ppm, 2H, as a 3:7 isomer mixture.

2.45 g (11 mmol) of the above product, which is enriched in the more polar isomer, is heated with 4.5 g (25 mmol) of 30% sodium ethoxide solution in a mixture of toluene/dimethylformamide 19:1 for 90 minutes at 115°C . The mixture is then taken up in ethyl acetate and washed with dilute hydrochloric acid at pH 3. The residue which has been isolated is purified on silica gel (mobile phase ethyl acetate/hexane 1:2). This gives the isomer I of 5-methyl-5-methylsulfanylbicyclo[4.1.0]heptane-2,4-dione, $^1\text{H-NMR}$ (CDCl_3): 3.48, d, CH, 3.00 d, CH, 2.21, m, CH, 1.94, m, CH, 1.86, s, CH_3 , 1.57, s, CH_3 , 1.44, m, CH, 1.04 ppm, m, CH.

The isomer II of 5-methyl-5-methylsulfanylbicyclo[4.1.0]heptane-2,4-dione, $^1\text{H-NMR}$ (CDCl_3): 3.78, d, CH, 3.14 d, CH, 2.22, m, CH, 1.93, m, CH, 2.08, s, CH_3 , 1.58, s, CH_3 , 1.6-1.4 ppm, 2H, is obtained from the product which is enriched in apolar isomers.

Example H21: 4-Methylcyclohept-4-ene-1,3-dione (compound H-F5):

1.0 g (5.4 mmol) of the 5-methyl-5-methylsulfanylbicyclo[4.1.0]heptane-2,4-dione isomers II is hydrogenated for 90 minutes under atmospheric pressure in 15 ml of methanol in the presence of 5 g Raney nickel. The mixture is concentrated and purified over silica gel (mobile phase ethyl acetate/hexane 1:1), and 4-methylcyclohept-4-ene-1,3-dione, $^1\text{H-NMR}$ (CDCl_3): 6.84, m, CH, 3.94, s, CH_2 , 2.77, m, CH_2 , 2.59, m, CH_2 , 1.88 ppm, s, CH_3 , is obtained as an oil.

Example H22: 2-Oxaspiro[4.5]decane-1,6,8-trione (compound H-E16):

A suspension of sodium hydride (55% in oil, 27.5 mmol) in 70 ml of anhydrous tetrahydrofuran is cooled to a temperature of -20°C , and a solution of 2-acylbutyrolactone (2.69 ml, 25 mmol) in 5 ml of tetrahydrofuran is subsequently added dropwise. After the reaction mixture has been stirred for 1 hour at this temperature, it is treated dropwise with a solution of methyl acrylate (4.5 ml, 50 mmol) in tetrahydrofuran at a temperature of -20°C . The reaction mixture is subsequently allowed to warm to room temperature and is stirred for 8 hours. The mixture is then poured into ice-water and acidified with 2 N hydrochloric acid to

pH 1. After extraction with ethyl acetate, drying over sodium sulfate and concentration in vacuo, the product is purified by flash chromatography (eluent: ethyl acetate/acetic acid 1:1). This gives 2-oxaspiro[4.5]decane-1,6,8-trione in the form of a white powder of melting point 145-148°C

Example H23: Spiro[2.5]octane-4,6-dione (compound H-C1):

3.4 g of sodium hydride (55% suspension in oil, 78.0 mmol) were introduced into 1 l of tert-butanol and the mixture was stirred for a few minutes at room temperature. Then, 2-acylbutyrolactone (100 g, 0.78 mol) is added and the reaction mixture is treated with methyl acrylate (67.2 g, 0.78 mmol) over a period of 3.5 hours at a temperature of approx. 30°C. The reaction mixture is taken up in diethyl ether and washed in succession with 75 ml of saturated NaH₂PO₄ solution, water and saturated sodium chloride solution, dried over sodium sulfate and concentrated. This gives 162 g of methyl 3-(3-acetyl-2-oxotetrahydrofuran-3-yl)propionate as colourless oil, which can be reacted further without purification.

2.0 g (9.3 mmol) of the above product and 2.1 g of sodium iodide (14.0 mmol) are dissolved in 10 ml of 1,3-dimethyl-2-imidazolidinone and the solution is heated for 3 hours at 210°C. After cooling, the reaction mixture is poured into dilute aqueous saturated NaH₂PO₄ solution and extracted with diethyl ether, dried over sodium sulfate and concentrated. This gives methyl 3-(1-acetylcyclopropyl)propionate as a colourless oil.

74.5 g of methyl 3-(1-acetylcyclopropyl)propionate (0.32 mol) are dissolved in 1 l of tetrahydrofuran and the solution is treated portionwise with 14.3 g of sodium hydride (55% suspension in oil, 0.32 mol) at room temperature. After 1 hour, the reaction mixture is diluted with 200 ml of dimethylformamide and warmed to 70°C. After 8 hours, tetrahydrofuran is removed in vacuo, and the residue is poured into 2 N hydrochloric acid and extracted with diethyl ether. The organic phase is dried over sodium sulfate and concentrated, and column chromatography over silica gel (methylene chloride:ethanol 9:1 as eluent) gives spiro[2.5]octane-4,6-dione in the form of white crystals of melting point 116-118°C.

Example H24: 2-(4,6-Dimethoxypyrimidin-2-ylsulfanylmethyl)-6-trifluoromethylnicotinic acid (compound A1088):

2.0 g (7.89 mmol) of methyl 2-chloromethyl-6-trifluoromethylnicotinate (prepared analogously to Heterocycles, 46, 129 (1997) by heating methyl 4-chloro-3-oxobutyrates and 4-amino-1,1,1-trifluorobut-3-en-2-one in toluene in the presence of trifluoroacetic acid) are introduced into 30 ml of acetonitrile and 1.63 g (11.83 mmol) of K_2CO_3 and reacted with 1.49 g (8.67 mmol) of 4,6-dimethoxypyrimidin-2-thiol at room temperature. After 4 hours, the mixture is poured into ethyl acetate/water, the ethyl acetate phase is removed, and the aqueous phase is reextracted with ethyl acetate. The combined ethyl acetate phases are dried over sodium sulfate, concentrated and purified by recrystallization from ethyl acetate/hexane. This gives methyl 2-(4,6-dimethoxypyrimidin-2-ylsulfanylmethyl)-6-trifluoromethylnicotinate in the form of white crystals of melting point 123-124°C.

Hydrolysis of the above esters (analogously to Example H1) gives, accordingly, 2-(4,6-dimethoxypyrimidin-2-ylsulfanylmethyl)-6-trifluoromethylnicotinic acid in the form of white crystals of melting point 157-158 °C. ^1H -NMR ($CDCl_3$): 3.96, s, 6H; 3.99, s, 3H; 5.03, s, 2H; 5.72, s, 1H; 7.66, d (J, 8.1 Hz), 1H; 8.40 ppm, d (J, 8.1 Hz), 1H.

Example H25: 2-Cyanomethyl-6-trifluoromethylnicotinic acid (compound A1103):

2.0 g (7.89 mmol) of methyl 2-chloromethyl-6-trifluoromethylnicotinate and 565 mg (8.67 mmol) of potassium cyanide are reacted in 20 ml of acetonitrile/water mixture (1:1) in the presence of 270 mg of tetrabutylammonium hydrogen sulfate. After the reaction has ended, the mixture is poured into water and extracted with ethyl acetate. After the ethyl acetate phase has been dried over sodium sulfate and concentrated, the crude product is purified by means of HPLC (ethyl acetate: hexane as eluent). This gives 610 mg (32% of theory) of methyl 2-cyanomethyl-6-trifluoromethylnicotinate in the form of an oil. ^1H -NMR ($CDCl_3$): 3.96, s, 3H; 4.38, s, 2H; 7.72, d (J, 8.1 Hz), 1H; 8.48 ppm, d (J, 8.1 Hz), 1H.

Hydrolysis analogous to the methods already mentioned above yields 2-cyanomethyl-6-trifluoromethylnicotinic acid in the form of yellow crystals of melting point 152-153 °C. ^1H -NMR ($CDCl_3$): 4.18, s, 2H; 7.72, d (J, 8.1 Hz), 1H; 8.52 ppm, d (J, 8.1 Hz), 1H.

Example H26: 3-(6-Difluoromethyl-2-methylpyridine-3-carbonyl)-2-hydroxy-1-methyl-4-oxocyclohex-2-enecarboxylate (compound A124-B34):

200 mg (0.516 mmol) of methyl 3-[6-(chlorodifluoromethyl)-2-methylpyridine-3-carbonyl]-2-hydroxy-1-methyl-4-oxocyclohex-2-enecarboxylate (compound A94-B34) is heated for 3 hours at a temperature of 120°C in 8 ml of toluene in the presence of 0.18 ml (0.62 mmol) tris(trimethylsilyl)silane. The viscous residue which remains is chromatographed on silica gel. The pale yellow viscous oil which is obtained by eluting with a mixture of toluene, ethyl alcohol, dioxane, triethylamine and water (100:40:20:20:5 by volume) is dissolved in dichloromethane and washed in succession with aqueous hydrochloric acid and water. Evaporation of the organic solution which has been dried with Na₂SO₄ yields 140 mg (73%) of pure methyl 3-(6-difluoromethyl-2-methylpyridine-3-carbonyl)-2-hydroxy-1-methyl-4-oxocyclohex-2-enecarboxylate in the form of a pale yellow oil. ¹H-NMR (CDCl₃): 1.28, s, 3H; 1.79-1.97, m, 1H; 2.39-2.46, m, 1H; 2.43, s, 3H; 2.69, dt (J, 19.2 and 4.8Hz), 1H; 2.82-2.92, m, 1H; 3.67, s, 3H; 6.55, t, (J, 55.5 Hz), 1H; 7.43, d (J, 7.8Hz), 1H; 7.49, d (J, 7.8Hz), 1H; 17.20 ppm, br s, 1H.

Example H27:3-Hydroxy-2-(2-methyl-1-oxy-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (compound A1210-B1):

16.1 g (0.054 mol) of 3-hydroxy-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (Example A2-B1) and 10.2 g (0.11 mol) of urea/hydrogen peroxide complex are dissolved in 150 ml of methylene chloride, and 22.1 ml (0.162 mol) of trifluoroacetic anhydride are subsequently added dropwise at a temperature of 25°C. After the reaction mixture has been stirred for 14 hours at a temperature of 25°C, it is poured into ethyl acetate and water, and the organic phase is washed twice with water, dried with sodium sulfate and concentrated. The residue is chromatographed on silica gel (eluent: ethyl acetate/methanol 9/1). This gives 2.4 g (14%) of the desired product in the form of white crystals (m.p. 117-119°C). ¹H-NMR (d₆-DMSO): 1.98, m, 2H; 2.30, s, 3H; 2.60, t (J, 7.25Hz), 4H; 7.32, d (J, 9.8Hz), 1H; 7.92 ppm, d (J, 9.8Hz), 1H.

Example H28: 2-(2-Methyl-6-trifluoromethylpyridine-3-carbonyl)-3-phenylsulfanylcyclohex-2-enone (compound A2-B1102):

4.0 g (0.0134 mol) of 3-hydroxy-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (compound A2-B1) are suspended in 25 ml of oxalyl chloride, and 0.1 ml of dimethylformamide is subsequently added dropwise. After the vigorous evolution of gas has ceased, the mixture is held for 1.5 hours at a bath temperature of 45°C and subsequently concentrated, and the residue (3-chloro-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-cyclohex-2-enone) is dissolved in 60 ml of methylene chloride. Triethylamine (3.7 ml, 0.0268 mol), dimethylaminopyridine (160 mg, 1.34 mmol) and 1.5 ml (0.0147 mol) of thiophenol are added at a temperature of 0-5°C. After 20 hours at a temperature of 22°C, the reaction mixture is concentrated and purified on silica gel (hexane/ethyl acetate 5:1). Trituration in hexane gives pure 2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-3-phenylsulfanylcyclohex-2-enone in the form of white crystals of melting point 124-125 °C. ¹H-NMR (CDCl₃): 1.99, m, 2H; 2.41, m 4H; 2.80, s, 3H; 2.60: 7.40-7.60, m, 6H; 7.80 ppm, d (J, 8.2Hz), 1H.

Example H29: 3-Benzenesulfonyl-2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)cyclohex-2-enone (compound A2-B1104):

0.8 g (0.00204 mol) of the 2-(2-methyl-6-trifluoromethylpyridine-3-carbonyl)-3-phenylsulfanylcyclohex-2-enone obtained above is dissolved in 30 ml of methylene chloride, and 1.39 ml of peracetic acid (39% in acetic acid, 0.00816 mol) are subsequently added dropwise at a temperature of 25°C. After 4 hours at 25°C, the reaction mixture is poured into ethyl acetate and water, the organic phase is washed with water, dried with sodium sulfate and concentrated, and the residue is triturated with a small amount of hexane and ethyl acetate. Filtration gives 0.72 g (84% of theory) of 3-benzenesulfonyl-2-(2-methyl-6-trifluoromethyl-pyridine-3-carbonyl)cyclohex-2-enone in the form of white crystals of melting point 165-167°C. ¹H-NMR (CDCl₃): 2.30, m, 2H; 2.55, t (J, 7Hz), 2H; 2.71, m, 2H; 3.05, s, 3H; : 7.40-7.80, m, 4H; 7.80-8.05 ppm, m, 3H.

Example H30: 6-Difluoromethyl-2-methylnicotinic acid (compound A124):

6.1g (0.026 mol) of methyl 6-(chlorodifluoromethyl)-2-methylnicotinate (prepared analogously to Heterocycles, 46, 129 (1997) by heating methyl 3-oxobutyrates and 4-amino-1-chloro-1,1-difluorobut-3-en-2-one in toluene in the presence of trifluoroacetic acid) is heated at a temperature of 120°C in the presence of 430 mg (0.26 mol) of tris(trimethylsilyl)silane in 150 ml of toluene. After 1.5 hours, the reaction mixture is concentrated and purified on silica gel (hexane/ethyl acetate 13:1). This gives 3.8 g (73% of theory) of methyl 6-difluoromethyl-2-methylnicotinate as colourless oil.

Hydrolysis of the above esters (analogously to Example H1) gives, accordingly, 6-difluoromethyl-2-methylnicotinic acid in the form of white crystals of melting point 135-136°C. ¹H-NMR (CDCl₃): 2.68, s, 3H; 6.583, t (J, 55.2Hz), 1H; 7.54, d (J, 8.1Hz), 1H; 7.54 ppm, d (J, 8.1Hz), 1H.

Example H31: 6-(Chlorodifluoromethyl)-2-methylnicotinic acid (compound A-94):

5.0 g (18.62 mmol) of methyl 2-methyl-6-trichloromethylnicotinate (prepared analogously to Heterocycles, 46, 129 (1997)) are cooled to a temperature of -40°C in a pressurized container, and 35 g (1.75 mol) of distilled hydrofluoric acid are subsequently passed in at this temperature. The mixture is heated for 10 hours at 200°C (pressure approx. 55 bar). After cooling, the pressure is released using a gas-washing system, HF is removed by suction, and the reaction mixture is poured into ethyl acetate/ice. The ethyl acetate phase is separated off, and the aqueous phase is reextracted using ethyl acetate. The combined ethyl acetate phases are washed with water, dried over sodium sulfate and concentrated, and the residue is triturated with a small amount of hexane and ethyl acetate. Filtration gives 2.2 g (53% of theory) of 6-chlorodifluoromethyl-2-methylnicotinic acid as pale green crystals of melting point 134-135°C.

¹H-NMR (CDCl₃): 2.987, s, 3H; 7.64, d (J, 8.1Hz), 1H; 8.513 ppm, d (J, 8.1Hz), 1H.

Example H32: 2-[2-(4,6-Dimethoxypyrimidine-2-sulfonylmethyl)-6-trifluoromethylpyridine-3-carbonyl]-3-hydroxycyclohex-2-enone (compound A1090-B1):

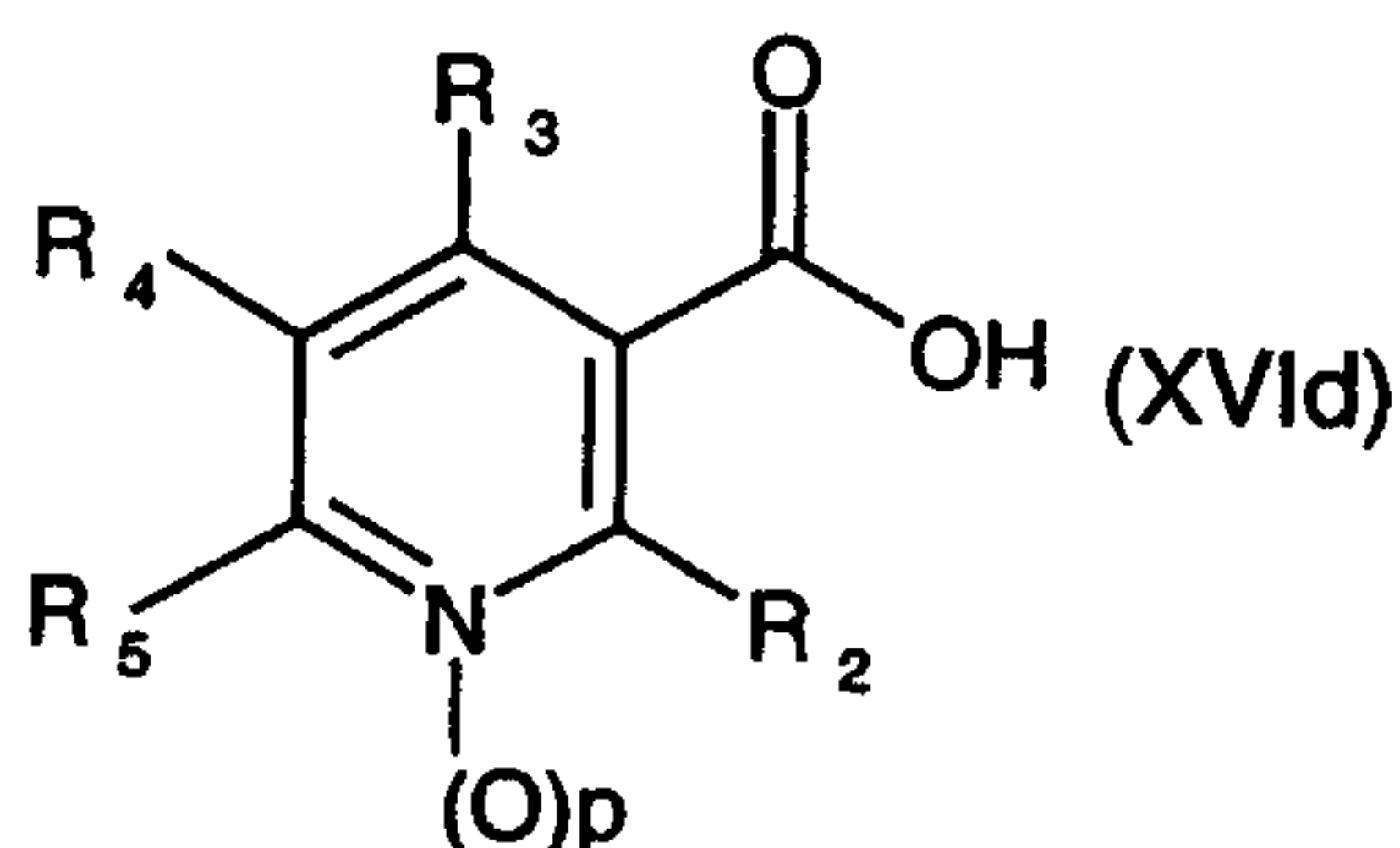
100 mg of 2-[2-(4,6-dimethoxypyrimidin-2-ylsulfanylmethyl)-6-trifluoromethylpyridine-3-carbonyl]-3-hydroxycyclohex-2-enone (compound A1088-B1) are dissolved in methylene chloride, and 0.3 ml of peracetic acid (39% in acetic acid) is subsequently added dropwise at a temperature of 25°C. After 15 hours at 25°C, the reaction mixture is poured into ethyl acetate and water, and the organic phase is washed with water, dried with sodium sulfate and concentrated. This gives 95 mg of 2-[2-(4,6-dimethoxypyrimidine-2-sulfonylmethyl)-6-

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trifluoromethylpyridine-3-carbonyl]-3-hydroxycyclohex-2-enone in the form of a resin. ¹H-NMR (CDCl₃): 3.79, s, 6H; 3.91, s, 3H; 4.99, s, 2H; 6.09, s, 1H; 7.52, d (J, 9Hz), 1H; 7.68 ppm, d (J, 9Hz), 1H.

In the tables which follow, Ph is the phenyl group and CC an ethyne group.

Table 1: Compounds of the formula XVIId:



Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1	H	H	H	CF ₃	0
A2	CH ₃	H	H	CF ₃	0
A3	CH ₃ CH ₂	H	H	CF ₃	0
A4	(CH ₃) ₂ CH	H	H	CF ₃	0
A5	(CH ₃) ₃ C	H	H	CF ₃	0
A6	cyclopropyl	H	H	CF ₃	0
A7	CH ₃ (CH ₂) ₂	H	H	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A8	CH ₃ OCH ₂	H	H	CF ₃	0
A9	CH ₃ O(CH ₂) ₂	H	H	CF ₃	0
A10	Ph	H	H	CF ₃	0
A11	PhO	H	H	CF ₃	0
A12	PhS	H	H	CF ₃	0
A13	PhSO	H	H	CF ₃	0
A14	PhSO ₂	H	H	CF ₃	0
A15	CH ₃ S	H	H	CF ₃	0
A16	CH ₃ SO	H	H	CF ₃	0
A17	CF ₃	H	H	CF ₃	0
A18	F ₂ CH	H	H	CF ₃	0
A19	HCC	H	H	CF ₃	0
A20	CH ₃ CC	H	H	CF ₃	0
A21	CH ₂ =CH	H	H	CF ₃	0
A22	CH ₂ =CHCH ₂	H	H	CF ₃	0
A23	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃	0
A24	(CH ₃) ₂ N	H	H	CF ₃	0
A25	(CH ₃) ₂ NSO ₂	H	H	CF ₃	0
A26	ClCH ₂	H	H	CF ₃	0
A27	CH ₃ SCH ₂	H	H	CF ₃	0
A28	CH ₃ SOCH ₂	H	H	CF ₃	0
A29	CH ₃ SO ₂ CH ₂	H	H	CF ₃	0
A30	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₃	0
A31	CH ₃	CF ₃	H	CH ₃	0
A32	CH ₃	CH ₃	H	CF ₃	0
A33	H	H	H	CF ₃ CF ₂	0
A34	CH ₃	H	H	CF ₃ CF ₂	0
A35	CH ₃ CH ₂	H	H	CF ₃ CF ₂	0
A36	cyclopropyl	H	H	CF ₃ CF ₂	0
A37	(CH ₃) ₃ C	H	H	CF ₃ CF ₂	0
A38	(CH ₃) ₂ CH	H	H	CF ₃ CF ₂	0
A39	CH ₃ (CH ₂) ₂	H	H	CF ₃ CF ₂	0
A40	CH ₃ OCH ₂	H	H	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A41	CH ₃ O(CH ₂) ₂	H	H	CF ₃ CF ₂	0
A42	Ph	H	H	CF ₃ CF ₂	0
A43	PhO	H	H	CF ₃ CF ₂	0
A44	PhS	H	H	CF ₃ CF ₂	0
A45	PhSO	H	H	CF ₃ CF ₂	0
A46	PhSO ₂	H	H	CF ₃ CF ₂	0
A47	CH ₃ S	H	H	CF ₃ CF ₂	0
A48	CH ₃ SO	H	H	CF ₃ CF ₂	0
A49	CF ₃	H	H	CF ₃ CF ₂	0
A50	F ₂ CH	H	H	CF ₃ CF ₂	0
A51	HCC	H	H	CF ₃ CF ₂	0
A52	CH ₃ CC	H	H	CF ₃ CF ₂	0
A53	CH ₂ =CH	H	H	CF ₃ CF ₂	0
A54	CH ₂ =CHCH ₂	H	H	CF ₃ CF ₂	0
A55	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃ CF ₂	0
A56	(CH ₃) ₂ N	H	H	CF ₃ CF ₂	0
A57	(CH ₃) ₂ NSO ₂	H	H	CF ₃ CF ₂	0
A58	ClCH ₂	H	H	CF ₃ CF ₂	0
A59	CH ₃ SCH ₂	H	H	CF ₃ CF ₂	0
A60	CH ₃ SOCH ₂	H	H	CF ₃ CF ₂	0
A61	CH ₃ SO ₂ CH ₂	H	H	CF ₃ CF ₂	0
A62	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₃ CF ₂	0
A63	H	H	H	CF ₃ CF ₂ CF ₂	0
A64	CH ₃	H	H	CF ₃ CF ₂ CF ₂	0
A65	CH ₃ CH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A66	cyclopropyl	H	H	CF ₃ CF ₂ CF ₂	0
A67	(CH ₃) ₃ C	H	H	CF ₃ CF ₂ CF ₂	0
A68	(CH ₃) ₂ CH	H	H	CF ₃ CF ₂ CF ₂	0
A69	CH ₃ (CH ₂) ₂	H	H	CF ₃ CF ₂ CF ₂	0
A70	CH ₃ OCH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A71	CH ₃ O(CH ₂) ₂	H	H	CF ₃ CF ₂ CF ₂	0
A72	Ph	H	H	CF ₃ CF ₂ CF ₂	0
A73	PhO	H	H	CF ₃ CF ₂ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A74	PhS	H	H	CF ₃ CF ₂ CF ₂	0
A75	PhSO	H	H	CF ₃ CF ₂ CF ₂	0
A76	PhSO ₂	H	H	CF ₃ CF ₂ CF ₂	0
A77	CH ₃ S	H	H	CF ₃ CF ₂ CF ₂	0
A78	CH ₃ SO	H	H	CF ₃ CF ₂ CF ₂	0
A79	CF ₃	H	H	CF ₃ CF ₂ CF ₂	0
A80	F ₂ CH	H	H	CF ₃ CF ₂ CF ₂	0
A81	HCC	H	H	CF ₃ CF ₂ CF ₂	0
A82	CH ₃ CC	H	H	CF ₃ CF ₂ CF ₂	0
A83	CH ₂ =CH	H	H	CF ₃ CF ₂ CF ₂	0
A84	CH ₂ =CHCH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A85	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃ CF ₂ CF ₂	0
A86	(CH ₃) ₂ N	H	H	CF ₃ CF ₂ CF ₂	0
A87	(CH ₃) ₂ NSO ₂	H	H	CF ₃ CF ₂ CF ₂	0
A88	ClCH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A89	CH ₃ SCH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A90	CH ₃ SOCH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A91	CH ₃ SO ₂ CH ₂	H	H	CF ₃ CF ₂ CF ₂	0
A92	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₃ CF ₂ CF ₂	0
A93	H	H	H	CF ₂ Cl	0
A94	CH ₃	H	H	CF ₂ Cl	0
A95	CH ₃ CH ₂	H	H	CF ₂ Cl	0
A96	cyclopropyl	H	H	CF ₂ Cl	0
A97	(CH ₃) ₃ C	H	H	CF ₂ Cl	0
A98	(CH ₃) ₂ CH	H	H	CF ₂ Cl	0
A99	CH ₃ (CH ₂) ₂	H	H	CF ₂ Cl	0
A100	CH ₃ OCH ₂	H	H	CF ₂ Cl	0
A101	CH ₃ O(CH ₂) ₂	H	H	CF ₂ Cl	0
A102	Ph	H	H	CF ₂ Cl	0
A103	PhO	H	H	CF ₂ Cl	0
A104	PhS	H	H	CF ₂ Cl	0
A105	PhSO	H	H	CF ₂ Cl	0
A106	PhSO ₂	H	H	CF ₂ Cl	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A107	CH ₃ S	H	H	CF ₂ Cl	0
A108	CH ₃ SO	H	H	CF ₂ Cl	0
A109	CF ₃	H	H	CF ₂ Cl	0
A110	F ₂ CH	H	H	CF ₂ Cl	0
A111	HCC	H	H	CF ₂ Cl	0
A112	CH ₃ CC	H	H	CF ₂ Cl	0
A113	CH ₂ =CH	H	H	CF ₂ Cl	0
A114	CH ₂ =CHCH ₂	H	H	CF ₂ Cl	0
A115	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₂ Cl	0
A116	(CH ₃) ₂ N	H	H	CF ₂ Cl	0
A117	(CH ₃) ₂ NSO ₂	H	H	CF ₂ Cl	0
A118	ClCH ₂	H	H	CF ₂ Cl	0
A119	CH ₃ SCH ₂	H	H	CF ₂ Cl	0
A120	CH ₃ SOCH ₂	H	H	CF ₂ Cl	0
A121	CH ₃ SO ₂ CH ₂	H	H	CF ₂ Cl	0
A122	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₂ Cl	0
A123	H	H	H	CHF ₂	0
A124	CH ₃	H	H	CHF ₂	0
A125	CH ₃ CH ₂	H	H	CHF ₂	0
A126	cyclopropyl	H	H	CHF ₂	0
A127	(CH ₃) ₃ C	H	H	CHF ₂	0
A128	(CH ₃) ₂ CH	H	H	CHF ₂	0
A129	CH ₃ (CH ₂) ₂	H	H	CHF ₂	0
A130	CH ₃ OCH ₂	H	H	CHF ₂	0
A131	CH ₃ O(CH ₂) ₂	H	H	CHF ₂	0
A132	Ph	H	H	CHF ₂	0
A133	PhO	H	H	CHF ₂	0
A134	PhS	H	H	CHF ₂	0
A135	PhSO	H	H	CHF ₂	0
A136	PhSO ₂	H	H	CHF ₂	0
A137	CH ₃ S	H	H	CHF ₂	0
A138	CH ₃ SO	H	H	CHF ₂	0
A139	CF ₃	H	H	CHF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A140	F ₂ CH	H	H	CHF ₂	0
A141	HCC	H	H	CHF ₂	0
A142	CH ₃ CC	H	H	CHF ₂	0
A143	CH ₂ =CH	H	H	CHF ₂	0
A144	CH ₂ =CHCH ₂	H	H	CHF ₂	0
A145	CH ₃ SO ₂ N(CH ₃)	H	H	CHF ₂	0
A146	(CH ₃) ₂ N	H	H	CHF ₂	0
A147	(CH ₃) ₂ NSO ₂	H	H	CHF ₂	0
A148	ClCH ₂	H	H	CHF ₂	0
A149	CH ₃ SCH ₂	H	H	CHF ₂	0
A150	CH ₃ SOCH ₂	H	H	CHF ₂	0
A151	CH ₃ SO ₂ CH ₂	H	H	CHF ₂	0
A152	[1.2.4]-triazol-1-ylmethyl	H	H	CHF ₂	0
A153	H	H	H	CCl ₃	0
A154	CH ₃	H	H	CCl ₃	0
A155	CH ₃ CH ₂	H	H	CCl ₃	0
A156	cyclopropyl	H	H	CCl ₃	0
A157	(CH ₃) ₃ C	H	H	CCl ₃	0
A158	(CH ₃) ₂ CH	H	H	CCl ₃	0
A159	CH ₃ (CH ₂) ₂	H	H	CCl ₃	0
A160	CH ₃ OCH ₂	H	H	CCl ₃	0
A161	CH ₃ O(CH ₂) ₂	H	H	CCl ₃	0
A162	Ph	H	H	CCl ₃	0
A163	PhO	H	H	CCl ₃	0
A164	PhS	H	H	CCl ₃	0
A165	PhSO	H	H	CCl ₃	0
A166	PhSO ₂	H	H	CCl ₃	0
A167	CH ₃ S	H	H	CCl ₃	0
A168	CH ₃ SO	H	H	CCl ₃	0
A169	CF ₃	H	H	CCl ₃	0
A170	F ₂ CH	H	H	CCl ₃	0
A171	HCC	H	H	CCl ₃	0
A172	CH ₃ CC	H	H	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A173	CH ₂ =CH	H	H	CCl ₃	0
A174	CH ₂ =CHCH ₂	H	H	CCl ₃	0
A175	CH ₃ SO ₂ N(CH ₃)	H	H	CCl ₃	0
A176	(CH ₃) ₂ N	H	H	CCl ₃	0
A177	(CH ₃) ₂ NSO ₂	H	H	CCl ₃	0
A178	ClCH ₂	H	H	CCl ₃	0
A179	CH ₃ SCH ₂	H	H	CCl ₃	0
A180	CH ₃ SOCH ₂	H	H	CCl ₃	0
A181	CH ₃ SO ₂ CH ₂	H	H	CCl ₃	0
A182	[1.2.4]-triazol-1-ylmethyl	H	H	CCl ₃	0
A183	H	H	CH ₃	CF ₃	0
A184	CH ₃	H	CH ₃	CF ₃	0
A185	CH ₃ CH ₂	H	CH ₃	CF ₃	0
A186	cyclopropyl	H	CH ₃	CF ₃	0
A187	(CH ₃) ₃ C	H	CH ₃	CF ₃	0
A188	(CH ₃) ₂ CH	H	CH ₃	CF ₃	0
A189	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃	0
A190	CH ₃ OCH ₂	H	CH ₃	CF ₃	0
A191	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃	0
A192	Ph	H	CH ₃	CF ₃	0
A193	PhO	H	CH ₃	CF ₃	0
A194	PhS	H	CH ₃	CF ₃	0
A195	PhSO	H	CH ₃	CF ₃	0
A196	PhSO ₂	H	CH ₃	CF ₃	0
A197	CH ₃ S	H	CH ₃	CF ₃	0
A198	CH ₃ SO	H	CH ₃	CF ₃	0
A199	CF ₃	H	CH ₃	CF ₃	0
A200	F ₂ CH	H	CH ₃	CF ₃	0
A201	HCC	H	CH ₃	CF ₃	0
A202	CH ₃ CC	H	CH ₃	CF ₃	0
A203	CH ₂ =CH	H	CH ₃	CF ₃	0
A204	CH ₂ =CHCH ₂	H	CH ₃	CF ₃	0
A205	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A206	(CH ₃) ₂ N	H	CH ₃	CF ₃	0
A207	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃	0
A208	ClCH ₂	H	CH ₃	CF ₃	0
A209	CH ₃ SCH ₂	H	CH ₃	CF ₃	0
A210	CH ₃ SOCH ₂	H	CH ₃	CF ₃	0
A211	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃	0
A212	H	H	CH ₃	CF ₃ CF ₂	0
A213	CH ₃	H	CH ₃	CF ₃ CF ₂	0
A214	CH ₃ CH ₂	H	CH ₃	CF ₃ CF ₂	0
A215	cyclopropyl	H	CH ₃	CF ₃ CF ₂	0
A216	(CH ₃) ₃ C	H	CH ₃	CF ₃ CF ₂	0
A217	(CH ₃) ₂ CH	H	CH ₃	CF ₃ CF ₂	0
A218	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃ CF ₂	0
A219	CH ₃ OCH ₂	H	CH ₃	CF ₃ CF ₂	0
A220	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃ CF ₂	0
A221	Ph	H	CH ₃	CF ₃ CF ₂	0
A222	PhO	H	CH ₃	CF ₃ CF ₂	0
A223	PhS	H	CH ₃	CF ₃ CF ₂	0
A224	PhSO	H	CH ₃	CF ₃ CF ₂	0
A225	PhSO ₂	H	CH ₃	CF ₃ CF ₂	0
A226	CH ₃ S	H	CH ₃	CF ₃ CF ₂	0
A227	CH ₃ SO	H	CH ₃	CF ₃ CF ₂	0
A228	CF ₃	H	CH ₃	CF ₃ CF ₂	0
A229	F ₂ CH	H	CH ₃	CF ₃ CF ₂	0
A230	HCC	H	CH ₃	CF ₃ CF ₂	0
A231	CH ₃ CC	H	CH ₃	CF ₃ CF ₂	0
A232	CH ₂ =CH	H	CH ₃	CF ₃ CF ₂	0
A233	CH ₂ =CHCH ₂	H	CH ₃	CF ₃ CF ₂	0
A234	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃ CF ₂	0
A235	(CH ₃) ₂ N	H	CH ₃	CF ₃ CF ₂	0
A236	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃ CF ₂	0
A237	ClCH ₂	H	CH ₃	CF ₃ CF ₂	0
A238	CH ₃ SCH ₂	H	CH ₃	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A239	CH ₃ SOCH ₂	H	CH ₃	CF ₃ CF ₂	0
A240	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃ CF ₂	0
A241	H	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A242	CH ₃	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A243	CH ₃ CH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A244	cyclopropyl	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A245	(CH ₃) ₃ C	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A246	(CH ₃) ₂ CH	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A247	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A248	CH ₃ OCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A249	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A250	Ph	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A251	PhO	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A252	PhS	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A253	PhSO	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A254	PhSO ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A255	CH ₃ S	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A256	CH ₃ SO	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A257	CF ₃	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A258	F ₂ CH	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A259	HCC	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A260	CH ₃ CC	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A261	CH ₂ =CH	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A262	CH ₂ =CHCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A263	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A264	(CH ₃) ₂ N	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A265	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A266	ClCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A267	CH ₃ SCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A268	CH ₃ SOCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A269	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	0
A270	H	H	CH ₃	CF ₂ Cl	0
A271	CH ₃	H	CH ₃	CF ₂ Cl	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A272	CH ₃ CH ₂	H	CH ₃	CF ₂ Cl	0
A273	cyclopropyl	H	CH ₃	CF ₂ Cl	0
A274	(CH ₃) ₃ C	H	CH ₃	CF ₂ Cl	0
A275	(CH ₃) ₂ CH	H	CH ₃	CF ₂ Cl	0
A276	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₂ Cl	0
A277	CH ₃ OCH ₂	H	CH ₃	CF ₂ Cl	0
A278	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₂ Cl	0
A279	Ph	H	CH ₃	CF ₂ Cl	0
A280	PhO	H	CH ₃	CF ₂ Cl	0
A281	PhS	H	CH ₃	CF ₂ Cl	0
A282	PhSO	H	CH ₃	CF ₂ Cl	0
A283	PhSO ₂	H	CH ₃	CF ₂ Cl	0
A284	CH ₃ S	H	CH ₃	CF ₂ Cl	0
A285	CH ₃ SO	H	CH ₃	CF ₂ Cl	0
A286	CF ₃	H	CH ₃	CF ₂ Cl	0
A287	F ₂ CH	H	CH ₃	CF ₂ Cl	0
A288	HCC	H	CH ₃	CF ₂ Cl	0
A289	CH ₃ CC	H	CH ₃	CF ₂ Cl	0
A290	CH ₂ =CH	H	CH ₃	CF ₂ Cl	0
A291	CH ₂ =CHCH ₂	H	CH ₃	CF ₂ Cl	0
A292	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₂ Cl	0
A293	(CH ₃) ₂ N	H	CH ₃	CF ₂ Cl	0
A294	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₂ Cl	0
A295	ClCH ₂	H	CH ₃	CF ₂ Cl	0
A296	CH ₃ SCH ₂	H	CH ₃	CF ₂ Cl	0
A297	CH ₃ SOCH ₂	H	CH ₃	CF ₂ Cl	0
A298	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₂ Cl	0
A299	H	H	CH ₃	CHF ₂	0
A300	CH ₃	H	CH ₃	CHF ₂	0
A301	CH ₃ CH ₂	H	CH ₃	CHF ₂	0
A302	cyclopropyl	H	CH ₃	CHF ₂	0
A303	(CH ₃) ₃ C	H	CH ₃	CHF ₂	0
A304	(CH ₃) ₂ CH	H	CH ₃	CHF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A305	CH ₃ (CH ₂) ₂	H	CH ₃	CHF ₂	0
A306	CH ₃ OCH ₂	H	CH ₃	CHF ₂	0
A307	CH ₃ O(CH ₂) ₂	H	CH ₃	CHF ₂	0
A308	Ph	H	CH ₃	CHF ₂	0
A309	PhO	H	CH ₃	CHF ₂	0
A310	PhS	H	CH ₃	CHF ₂	0
A311	PhSO	H	CH ₃	CHF ₂	0
A312	PhSO ₂	H	CH ₃	CHF ₂	0
A313	CH ₃ S	H	CH ₃	CHF ₂	0
A314	CH ₃ SO	H	CH ₃	CHF ₂	0
A315	CF ₃	H	CH ₃	CHF ₂	0
A316	F ₂ CH	H	CH ₃	CHF ₂	0
A317	HCC	H	CH ₃	CHF ₂	0
A318	CH ₃ CC	H	CH ₃	CHF ₂	0
A319	CH ₂ =CH	H	CH ₃	CHF ₂	0
A320	CH ₂ =CHCH ₂	H	CH ₃	CHF ₂	0
A321	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CHF ₂	0
A322	(CH ₃) ₂ N	H	CH ₃	CHF ₂	0
A323	(CH ₃) ₂ NSO ₂	H	CH ₃	CHF ₂	0
A324	ClCH ₂	H	CH ₃	CHF ₂	0
A325	CH ₃ SCH ₂	H	CH ₃	CHF ₂	0
A326	CH ₃ SOCH ₂	H	CH ₃	CHF ₂	0
A327	CH ₃ SO ₂ CH ₂	H	CH ₃	CHF ₂	0
A328	H	H	CH ₃	CCl ₃	0
A329	CH ₃	H	CH ₃	CCl ₃	0
A330	CH ₃ CH ₂	H	CH ₃	CCl ₃	0
A331	(CH ₃) ₃ C	H	CH ₃	CCl ₃	0
A332	(CH ₃) ₂ CH	H	CH ₃	CCl ₃	0
A333	cyclopropyl	H	CH ₃	CCl ₃	0
A334	CH ₃ (CH ₂) ₂	H	CH ₃	CCl ₃	0
A335	CH ₃ OCH ₂	H	CH ₃	CCl ₃	0
A336	CH ₃ O(CH ₂) ₂	H	CH ₃	CCl ₃	0
A337	Ph	H	CH ₃	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A338	PhO	H	CH ₃	CCl ₃	0
A339	PhS	H	CH ₃	CCl ₃	0
A340	PhSO	H	CH ₃	CCl ₃	0
A341	PhSO ₂	H	CH ₃	CCl ₃	0
A342	CH ₃ S	H	CH ₃	CCl ₃	0
A343	CH ₃ SO	H	CH ₃	CCl ₃	0
A344	CF ₃	H	CH ₃	CCl ₃	0
A345	F ₂ CH	H	CH ₃	CCl ₃	0
A346	HCC	H	CH ₃	CCl ₃	0
A347	CH ₃ CC	H	CH ₃	CCl ₃	0
A348	CH ₂ =CH	H	CH ₃	CCl ₃	0
A349	CH ₂ =CHCH ₂	H	CH ₃	CCl ₃	0
A350	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CCl ₃	0
A351	(CH ₃) ₂ N	H	CH ₃	CCl ₃	0
A352	(CH ₃) ₂ NSO ₂	H	CH ₃	CCl ₃	0
A353	ClCH ₂	H	CH ₃	CCl ₃	0
A354	CH ₃ SCH ₂	H	CH ₃	CCl ₃	0
A355	CH ₃ SOCH ₂	H	CH ₃	CCl ₃	0
A356	CH ₃ SO ₂ CH ₂	H	CH ₃	CCl ₃	0
A357	H	H	Ph	CF ₃	0
A358	CH ₃	H	Ph	CF ₃	0
A359	CH ₃ CH ₂	H	Ph	CF ₃	0
A360	cyclopropyl	H	Ph	CF ₃	0
A361	(CH ₃) ₃ C	H	Ph	CF ₃	0
A362	(CH ₃) ₂ CH	H	Ph	CF ₃	0
A363	CH ₃ (CH ₂) ₂	H	Ph	CF ₃	0
A364	CH ₃ OCH ₂	H	Ph	CF ₃	0
A365	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃	0
A366	Ph	H	Ph	CF ₃	0
A367	PhO	H	Ph	CF ₃	0
A368	PhS	H	Ph	CF ₃	0
A369	PhSO	H	Ph	CF ₃	0
A370	PhSO ₂	H	Ph	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A371	CH ₃ S	H	Ph	CF ₃	0
A372	CH ₃ SO	H	Ph	CF ₃	0
A373	CF ₃	H	Ph	CF ₃	0
A374	F ₂ CH	H	Ph	CF ₃	0
A375	HCC	H	Ph	CF ₃	0
A376	CH ₃ CC	H	Ph	CF ₃	0
A377	CH ₂ =CH	H	Ph	CF ₃	0
A378	CH ₂ =CHCH ₂	H	Ph	CF ₃	0
A379	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃	0
A380	(CH ₃) ₂ N	H	Ph	CF ₃	0
A381	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃	0
A382	ClCH ₂	H	Ph	CF ₃	0
A383	CH ₃ SCH ₂	H	Ph	CF ₃	0
A384	CH ₃ SOCH ₂	H	Ph	CF ₃	0
A385	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃	0
A386	H	H	Ph	CF ₃ CF ₂	0
A387	CH ₃	H	Ph	CF ₃ CF ₂	0
A388	CH ₃ CH ₂	H	Ph	CF ₃ CF ₂	0
A389	cyclopropyl	H	Ph	CF ₃ CF ₂	0
A390	(CH ₃) ₃ C	H	Ph	CF ₃ CF ₂	0
A391	(CH ₃) ₂ CH	H	Ph	CF ₃ CF ₂	0
A392	CH ₃ (CH ₂) ₂	H	Ph	CF ₃ CF ₂	0
A393	CH ₃ OCH ₂	H	Ph	CF ₃ CF ₂	0
A394	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃ CF ₂	0
A395	Ph	H	Ph	CF ₃ CF ₂	0
A396	PhO	H	Ph	CF ₃ CF ₂	0
A397	PhS	H	Ph	CF ₃ CF ₂	0
A398	PhSO	H	Ph	CF ₃ CF ₂	0
A399	PhSO ₂	H	Ph	CF ₃ CF ₂	0
A400	CH ₃ S	H	Ph	CF ₃ CF ₂	0
A401	CH ₃ SO	H	Ph	CF ₃ CF ₂	0
A402	CF ₃	H	Ph	CF ₃ CF ₂	0
A403	F ₂ CH	H	Ph	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A404	HCC	H	Ph	CF ₃ CF ₂	0
A405	CH ₃ CC	H	Ph	CF ₃ CF ₂	0
A406	CH ₂ =CH	H	Ph	CF ₃ CF ₂	0
A407	CH ₂ =CHCH ₂	H	Ph	CF ₃ CF ₂	0
A408	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃ CF ₂	0
A409	(CH ₃) ₂ N	H	Ph	CF ₃ CF ₂	0
A410	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃ CF ₂	0
A411	ClCH ₂	H	Ph	CF ₃ CF ₂	0
A412	CH ₃ SCH ₂	H	Ph	CF ₃ CF ₂	0
A413	CH ₃ SOCH ₂	H	Ph	CF ₃ CF ₂	0
A414	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃ CF ₂	0
A415	H	H	Ph	CF ₃ CF ₂ CF ₂	0
A416	CH ₃	H	Ph	CF ₃ CF ₂ CF ₂	0
A417	CH ₃ CH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A418	cyclopropyl	H	Ph	CF ₃ CF ₂ CF ₂	0
A419	(CH ₃) ₃ C	H	Ph	CF ₃ CF ₂ CF ₂	0
A420	(CH ₃) ₂ CH	H	Ph	CF ₃ CF ₂ CF ₂	0
A421	CH ₃ (CH ₂) ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A422	CH ₃ OCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A423	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A424	Ph	H	Ph	CF ₃ CF ₂ CF ₂	0
A425	PhO	H	Ph	CF ₃ CF ₂ CF ₂	0
A426	PhS	H	Ph	CF ₃ CF ₂ CF ₂	0
A427	PhSO	H	Ph	CF ₃ CF ₂ CF ₂	0
A428	PhSO ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A429	CH ₃ S	H	Ph	CF ₃ CF ₂ CF ₂	0
A430	CH ₃ SO	H	Ph	CF ₃ CF ₂ CF ₂	0
A431	CF ₃	H	Ph	CF ₃ CF ₂ CF ₂	0
A432	F ₂ CH	H	Ph	CF ₃ CF ₂ CF ₂	0
A433	HCC	H	Ph	CF ₃ CF ₂ CF ₂	0
A434	CH ₃ CC	H	Ph	CF ₃ CF ₂ CF ₂	0
A435	CH ₂ =CH	H	Ph	CF ₃ CF ₂ CF ₂	0
A436	CH ₂ =CHCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A437	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃ CF ₂ CF ₂	0
A438	(CH ₃) ₂ N	H	Ph	CF ₃ CF ₂ CF ₂	0
A439	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A440	ClCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A441	CH ₃ SCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A442	CH ₃ SOCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A443	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃ CF ₂ CF ₂	0
A444	H	H	Ph	CF ₂ Cl	0
A445	CH ₃	H	Ph	CF ₂ Cl	0
A446	CH ₃ CH ₂	H	Ph	CF ₂ Cl	0
A447	cyclopropyl	H	Ph	CF ₂ Cl	0
A448	(CH ₃) ₃ C	H	Ph	CF ₂ Cl	0
A449	(CH ₃) ₂ CH	H	Ph	CF ₂ Cl	0
A450	CH ₃ (CH ₂) ₂	H	Ph	CF ₂ Cl	0
A451	CH ₃ OCH ₂	H	Ph	CF ₂ Cl	0
A452	CH ₃ O(CH ₂) ₂	H	Ph	CF ₂ Cl	0
A453	Ph	H	Ph	CF ₂ Cl	0
A454	PhO	H	Ph	CF ₂ Cl	0
A455	PhS	H	Ph	CF ₂ Cl	0
A456	PhSO	H	Ph	CF ₂ Cl	0
A457	PhSO ₂	H	Ph	CF ₂ Cl	0
A458	CH ₃ S	H	Ph	CF ₂ Cl	0
A459	CH ₃ SO	H	Ph	CF ₂ Cl	0
A460	CF ₃	H	Ph	CF ₂ Cl	0
A461	F ₂ CH	H	Ph	CF ₂ Cl	0
A462	HCC	H	Ph	CF ₂ Cl	0
A463	CH ₃ CC	H	Ph	CF ₂ Cl	0
A464	CH ₂ =CH	H	Ph	CF ₂ Cl	0
A465	CH ₂ =CHCH ₂	H	Ph	CF ₂ Cl	0
A466	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₂ Cl	0
A467	(CH ₃) ₂ N	H	Ph	CF ₂ Cl	0
A468	(CH ₃) ₂ NSO ₂	H	Ph	CF ₂ Cl	0
A469	ClCH ₂	H	Ph	CF ₂ Cl	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A470	CH ₃ SCH ₂	H	Ph	CF ₂ Cl	0
A471	CH ₃ SOCH ₂	H	Ph	CF ₂ Cl	0
A472	CH ₃ SO ₂ CH ₂	H	Ph	CF ₂ Cl	0
A473	H	H	Ph	CHF ₂	0
A474	CH ₃	H	Ph	CHF ₂	0
A475	CH ₃ CH ₂	H	Ph	CHF ₂	0
A476	cyclopropyl	H	Ph	CHF ₂	0
A477	(CH ₃) ₃ C	H	Ph	CHF ₂	0
A478	(CH ₃) ₂ CH	H	Ph	CHF ₂	0
A479	CH ₃ (CH ₂) ₂	H	Ph	CHF ₂	0
A480	CH ₃ OCH ₂	H	Ph	CHF ₂	0
A481	CH ₃ O(CH ₂) ₂	H	Ph	CHF ₂	0
A482	Ph	H	Ph	CHF ₂	0
A483	PhO	H	Ph	CHF ₂	0
A484	PhS	H	Ph	CHF ₂	0
A485	PhSO	H	Ph	CHF ₂	0
A486	PhSO ₂	H	Ph	CHF ₂	0
A487	CH ₃ S	H	Ph	CHF ₂	0
A488	CH ₃ SO	H	Ph	CHF ₂	0
A489	CF ₃	H	Ph	CHF ₂	0
A490	F ₂ CH	H	Ph	CHF ₂	0
A491	HCC	H	Ph	CHF ₂	0
A492	CH ₃ CC	H	Ph	CHF ₂	0
A493	CH ₂ =CH	H	Ph	CHF ₂	0
A494	CH ₂ =CHCH ₂	H	Ph	CHF ₂	0
A495	CH ₃ SO ₂ N(CH ₃)	H	Ph	CHF ₂	0
A496	(CH ₃) ₂ N	H	Ph	CHF ₂	0
A497	(CH ₃) ₂ NSO ₂	H	Ph	CHF ₂	0
A498	ClCH ₂	H	Ph	CHF ₂	0
A499	CH ₃ SCH ₂	H	Ph	CHF ₂	0
A500	CH ₃ SOCH ₂	H	Ph	CHF ₂	0
A501	CH ₃ SO ₂ CH ₂	H	Ph	CHF ₂	0
A502	H	H	Ph	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A503	CH ₃	H	Ph	CCl ₃	0
A504	CH ₃ CH ₂	H	Ph	CCl ₃	0
A505	cyclopropyl	H	Ph	CCl ₃	0
A506	(CH ₃) ₃ C	H	Ph	CCl ₃	0
A507	(CH ₃) ₂ CH	H	Ph	CCl ₃	0
A508	CH ₃ (CH ₂) ₂	H	Ph	CCl ₃	0
A509	CH ₃ OCH ₂	H	Ph	CCl ₃	0
A510	CH ₃ O(CH ₂) ₂	H	Ph	CCl ₃	0
A511	Ph	H	Ph	CCl ₃	0
A512	PhO	H	Ph	CCl ₃	0
A513	PhS	H	Ph	CCl ₃	0
A514	PhSO	H	Ph	CCl ₃	0
A515	PhSO ₂	H	Ph	CCl ₃	0
A516	CH ₃ S	H	Ph	CCl ₃	0
A517	CH ₃ SO	H	Ph	CCl ₃	0
A518	CF ₃	H	Ph	CCl ₃	0
A519	F ₂ CH	H	Ph	CCl ₃	0
A520	HCC	H	Ph	CCl ₃	0
A521	CH ₃ CC	H	Ph	CCl ₃	0
A522	CH ₂ =CH	H	Ph	CCl ₃	0
A523	CH ₂ =CHCH ₂	H	Ph	CCl ₃	0
A524	CH ₃ SO ₂ N(CH ₃)	H	Ph	CCl ₃	0
A525	(CH ₃) ₂ N	H	Ph	CCl ₃	0
A526	(CH ₃) ₂ NSO ₂	H	Ph	CCl ₃	0
A527	ClCH ₂	H	Ph	CCl ₃	0
A528	CH ₃ SCH ₂	H	Ph	CCl ₃	0
A529	CH ₃ SOCH ₂	H	Ph	CCl ₃	0
A530	CH ₃ SO ₂ CH ₂	H	Ph	CCl ₃	0
A531	H	CH ₃	H	CF ₃	0
A532	H	CH ₃ CH ₂	H	CF ₃	0
A533	H	cyclopropyl	H	CF ₃	0
A534	H	(CH ₃) ₃ CH	H	CF ₃	0
A535	H	(CH ₃) ₂ CH	H	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A536	H	CH ₃ (CH ₂) ₂	H	CF ₃	0
A537	H	CH ₃ OCH ₂	H	CF ₃	0
A538	H	CH ₃ O(CH ₂) ₂	H	CF ₃	0
A539	H	Ph	H	CF ₃	0
A540	H	PhO	H	CF ₃	0
A541	H	PhS	H	CF ₃	0
A542	H	PhSO	H	CF ₃	0
A543	H	PhSO ₂	H	CF ₃	0
A544	H	CH ₃ S	H	CF ₃	0
A545	H	CH ₃ SO	H	CF ₃	0
A546	H	CF ₃	H	CF ₃	0
A547	H	F ₂ CH	H	CF ₃	0
A548	H	HCC	H	CF ₃	0
A549	H	CH ₃ CC	H	CF ₃	0
A550	H	CH ₂ =CH	H	CF ₃	0
A551	H	CH ₂ =CHCH ₂	H	CF ₃	0
A552	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃	0
A553	H	(CH ₃) ₂ N	H	CF ₃	0
A554	H	(CH ₃) ₂ NSO ₂	H	CF ₃	0
A555	H	CH ₃ SCH ₂	H	CF ₃	0
A556	H	CH ₃ SOCH ₂	H	CF ₃	0
A557	H	CH ₃ SO ₂ CH ₂	H	CF ₃	0
A558	H	CH ₃	H	CF ₃ CF ₂	0
A559	H	CH ₃ CH ₂	H	CF ₃ CF ₂	0
A560	H	cyclopropyl	H	CF ₃ CF ₂	0
A561	H	(CH ₃) ₃ C	H	CF ₃ CF ₂	0
A562	H	(CH ₃) ₂ CH	H	CF ₃ CF ₂	0
A563	H	CH ₃ (CH ₂) ₂	H	CF ₃ CF ₂	0
A564	H	CH ₃ OCH ₂	H	CF ₃ CF ₂	0
A565	H	CH ₃ O(CH ₂) ₂	H	CF ₃ CF ₂	0
A566	H	Ph	H	CF ₃ CF ₂	0
A567	H	PhO	H	CF ₃ CF ₂	0
A568	H	PhS	H	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A569	H	PhSO	H	CF ₃ CF ₂	0
A570	H	PhSO ₂	H	CF ₃ CF ₂	0
A571	H	CH ₃ S	H	CF ₃ CF ₂	0
A572	H	CH ₃ SO	H	CF ₃ CF ₂	0
A573	H	CF ₃	H	CF ₃ CF ₂	0
A574	H	F ₂ CH	H	CF ₃ CF ₂	0
A575	H	HCC	H	CF ₃ CF ₂	0
A576	H	CH ₃ CC	H	CF ₃ CF ₂	0
A577	H	CH ₂ =CH	H	CF ₃ CF ₂	0
A578	H	CH ₂ =CHCH ₂	H	CF ₃ CF ₂	0
A579	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃ CF ₂	0
A580	H	(CH ₃) ₂ N	H	CF ₃ CF ₂	0
A581	H	(CH ₃) ₂ NSO ₂	H	CF ₃ CF ₂	0
A582	H	CH ₃ SCH ₂	H	CF ₃ CF ₂	0
A583	H	CH ₃ SOCH ₂	H	CF ₃ CF ₂	0
A584	H	CH ₃ SO ₂ CH ₂	H	CF ₃ CF ₂	0
A585	H	CH ₃	H	CF ₃ CF ₂ CF ₂	0
A586	H	CH ₃ CH ₂	H	CF ₃ CF ₂ CF ₂	0
A587	H	cyclopropyl	H	CF ₃ CF ₂ CF ₂	0
A588	H	(CH ₃) ₃ C	H	CF ₃ CF ₂ CF ₂	0
A589	H	(CH ₃) ₂ CH	H	CF ₃ CF ₂ CF ₂	0
A590	H	CH ₃ (CH ₂) ₂	H	CF ₃ CF ₂ CF ₂	0
A591	H	CH ₃ OCH ₂	H	CF ₃ CF ₂ CF ₂	0
A592	H	CH ₃ O(CH ₂) ₂	H	CF ₃ CF ₂ CF ₂	0
A593	H	Ph	H	CF ₃ CF ₂ CF ₂	0
A594	H	PhO	H	CF ₃ CF ₂ CF ₂	0
A595	H	PhS	H	CF ₃ CF ₂ CF ₂	0
A596	H	PhSO	H	CF ₃ CF ₂ CF ₂	0
A597	H	PhSO ₂	H	CF ₃ CF ₂ CF ₂	0
A598	H	CH ₃ S	H	CF ₃ CF ₂ CF ₂	0
A599	H	CH ₃ SO	H	CF ₃ CF ₂ CF ₂	0
A600	H	CF ₃	H	CF ₃ CF ₂ CF ₂	0
A601	H	F ₂ CH	H	CF ₃ CF ₂ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A602	H	HCC	H	CF ₃ CF ₂ CF ₂	0
A603	H	CH ₃ CC	H	CF ₃ CF ₂ CF ₂	0
A604	H	CH ₂ =CH	H	CF ₃ CF ₂ CF ₂	0
A605	H	CH ₂ =CHCH ₂	H	CF ₃ CF ₂ CF ₂	0
A606	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃ CF ₂ CF ₂	0
A607	H	(CH ₃) ₂ N	H	CF ₃ CF ₂ CF ₂	0
A608	H	(CH ₃) ₂ NSO ₂	H	CF ₃ CF ₂ CF ₂	0
A609	H	CH ₃ SCH ₂	H	CF ₃ CF ₂ CF ₂	0
A610	H	CH ₃ SOCH ₂	H	CF ₃ CF ₂ CF ₂	0
A611	H	CH ₃ SO ₂ CH ₂	H	CF ₃ CF ₂ CF ₂	0
A612	H	CH ₃	H	CF ₂ Cl	0
A613	H	CH ₃ CH ₂	H	CF ₂ Cl	0
A614	H	cyclopropyl	H	CF ₂ Cl	0
A615	H	(CH ₃) ₃ C	H	CF ₂ Cl	0
A616	H	(CH ₃) ₂ CH	H	CF ₂ Cl	0
A617	H	CH ₃ (CH ₂) ₂	H	CF ₂ Cl	0
A618	H	CH ₃ OCH ₂	H	CF ₂ Cl	0
A619	H	CH ₃ O(CH ₂) ₂	H	CF ₂ Cl	0
A620	H	Ph	H	CF ₂ Cl	0
A621	H	PhO	H	CF ₂ Cl	0
A622	H	PhS	H	CF ₂ Cl	0
A623	H	PhSO	H	CF ₂ Cl	0
A624	H	PhSO ₂	H	CF ₂ Cl	0
A625	H	CH ₃ S	H	CF ₂ Cl	0
A626	H	CH ₃ SO	H	CF ₂ Cl	0
A627	H	CF ₃	H	CF ₂ Cl	0
A628	H	F ₂ CH	H	CF ₂ Cl	0
A629	H	HCC	H	CF ₂ Cl	0
A630	H	CH ₃ CC	H	CF ₂ Cl	0
A631	H	CH ₂ =CH	H	CF ₂ Cl	0
A632	H	CH ₂ =CHCH ₂	H	CF ₂ Cl	0
A633	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₂ Cl	0
A634	H	(CH ₃) ₂ N	H	CF ₂ Cl	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A635	H	(CH ₃) ₂ NSO ₂	H	CF ₂ Cl	0
A636	H	CH ₃ SCH ₂	H	CF ₂ Cl	0
A637	H	CH ₃ SOCH ₂	H	CF ₂ Cl	0
A638	H	CH ₃ SO ₂ CH ₂	H	CF ₂ Cl	0
A639	H	CH ₃	H	CHF ₂	0
A640	H	CH ₃ CH ₂	H	CHF ₂	0
A641	H	cyclopropyl	H	CHF ₂	0
A642	H	(CH ₃) ₃ C	H	CHF ₂	0
A643	H	(CH ₃) ₂ CH	H	CHF ₂	0
A644	H	CH ₃ (CH ₂) ₂	H	CHF ₂	0
A645	H	CH ₃ OCH ₂	H	CHF ₂	0
A646	H	CH ₃ O(CH ₂) ₂	H	CHF ₂	0
A647	H	Ph	H	CHF ₂	0
A648	H	PhO	H	CHF ₂	0
A649	H	PhS	H	CHF ₂	0
A650	H	PhSO	H	CHF ₂	0
A651	H	PhSO ₂	H	CHF ₂	0
A652	H	CH ₃ S	H	CHF ₂	0
A653	H	CH ₃ SO	H	CHF ₂	0
A654	H	CF ₃	H	CHF ₂	0
A655	H	F ₂ CH	H	CHF ₂	0
A656	H	HCC	H	CHF ₂	0
A657	H	CH ₃ CC	H	CHF ₂	0
A658	H	CH ₂ =CH	H	CHF ₂	0
A659	H	CH ₂ =CHCH ₂	H	CHF ₂	0
A660	H	CH ₃ SO ₂ N(CH ₃)	H	CHF ₂	0
A661	H	(CH ₃) ₂ N	H	CHF ₂	0
A662	H	(CH ₃) ₂ NSO ₂	H	CHF ₂	0
A663	H	CH ₃ SCH ₂	H	CHF ₂	0
A664	H	CH ₃ SOCH ₂	H	CHF ₂	0
A665	H	CH ₃ SO ₂ CH ₂	H	CHF ₂	0
A666	H	CH ₃	H	CCl ₃	0
A667	H	CH ₃ CH ₂	H	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A668	H	cyclopropyl	H	CCl ₃	0
A669	H	(CH ₃) ₃ C	H	CCl ₃	0
A670	H	(CH ₃) ₂ CH	H	CCl ₃	0
A671	H	CH ₃ (CH ₂) ₂	H	CCl ₃	0
A672	H	CH ₃ OCH ₂	H	CCl ₃	0
A673	H	CH ₃ O(CH ₂) ₂	H	CCl ₃	0
A674	H	Ph	H	CCl ₃	0
A675	H	PhO	H	CCl ₃	0
A676	H	PhS	H	CCl ₃	0
A677	H	PhSO	H	CCl ₃	0
A678	H	PhSO ₂	H	CCl ₃	0
A679	H	CH ₃ S	H	CCl ₃	0
A680	H	CH ₃ SO	H	CCl ₃	0
A681	H	CF ₃	H	CCl ₃	0
A682	H	F ₂ CH	H	CCl ₃	0
A683	H	HCC	H	CCl ₃	0
A684	H	CH ₃ CC	H	CCl ₃	0
A685	H	CH ₂ =CH	H	CCl ₃	0
A686	H	CH ₂ =CHCH ₂	H	CCl ₃	0
A687	H	CH ₃ SO ₂ N(CH ₃)	H	CCl ₃	0
A688	H	(CH ₃) ₂ N	H	CCl ₃	0
A689	H	(CH ₃) ₂ NSO ₂	H	CCl ₃	0
A690	H	CH ₃ SCH ₂	H	CCl ₃	0
A691	H	CH ₃ SOCH ₂	H	CCl ₃	0
A692	H	CH ₃ SO ₂ CH ₂	H	CCl ₃	0
A693	H	CH ₃	CH ₃	CF ₃	0
A694	H	CH ₃ CH ₂	CH ₃	CF ₃	0
A695	H	cyclopropyl	CH ₃	CF ₃	0
A696	H	(CH ₃) ₃ C	CH ₃	CF ₃	0
A697	H	(CH ₃) ₂ CH	CH ₃	CF ₃	0
A698	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃	0
A699	H	CH ₃ OCH ₂	CH ₃	CF ₃	0
A700	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A701	H	Ph	CH ₃	CF ₃	0
A702	H	PhO	CH ₃	CF ₃	0
A703	H	PhS	CH ₃	CF ₃	0
A704	H	PhSO	CH ₃	CF ₃	0
A705	H	PhSO ₂	CH ₃	CF ₃	0
A706	H	CH ₃ S	CH ₃	CF ₃	0
A707	H	CH ₃ SO	CH ₃	CF ₃	0
A708	H	CF ₃	CH ₃	CF ₃	0
A709	H	F ₂ CH	CH ₃	CF ₃	0
A710	H	HCC	CH ₃	CF ₃	0
A711	H	CH ₃ CC	CH ₃	CF ₃	0
A712	H	CH ₂ =CH	CH ₃	CF ₃	0
A713	H	CH ₂ =CHCH ₂	CH ₃	CF ₃	0
A714	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃	0
A715	H	(CH ₃) ₂ N	CH ₃	CF ₃	0
A716	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃	0
A717	H	CH ₃ SCH ₂	CH ₃	CF ₃	0
A718	H	CH ₃ SOCH ₂	CH ₃	CF ₃	0
A719	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃	0
A720	H	CH ₃	CH ₃	CF ₃ CF ₂	0
A721	H	CH ₃ CH ₂	CH ₃	CF ₃ CF ₂	0
A722	H	cyclopropyl	CH ₃	CF ₃ CF ₂	0
A723	H	(CH ₃) ₃ C	CH ₃	CF ₃ CF ₂	0
A724	H	(CH ₃) ₂ CH	CH ₃	CF ₃ CF ₂	0
A725	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃ CF ₂	0
A726	H	CH ₃ OCH ₂	CH ₃	CF ₃ CF ₂	0
A727	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃ CF ₂	0
A728	H	Ph	CH ₃	CF ₃ CF ₂	0
A729	H	PhO	CH ₃	CF ₃ CF ₂	0
A730	H	PhS	CH ₃	CF ₃ CF ₂	0
A731	H	PhSO	CH ₃	CF ₃ CF ₂	0
A732	H	PhSO ₂	CH ₃	CF ₃ CF ₂	0
A733	H	CH ₃ S	CH ₃	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A734	H	CH ₃ SO	CH ₃	CF ₃ CF ₂	0
A735	H	CF ₃	CH ₃	CF ₃ CF ₂	0
A736	H	F ₂ CH	CH ₃	CF ₃ CF ₂	0
A737	H	HCC	CH ₃	CF ₃ CF ₂	0
A738	H	CH ₃ CC	CH ₃	CF ₃ CF ₂	0
A739	H	CH ₂ =CH	CH ₃	CF ₃ CF ₂	0
A740	H	CH ₂ =CHCH ₂	CH ₃	CF ₃ CF ₂	0
A741	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃ CF ₂	0
A742	H	(CH ₃) ₂ N	CH ₃	CF ₃ CF ₂	0
A743	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃ CF ₂	0
A744	H	CH ₃ SCH ₂	CH ₃	CF ₃ CF ₂	0
A745	H	CH ₃ SOCH ₂	CH ₃	CF ₃ CF ₂	0
A746	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃ CF ₂	0
A747	H	CH ₃	CH ₃	CF ₃ CF ₂ CF ₂	0
A748	H	CH ₃ CH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A749	H	cyclopropyl	CH ₃	CF ₃ CF ₂ CF ₂	0
A750	H	(CH ₃) ₃ C	CH ₃	CF ₃ CF ₂ CF ₂	0
A751	H	(CH ₃) ₂ CH	CH ₃	CF ₃ CF ₂ CF ₂	0
A752	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A753	H	CH ₃ OCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A754	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A755	H	Ph	CH ₃	CF ₃ CF ₂ CF ₂	0
A756	H	PhO	CH ₃	CF ₃ CF ₂ CF ₂	0
A757	H	PhS	CH ₃	CF ₃ CF ₂ CF ₂	0
A758	H	PhSO	CH ₃	CF ₃ CF ₂ CF ₂	0
A759	H	PhSO ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A760	H	CH ₃ S	CH ₃	CF ₃ CF ₂ CF ₂	0
A761	H	CH ₃ SO	CH ₃	CF ₃ CF ₂ CF ₂	0
A762	H	CF ₃	CH ₃	CF ₃ CF ₂ CF ₂	0
A763	H	F ₂ CH	CH ₃	CF ₃ CF ₂ CF ₂	0
A764	H	HCC	CH ₃	CF ₃ CF ₂ CF ₂	0
A765	H	CH ₃ CC	CH ₃	CF ₃ CF ₂ CF ₂	0
A766	H	CH ₂ =CH	CH ₃	CF ₃ CF ₂ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A767	H	CH ₂ =CHCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A768	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃ CF ₂ CF ₂	0
A769	H	(CH ₃) ₂ N	CH ₃	CF ₃ CF ₂ CF ₂	0
A770	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A771	H	CH ₃ SCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A772	H	CH ₃ SOCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A773	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃ CF ₂ CF ₂	0
A774	H	CH ₃	CH ₃	CF ₂ Cl	0
A775	H	CH ₃ CH ₂	CH ₃	CF ₂ Cl	0
A776	H	cyclopropyl	CH ₃	CF ₂ Cl	0
A777	H	(CH ₃) ₃ C	CH ₃	CF ₂ Cl	0
A778	H	(CH ₃) ₂ CH	CH ₃	CF ₂ Cl	0
A779	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₂ Cl	0
A780	H	CH ₃ OCH ₂	CH ₃	CF ₂ Cl	0
A781	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₂ Cl	0
A782	H	Ph	CH ₃	CF ₂ Cl	0
A783	H	PhO	CH ₃	CF ₂ Cl	0
A784	H	PhS	CH ₃	CF ₂ Cl	0
A785	H	PhSO	CH ₃	CF ₂ Cl	0
A786	H	PhSO ₂	CH ₃	CF ₂ Cl	0
A787	H	CH ₃ S	CH ₃	CF ₂ Cl	0
A788	H	CH ₃ SO	CH ₃	CF ₂ Cl	0
A789	H	CF ₃	CH ₃	CF ₂ Cl	0
A790	H	F ₂ CH	CH ₃	CF ₂ Cl	0
A791	H	HCC	CH ₃	CF ₂ Cl	0
A792	H	CH ₃ CC	CH ₃	CF ₂ Cl	0
A793	H	CH ₂ =CH	CH ₃	CF ₂ Cl	0
A794	H	CH ₂ =CHCH ₂	CH ₃	CF ₂ Cl	0
A795	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₂ Cl	0
A796	H	(CH ₃) ₂ N	CH ₃	CF ₂ Cl	0
A797	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₂ Cl	0
A798	H	CH ₃ SCH ₂	CH ₃	CF ₂ Cl	0
A799	H	CH ₃ SOCH ₂	CH ₃	CF ₂ Cl	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A800	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₂ Cl	0
A801	H	CH ₃	CH ₃	CHF ₂	0
A802	H	CH ₃ CH ₂	CH ₃	CHF ₂	0
A803	H	cyclopropyl	CH ₃	CHF ₂	0
A804	H	(CH ₃) ₃ C	CH ₃	CHF ₂	0
A805	H	(CH ₃) ₂ CH	CH ₃	CHF ₂	0
A806	H	CH ₃ (CH ₂) ₂	CH ₃	CHF ₂	0
A807	H	CH ₃ OCH ₂	CH ₃	CHF ₂	0
A808	H	CH ₃ O(CH ₂) ₂	CH ₃	CHF ₂	0
A809	H	Ph	CH ₃	CHF ₂	0
A810	H	PhO	CH ₃	CHF ₂	0
A811	H	PhS	CH ₃	CHF ₂	0
A812	H	PhSO	CH ₃	CHF ₂	0
A813	H	PhSO ₂	CH ₃	CHF ₂	0
A814	H	CH ₃ S	CH ₃	CHF ₂	0
A815	H	CH ₃ SO	CH ₃	CHF ₂	0
A816	H	CF ₃	CH ₃	CHF ₂	0
A817	H	F ₂ CH	CH ₃	CHF ₂	0
A818	H	HCC	CH ₃	CHF ₂	0
A819	H	CH ₃ CC	CH ₃	CHF ₂	0
A820	H	CH ₂ =CH	CH ₃	CHF ₂	0
A821	H	CH ₂ =CHCH ₂	CH ₃	CHF ₂	0
A822	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CHF ₂	0
A823	H	(CH ₃) ₂ N	CH ₃	CHF ₂	0
A824	H	(CH ₃) ₂ NSO ₂	CH ₃	CHF ₂	0
A825	H	CH ₃ SCH ₂	CH ₃	CHF ₂	0
A826	H	CH ₃ SOCH ₂	CH ₃	CHF ₂	0
A827	H	CH ₃ SO ₂ CH ₂	CH ₃	CHF ₂	0
A828	H	CH ₃	CH ₃	CCl ₃	0
A829	H	CH ₃ CH ₂	CH ₃	CCl ₃	0
A830	H	cyclopropyl	CH ₃	CCl ₃	0
A831	H	(CH ₃) ₃ C	CH ₃	CCl ₃	0
A832	H	(CH ₃) ₂ CH	CH ₃	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A833	H	CH ₃ (CH ₂) ₂	CH ₃	CCl ₃	0
A834	H	CH ₃ OCH ₂	CH ₃	CCl ₃	0
A835	H	CH ₃ O(CH ₂) ₂	CH ₃	CCl ₃	0
A836	H	Ph	CH ₃	CCl ₃	0
A837	H	PhO	CH ₃	CCl ₃	0
A838	H	PhS	CH ₃	CCl ₃	0
A839	H	PhSO	CH ₃	CCl ₃	0
A840	H	PhSO ₂	CH ₃	CCl ₃	0
A841	H	CH ₃ S	CH ₃	CCl ₃	0
A842	H	CH ₃ SO	CH ₃	CCl ₃	0
A843	H	CF ₃	CH ₃	CCl ₃	0
A844	H	F ₂ CH	CH ₃	CCl ₃	0
A845	H	HCC	CH ₃	CCl ₃	0
A846	H	CH ₃ CC	CH ₃	CCl ₃	0
A847	H	CH ₂ =CH	CH ₃	CCl ₃	0
A848	H	CH ₂ =CHCH ₂	CH ₃	CCl ₃	0
A849	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CCl ₃	0
A850	H	(CH ₃) ₂ N	CH ₃	CCl ₃	0
A851	H	(CH ₃) ₂ NSO ₂	CH ₃	CCl ₃	0
A852	H	CH ₃ SCH ₂	CH ₃	CCl ₃	0
A853	H	CH ₃ SOCH ₂	CH ₃	CCl ₃	0
A854	H	CH ₃ SO ₂ CH ₂	CH ₃	CCl ₃	0
A855	H	CH ₃	Ph	CF ₃	0
A856	H	CH ₃ CH ₂	Ph	CF ₃	0
A857	H	(CH ₃) ₂ CH	Ph	CF ₃	0
A858	H	(CH ₃) ₂ CH	Ph	CF ₃	0
A859	H	cyclopropyl	Ph	CF ₃	0
A860	H	CH ₃ (CH ₂) ₂	Ph	CF ₃	0
A861	H	CH ₃ OCH ₂	Ph	CF ₃	0
A862	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃	0
A863	H	Ph	Ph	CF ₃	0
A864	H	PhO	Ph	CF ₃	0
A865	H	PhS	Ph	CF ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A866	H	PhSO	Ph	CF ₃	0
A867	H	PhSO ₂	Ph	CF ₃	0
A868	H	CH ₃ S	Ph	CF ₃	0
A869	H	CH ₃ SO	Ph	CF ₃	0
A870	H	CF ₃	Ph	CF ₃	0
A871	H	F ₂ CH	Ph	CF ₃	0
A872	H	HCC	Ph	CF ₃	0
A873	H	CH ₃ CC	Ph	CF ₃	0
A874	H	CH ₂ =CH	Ph	CF ₃	0
A875	H	CH ₂ =CHCH ₂	Ph	CF ₃	0
A876	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃	0
A877	H	(CH ₃) ₂ N	Ph	CF ₃	0
A878	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃	0
A879	H	CH ₃ SCH ₂	Ph	CF ₃	0
A880	H	CH ₃ SOCH ₂	Ph	CF ₃	0
A881	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃	0
A882	H	CH ₃	Ph	CF ₃ CF ₂	0
A883	H	CH ₃ CH ₂	Ph	CF ₃ CF ₂	0
A884	H	cyclopropyl	Ph	CF ₃ CF ₂	0
A885	H	(CH ₃) ₃ C	Ph	CF ₃ CF ₂	0
A886	H	(CH ₃) ₂ CH	Ph	CF ₃ CF ₂	0
A887	H	CH ₃ (CH ₂) ₂	Ph	CF ₃ CF ₂	0
A888	H	CH ₃ OCH ₂	Ph	CF ₃ CF ₂	0
A889	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃ CF ₂	0
A890	H	Ph	Ph	CF ₃ CF ₂	0
A891	H	PhO	Ph	CF ₃ CF ₂	0
A892	H	PhS	Ph	CF ₃ CF ₂	0
A893	H	PhSO	Ph	CF ₃ CF ₂	0
A894	H	PhSO ₂	Ph	CF ₃ CF ₂	0
A895	H	CH ₃ S	Ph	CF ₃ CF ₂	0
A896	H	CH ₃ SO	Ph	CF ₃ CF ₂	0
A897	H	CF ₃	Ph	CF ₃ CF ₂	0
A898	H	F ₂ CH	Ph	CF ₃ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A899	H	HCC	Ph	CF ₃ CF ₂	0
A900	H	CH ₃ CC	Ph	CF ₃ CF ₂	0
A901	H	CH ₂ =CH	Ph	CF ₃ CF ₂	0
A902	H	CH ₂ =CHCH ₂	Ph	CF ₃ CF ₂	0
A903	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃ CF ₂	0
A904	H	(CH ₃) ₂ N	Ph	CF ₃ CF ₂	0
A905	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃ CF ₂	0
A906	H	CH ₃ SCH ₂	Ph	CF ₃ CF ₂	0
A907	H	CH ₃ SOCH ₂	Ph	CF ₃ CF ₂	0
A908	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃ CF ₂	0
A909	H	CH ₃	Ph	CF ₃ CF ₂ CF ₂	0
A910	H	CH ₃ CH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A911	H	cyclopropyl	Ph	CF ₃ CF ₂ CF ₂	0
A912	H	(CH ₃) ₃ C	Ph	CF ₃ CF ₂ CF ₂	0
A913	H	(CH ₃) ₂ CH	Ph	CF ₃ CF ₂ CF ₂	0
A914	H	CH ₃ (CH ₂) ₂	Ph	CF ₃ CF ₂ CF ₂	0
A915	H	CH ₃ OCH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A916	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃ CF ₂ CF ₂	0
A917	H	Ph	Ph	CF ₃ CF ₂ CF ₂	0
A918	H	PhO	Ph	CF ₃ CF ₂ CF ₂	0
A919	H	PhS	Ph	CF ₃ CF ₂ CF ₂	0
A920	H	PhSO	Ph	CF ₃ CF ₂ CF ₂	0
A921	H	PhSO ₂	Ph	CF ₃ CF ₂ CF ₂	0
A922	H	CH ₃ S	Ph	CF ₃ CF ₂ CF ₂	0
A923	H	CH ₃ SO	Ph	CF ₃ CF ₂ CF ₂	0
A924	H	CF ₃	Ph	CF ₃ CF ₂ CF ₂	0
A925	H	F ₂ CH	Ph	CF ₃ CF ₂ CF ₂	0
A926	H	HCC	Ph	CF ₃ CF ₂ CF ₂	0
A927	H	CH ₃ CC	Ph	CF ₃ CF ₂ CF ₂	0
A928	H	CH ₂ =CH	Ph	CF ₃ CF ₂ CF ₂	0
A929	H	CH ₂ =CHCH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A930	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃ CF ₂ CF ₂	0
A931	H	(CH ₃) ₂ N	Ph	CF ₃ CF ₂ CF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A932	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃ CF ₂ CF ₂	0
A933	H	CH ₃ SCH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A934	H	CH ₃ SOCH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A935	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃ CF ₂ CF ₂	0
A936	H	CH ₃	Ph	CF ₂ Cl	0
A937	H	CH ₃ CH ₂	Ph	CF ₂ Cl	0
A938	H	cyclopropyl	Ph	CF ₂ Cl	0
A939	H	(CH ₃) ₃ C	Ph	CF ₂ Cl	0
A940	H	(CH ₃) ₂ CH	Ph	CF ₂ Cl	0
A941	H	CH ₃ (CH ₂) ₂	Ph	CF ₂ Cl	0
A942	H	CH ₃ OCH ₂	Ph	CF ₂ Cl	0
A943	H	CH ₃ O(CH ₂) ₂	Ph	CF ₂ Cl	0
A944	H	Ph	Ph	CF ₂ Cl	0
A945	H	PhO	Ph	CF ₂ Cl	0
A946	H	PhS	Ph	CF ₂ Cl	0
A947	H	PhSO	Ph	CF ₂ Cl	0
A948	H	PhSO ₂	Ph	CF ₂ Cl	0
A949	H	CH ₃ S	Ph	CF ₂ Cl	0
A950	H	CH ₃ SO	Ph	CF ₂ Cl	0
A951	H	CF ₃	Ph	CF ₂ Cl	0
A952	H	F ₂ CH	Ph	CF ₂ Cl	0
A953	H	HCC	Ph	CF ₂ Cl	0
A954	H	CH ₃ CC	Ph	CF ₂ Cl	0
A955	H	CH ₂ =CH	Ph	CF ₂ Cl	0
A956	H	CH ₂ =CHCH ₂	Ph	CF ₂ Cl	0
A957	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₂ Cl	0
A958	H	(CH ₃) ₂ N	Ph	CF ₂ Cl	0
A959	H	(CH ₃) ₂ NSO ₂	Ph	CF ₂ Cl	0
A960	H	CH ₃ SCH ₂	Ph	CF ₂ Cl	0
A961	H	CH ₃ SOCH ₂	Ph	CF ₂ Cl	0
A962	H	CH ₃ SO ₂ CH ₂	Ph	CF ₂ Cl	0
A963	H	CH ₃	Ph	CHF ₂	0
A964	H	CH ₃ CH ₂	Ph	CHF ₂	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A965	H	(CH ₃) ₃ C	Ph	CHF ₂	0
A966	H	(CH ₃) ₂ CH	Ph	CHF ₂	0
A967	H	cyclopropyl	Ph	CHF ₂	0
A968	H	CH ₃ (CH ₂) ₂	Ph	CHF ₂	0
A969	H	CH ₃ OCH ₂	Ph	CHF ₂	0
A970	H	CH ₃ O(CH ₂) ₂	Ph	CHF ₂	0
A971	H	Ph	Ph	CHF ₂	0
A972	H	PhO	Ph	CHF ₂	0
A973	H	PhS	Ph	CHF ₂	0
A974	H	PhSO	Ph	CHF ₂	0
A975	H	PhSO ₂	Ph	CHF ₂	0
A976	H	CH ₃ S	Ph	CHF ₂	0
A977	H	CH ₃ SO	Ph	CHF ₂	0
A978	H	CF ₃	Ph	CHF ₂	0
A979	H	F ₂ CH	Ph	CHF ₂	0
A980	H	HCC	Ph	CHF ₂	0
A981	H	CH ₃ CC	Ph	CHF ₂	0
A982	H	CH ₂ =CH	Ph	CHF ₂	0
A983	H	CH ₂ =CHCH ₂	Ph	CHF ₂	0
A984	H	CH ₃ SO ₂ N(CH ₃)	Ph	CHF ₂	0
A985	H	(CH ₃) ₂ N	Ph	CHF ₂	0
A986	H	(CH ₃) ₂ NSO ₂	Ph	CHF ₂	0
A987	H	CH ₃ SCH ₂	Ph	CHF ₂	0
A988	H	CH ₃ SOCH ₂	Ph	CHF ₂	0
A989	H	CH ₃ SO ₂ CH ₂	Ph	CHF ₂	0
A990	H	CH ₃	Ph	CCl ₃	0
A991	H	CH ₃ CH ₂	Ph	CCl ₃	0
A992	H	(CH ₃) ₃ C	Ph	CCl ₃	0
A993	H	(CH ₃) ₂ CH	Ph	CCl ₃	0
A994	H	cyclopropyl	Ph	CCl ₃	0
A995	H	CH ₃ (CH ₂) ₂	Ph	CCl ₃	0
A996	H	CH ₃ OCH ₂	Ph	CCl ₃	0
A997	H	CH ₃ O(CH ₂) ₂	Ph	CCl ₃	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A998	H	Ph	Ph	CCl ₃	0
A999	H	PhO	Ph	CCl ₃	0
A1000	H	PhS	Ph	CCl ₃	0
A1001	H	PhSO	Ph	CCl ₃	0
A1002	H	PhSO ₂	Ph	CCl ₃	0
A1003	H	CH ₃ S	Ph	CCl ₃	0
A1004	H	CH ₃ SO	Ph	CCl ₃	0
A1005	H	CF ₃	Ph	CCl ₃	0
A1006	H	F ₂ CH	Ph	CCl ₃	0
A1007	H	HCC	Ph	CCl ₃	0
A1008	H	CH ₃ CC	Ph	CCl ₃	0
A1009	H	CH ₂ =CH	Ph	CCl ₃	0
A1010	H	CH ₂ =CHCH ₂	Ph	CCl ₃	0
A1011	H	CH ₃ SO ₂ N(CH ₃)	Ph	CCl ₃	0
A1012	H	(CH ₃) ₂ N	Ph	CCl ₃	0
A1013	H	(CH ₃) ₂ NSO ₂	Ph	CCl ₃	0
A1014	H	CH ₃ SCH ₂	Ph	CCl ₃	0
A1015	H	CH ₃ SOCH ₂	Ph	CCl ₃	0
A1016	H	CH ₃ SO ₂ CH ₂	Ph	CCl ₃	0
A1017	F	H	H	CF ₃	0
A1018	Cl	H	H	CF ₃	0
A1019	Br	H	H	CF ₃	0
A1020	NC	H	H	CF ₃	0
A1021	CH ₃ SO ₂ O	H	H	CF ₃	0
A1022	CH ₃ O	H	H	CF ₃	0
A1023	CH ₃ CH ₂ O	H	H	CF ₃	0
A1024	CH ₂ CH=CH ₂ O	H	H	CF ₃	0
A1025	HCCCH ₂ O	H	H	CF ₃	0
A1026	PhCH ₂ S	H	H	CF ₃	0
A1027	PhCH ₂ SO ₂	H	H	CF ₃	0
A1028	ClCH ₂ CH ₂	H	H	CF ₃	0
A1029	BrCH ₂	H	H	CF ₃	0
A1030	FCH ₂	H	H	CF ₃	0

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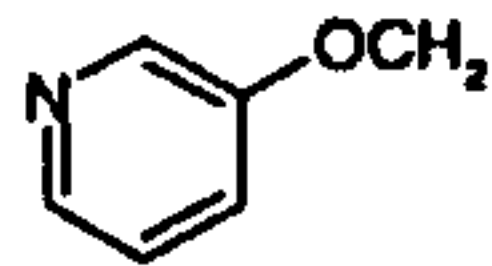
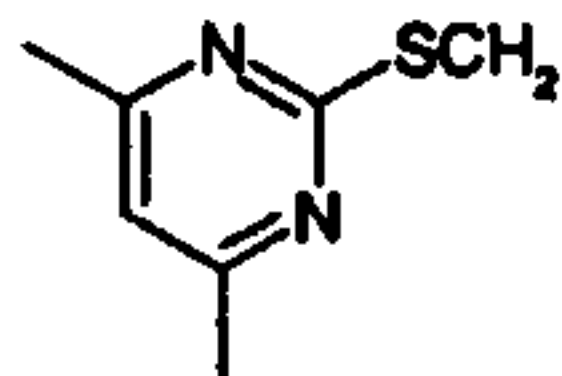
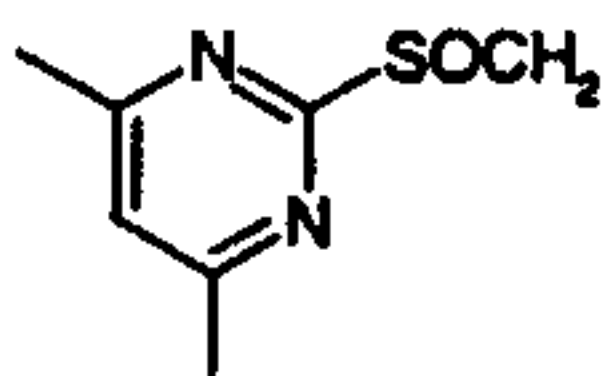
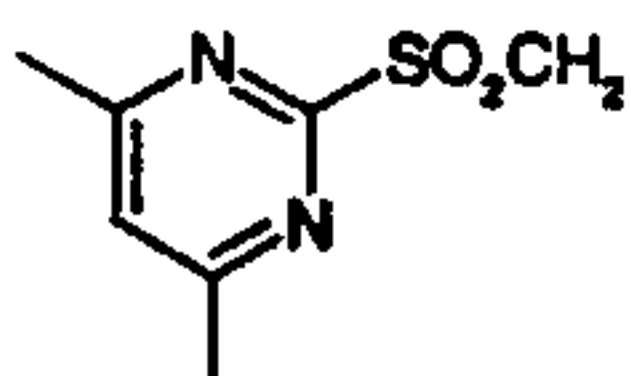
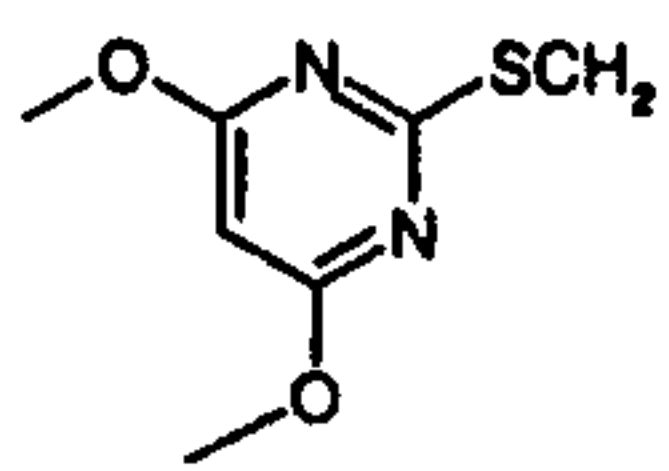
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1031	CHF ₂ CH ₂	H	H	CF ₃	0
A1032	CF ₃ CH ₂	H	H	CF ₃	0
A1033	[1,3]-imidazol-1-ylmethyl	H	H	CF ₃	0
A1034	CHCl ₂ CH ₂	H	H	CF ₃	0
A1035	ClCH=CH	H	H	CF ₃	0
A1036	Cl ₂ C=CH	H	H	CF ₃	0
A1037	CF ₃ CH=CH	H	H	CF ₃	0
A1038	ClCC	H	H	CF ₃	0
A1039	PhCH ₂	H	H	CF ₃	0
A1040	CH ₃ CH ₂	CH ₃	H	CF ₃	0
A1041	CH ₃	OH	H	CF ₃	0
A1042	CH ₃	F	H	CF ₃	0
A1043	CH ₃	Cl	H	CF ₃	0
A1044	F	CH ₃	H	CF ₃	0
A1045	Cl	CH ₃	H	CF ₃	0
A1046	H	F	H	CF ₃	0
A1047	H	Cl	H	CF ₃	0
A1048	H	Br	H	CF ₃	0
A1049	H	OH	H	CF ₃	0
A1050	H	OCH ₃	H	CF ₃	0
A1051	H	OCHF ₂	H	CF ₃	0
A1052	H	OSO ₂ CH ₃	H	CF ₃	0
A1053	H	OSO ₂ CF ₃	H	CF ₃	0
A1054	H	ClCH ₂	H	CF ₃	0
A1055	H	BrCH ₂	H	CF ₃	0
A1056	H	FCH ₂	H	CF ₃	0
A1057	H	CHF ₂ CH ₂	H	CF ₃	0
A1058	H	CF ₃ CH ₂	H	CF ₃	0
A1059	H	triazolylmethyl	H	CF ₃	0
A1060	H	CHCl ₂ CH ₂	H	CF ₃	0
A1061	H	ClCH=CH	H	CF ₃	0
A1062	H	Cl ₂ C=CH	H	CF ₃	0
A1063	H	CF ₃ CH=CH	H	CF ₃	0

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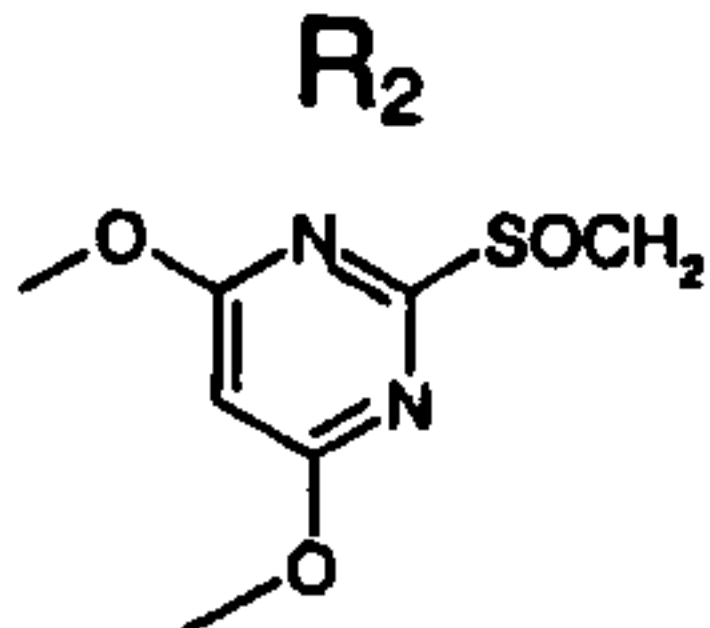
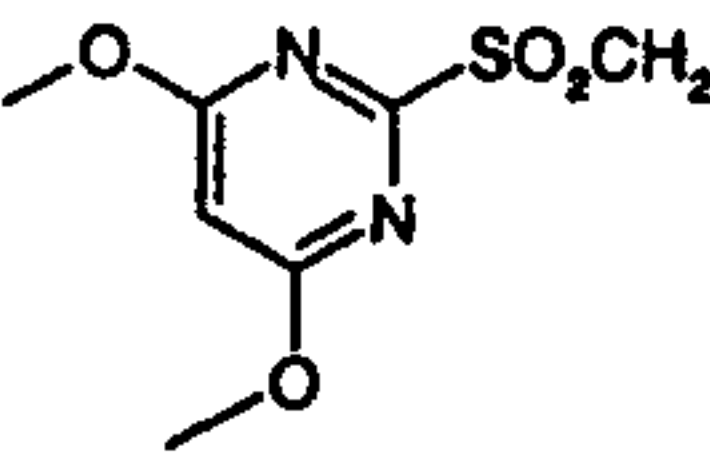
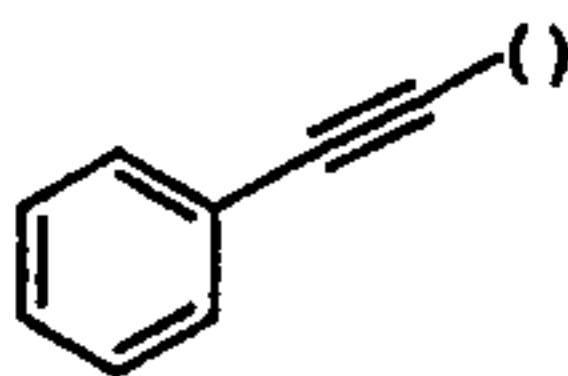
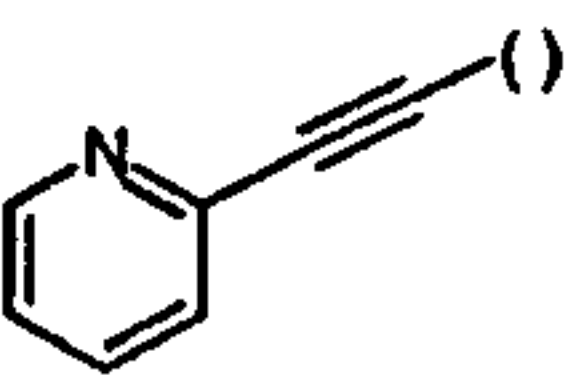
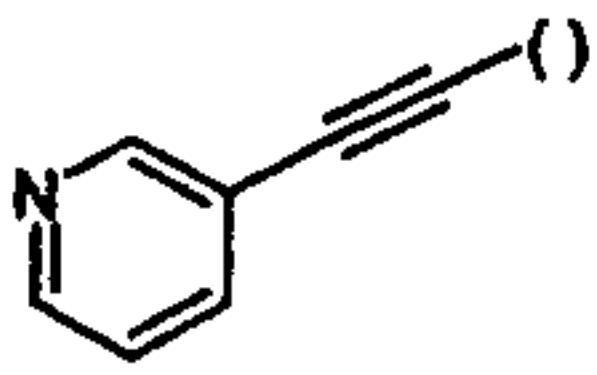
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1064	H	ClCC	H	CF ₃	0
A1065	H	CH ₃ C(O)	H	CF ₃	0
A1066	H	Ph	H	CF ₃	0
A1067	H	SO ₂ CH ₃	H	CF ₃	0
A1068	H	SO ₂ CF ₃	H	CF ₃	0
A1069	H	NC	H	CF ₃	0
A1070	H	NO ₂	H	CF ₃	0
A1071	CH ₃	H	F	CF ₃	0
A1072	CH ₃	H	Cl	CF ₃	0
A1073	CH ₃	H	Br	CF ₃	0
A1074	CH ₃	H	NC	CF ₃	0
A1075	CH ₃	H	CH ₃ O	CF ₃	0
A1076	CH ₃	H	CH ₃ S	CF ₃	0
A1077	CH ₃	H	CH ₃ SO	CF ₃	0
A1078	CH ₃	H	CH ₃ SO ₂	CF ₃	0
A1079	CH ₃ CH ₂ OCH ₂	H	H	CF ₃	0
A1080	PhOCH ₂	H	H	CF ₃	0
A1081		H	H	CF ₃	0
A1082	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₃	0
A1083	BrCH ₂ CH ₂	H	H	CF ₃	0
A1084	FCH ₂ CH ₂	H	H	CF ₃	0
A1085		H	H	CF ₃	0
A1086		H	H	CF ₃	0
A1087		H	H	CF ₃	0
A1088		H	H	CF ₃	0

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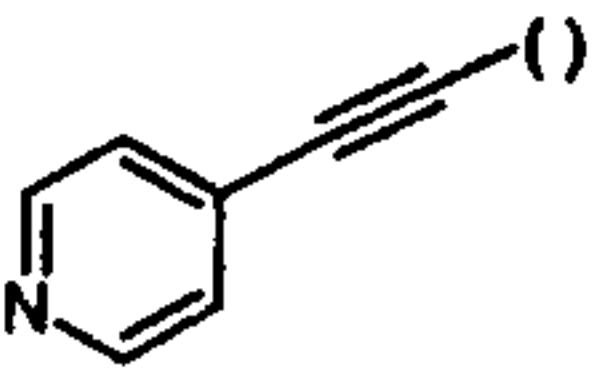
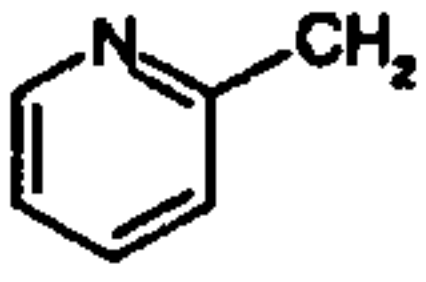
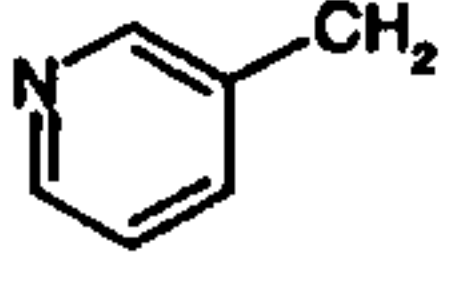
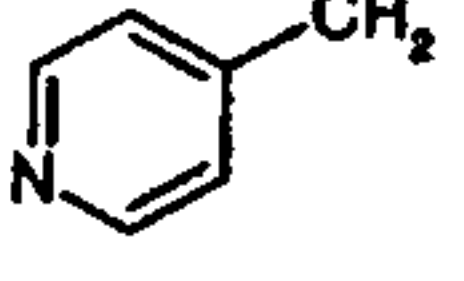
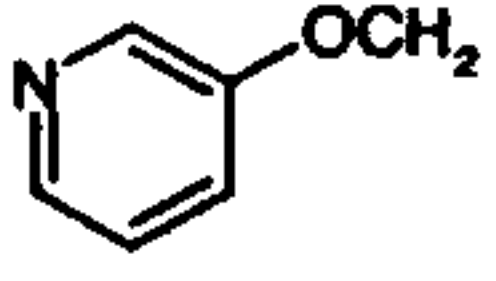
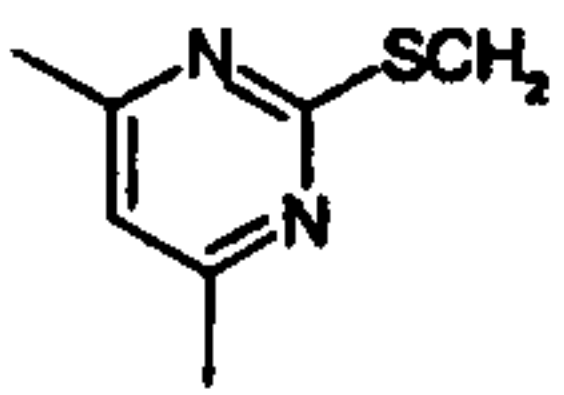
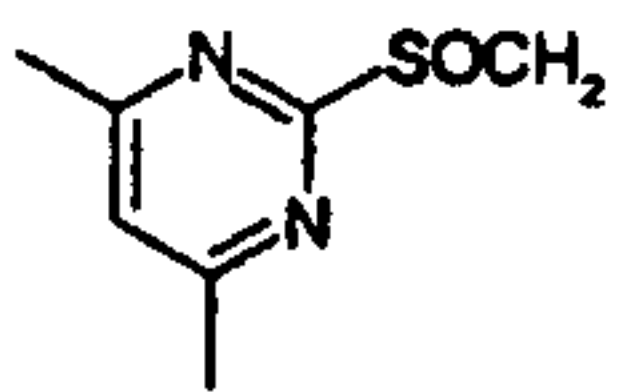
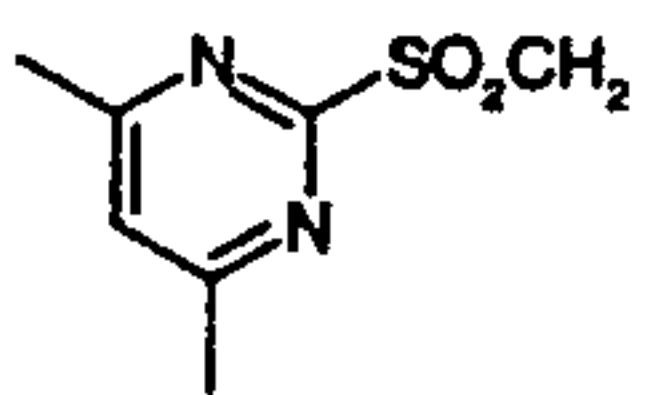
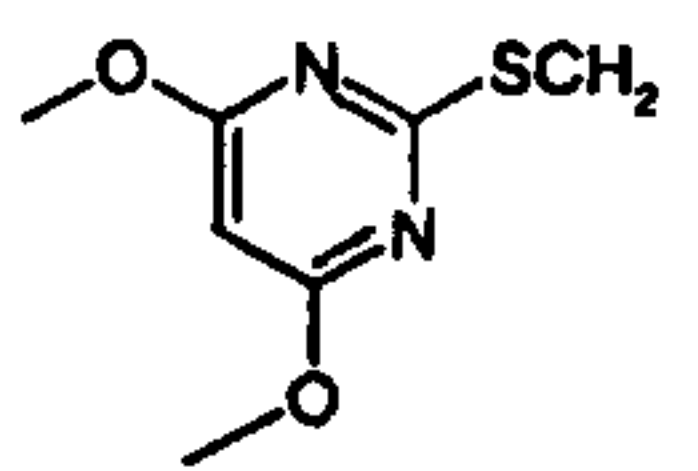
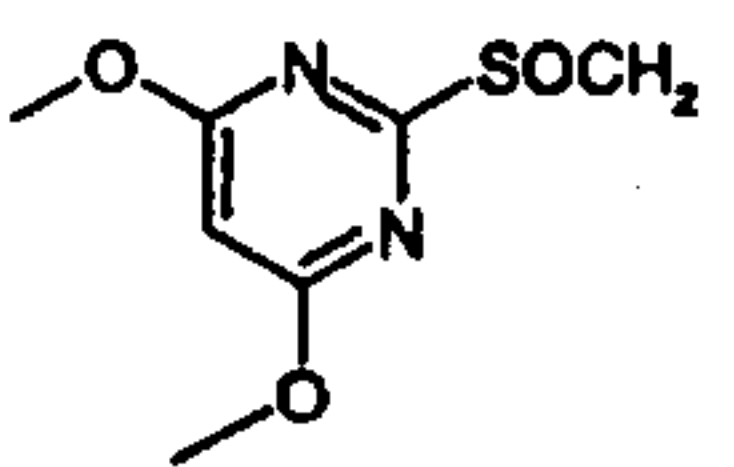
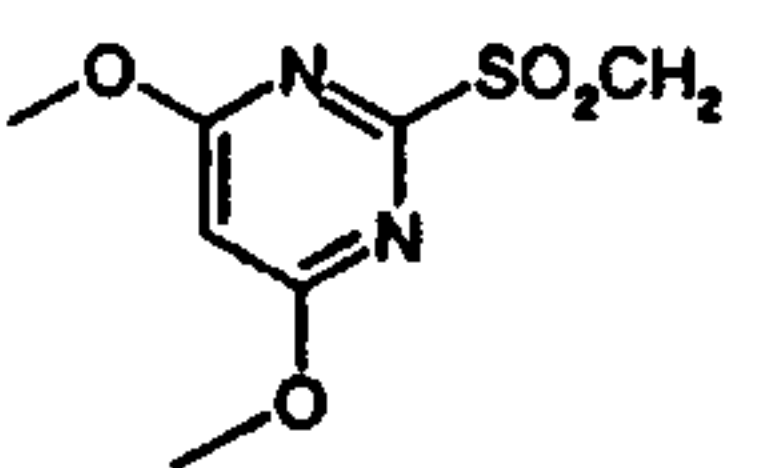
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1089		H	H	CF ₃	0
A1090		H	H	CF ₃	0
A1091	cyclopropyl-CH ₂	H	H	CF ₃	0
A1092	2,2-dichlorocycloprop-1-yl	H	H	CF ₃	0
A1093	CH ₃ OC(O)CH=CH	H	H	CF ₃	0
A1094	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₃	0
A1095	ClCH ₂ CH=CH	H	H	CF ₃	0
A1096	CH=C=CH	H	H	CF ₃	0
A1097	(CH ₃) ₂ NCH ₂	H	H	CF ₃	0
A1098	HOCH ₂	H	H	CF ₃	0
A1099	CH ₃ C(O)OCH ₂	H	H	CF ₃	0
A1100	PhC(O)OCH ₂	H	H	CF ₃	0
A1101	PhCH ₂ CH ₂	H	H	CF ₃	0
A1102	CH ₃ OC(O)CH ₂	H	H	CF ₃	0
A1103	NCCH ₂	H	H	CF ₃	0
A1104	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₃	0
A1105	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₃	0
A1106	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₃	0
A1107		H	H	CF ₃	0
A1108	ClCH ₂ CC	H	H	CF ₃	0
A1109	CHF ₂ CH ₂ CH ₂	H	H	CF ₃	0
A1110	CHCl ₂ CH ₂ CH ₂	H	H	CF ₃	0
A1111	CF ₃ SO ₂ O	H	H	CF ₃	0
A1112		H	H	CF ₃	0
A1113		H	H	CF ₃	0

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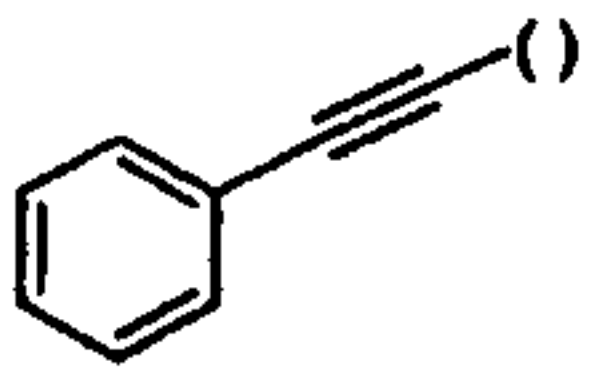
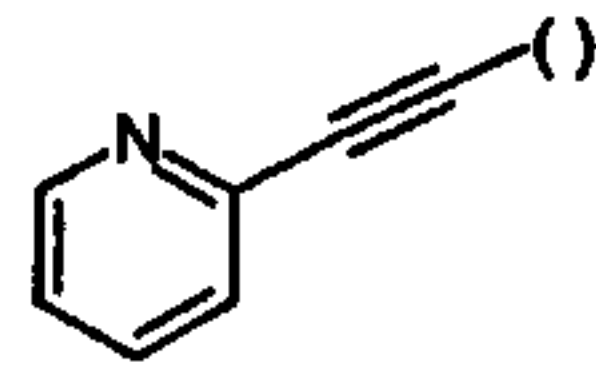
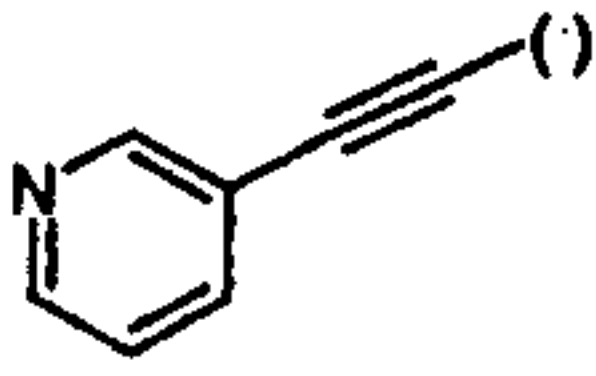
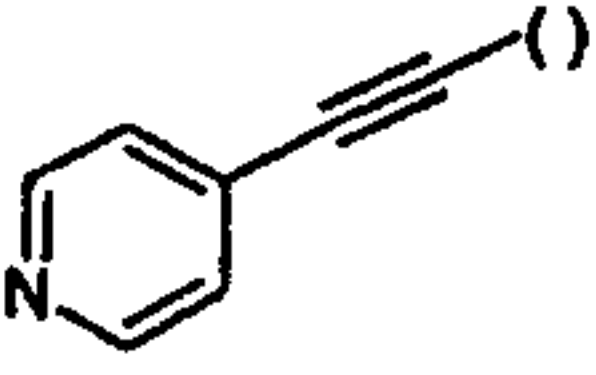
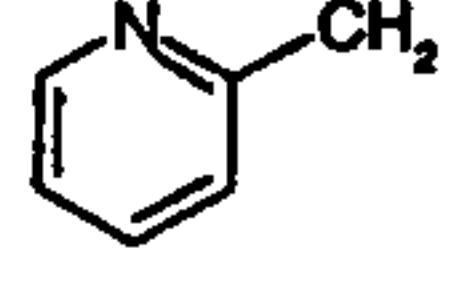
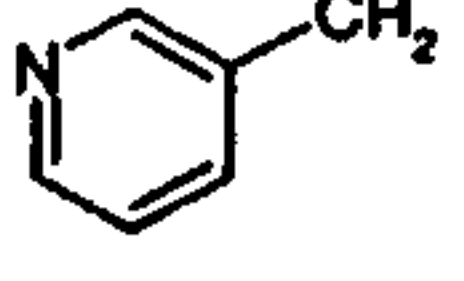
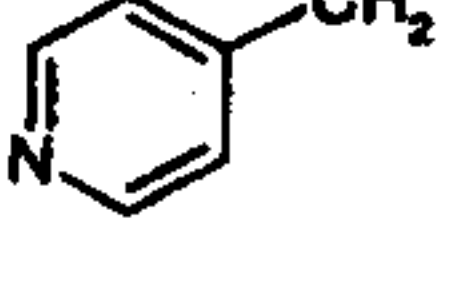
PCT/EP99/10326

Comp. No.	R ₂	R ₃	R ₄	R ₅	p
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A1115		H	H	CF ₃	0
A1116		H	H	CF ₃	0
A1117		H	H	CF ₃	0
A1118	CH ₃ ON=CHCH ₂	H	H	CF ₃	0
A1119	O=CHCH ₂	H	H	CF ₃	0
A1120	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ Cl	0
A1121	PhOCH ₂	H	H	CF ₂ Cl	0
A1122		H	H	CF ₂ Cl	0
A1123	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ Cl	0
A1124	BrCH ₂	H	H	CF ₂ Cl	0
A1125	FCH ₂	H	H	CF ₂ Cl	0
A1126		H	H	CF ₂ Cl	0
A1127		H	H	CF ₂ Cl	0
A1128		H	H	CF ₂ Cl	0
A1129		H	H	CF ₂ Cl	0
A1130		H	H	CF ₂ Cl	0
A1131		H	H	CF ₂ Cl	0
A1132	cyclopropyl-CH ₂	H	H	CF ₂ Cl	0
A1133	2,2-dichlorocycloprop-1-yl	H	H	CF ₂ Cl	0

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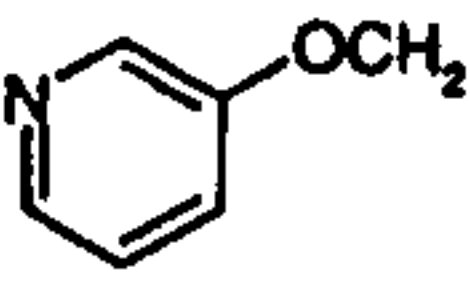
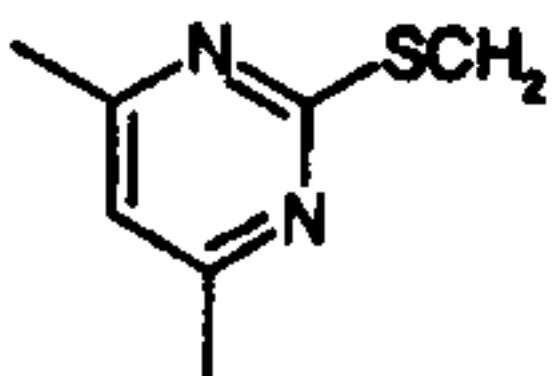
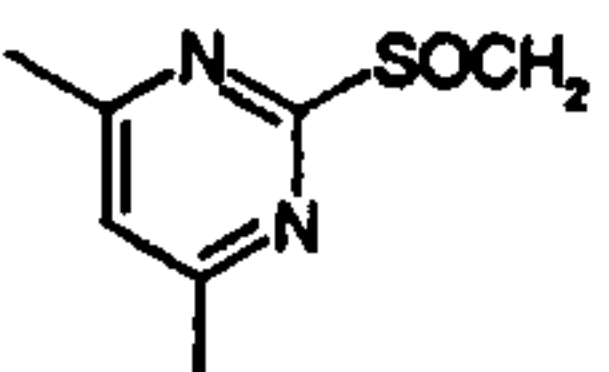
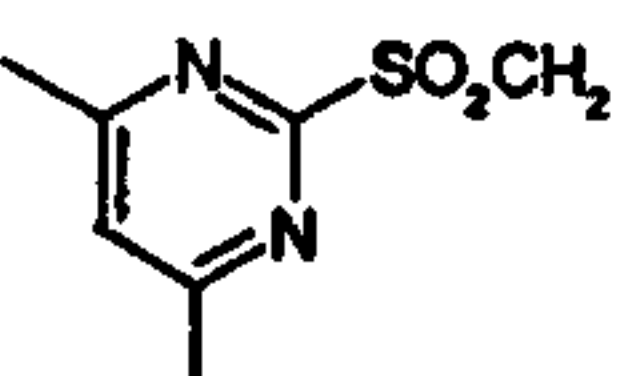
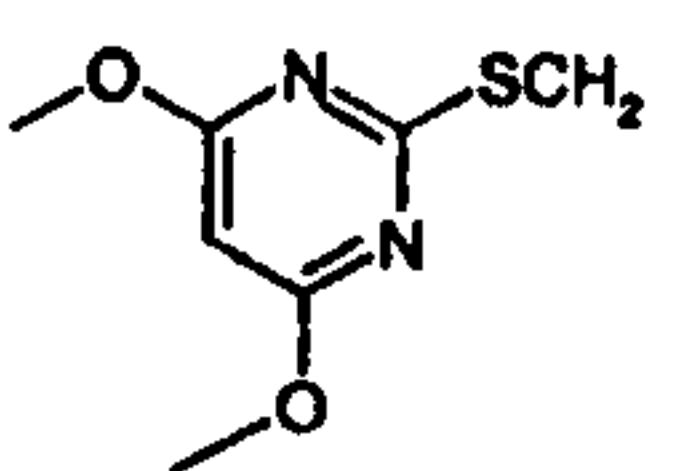
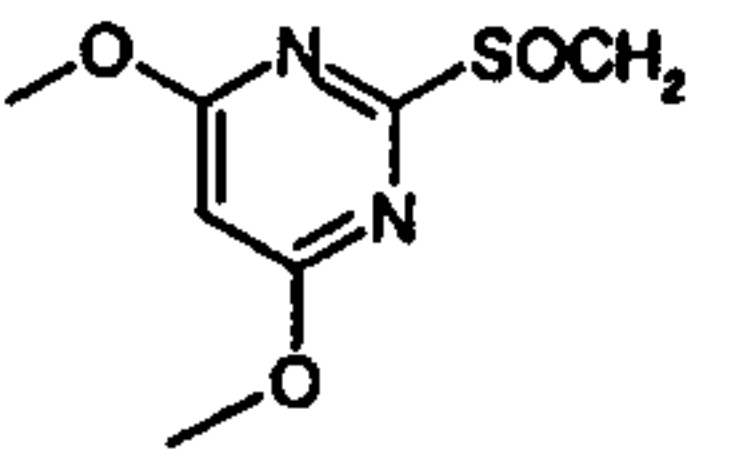
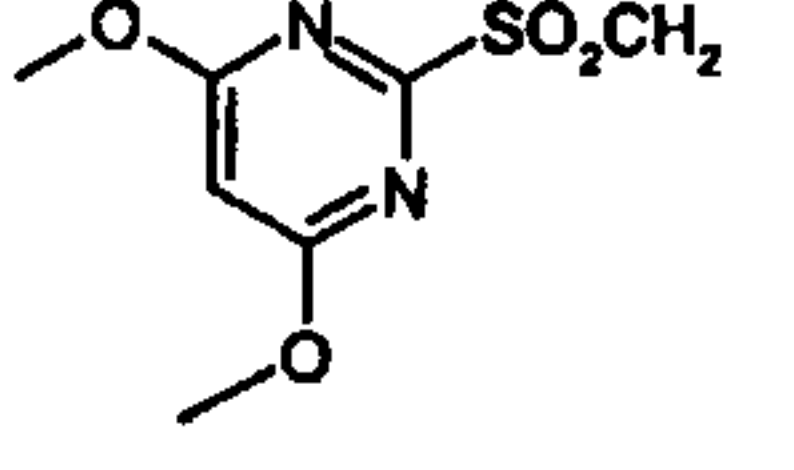
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1134	CH ₃ OC(O)CH=CH	H	H	CF ₂ Cl	0
A1135	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₂ Cl	0
A1136	ClCH ₂ CH=CH	H	H	CF ₂ Cl	0
A1137	CH=C=CH	H	H	CF ₂ Cl	0
A1138	(CH ₃) ₂ NCH ₂	H	H	CF ₂ Cl	0
A1139	HOCH ₂	H	H	CF ₂ Cl	0
A1140	CH ₃ C(O)OCH ₂	H	H	CF ₂ Cl	0
A1141	PhC(O)OCH ₂	H	H	CF ₂ Cl	0
A1142	PhCH ₂	H	H	CF ₂ Cl	0
A1143	CH ₃ OC(O)CH ₂	H	H	CF ₂ Cl	0
A1144	NCCH ₂	H	H	CF ₂ Cl	0
A1145	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₂ Cl	0
A1146	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₂ Cl	0
A1147	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ Cl	0
A1148		H	H	CF ₂ Cl	0
A1149	ClCH ₂ CC	H	H	CF ₂ Cl	0
A1150	Br	H	H	CF ₂ Cl	0
A1151	Cl	H	H	CF ₂ Cl	0
A1152	CF ₃ SO ₂ O	H	H	CF ₂ Cl	0
A1153		H	H	CF ₂ Cl	0
A1154		H	H	CF ₂ Cl	0
A1155		H	H	CF ₂ Cl	0
A1156		H	H	CF ₂ Cl	0
A1157		H	H	CF ₂ Cl	0
A1158		H	H	CF ₂ Cl	0
A1159	CH ₃ ON=CHCH ₂	H	H	CF ₂ Cl	0

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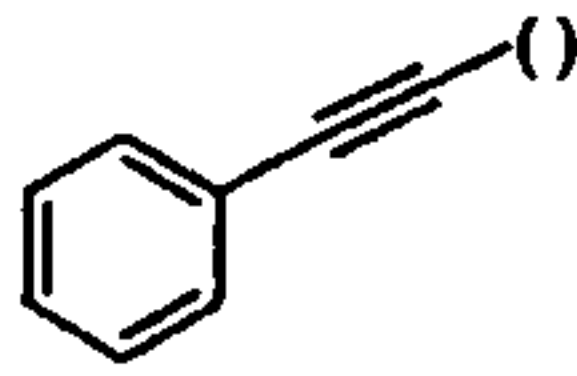
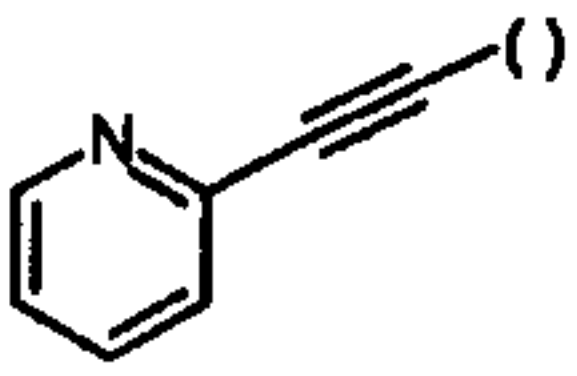
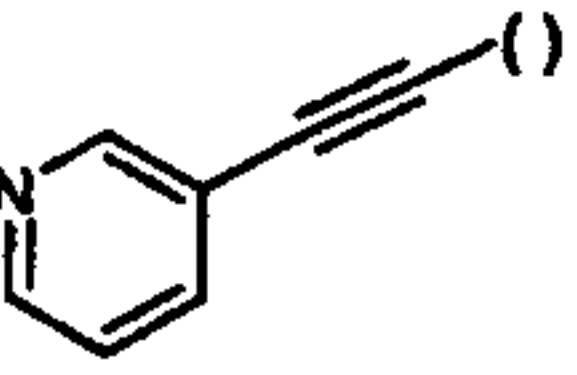
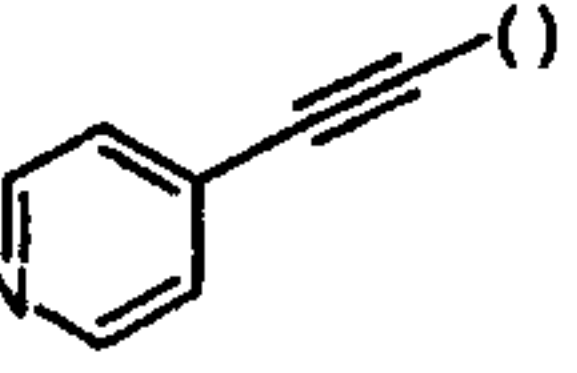
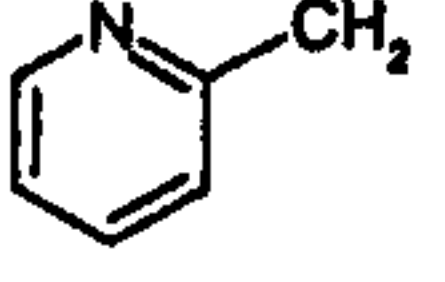
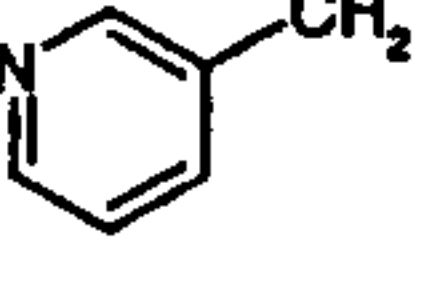
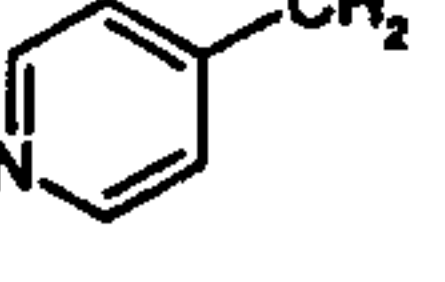
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1160	O=CHCH ₂	H	H	CF ₂ Cl	0
A1161	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ H	0
A1162	PhOCH ₂	H	H	CF ₂ H	0
A1163		H	H	CF ₂ H	0
A1164	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ H	0
A1165	BrCH ₂	H	H	CF ₂ H	0
A1166	FCH ₂	H	H	CF ₂ H	0
A1167		H	H	CF ₂ H	0
A1168		H	H	CF ₂ H	0
A1169		H	H	CF ₂ H	0
A1170		H	H	CF ₂ H	0
A1171		H	H	CF ₂ H	0
A1172		H	H	CF ₂ H	0
A1173	cyclopropyl-CH ₂	H	H	CF ₂ H	0
A1174	2,2-dichlorocycloprop-1-yl	H	H	CF ₂ H	0
A1175	CH ₃ OC(O)CH=CH	H	H	CF ₂ H	0
A1176	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₂ H	0
A1177	ClCH ₂ CH=CH	H	H	CF ₂ H	0
A1178	CH=C=CH	H	H	CF ₂ H	0
A1179	(CH ₃) ₂ NCH ₂	H	H	CF ₂ H	0
A1180	HOCH ₂	H	H	CF ₂ H	0
A1181	CH ₃ C(O)OCH ₂	H	H	CF ₂ H	0
A1182	PhC(O)OCH ₂	H	H	CF ₂ H	0

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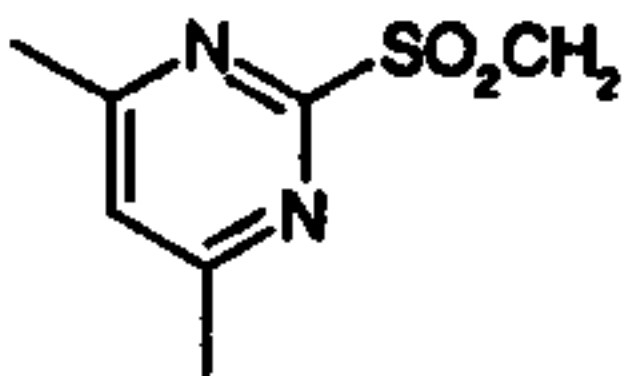
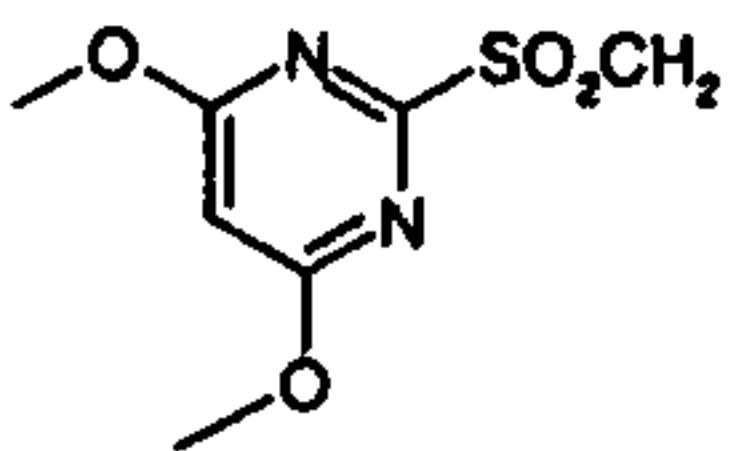
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1183	PhCH ₂	H	H	CF ₂ H	0
A1184	CH ₃ OC(O)CH ₂	H	H	CF ₂ H	0
A1185	NCCH ₂	H	H	CF ₂ H	0
A1186	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₂ H	0
A1187	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₂ H	0
A1188	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ H	0
A1189		H	H	CF ₂ H	0
A1190	ClCH ₂ CC	H	H	CF ₂ H	0
A1191	Br	H	H	CF ₂ H	0
A1192	Cl	H	H	CF ₂ H	0
A1193	CF ₃ SO ₂ O	H	H	CF ₂ H	0
A1194		H	H	CF ₂ H	0
A1195		H	H	CF ₂ H	0
A1196		H	H	CF ₂ H	0
A1197		H	H	CF ₂ H	0
A1198		H	H	CF ₂ H	0
A1199		H	H	CF ₂ H	0
A1200	CH ₃ ON=CHCH ₂	H	H	CF ₂ H	0
A1201	O=CHCH ₂	H	H	CF ₂ H	0
A1202	CH ₃ CH=CH	H	H	CF ₃	0
A1203	CH ₃ SO ₂ NH	H	H	CF ₃	0
A1204	CH ₃ CH ₂ CH ₂ O	H	CH ₃	CF ₃	0
A1205	Cl	CH ₃	H	CF ₃	0
A1206	F ₂ CHO	H	H	CF ₃	0
A1207	CH ₃ CH ₂ C(O)OCH ₂	H	H	CF ₃	0
A1208	CH ₃ CH ₂ OC(O)OCH ₂	H	H	CF ₃	0

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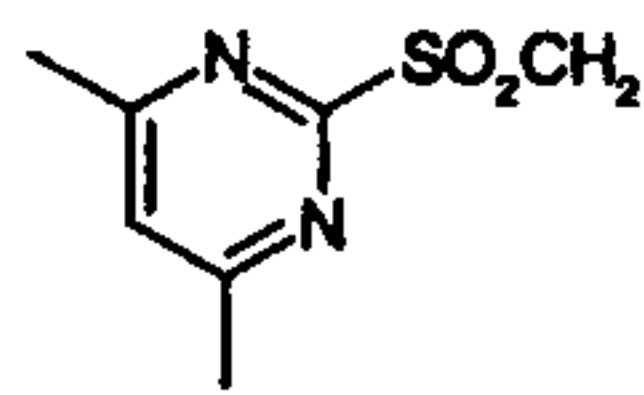
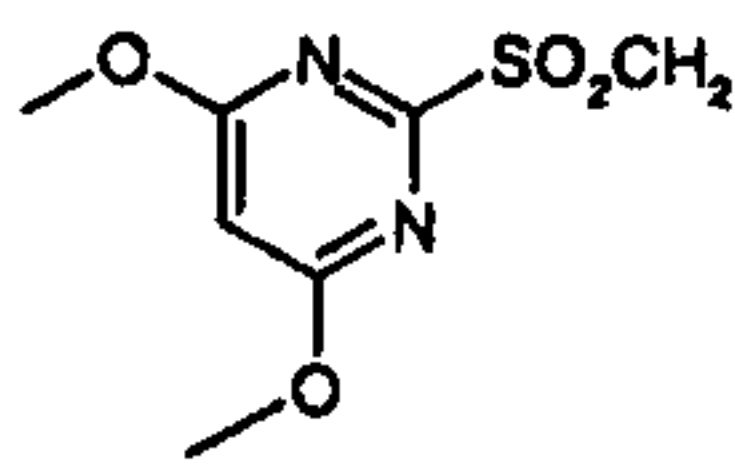
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1209	CH ₃ OCH ₂ OCH ₂	H	H	CF ₃	0
A1210	CH ₃	H	H	CF ₃	1
A1211	CH ₃ CH ₂	H	H	CF ₃	1
A1212	cyclopropyl	H	H	CF ₃	1
A1213	CH ₃ (CH ₂) ₂	H	H	CF ₃	1
A1214	CH ₃ OCH ₂	H	H	CF ₃	1
A1215	CF ₃	H	H	CF ₃	1
A1216	F ₂ CH	H	H	CF ₃	1
A1217	ClCH ₂	H	H	CF ₃	1
A1218	CH ₃ SO ₂ CH ₂	H	H	CF ₃	1
A1219	CH ₃	CF ₃	H	CH ₃	1
A1220	CH ₃ CH ₂ OCH ₂	H	H	CF ₃	1
A1221	PhOCH ₂	H	H	CF ₃	1
A1222	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₃	1
A1223	BrCH ₂	H	H	CF ₃	1
A1224	FCH ₂	H	H	CF ₃	1
A1225		H	H	CF ₃	1
A1226		H	H	CF ₃	1
A1227	cyclopropyl-CH ₂	H	H	CF ₃	1
A1228	2,2-dichlorocycloprop-1-yl	H	H	CF ₃	1
A1229	(CH ₃) ₂ NCH ₂	H	H	CF ₃	1
A1230	HOCH ₂	H	H	CF ₃	1
A1231	CH ₃ C(O)OCH ₂	H	H	CF ₃	1
A1232	PhC(O)OCH ₂	H	H	CF ₃	1
A1233	PhCH ₂	H	H	CF ₃	1
A1234	CH ₃ OC(O)CH ₂	H	H	CF ₃	1
A1235	NCCH ₂	H	H	CF ₃	1
A1236	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₃	1
A1237	Br	H	H	CF ₃	1

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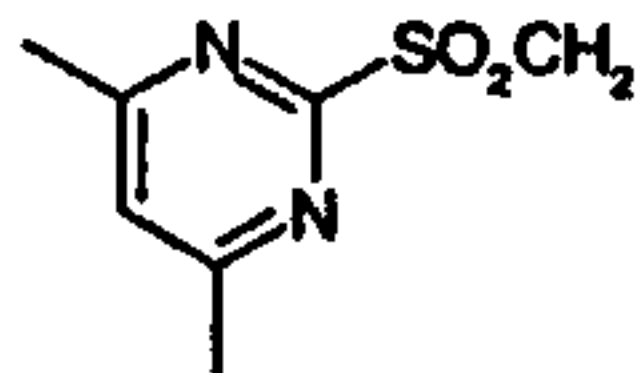
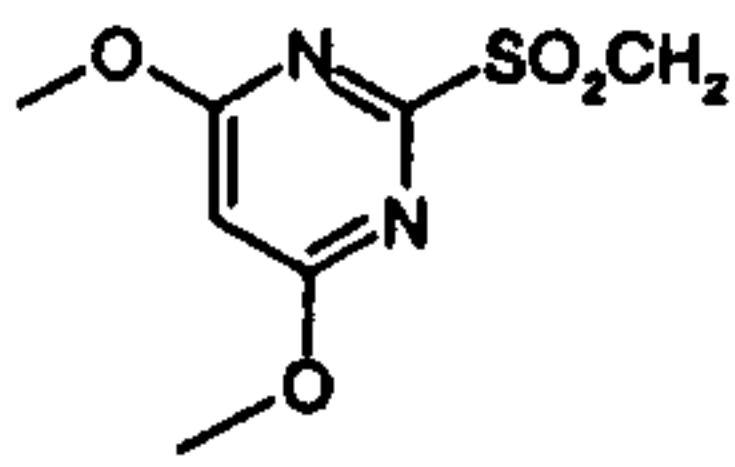
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1238	Cl	H	H	CF ₃	1
A1239	O=CHCH ₂	H	H	CF ₃	1
A1240	CH ₃	H	H	CF ₂ Cl	1
A1241	CH ₃ CH ₂	H	H	CF ₂ Cl	1
A1242	cyclopropyl	H	H	CF ₂ Cl	1
A1243	CH ₃ (CH ₂) ₂	H	H	CF ₂ Cl	1
A1244	CH ₃ OCH ₂	H	H	CF ₂ Cl	1
A1245	CF ₃	H	H	CF ₂ Cl	1
A1246	F ₂ CH	H	H	CF ₂ Cl	1
A1247	ClCH ₂	H	H	CF ₂ Cl	1
A1248	CH ₃ SO ₂ CH ₂	H	H	CF ₂ Cl	1
A1249	CH ₃	CF ₃	H	CF ₂ Cl	1
A1250	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ Cl	1
A1251	PhOCH ₂	H	H	CF ₂ Cl	1
A1252	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ Cl	1
A1253	BrCH ₂	H	H	CF ₂ Cl	1
A1254	FCH ₂	H	H	CF ₂ Cl	1
A1255		H	H	CF ₂ Cl	1
A1256		H	H	CF ₂ Cl	1
A1257	cyclopropyl-CH ₂	H	H	CF ₂ Cl	1
A1258	2,2-dichlorocycloprop-1-yl	H	H	CF ₂ Cl	1
A1259	(CH ₃) ₂ NCH ₂	H	H	CF ₂ Cl	1
A1260	HOCH ₂	H	H	CF ₂ Cl	1
A1261	CH ₃ C(O)OCH ₂	H	H	CF ₂ Cl	1
A1262	PhC(O)OCH ₂	H	H	CF ₂ Cl	1
A1263	PhCH ₂	H	H	CF ₂ Cl	1
A1264	CH ₃ OC(O)CH ₂	H	H	CF ₂ Cl	1
A1265	NCCH ₂	H	H	CF ₂ Cl	1
A1266	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ Cl	1

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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1267	Br	H	H	CF ₂ Cl	1
A1268	Cl	H	H	CF ₂ Cl	1
A1269	O=CHCH ₂	H	H	CF ₂ Cl	1
A1270	CH ₃	H	H	CF ₂ H	1
A1271	CH ₃ CH ₂	H	H	CF ₂ H	1
A1272	cyclopropyl	H	H	CF ₂ H	1
A1273	CH ₃ (CH ₂) ₂	H	H	CF ₂ H	1
A1274	CH ₃ OCH ₂	H	H	CF ₂ H	1
A1275	CF ₃	H	H	CF ₂ H	1
A1276	F ₂ CH	H	H	CF ₂ H	1
A1277	ClCH ₂	H	H	CF ₂ H	1
A1278	CH ₃ SO ₂ CH ₂	H	H	CF ₂ H	1
A1279	CH ₃	CF ₃	H	CF ₂ H	1
A1280	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ H	1
A1281	PhOCH ₂	H	H	CF ₂ H	1
A1282	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ H	1
A1283	BrCH ₂	H	H	CF ₂ H	1
A1284	FCH ₂	H	H	CF ₂ H	1
A1285		H	H	CF ₂ H	1
A1286		H	H	CF ₂ H	1
A1287	cyclopropyl-CH ₂	H	H	CF ₂ H	1
A1288	2,2-dichlorocycloprop-1-yl	H	H	CF ₂ H	1
A1289	(CH ₃) ₂ NCH ₂	H	H	CF ₂ H	1
A1290	HOCH ₂	H	H	CF ₂ H	1
A1291	CH ₃ C(O)OCH ₂	H	H	CF ₂ H	1
A1292	PhC(O)OCH ₂	H	H	CF ₂ H	1
A1293	PhCH ₂	H	H	CF ₂ H	1
A1294	CH ₃ OC(O)CH ₂	H	H	CF ₂ H	1
A1295	NCCH ₂	H	H	CF ₂ H	1

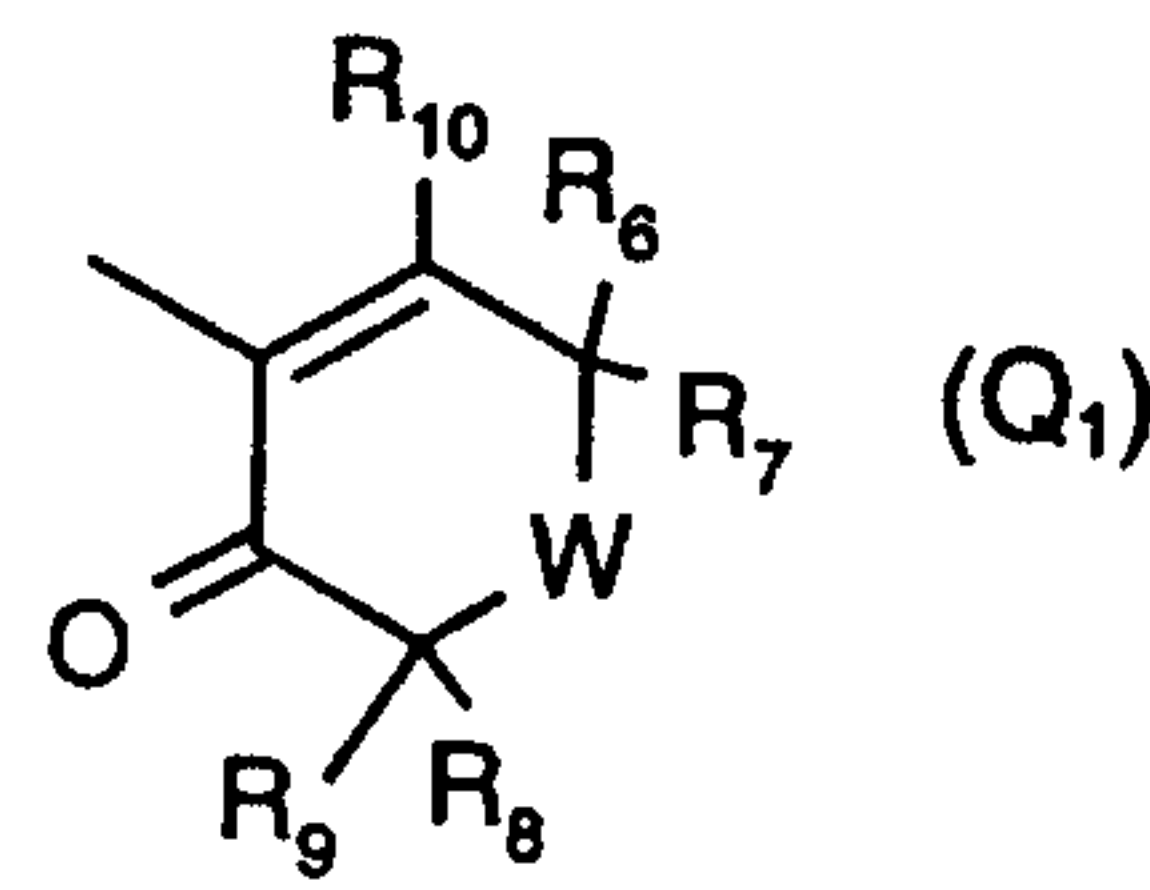
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Comp. No.	R ₂	R ₃	R ₄	R ₅	p
A1296	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ H	1
A1297	Br	H	H	CF ₂ H	1
A1298	Cl	H	H	CF ₂ H	1
A1299	O=CHCH ₂	H	H	CF ₂ H	1
A1300	CH ₃	H	H	CF ₃ CF ₂	1
A1301	HO	H	Ph	CF ₃	0
A1302	CH ₃	H	CH ₂ =CH	CF ₃	0
A1303	CH ₃	H	CH ₃ CH ₂ O	CF ₃	0
A1304	HO	CH ₃	H	CF ₃	0
A1305	HO	H	H	CF ₃	0
A1306	(CH ₃ CH ₂) ₂ N(O)CO	H	H	CF ₃	0
A1307	CH ₃	H	Tosyl-O	CF ₃	0
A1308	CH ₃	H	CH ₃ CC	CF ₃	0
A1309	CH ₃	H	HCC	CF ₃	0
A1310	CH ₃	H	ClCH ₂ CC	CF ₃	0
A1311	CH ₃	H	PhCH ₂ O	CF ₃	0
A1312	CH ₃	H	CF ₃ SO ₂ O	CF ₃	0
A1313	CH ₃	H	(CH ₃) ₂ N	CF ₃	0
A1314	CH ₃	H	CH ₃ C(O)O	CF ₃	0
A1315	CH ₃	H	CH ₃ CH ₂ C(O)O	CF ₃	0
A1316	CH ₃	H	PhC(O)O	CF ₃	0
A1317	CH ₃	H	3-Pyridyl	CF ₃	0
A1318	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ Cl	0
A1319	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ H	0
A1320	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ CF ₃	0
A1321	CH ₃ OCH ₂ OCH ₂	H	H	CF ₃	1
A1322	CH ₃ O	H	CH ₃	CF ₃	0

In Table 2 which follows, Q is Q₁



and Q₁ the radicals B which follow:

Table 2: Radicals B:

Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1	H	H	H	H	OH	CH ₂
B2	CH ₃	H	H	H	OH	CH ₂
B3	CH ₃ CH ₂	H	H	H	OH	CH ₂
B4	CH ₃ CH ₂ CH ₂	H	H	H	OH	CH ₂
B5	(CH ₃) ₂ CH	H	H	H	OH	CH ₂
B6	(CH ₃) ₃ C	H	H	H	OH	CH ₂
B7	CH ₃ S	H	H	H	OH	CH ₂
B8	CH ₃ SO	H	H	H	OH	CH ₂
B9	CH ₃ SO ₂	H	H	H	OH	CH ₂
B10	Ph	H	H	H	OH	CH ₂
B11	CH ₃ O	H	H	H	OH	CH ₂
B12	CH ₃ OC(O)	H	H	H	OH	CH ₂
B13	CH ₃ CH ₂ OC(O)	H	H	H	OH	CH ₂
B14	CH ₂ =CHCH ₂	H	H	H	OH	CH ₂
B15	HCCCH ₂	H	H	H	OH	CH ₂
B16	CF ₃	H	H	H	OH	CH ₂
B17	(CH ₃) ₂ NSO ₂	H	H	H	OH	CH ₂
B18	(CH ₃) ₂ N	H	H	H	OH	CH ₂
B19	PhO	H	H	H	OH	CH ₂
B20	PhS	H	H	H	OH	CH ₂
B21	PhSO	H	H	H	OH	CH ₂
B22	PhSO ₂	H	H	H	OH	CH ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B23	CN	H	H	H	OH	CH ₂
B24	CH ₃	CH ₃	H	H	OH	CH ₂
B25	CH ₃ CH ₂	CH ₃	H	H	OH	CH ₂
B26	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	CH ₂
B27	(CH ₃) ₂ CH	CH ₃	H	H	OH	CH ₂
B28	(CH ₃) ₃ C	CH ₃	H	H	OH	CH ₂
B29	CH ₃ S	CH ₃	H	H	OH	CH ₂
B30	CH ₃ SO	CH ₃	H	H	OH	CH ₂
B31	CH ₃ SO ₂	CH ₃	H	H	OH	CH ₂
B32	Ph	CH ₃	H	H	OH	CH ₂
B33	CH ₃ O	CH ₃	H	H	OH	CH ₂
B34	CH ₃ OC(O)	CH ₃	H	H	OH	CH ₂
B35	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	CH ₂
B36	CH ₂ =CHCH ₂	CH ₃	H	H	OH	CH ₂
B37	HCCCH ₂	CH ₃	H	H	OH	CH ₂
B38	CF ₃	CH ₃	H	H	OH	CH ₂
B39	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	CH ₂
B40	(CH ₃) ₂ N	CH ₃	H	H	OH	CH ₂
B41	PhO	CH ₃	H	H	OH	CH ₂
B42	PhS	CH ₃	H	H	OH	CH ₂
B43	PhSO	CH ₃	H	H	OH	CH ₂
B44	PhSO ₂	CH ₃	H	H	OH	CH ₂
B45	CN	CH ₃	H	H	OH	CH ₂
B46	CH ₃	H	CH ₃	H	OH	CH ₂
B47	CH ₃ CH ₂	H	CH ₃	H	OH	CH ₂
B48	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	CH ₂
B49	(CH ₃) ₂ CH	H	CH ₃	H	OH	CH ₂
B50	(CH ₃) ₃ C	H	CH ₃	H	OH	CH ₂
B51	CH ₃ S	H	CH ₃	H	OH	CH ₂
B52	CH ₃ SO	H	CH ₃	H	OH	CH ₂
B53	CH ₃ SO ₂	H	CH ₃	H	OH	CH ₂
B54	Ph	H	CH ₃	H	OH	CH ₂
B55	CH ₃ O	H	CH ₃	H	OH	CH ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B56	CH ₃ OC(O)	H	CH ₃	H	OH	CH ₂
B57	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	CH ₂
B58	CH ₂ =CHCH ₂	H	CH ₃	H	OH	CH ₂
B59	HCCCH ₂	H	CH ₃	H	OH	CH ₂
B60	CF ₃	H	CH ₃	H	OH	CH ₂
B61	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	CH ₂
B62	(CH ₃) ₂ N	H	CH ₃	H	OH	CH ₂
B63	PhO	H	CH ₃	H	OH	CH ₂
B64	PhS	H	CH ₃	H	OH	CH ₂
B65	PhSO	H	CH ₃	H	OH	CH ₂
B66	PhSO ₂	H	CH ₃	H	OH	CH ₂
B67	CN	H	CH ₃	H	OH	CH ₂
B68	CH ₃	CH ₃	CH ₃	H	OH	CH ₂
B69	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	CH ₂
B70	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	CH ₂
B71	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	CH ₂
B72	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	CH ₂
B73	CH ₃ S	CH ₃	CH ₃	H	OH	CH ₂
B74	CH ₃ SO	CH ₃	CH ₃	H	OH	CH ₂
B75	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	CH ₂
B76	Ph	CH ₃	CH ₃	H	OH	CH ₂
B77	CH ₃ O	CH ₃	CH ₃	H	OH	CH ₂
B78	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	CH ₂
B79	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	CH ₂
B80	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B81	HCCCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B82	CF ₃	CH ₃	CH ₃	H	OH	CH ₂
B83	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	CH ₂
B84	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	CH ₂
B85	PhO	CH ₃	CH ₃	H	OH	CH ₂
B86	PhS	CH ₃	CH ₃	H	OH	CH ₂
B87	PhSO	CH ₃	CH ₃	H	OH	CH ₂
B88	PhSO ₂	CH ₃	CH ₃	H	OH	CH ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B89	CN	CH ₃	CH ₃	H	OH	CH ₂
B90	CH ₃	CH ₃	CH ₃	CH ₃	OH	CH ₂
B91	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B92	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B93	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	CH ₂
B94	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	CH ₂
B95	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	CH ₂
B96	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	CH ₂
B97	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B98	Ph	CH ₃	CH ₃	CH ₃	OH	CH ₂
B99	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	CH ₂
B100	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	CH ₂
B101	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	CH ₂
B102	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B103	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B104	CF ₃	CH ₃	CH ₃	CH ₃	OH	CH ₂
B105	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B106	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	CH ₂
B107	PhO	CH ₃	CH ₃	CH ₃	OH	CH ₂
B108	PhS	CH ₃	CH ₃	CH ₃	OH	CH ₂
B109	PhSO	CH ₃	CH ₃	CH ₃	OH	CH ₂
B110	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B111	CN	CH ₃	CH ₃	CH ₃	OH	CH ₂
B112	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B113	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B114	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	CH ₂
B115	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	CH ₂
B116	CH ₃ S	CH ₃ CH ₂	H	H	OH	CH ₂
B117	CH ₃ SO	CH ₃ CH ₂	H	H	OH	CH ₂
B118	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B119	Ph	CH ₃ CH ₂	H	H	OH	CH ₂
B120	CH ₃ O	CH ₃ CH ₂	H	H	OH	CH ₂
B121	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	CH ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B122	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	CH ₂
B123	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B124	HCCCH ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B125	CF ₃	CH ₃ CH ₂	H	H	OH	CH ₂
B126	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B127	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	CH ₂
B128	PhO	CH ₃ CH ₂	H	H	OH	CH ₂
B129	PhS	CH ₃ CH ₂	H	H	OH	CH ₂
B130	PhSO	CH ₃ CH ₂	H	H	OH	CH ₂
B131	PhSO ₂	CH ₃ CH ₂	H	H	OH	CH ₂
B132	CN	CH ₃ CH ₂	H	H	OH	CH ₂
B133	H	H	H	H	OH	CHCH ₃
B134	CH ₃	H	H	H	OH	CHCH ₃
B135	CH ₃ CH ₂	H	H	H	OH	CHCH ₃
B136	CH ₃ CH ₂ CH ₂	H	H	H	OH	CHCH ₃
B137	(CH ₃) ₂ CH	H	H	H	OH	CHCH ₃
B138	(CH ₃) ₃ C	H	H	H	OH	CHCH ₃
B139	CH ₃ S	H	H	H	OH	CHCH ₃
B140	CH ₃ SO	H	H	H	OH	CHCH ₃
B141	CH ₃ SO ₂	H	H	H	OH	CHCH ₃
B142	Ph	H	H	H	OH	CHCH ₃
B143	CH ₃ O	H	H	H	OH	CHCH ₃
B144	CH ₃ OC(O)	H	H	H	OH	CHCH ₃
B145	CH ₃ CH ₂ OC(O)	H	H	H	OH	CHCH ₃
B146	CH ₂ =CHCH ₂	H	H	H	OH	CHCH ₃
B147	HCCCH ₂	H	H	H	OH	CHCH ₃
B148	CF ₃	H	H	H	OH	CHCH ₃
B149	(CH ₃) ₂ NSO ₂	H	H	H	OH	CHCH ₃
B150	(CH ₃) ₂ N	H	H	H	OH	CHCH ₃
B151	PhO	H	H	H	OH	CHCH ₃
B152	PhS	H	H	H	OH	CHCH ₃
B153	PhSO	H	H	H	OH	CHCH ₃
B154	PhSO ₂	H	H	H	OH	CHCH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B155	CN	H	H	H	OH	CHCH ₃
B156	CH ₃	CH ₃	H	H	OH	CHCH ₃
B157	CH ₃ CH ₂	CH ₃	H	H	OH	CHCH ₃
B158	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	CHCH ₃
B159	(CH ₃) ₂ CH	CH ₃	H	H	OH	CHCH ₃
B160	(CH ₃) ₃ C	CH ₃	H	H	OH	CHCH ₃
B161	CH ₃ S	CH ₃	H	H	OH	CHCH ₃
B162	CH ₃ SO	CH ₃	H	H	OH	CHCH ₃
B163	CH ₃ SO ₂	CH ₃	H	H	OH	CHCH ₃
B164	Ph	CH ₃	H	H	OH	CHCH ₃
B165	CH ₃ O	CH ₃	H	H	OH	CHCH ₃
B166	CH ₃ OC(O)	CH ₃	H	H	OH	CHCH ₃
B167	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	CHCH ₃
B168	CH ₂ =CHCH ₂	CH ₃	H	H	OH	CHCH ₃
B169	HCCCH ₂	CH ₃	H	H	OH	CHCH ₃
B170	CF ₃	CH ₃	H	H	OH	CHCH ₃
B171	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	CHCH ₃
B172	(CH ₃) ₂ N	CH ₃	H	H	OH	CHCH ₃
B173	PhO	CH ₃	H	H	OH	CHCH ₃
B174	PhS	CH ₃	H	H	OH	CHCH ₃
B175	PhSO	CH ₃	H	H	OH	CHCH ₃
B176	PhSO ₂	CH ₃	H	H	OH	CHCH ₃
B177	CN	CH ₃	H	H	OH	CHCH ₃
B178	CH ₃	H	CH ₃	H	OH	CHCH ₃
B179	CH ₃ CH ₂	H	CH ₃	H	OH	CHCH ₃
B180	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	CHCH ₃
B181	(CH ₃) ₂ CH	H	CH ₃	H	OH	CHCH ₃
B182	(CH ₃) ₃ C	H	CH ₃	H	OH	CHCH ₃
B183	CH ₃ S	H	CH ₃	H	OH	CHCH ₃
B184	CH ₃ SO	H	CH ₃	H	OH	CHCH ₃
B185	CH ₃ SO ₂	H	CH ₃	H	OH	CHCH ₃
B186	Ph	H	CH ₃	H	OH	CHCH ₃
B187	CH ₃ O	H	CH ₃	H	OH	CHCH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B188	CH ₃ OC(O)	H	CH ₃	H	OH	CHCH ₃
B189	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	CHCH ₃
B190	CH ₂ =CHCH ₂	H	CH ₃	H	OH	CHCH ₃
B191	HCCCH ₂	H	CH ₃	H	OH	CHCH ₃
B192	CF ₃	H	CH ₃	H	OH	CHCH ₃
B193	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	CHCH ₃
B194	(CH ₃) ₂ N	H	CH ₃	H	OH	CHCH ₃
B195	PhO	H	CH ₃	H	OH	CHCH ₃
B196	PhS	H	CH ₃	H	OH	CHCH ₃
B197	PhSO	H	CH ₃	H	OH	CHCH ₃
B198	PhSO ₂	H	CH ₃	H	OH	CHCH ₃
B199	CN	H	CH ₃	H	OH	CHCH ₃
B200	CH ₃	CH ₃	CH ₃	H	OH	CHCH ₃
B201	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B202	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B203	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	CHCH ₃
B204	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	CHCH ₃
B205	CH ₃ S	CH ₃	CH ₃	H	OH	CHCH ₃
B206	CH ₃ SO	CH ₃	CH ₃	H	OH	CHCH ₃
B207	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B208	Ph	CH ₃	CH ₃	H	OH	CHCH ₃
B209	CH ₃ O	CH ₃	CH ₃	H	OH	CHCH ₃
B210	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	CHCH ₃
B211	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	CHCH ₃
B212	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B213	HCCCH ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B214	CF ₃	CH ₃	CH ₃	H	OH	CHCH ₃
B215	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	CHCH ₃
B216	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	CHCH ₃
B217	PhO	CH ₃	CH ₃	H	OH	CHCH ₃
B218	PhS	CH ₃	CH ₃	H	OH	CHCH ₃
B219	PhSO	CH ₃	CH ₃	H	OH	CHCH ₃
B220	PhSO ₂	CH ₃	CH ₃	H	OH	CHCH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B221	CN	CH ₃	CH ₃	H	OH	CHCH ₃
B222	CH ₃	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B223	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B224	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B225	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B226	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B227	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B228	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B229	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B230	Ph	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B231	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B232	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B233	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B234	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B235	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B236	CF ₃	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B237	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B238	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B239	PhO	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B240	PhS	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B241	PhSO	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B242	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B243	CN	CH ₃	CH ₃	CH ₃	OH	CHCH ₃
B244	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B245	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B246	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	CHCH ₃
B247	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	CHCH ₃
B248	CH ₃ S	CH ₃ CH ₂	H	H	OH	CHCH ₃
B249	CH ₃ SO	CH ₃ CH ₂	H	H	OH	CHCH ₃
B250	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B251	Ph	CH ₃ CH ₂	H	H	OH	CHCH ₃
B252	CH ₃ O	CH ₃ CH ₂	H	H	OH	CHCH ₃
B253	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	CHCH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B254	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	CHCH ₃
B255	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B256	HCCCH ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B257	CF ₃	CH ₃ CH ₂	H	H	OH	CHCH ₃
B258	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B259	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	CHCH ₃
B260	PhO	CH ₃ CH ₂	H	H	OH	CHCH ₃
B261	PhS	CH ₃ CH ₂	H	H	OH	CHCH ₃
B262	PhSO	CH ₃ CH ₂	H	H	OH	CHCH ₃
B263	PhSO ₂	CH ₃ CH ₂	H	H	OH	CHCH ₃
B264	CN	CH ₃ CH ₂	H	H	OH	CHCH ₃
B265	H	H	H	H	OH	C=O
B266	CH ₃	H	H	H	OH	C=O
B267	CH ₃ CH ₂	H	H	H	OH	C=O
B268	CH ₃ CH ₂ CH ₂	H	H	H	OH	C=O
B269	(CH ₃) ₂ CH	H	H	H	OH	C=O
B270	(CH ₃) ₃ C	H	H	H	OH	C=O
B271	CH ₃ S	H	H	H	OH	C=O
B272	CH ₃ SO	H	H	H	OH	C=O
B273	CH ₃ SO ₂	H	H	H	OH	C=O
B274	Ph	H	H	H	OH	C=O
B275	CH ₃ O	H	H	H	OH	C=O
B276	CH ₃ OC(O)	H	H	H	OH	C=O
B277	CH ₃ CH ₂ OC(O)	H	H	H	OH	C=O
B278	CH ₂ =CHCH ₂	H	H	H	OH	C=O
B279	HCCCH ₂	H	H	H	OH	C=O
B280	CF ₃	H	H	H	OH	C=O
B281	(CH ₃) ₂ NSO ₂	H	H	H	OH	C=O
B282	(CH ₃) ₂ N	H	H	H	OH	C=O
B283	PhO	H	H	H	OH	C=O
B284	PhS	H	H	H	OH	C=O
B285	PhSO	H	H	H	OH	C=O
B286	PhSO ₂	H	H	H	OH	C=O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B287	CN	H	H	H	OH	C=O
B288	CH ₃	CH ₃	H	H	OH	C=O
B289	CH ₃ CH ₂	CH ₃	H	H	OH	C=O
B290	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	C=O
B291	(CH ₃) ₂ CH	CH ₃	H	H	OH	C=O
B292	(CH ₃) ₃ C	CH ₃	H	H	OH	C=O
B293	CH ₃ S	CH ₃	H	H	OH	C=O
B294	CH ₃ SO	CH ₃	H	H	OH	C=O
B295	CH ₃ SO ₂	CH ₃	H	H	OH	C=O
B296	Ph	CH ₃	H	H	OH	C=O
B297	CH ₃ O	CH ₃	H	H	OH	C=O
B298	CH ₃ OC(O)	CH ₃	H	H	OH	C=O
B299	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	C=O
B300	CH ₂ =CHCH ₂	CH ₃	H	H	OH	C=O
B301	HCCCH ₂	CH ₃	H	H	OH	C=O
B302	CF ₃	CH ₃	H	H	OH	C=O
B303	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	C=O
B304	(CH ₃) ₂ N	CH ₃	H	H	OH	C=O
B305	PhO	CH ₃	H	H	OH	C=O
B306	PhS	CH ₃	H	H	OH	C=O
B307	PhSO	CH ₃	H	H	OH	C=O
B308	PhSO ₂	CH ₃	H	H	OH	C=O
B309	CN	CH ₃	H	H	OH	C=O
B310	CH ₃	H	CH ₃	H	OH	C=O
B311	CH ₃ CH ₂	H	CH ₃	H	OH	C=O
B312	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	C=O
B313	(CH ₃) ₂ CH	H	CH ₃	H	OH	C=O
B314	(CH ₃) ₃ C	H	CH ₃	H	OH	C=O
B315	CH ₃ S	H	CH ₃	H	OH	C=O
B316	CH ₃ SO	H	CH ₃	H	OH	C=O
B317	CH ₃ SO ₂	H	CH ₃	H	OH	C=O
B318	Ph	H	CH ₃	H	OH	C=O
B319	CH ₃ O	H	CH ₃	H	OH	C=O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B320	CH ₃ OC(O)	H	CH ₃	H	OH	C=O
B321	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	C=O
B322	CH ₂ =CHCH ₂	H	CH ₃	H	OH	C=O
B323	HCCCH ₂	H	CH ₃	H	OH	C=O
B324	CF ₃	H	CH ₃	H	OH	C=O
B325	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	C=O
B326	(CH ₃) ₂ N	H	CH ₃	H	OH	C=O
B327	PhO	H	CH ₃	H	OH	C=O
B328	PhS	H	CH ₃	H	OH	C=O
B329	PhSO	H	CH ₃	H	OH	C=O
B330	PhSO ₂	H	CH ₃	H	OH	C=O
B331	CN	H	CH ₃	H	OH	C=O
B332	CH ₃	CH ₃	CH ₃	H	OH	C=O
B333	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	C=O
B334	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	C=O
B335	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	C=O
B336	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	C=O
B337	CH ₃ S	CH ₃	CH ₃	H	OH	C=O
B338	CH ₃ SO	CH ₃	CH ₃	H	OH	C=O
B339	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	C=O
B340	Ph	CH ₃	CH ₃	H	OH	C=O
B341	CH ₃ O	CH ₃	CH ₃	H	OH	C=O
B342	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	C=O
B343	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	C=O
B344	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	C=O
B345	HCCCH ₂	CH ₃	CH ₃	H	OH	C=O
B346	CF ₃	CH ₃	CH ₃	H	OH	C=O
B347	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	C=O
B348	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	C=O
B349	PhO	CH ₃	CH ₃	H	OH	C=O
B350	PhS	CH ₃	CH ₃	H	OH	C=O
B351	PhSO	CH ₃	CH ₃	H	OH	C=O
B352	PhSO ₂	CH ₃	CH ₃	H	OH	C=O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B353	CN	CH ₃	CH ₃	H	OH	C=O
B354	CH ₃	CH ₃	CH ₃	CH ₃	OH	C=O
B355	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B356	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B357	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	C=O
B358	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	C=O
B359	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	C=O
B360	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	C=O
B361	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B362	Ph	CH ₃	CH ₃	CH ₃	OH	C=O
B363	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	C=O
B364	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	C=O
B365	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	C=O
B366	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B367	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B368	CF ₃	CH ₃	CH ₃	CH ₃	OH	C=O
B369	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B370	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	C=O
B371	PhO	CH ₃	CH ₃	CH ₃	OH	C=O
B372	PhS	CH ₃	CH ₃	CH ₃	OH	C=O
B373	PhSO	CH ₃	CH ₃	CH ₃	OH	C=O
B374	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	C=O
B375	CN	CH ₃	CH ₃	CH ₃	OH	C=O
B376	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	C=O
B377	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	C=O
B378	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	C=O
B379	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	C=O
B380	CH ₃ S	CH ₃ CH ₂	H	H	OH	C=O
B381	CH ₃ SO	CH ₃ CH ₂	H	H	OH	C=O
B382	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	C=O
B383	Ph	CH ₃ CH ₂	H	H	OH	C=O
B384	CH ₃ O	CH ₃ CH ₂	H	H	OH	C=O
B385	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	C=O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B386	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	C=O
B387	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	C=O
B388	HCCCH ₂	CH ₃ CH ₂	H	H	OH	C=O
B389	CF ₃	CH ₃ CH ₂	H	H	OH	C=O
B390	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	C=O
B391	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	C=O
B392	PhO	CH ₃ CH ₂	H	H	OH	C=O
B393	PhS	CH ₃ CH ₂	H	H	OH	C=O
B394	PhSO	CH ₃ CH ₂	H	H	OH	C=O
B395	PhSO ₂	CH ₃ CH ₂	H	H	OH	C=O
B396	CN	CH ₃ CH ₂	H	H	OH	C=O
B397	H	H	H	H	OH	N-CH ₃
B398	CH ₃	H	H	H	OH	N-CH ₃
B399	CH ₃ CH ₂	H	H	H	OH	N-CH ₃
B400	CH ₃ CH ₂ CH ₂	H	H	H	OH	N-CH ₃
B401	(CH ₃) ₂ CH	H	H	H	OH	N-CH ₃
B402	(CH ₃) ₃ C	H	H	H	OH	N-CH ₃
B403	CH ₃ S	H	H	H	OH	N-CH ₃
B404	CH ₃ SO	H	H	H	OH	N-CH ₃
B405	CH ₃ SO ₂	H	H	H	OH	N-CH ₃
B406	Ph	H	H	H	OH	N-CH ₃
B407	CH ₃ O	H	H	H	OH	N-CH ₃
B408	CH ₃ OC(O)	H	H	H	OH	N-CH ₃
B409	CH ₃ CH ₂ OC(O)	H	H	H	OH	N-CH ₃
B410	CH ₂ =CHCH ₂	H	H	H	OH	N-CH ₃
B411	HCCCH ₂	H	H	H	OH	N-CH ₃
B412	CF ₃	H	H	H	OH	N-CH ₃
B413	(CH ₃) ₂ NSO ₂	H	H	H	OH	N-CH ₃
B414	(CH ₃) ₂ N	H	H	H	OH	N-CH ₃
B415	PhO	H	H	H	OH	N-CH ₃
B416	PhS	H	H	H	OH	N-CH ₃
B417	PhSO	H	H	H	OH	N-CH ₃
B418	PhSO ₂	H	H	H	OH	N-CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B419	CN	H	H	H	OH	N-CH ₃
B420	CH ₃	CH ₃	H	H	OH	N-CH ₃
B421	CH ₃ CH ₂	CH ₃	H	H	OH	N-CH ₃
B422	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	N-CH ₃
B423	(CH ₃) ₂ CH	CH ₃	H	H	OH	N-CH ₃
B424	(CH ₃) ₃ C	CH ₃	H	H	OH	N-CH ₃
B425	CH ₃ S	CH ₃	H	H	OH	N-CH ₃
B426	CH ₃ SO	CH ₃	H	H	OH	N-CH ₃
B427	CH ₃ SO ₂	CH ₃	H	H	OH	N-CH ₃
B428	Ph	CH ₃	H	H	OH	N-CH ₃
B429	CH ₃ O	CH ₃	H	H	OH	N-CH ₃
B430	CH ₃ OC(O)	CH ₃	H	H	OH	N-CH ₃
B431	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	N-CH ₃
B432	CH ₂ =CHCH ₂	CH ₃	H	H	OH	N-CH ₃
B433	HCCCH ₂	CH ₃	H	H	OH	N-CH ₃
B434	CF ₃	CH ₃	H	H	OH	N-CH ₃
B435	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	N-CH ₃
B436	(CH ₃) ₂ N	CH ₃	H	H	OH	N-CH ₃
B437	PhO	CH ₃	H	H	OH	N-CH ₃
B438	PhS	CH ₃	H	H	OH	N-CH ₃
B439	PhSO	CH ₃	H	H	OH	N-CH ₃
B440	PhSO ₂	CH ₃	H	H	OH	N-CH ₃
B441	CN	CH ₃	H	H	OH	N-CH ₃
B442	CH ₃	H	CH ₃	H	OH	N-CH ₃
B443	CH ₃ CH ₂	H	CH ₃	H	OH	N-CH ₃
B444	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	N-CH ₃
B445	(CH ₃) ₂ CH	H	CH ₃	H	OH	N-CH ₃
B446	(CH ₃) ₃ C	H	CH ₃	H	OH	N-CH ₃
B447	CH ₃ S	H	CH ₃	H	OH	N-CH ₃
B448	CH ₃ SO	H	CH ₃	H	OH	N-CH ₃
B449	CH ₃ SO ₂	H	CH ₃	H	OH	N-CH ₃
B450	Ph	H	CH ₃	H	OH	N-CH ₃
B451	CH ₃ O	H	CH ₃	H	OH	N-CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B452	CH ₃ OC(O)	H	CH ₃	H	OH	N-CH ₃
B453	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	N-CH ₃
B454	CH ₂ =CHCH ₂	H	CH ₃	H	OH	N-CH ₃
B455	HCCCH ₂	H	CH ₃	H	OH	N-CH ₃
B456	CF ₃	H	CH ₃	H	OH	N-CH ₃
B457	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	N-CH ₃
B458	(CH ₃) ₂ N	H	CH ₃	H	OH	N-CH ₃
B459	PhO	H	CH ₃	H	OH	N-CH ₃
B460	PhS	H	CH ₃	H	OH	N-CH ₃
B461	PhSO	H	CH ₃	H	OH	N-CH ₃
B462	PhSO ₂	H	CH ₃	H	OH	N-CH ₃
B463	CN	H	CH ₃	H	OH	N-CH ₃
B464	CH ₃	CH ₃	CH ₃	H	OH	N-CH ₃
B465	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B466	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B467	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	N-CH ₃
B468	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	N-CH ₃
B469	CH ₃ S	CH ₃	CH ₃	H	OH	N-CH ₃
B470	CH ₃ SO	CH ₃	CH ₃	H	OH	N-CH ₃
B471	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B472	Ph	CH ₃	CH ₃	H	OH	N-CH ₃
B473	CH ₃ O	CH ₃	CH ₃	H	OH	N-CH ₃
B474	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	N-CH ₃
B475	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	N-CH ₃
B476	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B477	HCCCH ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B478	CF ₃	CH ₃	CH ₃	H	OH	N-CH ₃
B479	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	N-CH ₃
B480	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	N-CH ₃
B481	PhO	CH ₃	CH ₃	H	OH	N-CH ₃
B482	PhS	CH ₃	CH ₃	H	OH	N-CH ₃
B483	PhSO	CH ₃	CH ₃	H	OH	N-CH ₃
B484	PhSO ₂	CH ₃	CH ₃	H	OH	N-CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B485	CN	CH ₃	CH ₃	H	OH	N-CH ₃
B486	CH ₃	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B487	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B488	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B489	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B490	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B491	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B492	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B493	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B494	Ph	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B495	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B496	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B497	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B498	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B499	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B500	CF ₃	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B501	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B502	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B503	PhO	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B504	PhS	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B505	PhSO	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B506	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B507	CN	CH ₃	CH ₃	CH ₃	OH	N-CH ₃
B508	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B509	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B510	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	N-CH ₃
B511	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	N-CH ₃
B512	CH ₃ S	CH ₃ CH ₂	H	H	OH	N-CH ₃
B513	CH ₃ SO	CH ₃ CH ₂	H	H	OH	N-CH ₃
B514	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B515	Ph	CH ₃ CH ₂	H	H	OH	N-CH ₃
B516	CH ₃ O	CH ₃ CH ₂	H	H	OH	N-CH ₃
B517	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	N-CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B518	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	N-CH ₃
B519	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B520	HCCCH ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B521	CF ₃	CH ₃ CH ₂	H	H	OH	N-CH ₃
B522	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B523	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	N-CH ₃
B524	PhO	CH ₃ CH ₂	H	H	OH	N-CH ₃
B525	PhS	CH ₃ CH ₂	H	H	OH	N-CH ₃
B526	PhSO	CH ₃ CH ₂	H	H	OH	N-CH ₃
B527	PhSO ₂	CH ₃ CH ₂	H	H	OH	N-CH ₃
B528	CN	CH ₃ CH ₂	H	H	OH	N-CH ₃
B529	H	H	H	H	OH	O
B530	CH ₃	H	H	H	OH	O
B531	CH ₃ CH ₂	H	H	H	OH	O
B532	CH ₃ CH ₂ CH ₂	H	H	H	OH	O
B533	(CH ₃) ₂ CH	H	H	H	OH	O
B534	(CH ₃) ₃ C	H	H	H	OH	O
B535	CH ₃ S	H	H	H	OH	O
B536	CH ₃ SO	H	H	H	OH	O
B537	CH ₃ SO ₂	H	H	H	OH	O
B538	Ph	H	H	H	OH	O
B539	CH ₃ O	H	H	H	OH	O
B540	CH ₃ OC(O)	H	H	H	OH	O
B541	CH ₃ CH ₂ OC(O)	H	H	H	OH	O
B542	CH ₂ =CHCH ₂	H	H	H	OH	O
B543	HCCCH ₂	H	H	H	OH	O
B544	CF ₃	H	H	H	OH	O
B545	(CH ₃) ₂ NSO ₂	H	H	H	OH	O
B546	(CH ₃) ₂ N	H	H	H	OH	O
B547	PhO	H	H	H	OH	O
B548	PhS	H	H	H	OH	O
B549	PhSO	H	H	H	OH	O
B550	PhSO ₂	H	H	H	OH	O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B551	CN	H	H	H	OH	O
B552	CH ₃	CH ₃	H	H	OH	O
B553	CH ₃ CH ₂	CH ₃	H	H	OH	O
B554	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	O
B555	(CH ₃) ₂ CH	CH ₃	H	H	OH	O
B556	(CH ₃) ₃ C	CH ₃	H	H	OH	O
B557	CH ₃ S	CH ₃	H	H	OH	O
B558	CH ₃ SO	CH ₃	H	H	OH	O
B559	CH ₃ SO ₂	CH ₃	H	H	OH	O
B560	Ph	CH ₃	H	H	OH	O
B561	CH ₃ O	CH ₃	H	H	OH	O
B562	CH ₃ OC(O)	CH ₃	H	H	OH	O
B563	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	O
B564	CH ₂ =CHCH ₂	CH ₃	H	H	OH	O
B565	HCCCH ₂	CH ₃	H	H	OH	O
B566	CF ₃	CH ₃	H	H	OH	O
B567	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	O
B568	(CH ₃) ₂ N	CH ₃	H	H	OH	O
B569	PhO	CH ₃	H	H	OH	O
B570	PhS	CH ₃	H	H	OH	O
B571	PhSO	CH ₃	H	H	OH	O
B572	PhSO ₂	CH ₃	H	H	OH	O
B573	CN	CH ₃	H	H	OH	O
B574	CH ₃	H	CH ₃	H	OH	O
B575	CH ₃ CH ₂	H	CH ₃	H	OH	O
B576	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	O
B577	(CH ₃) ₂ CH	H	CH ₃	H	OH	O
B578	(CH ₃) ₃ C	H	CH ₃	H	OH	O
B579	CH ₃ S	H	CH ₃	H	OH	O
B580	CH ₃ SO	H	CH ₃	H	OH	O
B581	CH ₃ SO ₂	H	CH ₃	H	OH	O
B582	Ph	H	CH ₃	H	OH	O
B583	CH ₃ O	H	CH ₃	H	OH	O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B584	CH ₃ OC(O)	H	CH ₃	H	OH	O
B585	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	O
B586	CH ₂ =CHCH ₂	H	CH ₃	H	OH	O
B587	HCCCH ₂	H	CH ₃	H	OH	O
B588	CF ₃	H	CH ₃	H	OH	O
B589	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	O
B590	(CH ₃) ₂ N	H	CH ₃	H	OH	O
B591	PhO	H	CH ₃	H	OH	O
B592	PhS	H	CH ₃	H	OH	O
B593	PhSO	H	CH ₃	H	OH	O
B594	PhSO ₂	H	CH ₃	H	OH	O
B595	CN	H	CH ₃	H	OH	O
B596	CH ₃	CH ₃	CH ₃	H	OH	O
B597	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	O
B598	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	O
B599	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	O
B600	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	O
B601	CH ₃ S	CH ₃	CH ₃	H	OH	O
B602	CH ₃ SO	CH ₃	CH ₃	H	OH	O
B603	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	O
B604	Ph	CH ₃	CH ₃	H	OH	O
B605	CH ₃ O	CH ₃	CH ₃	H	OH	O
B606	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	O
B607	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	O
B608	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	O
B609	HCCCH ₂	CH ₃	CH ₃	H	OH	O
B610	CF ₃	CH ₃	CH ₃	H	OH	O
B611	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	O
B612	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	O
B613	PhO	CH ₃	CH ₃	H	OH	O
B614	PhS	CH ₃	CH ₃	H	OH	O
B615	PhSO	CH ₃	CH ₃	H	OH	O
B616	PhSO ₂	CH ₃	CH ₃	H	OH	O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B617	CN	CH ₃	CH ₃	H	OH	O
B618	CH ₃	CH ₃	CH ₃	CH ₃	OH	O
B619	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	O
B620	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	O
B621	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	O
B622	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	O
B623	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	O
B624	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	O
B625	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	O
B626	Ph	CH ₃	CH ₃	CH ₃	OH	O
B627	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	O
B628	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	O
B629	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	O
B630	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	O
B631	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	O
B632	CF ₃	CH ₃	CH ₃	CH ₃	OH	O
B633	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	O
B634	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	O
B635	PhO	CH ₃	CH ₃	CH ₃	OH	O
B636	PhS	CH ₃	CH ₃	CH ₃	OH	O
B637	PhSO	CH ₃	CH ₃	CH ₃	OH	O
B638	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	O
B639	CN	CH ₃	CH ₃	CH ₃	OH	O
B640	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	O
B641	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	O
B642	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	O
B643	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	O
B644	CH ₃ S	CH ₃ CH ₂	H	H	OH	O
B645	CH ₃ SO	CH ₃ CH ₂	H	H	OH	O
B646	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	O
B647	Ph	CH ₃ CH ₂	H	H	OH	O
B648	CH ₃ O	CH ₃ CH ₂	H	H	OH	O
B649	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	O

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B650	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	O
B651	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	O
B652	HCCCH ₂	CH ₃ CH ₂	H	H	OH	O
B653	CF ₃	CH ₃ CH ₂	H	H	OH	O
B654	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	O
B655	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	O
B656	PhO	CH ₃ CH ₂	H	H	OH	O
B657	PhS	CH ₃ CH ₂	H	H	OH	O
B658	PhSO	CH ₃ CH ₂	H	H	OH	O
B659	PhSO ₂	CH ₃ CH ₂	H	H	OH	O
B660	CN	CH ₃ CH ₂	H	H	OH	O
B661	H	H	H	H	OH	S
B662	CH ₃	H	H	H	OH	S
B663	CH ₃ CH ₂	H	H	H	OH	S
B664	CH ₃ CH ₂ CH ₂	H	H	H	OH	S
B665	(CH ₃) ₂ CH	H	H	H	OH	S
B666	(CH ₃) ₃ C	H	H	H	OH	S
B667	CH ₃ S	H	H	H	OH	S
B668	CH ₃ SO	H	H	H	OH	S
B669	CH ₃ SO ₂	H	H	H	OH	S
B670	Ph	H	H	H	OH	S
B671	CH ₃ O	H	H	H	OH	S
B672	CH ₃ OC(O)	H	H	H	OH	S
B673	CH ₃ CH ₂ OC(O)	H	H	H	OH	S
B674	CH ₂ =CHCH ₂	H	H	H	OH	S
B675	HCCCH ₂	H	H	H	OH	S
B676	CF ₃	H	H	H	OH	S
B677	(CH ₃) ₂ NSO ₂	H	H	H	OH	S
B678	(CH ₃) ₂ N	H	H	H	OH	S
B679	PhO	H	H	H	OH	S
B680	PhS	H	H	H	OH	S
B681	PhSO	H	H	H	OH	S
B682	PhSO ₂	H	H	H	OH	S

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B683	CN	H	H	H	OH	S
B684	CH ₃	CH ₃	H	H	OH	S
B685	CH ₃ CH ₂	CH ₃	H	H	OH	S
B686	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	S
B687	(CH ₃) ₂ CH	CH ₃	H	H	OH	S
B688	(CH ₃) ₃ C	CH ₃	H	H	OH	S
B689	CH ₃ S	CH ₃	H	H	OH	S
B690	CH ₃ SO	CH ₃	H	H	OH	S
B691	CH ₃ SO ₂	CH ₃	H	H	OH	S
B692	Ph	CH ₃	H	H	OH	S
B693	CH ₃ O	CH ₃	H	H	OH	S
B694	CH ₃ OC(O)	CH ₃	H	H	OH	S
B695	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	S
B696	CH ₂ =CHCH ₂	CH ₃	H	H	OH	S
B697	HCCCH ₂	CH ₃	H	H	OH	S
B698	CF ₃	CH ₃	H	H	OH	S
B699	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	S
B700	(CH ₃) ₂ N	CH ₃	H	H	OH	S
B701	PhO	CH ₃	H	H	OH	S
B702	PhS	CH ₃	H	H	OH	S
B703	PhSO	CH ₃	H	H	OH	S
B704	PhSO ₂	CH ₃	H	H	OH	S
B705	CN	CH ₃	H	H	OH	S
B706	CH ₃	H	CH ₃	H	OH	S
B707	CH ₃ CH ₂	H	CH ₃	H	OH	S
B708	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	S
B709	(CH ₃) ₂ CH	H	CH ₃	H	OH	S
B710	(CH ₃) ₃ C	H	CH ₃	H	OH	S
B711	CH ₃ S	H	CH ₃	H	OH	S
B712	CH ₃ SO	H	CH ₃	H	OH	S
B713	CH ₃ SO ₂	H	CH ₃	H	OH	S
B714	Ph	H	CH ₃	H	OH	S
B715	CH ₃ O	H	CH ₃	H	OH	S

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B716	CH ₃ OC(O)	H	CH ₃	H	OH	S
B717	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	S
B718	CH ₂ =CHCH ₂	H	CH ₃	H	OH	S
B719	HCCCH ₂	H	CH ₃	H	OH	S
B720	CF ₃	H	CH ₃	H	OH	S
B721	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	S
B722	(CH ₃) ₂ N	H	CH ₃	H	OH	S
B723	PhO	H	CH ₃	H	OH	S
B724	PhS	H	CH ₃	H	OH	S
B725	PhSO	H	CH ₃	H	OH	S
B726	PhSO ₂	H	CH ₃	H	OH	S
B727	CN	H	CH ₃	H	OH	S
B728	CH ₃	CH ₃	CH ₃	H	OH	S
B729	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	S
B730	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	S
B731	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	S
B732	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	S
B733	CH ₃ S	CH ₃	CH ₃	H	OH	S
B734	CH ₃ SO	CH ₃	CH ₃	H	OH	S
B735	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	S
B736	Ph	CH ₃	CH ₃	H	OH	S
B737	CH ₃ O	CH ₃	CH ₃	H	OH	S
B738	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	S
B739	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	S
B740	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	S
B741	HCCCH ₂	CH ₃	CH ₃	H	OH	S
B742	CF ₃	CH ₃	CH ₃	H	OH	S
B743	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	S
B744	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	S
B745	PhO	CH ₃	CH ₃	H	OH	S
B746	PhS	CH ₃	CH ₃	H	OH	S
B747	PhSO	CH ₃	CH ₃	H	OH	S
B748	PhSO ₂	CH ₃	CH ₃	H	OH	S

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B749	CN	CH ₃	CH ₃	H	OH	S
B750	CH ₃	CH ₃	CH ₃	CH ₃	OH	S
B751	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	S
B752	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	S
B753	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	S
B754	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	S
B755	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	S
B756	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	S
B757	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	S
B758	Ph	CH ₃	CH ₃	CH ₃	OH	S
B759	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	S
B760	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	S
B761	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	S
B762	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	S
B763	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	S
B764	CF ₃	CH ₃	CH ₃	CH ₃	OH	S
B765	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	S
B766	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	S
B767	PhO	CH ₃	CH ₃	CH ₃	OH	S
B768	PhS	CH ₃	CH ₃	CH ₃	OH	S
B769	PhSO	CH ₃	CH ₃	CH ₃	OH	S
B770	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	S
B771	CN	CH ₃	CH ₃	CH ₃	OH	S
B772	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	S
B773	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	S
B774	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	S
B775	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	S
B776	CH ₃ S	CH ₃ CH ₂	H	H	OH	S
B777	CH ₃ SO	CH ₃ CH ₂	H	H	OH	S
B778	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	S
B779	Ph	CH ₃ CH ₂	H	H	OH	S
B780	CH ₃ O	CH ₃ CH ₂	H	H	OH	S
B781	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	S

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B782	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	S
B783	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	S
B784	HCCCH ₂	CH ₃ CH ₂	H	H	OH	S
B785	CF ₃	CH ₃ CH ₂	H	H	OH	S
B786	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	S
B787	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	S
B788	PhO	CH ₃ CH ₂	H	H	OH	S
B789	PhS	CH ₃ CH ₂	H	H	OH	S
B790	PhSO	CH ₃ CH ₂	H	H	OH	S
B791	PhSO ₂	CH ₃ CH ₂	H	H	OH	S
B792	CN	CH ₃ CH ₂	H	H	OH	S
B793	H	H	H	H	OH	SO ₂
B794	CH ₃	H	H	H	OH	SO ₂
B795	CH ₃ CH ₂	H	H	H	OH	SO ₂
B796	CH ₃ CH ₂ CH ₂	H	H	H	OH	SO ₂
B797	(CH ₃) ₂ CH	H	H	H	OH	SO ₂
B798	(CH ₃) ₃ C	H	H	H	OH	SO ₂
B799	CH ₃ S	H	H	H	OH	SO ₂
B800	CH ₃ SO	H	H	H	OH	SO ₂
B801	CH ₃ SO ₂	H	H	H	OH	SO ₂
B802	Ph	H	H	H	OH	SO ₂
B803	CH ₃ O	H	H	H	OH	SO ₂
B804	CH ₃ OC(O)	H	H	H	OH	SO ₂
B805	CH ₃ CH ₂ OC(O)	H	H	H	OH	SO ₂
B806	CH ₂ =CHCH ₂	H	H	H	OH	SO ₂
B807	HCCCH ₂	H	H	H	OH	SO ₂
B808	CF ₃	H	H	H	OH	SO ₂
B809	(CH ₃) ₂ NSO ₂	H	H	H	OH	SO ₂
B810	(CH ₃) ₂ N	H	H	H	OH	SO ₂
B811	PhO	H	H	H	OH	SO ₂
B812	PhS	H	H	H	OH	SO ₂
B813	PhSO	H	H	H	OH	SO ₂
B814	PhSO ₂	H	H	H	OH	SO ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B815	CN	H	H	H	OH	SO ₂
B816	CH ₃	CH ₃	H	H	OH	SO ₂
B817	CH ₃ CH ₂	CH ₃	H	H	OH	SO ₂
B818	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	SO ₂
B819	(CH ₃) ₂ CH	CH ₃	H	H	OH	SO ₂
B820	(CH ₃) ₃ C	CH ₃	H	H	OH	SO ₂
B821	CH ₃ S	CH ₃	H	H	OH	SO ₂
B822	CH ₃ SO	CH ₃	H	H	OH	SO ₂
B823	CH ₃ SO ₂	CH ₃	H	H	OH	SO ₂
B824	Ph	CH ₃	H	H	OH	SO ₂
B825	CH ₃ O	CH ₃	H	H	OH	SO ₂
B826	CH ₃ OC(O)	CH ₃	H	H	OH	SO ₂
B827	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	SO ₂
B828	CH ₂ =CHCH ₂	CH ₃	H	H	OH	SO ₂
B829	HCCCH ₂	CH ₃	H	H	OH	SO ₂
B830	CF ₃	CH ₃	H	H	OH	SO ₂
B831	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	SO ₂
B832	(CH ₃) ₂ N	CH ₃	H	H	OH	SO ₂
B833	PhO	CH ₃	H	H	OH	SO ₂
B834	PhS	CH ₃	H	H	OH	SO ₂
B835	PhSO	CH ₃	H	H	OH	SO ₂
B836	PhSO ₂	CH ₃	H	H	OH	SO ₂
B837	CN	CH ₃	H	H	OH	SO ₂
B838	CH ₃	H	CH ₃	H	OH	SO ₂
B839	CH ₃ CH ₂	H	CH ₃	H	OH	SO ₂
B840	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	SO ₂
B841	(CH ₃) ₂ CH	H	CH ₃	H	OH	SO ₂
B842	(CH ₃) ₃ C	H	CH ₃	H	OH	SO ₂
B843	CH ₃ S	H	CH ₃	H	OH	SO ₂
B844	CH ₃ SO	H	CH ₃	H	OH	SO ₂
B845	CH ₃ SO ₂	H	CH ₃	H	OH	SO ₂
B846	Ph	H	CH ₃	H	OH	SO ₂
B847	CH ₃ O	H	CH ₃	H	OH	SO ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B848	CH ₃ OC(O)	H	CH ₃	H	OH	SO ₂
B849	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	SO ₂
B850	CH ₂ =CHCH ₂	H	CH ₃	H	OH	SO ₂
B851	HCCCH ₂	H	CH ₃	H	OH	SO ₂
B852	CF ₃	H	CH ₃	H	OH	SO ₂
B853	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	SO ₂
B854	(CH ₃) ₂ N	H	CH ₃	H	OH	SO ₂
B855	PhO	H	CH ₃	H	OH	SO ₂
B856	PhS	H	CH ₃	H	OH	SO ₂
B857	PhSO	H	CH ₃	H	OH	SO ₂
B858	PhSO ₂	H	CH ₃	H	OH	SO ₂
B859	CN	H	CH ₃	H	OH	SO ₂
B860	CH ₃	CH ₃	CH ₃	H	OH	SO ₂
B861	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	SO ₂
B862	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	SO ₂
B863	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	SO ₂
B864	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	SO ₂
B865	CH ₃ S	CH ₃	CH ₃	H	OH	SO ₂
B866	CH ₃ SO	CH ₃	CH ₃	H	OH	SO ₂
B867	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	SO ₂
B868	Ph	CH ₃	CH ₃	H	OH	SO ₂
B869	CH ₃ O	CH ₃	CH ₃	H	OH	SO ₂
B870	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	SO ₂
B871	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	SO ₂
B872	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	SO ₂
B873	HCCCH ₂	CH ₃	CH ₃	H	OH	SO ₂
B874	CF ₃	CH ₃	CH ₃	H	OH	SO ₂
B875	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	SO ₂
B876	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	SO ₂
B877	PhO	CH ₃	CH ₃	H	OH	SO ₂
B878	PhS	CH ₃	CH ₃	H	OH	SO ₂
B879	PhSO	CH ₃	CH ₃	H	OH	SO ₂
B880	PhSO ₂	CH ₃	CH ₃	H	OH	SO ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B881	CN	CH ₃	CH ₃	H	OH	SO ₂
B882	CH ₃	CH ₃	CH ₃	CH ₃	OH	SO ₂
B883	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B884	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B885	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	SO ₂
B886	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	SO ₂
B887	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	SO ₂
B888	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	SO ₂
B889	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B890	Ph	CH ₃	CH ₃	CH ₃	OH	SO ₂
B891	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	SO ₂
B892	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	SO ₂
B893	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	SO ₂
B894	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B895	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B896	CF ₃	CH ₃	CH ₃	CH ₃	OH	SO ₂
B897	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B898	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	SO ₂
B899	PhO	CH ₃	CH ₃	CH ₃	OH	SO ₂
B900	PhS	CH ₃	CH ₃	CH ₃	OH	SO ₂
B901	PhSO	CH ₃	CH ₃	CH ₃	OH	SO ₂
B902	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	SO ₂
B903	CN	CH ₃	CH ₃	CH ₃	OH	SO ₂
B904	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B905	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B906	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	SO ₂
B907	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	SO ₂
B908	CH ₃ S	CH ₃ CH ₂	H	H	OH	SO ₂
B909	CH ₃ SO	CH ₃ CH ₂	H	H	OH	SO ₂
B910	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B911	Ph	CH ₃ CH ₂	H	H	OH	SO ₂
B912	CH ₃ O	CH ₃ CH ₂	H	H	OH	SO ₂
B913	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	SO ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B914	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	SO ₂
B915	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B916	HCCCH ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B917	CF ₃	CH ₃ CH ₂	H	H	OH	SO ₂
B918	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B919	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	SO ₂
B920	PhO	CH ₃ CH ₂	H	H	OH	SO ₂
B921	PhS	CH ₃ CH ₂	H	H	OH	SO ₂
B922	PhSO	CH ₃ CH ₂	H	H	OH	SO ₂
B923	PhSO ₂	CH ₃ CH ₂	H	H	OH	SO ₂
B924	CN	CH ₃ CH ₂	H	H	OH	SO ₂
B925	H	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B926	CH ₃	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B927	CH ₃ CH ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B928	CH ₃ CH ₂ CH ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B929	(CH ₃) ₂ CH	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B930	(CH ₃) ₃ C	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B931	CH ₃ S	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B932	CH ₃ SO	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B933	CH ₃ SO ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B934	Ph	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B935	CH ₃ O	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B936	CH ₃ OC(O)	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B937	CH ₃ CH ₂ OC(O)	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B938	CH ₂ =CHCH ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B939	HCCCH ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B940	CF ₃	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B941	(CH ₃) ₂ NSO ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B942	(CH ₃) ₂ N	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B943	PhO	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B944	PhS	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B945	PhSO	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B946	PhSO ₂	H	H	H	OH	CHC(O)OCH ₂ CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B947	CN	H	H	H	OH	CHC(O)OCH ₂ CH ₃
B948	CH ₃	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B949	CH ₃ CH ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B950	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B951	(CH ₃) ₂ CH	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B952	(CH ₃) ₃ C	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B953	CH ₃ S	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B954	CH ₃ SO	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B955	CH ₃ SO ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B956	Ph	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B957	CH ₃ O	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B958	CH ₃ OC(O)	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B959	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B960	CH ₂ =CHCH ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B961	HCCCH ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B962	CF ₃	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B963	(CH ₃) ₂ NSO ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B964	(CH ₃) ₂ N	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B965	PhO	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B966	PhS	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B967	PhSO	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B968	PhSO ₂	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B969	CN	CH ₃	H	H	OH	CHC(O)OCH ₂ CH ₃
B970	CH ₃	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B971	CH ₃ CH ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B972	CH ₃ CH ₂ CH ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B973	(CH ₃) ₂ CH	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B974	(CH ₃) ₃ C	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B975	CH ₃ S	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B976	CH ₃ SO	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B977	CH ₃ SO ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B978	Ph	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B979	CH ₃ O	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B980	CH ₃ OC(O)	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B981	CH ₃ CH ₂ OC(O)	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B982	CH ₂ =CHCH ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B983	HCCCH ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B984	CF ₃	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B985	(CH ₃) ₂ NSO ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B986	(CH ₃) ₂ N	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B987	PhO	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B988	PhS	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B989	PhSO	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B990	PhSO ₂	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B991	CN	H	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B992	CH ₃	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B993	CH ₃ CH ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B994	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B995	(CH ₃) ₂ CH	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B996	(CH ₃) ₃ C	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B997	CH ₃ S	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B998	CH ₃ SO	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B999	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1000	Ph	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1001	CH ₃ O	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1002	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1003	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1004	CH ₂ =CHCH ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1005	HCCCH ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1006	CF ₃	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1007	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1008	(CH ₃) ₂ N	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1009	PhO	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1010	PhS	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1011	PhSO	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1012	PhSO ₂	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1013	CN	CH ₃	CH ₃	H	OH	CHC(O)OCH ₂ CH ₃
B1014	CH ₃	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1015	CH ₃ CH ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1016	CH ₃ CH ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1017	(CH ₃) ₂ CH	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1018	(CH ₃) ₃ C	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1019	CH ₃ S	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1020	CH ₃ SO	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1021	CH ₃ SO ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1022	Ph	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1023	CH ₃ O	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1024	CH ₃ OC(O)	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1025	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1026	CH ₂ =CHCH ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1027	HCCCH ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1028	CF ₃	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1029	(CH ₃) ₂ NSO ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1030	(CH ₃) ₂ N	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1031	PhO	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1032	PhS	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1033	PhSO	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1034	PhSO ₂	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1035	CN	CH ₃	CH ₃	CH ₃	OH	CHC(O)OCH ₂ CH ₃
B1036	CH ₃ CH ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1037	CH ₃ CH ₂ CH ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1038	(CH ₃) ₂ CH	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1039	(CH ₃) ₃ C	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1040	CH ₃ S	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1041	CH ₃ SO	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1042	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1043	Ph	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1044	CH ₃ O	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1045	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃

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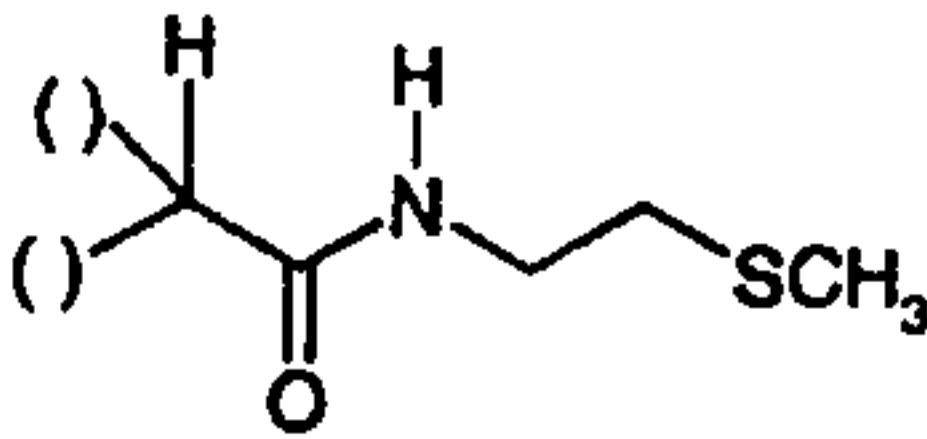
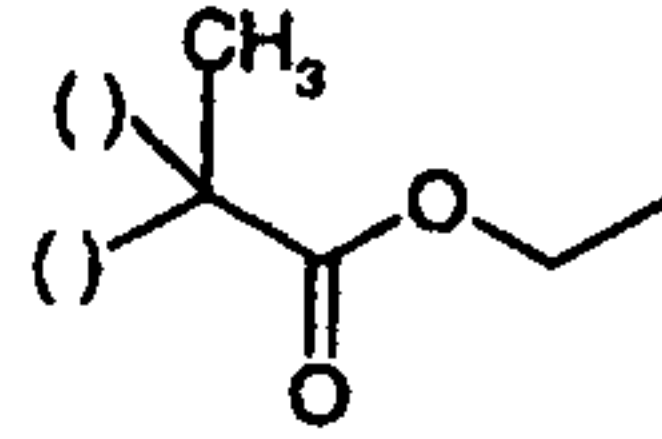
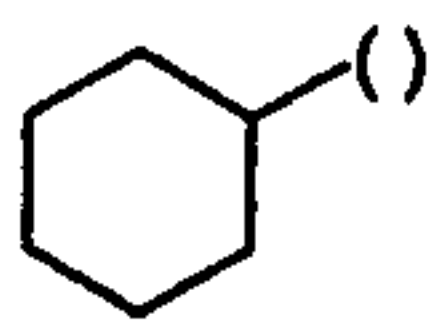
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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1046	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1047	CH ₂ =CHCH ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1048	HCCCH ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1049	CF ₃	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1050	(CH ₃) ₂ NSO ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1051	(CH ₃) ₂ N	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1052	PhO	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1053	PhS	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1054	PhSO	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1055	PhSO ₂	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1056	CN	CH ₃ CH ₂	H	H	OH	CHC(O)OCH ₂ CH ₃
B1057	CH ₃ OC(O)	H	H	H	OH	CHPh
B1058	H	H	H	H	OH	CHPh
B1059	H	H	H	H	OH	CH(CH ₂ CH ₃)
B1060	H	H	H	H	OH	CH(CH ₂ CH ₂ CH ₃)
B1061	H	H	H	H	OH	CH(CH(CH ₃) ₂)
B1062	H	H	H	H	OH	CH(C(CH ₃) ₃)
B1063	H	H	H	H	OH	C(CH ₃) ₂
B1064	H	H	H	H	OH	CH(CF ₃)
B1065	CH ₃ OC(O)	H	H	H	OH	C(CH ₃)(CF ₃)
B1066	H	H	H	H	OH	C(CH ₃)(CF ₃)
B1067	CH ₃ OC(O)	CH ₃ O	H	H	OH	CH ₂
B1068	H	CH ₃ O	H	H	OH	CH ₂
B1069	CH ₃ O	CH ₃ OC(O)	H	CH ₃	OH	CH ₂
B1070	CH ₃ O	H	CH ₃	H	OH	CH ₂
B1071	Cl	H	H	H	OH	CH ₂
B1072	F	H	H	H	OH	CH ₂
B1073	H	H	H	H	OH	CH(OCH ₃) ₂
B1074	H	H	H	H	OH	CH ₂ OSO ₂ CH ₃
B1075	CH ₃	CH ₃	CH ₃	CH ₃	OH	S(O)
B1076	ClCH ₂ CH ₂	H	H	H	OH	CH ₂
B1077	HO(CH ₂) ₂	H	H	H	OH	CH ₂
B1078	MsO(CH ₂) ₂	H	H	H	OH	CH ₂

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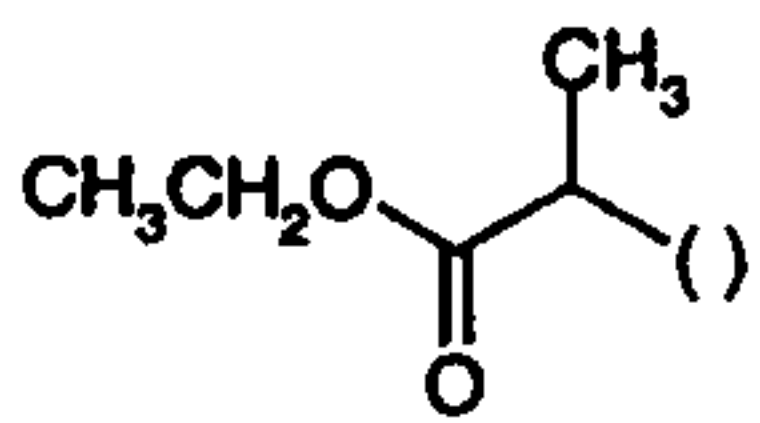
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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1079	HOCH(CH ₃)CH ₂	H	H	H	OH	CH ₂
B1080	MsOCH(CH ₃)CH ₂	H	H	H	OH	CH ₂
B1081	(CH ₃) ₂ CH	H	CH ₃	CH ₃	OH	CH ₂
B1082	HCCCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1083	H ₂ C=CCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1084	H ₂ C=C(CH ₃)	H	H	H	OH	CHCH ₃
B1085	H	H	H	H	OH	CHCONHCH ₂ Ph
B1086	H	H	H	H	OH	
B1087	CH ₃ OC(O)	CH ₃	H	H	OH	C(CH ₃) ₂
B1088	H	H	H	H	OH	
B1089	CH ₃ CH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1090	CH ₃ OC(O)	H	H	H	OH	CF ₃ CH ₂ CH ₂
B1091	CH ₃ CH ₂ S	CH ₃ CH ₂	CH ₃	H	OH	CH ₂
B1092	CH ₃ S	Ph	CH ₃	H	OH	CH ₂
B1093	CH ₃ CH ₂	CH ₃ CH ₂	CH ₃	H	OH	CH ₂
B1094	CH ₃ OC(O)	H	H	H	OH	C(CH ₃) ₂
B1095	CH ₃	H	H	H	OH	C(CH ₃) ₂
B1096	H	H	H	H	OH	NCOCH ₂ SCH ₃
B1097		H	H	H	OH	CH ₂
B1098	1,1-dimethylvinyl	H	H	H	OH	CH ₂
B1099		H	H	H	OH	CH ₂
B1100	H	H	H	H	-ONH+(CH ₂ CH ₃) ₃	CH ₂
B1101	H	H	H	H	-ONH+(CH ₂ CH ₃) ₃	CH(CH ₃)
B1102	H	H	H	H	PhS	CH ₂
B1103	H	H	H	H	PhSO	CH ₂
B1104	H	H	H	H	PhSO ₂	CH ₂
B1105	CH ₃	CH ₃	CH ₃	CH ₃	Cl	C=O
B1106	H	H	H	H	OH	CHCH ₂ CH(CH ₃) ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1107	CH ₃	CH ₃	CH ₃	CH ₃	CH ₃ C(O)O	C=O
B1108	CH ₃ OC(O)CH ₂	H	H	H	OH	CH ₂
B1109	CH ₃ OC(O)CH ₂	CH ₃	H	H	OH	CH ₂
B1110	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1111	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1112	CH ₃ OC(O)CH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1113	CH ₃ OC(O)CH ₂	H	H	H	OH	CH(CH ₃)
B1114	CH ₃ OC(O)CH ₂	CH ₃	H	H	OH	CH(CH ₃)
B1115	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	H	OH	CH(CH ₃)
B1116	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	CH(CH ₃)
B1117	CH ₃ OC(O)CH ₂	H	CH ₃	CH ₃	OH	CH(CH ₃)
B1118	CH ₃ OC(O)CH ₂	H	H	H	OH	C(CH ₃) ₂
B1119	CH ₃ OC(O)CH ₂	CH ₃	H	H	OH	C(CH ₃) ₂
B1120	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	H	OH	C(CH ₃) ₂
B1121	CH ₃ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	C(CH ₃) ₂
B1122	CH ₃ OC(O)CH ₂	H	CH ₃	CH ₃	OH	C(CH ₃) ₂
B1123	CH ₃ CH ₂ OC(O)CH ₂	H	H	H	OH	CH ₂
B1124	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	H	H	OH	CH ₂
B1125	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1126	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1127	CH ₃ CH ₂ OC(O)CH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1128	CH ₃ CH ₂ OC(O)CH ₂	H	H	H	OH	CH(CH ₃)
B1129	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	H	H	OH	CH(CH ₃)
B1130	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	H	OH	CH(CH ₃)
B1131	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	CH(CH ₃)
B1132	CH ₃ CH ₂ OC(O)CH ₂	H	CH ₃	CH ₃	OH	CH(CH ₃)
B1133	CH ₃ CH ₂ OC(O)CH ₂	H	H	H	OH	C(CH ₃) ₂
B1134	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	H	H	OH	C(CH ₃) ₂
B1135	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	H	OH	C(CH ₃) ₂
B1136	CH ₃ CH ₂ OC(O)CH ₂	CH ₃	CH ₃	CH ₃	OH	C(CH ₃) ₂
B1137	CH ₃ CH ₂ OC(O)CH ₂	H	CH ₃	CH ₃	OH	C(CH ₃) ₂
B1138		CH ₃	H	H	OH	CH ₂

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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1139	CH ₃ SCH ₂	H	H	H	OH	CH ₂
B1140	CH ₃ SCH ₂	CH ₃	H	H	OH	CH ₂
B1141	CH ₃ SCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1142	CH ₃ SCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1143	CH ₃ SCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1144	CH ₃ SOCH ₂	H	H	H	OH	CH ₂
B1145	CH ₃ SOCH ₂	CH ₃	H	H	OH	CH ₂
B1146	CH ₃ SOCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1147	CH ₃ SOCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1148	CH ₃ SOCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1149	CH ₃ SO ₂ CH ₂	H	H	H	OH	CH ₂
B1150	CH ₃ SO ₂ CH ₂	CH ₃	H	H	OH	CH ₂
B1151	CH ₃ SO ₂ CH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1152	CH ₃ SO ₂ CH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1153	CH ₃ SO ₂ CH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1154	HOCH ₂	H	H	H	OH	CH ₂
B1155	HOCH ₂	CH ₃	H	H	OH	CH ₂
B1156	HOCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1157	HOCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1158	HOCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1159	NCCH ₂	H	H	H	OH	CH ₂
B1160	NCCH ₂	CH ₃	H	H	OH	CH ₂
B1161	NCCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1162	NCCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1163	NCCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1164	CH ₃ C(O)OCH ₂	H	H	H	OH	CH ₂
B1165	CH ₃ C(O)OCH ₂	CH ₃	H	H	OH	CH ₂
B1166	CH ₃ C(O)OCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1167	CH ₃ C(O)OCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1168	CH ₃ C(O)OCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1169	CH ₃ OCH ₂	H	H	H	OH	CH ₂
B1170	CH ₃ OCH ₂	CH ₃	H	H	OH	CH ₂
B1171	CH ₃ OCH ₂	CH ₃	CH ₃	H	OH	CH ₂

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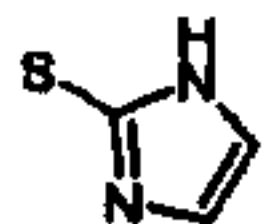
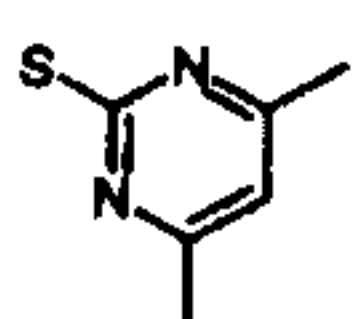
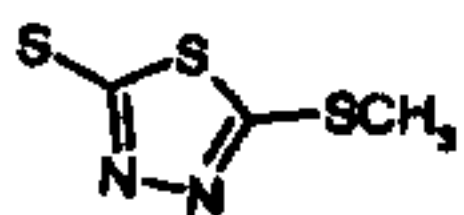
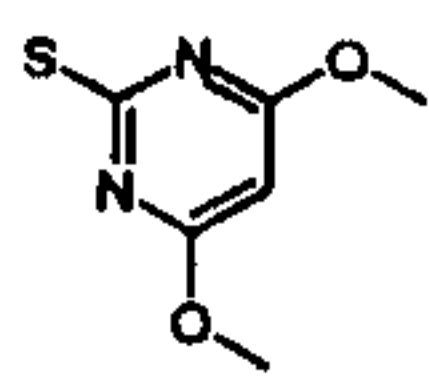
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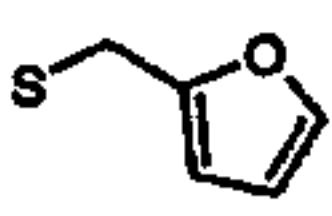
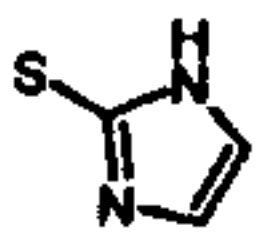
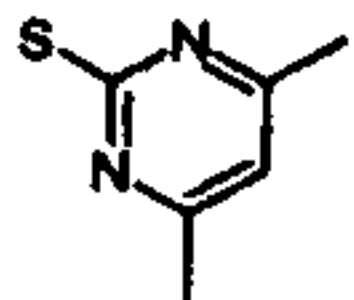
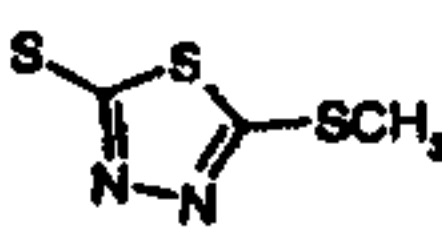
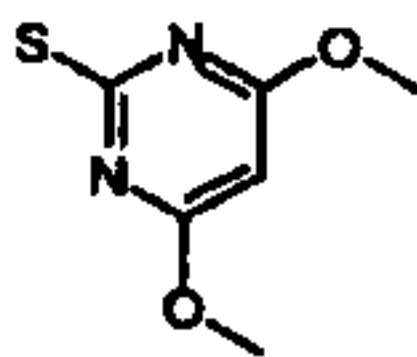
Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1172	CH ₃ OCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1173	CH ₃ OCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1174	PhCH ₂	H	H	H	OH	CH ₂
B1175	PhCH ₂	CH ₃	H	H	OH	CH ₂
B1176	PhCH ₂	CH ₃	CH ₃	H	OH	CH ₂
B1177	PhCH ₂	CH ₃	CH ₃	CH ₃	OH	CH ₂
B1178	PhCH ₂	H	CH ₃	CH ₃	OH	CH ₂
B1179	H	H	H	H	O-K ⁺	CH ₂
B1180	H	H	H	H	S(CH ₂) ₇ CH ₃	CH ₂
B1181	H	H	H	H	S(CH ₂) ₇ CH ₃	CH ₂
B1182	H	H	H	H	SO(CH ₂) ₇ CH ₃	CH ₂
B1183	H	H	H	H	SO ₂ (CH ₂) ₇ CH ₃	CH ₂
B1184	H	H	H	H	NHSO ₂ CH ₃	CH ₂
B1185	H	H	H	H	NH(CO)S(CH ₂) ₇ CH ₃	CH ₂
B1186	H	H	H	H	Cl	CH ₂
B1187	H	H	H	H	NH ₂	CH ₂
B1188	H	H	H	H	OC(O)C(CH ₃) ₃	CH ₂
B1189	H	H	H	H	OC(O)CH ₃	CH ₂
B1190	H	H	H	H	OC(O)Ph	CH ₂
B1191	H	H	H	H	OC(O)-cyclopropyl	CH ₂
B1192	H	H	H	H	OC(O)CH ₂ CH ₃	CH ₂
B1193	H	H	H	H	OC(O)CH=CH ₂	CH ₂
B1194	H	H	H	H	OC(O)CH=CHCH ₃	CH ₂
B1195	H	H	H	H	OC(O)SCH ₃	CH ₂
B1196	H	H	H	H	OC(O)S(CH ₂) ₇ CH ₃	CH ₂
B1197	H	H	H	H	OC(O)OCH ₂ CH ₃	CH ₂
B1198	H	H	H	H	OC(O)N(CH ₂ CH ₃) ₂	CH ₂
B1199	H	H	H	H	S-(4-Cl-phenyl)	CH ₂
B1200	H	H	H	H	SO-(4-Cl-phenyl)	CH ₂
B1201	H	H	H	H	SO ₂ -(4-Cl-phenyl)	CH ₂
B1202	H	H	H	H	S-(4-CF ₃ -phenyl)	CH ₂
B1203	H	H	H	H	SO-(4-CF ₃ -phenyl)	CH ₂
B1204	H	H	H	H	SO ₂ -(4-CF ₃ -phenyl)	CH ₂

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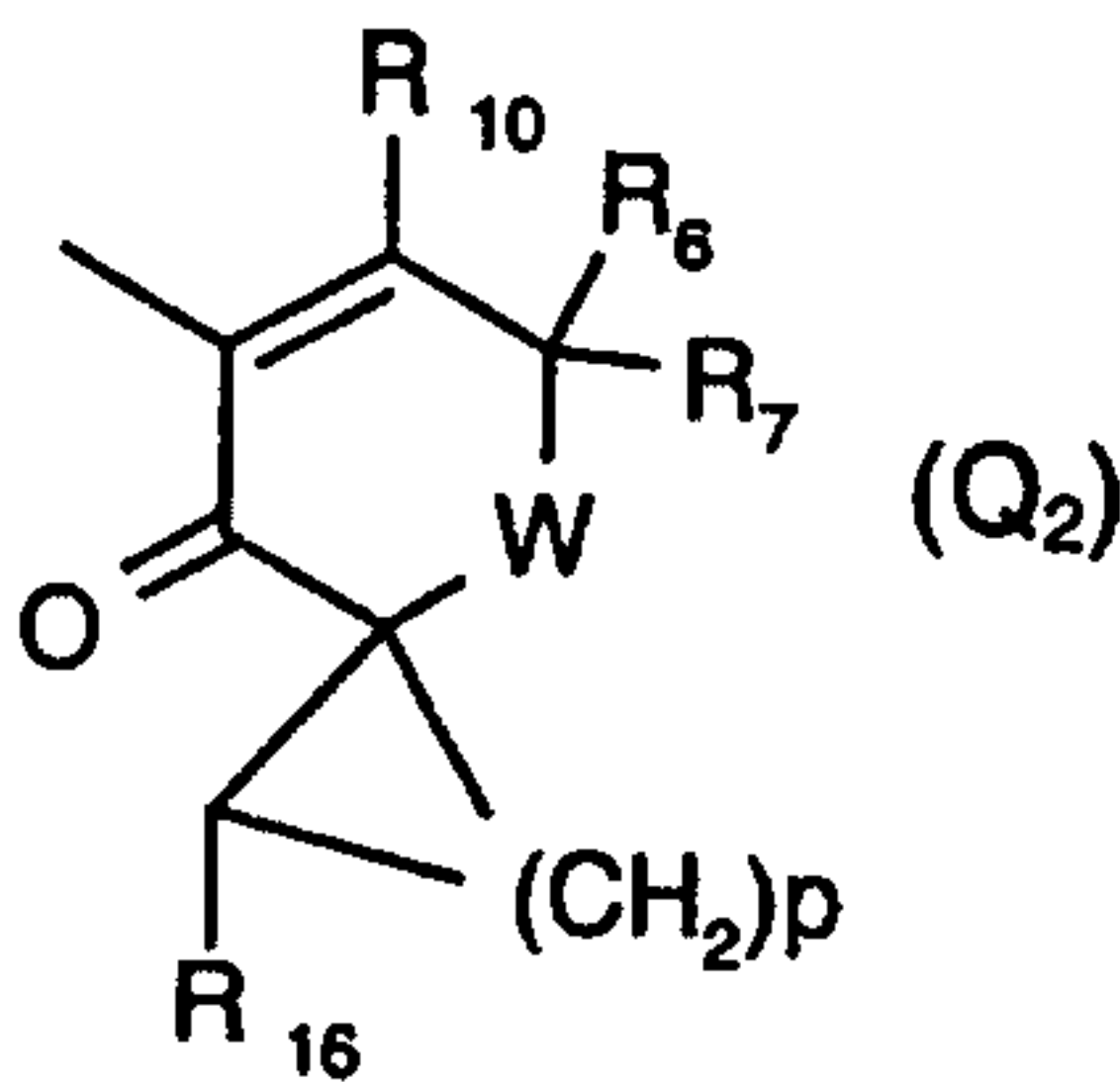
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Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1205	H	H	H	H	S-(4-NO ₂ -phenyl)	CH ₂
B1206	H	H	H	H	SO-(4-NO ₂ -phenyl)	CH ₂
B1207	H	H	H	H	SO ₂ -(4-NO ₂ -phenyl)	CH ₂
B1208	H	H	H	H		CH ₂
B1209	H	H	H	H		CH ₂
B1210	H	H	H	H		CH ₂
B1211	H	H	H	H		CH ₂
B1212	H	H	H	H		CH ₂
B1179	CH ₃	CH ₃	H	H	O-K ⁺	CH ₂
B1180	CH ₃	CH ₃	H	H	S(CH ₂) ₇ CH ₃	CH ₂
B1181	CH ₃	CH ₃	H	H	S(CH ₂) ₇ CH ₃	CH ₂
B1182	CH ₃	CH ₃	H	H	SO(CH ₂) ₇ CH ₃	CH ₂
B1183	CH ₃	CH ₃	H	H	SO ₂ (CH ₂) ₇ CH ₃	CH ₂
B1184	CH ₃	CH ₃	H	H	NHSO ₂ CH ₃	CH ₂
B1185	CH ₃	CH ₃	H	H	NH(CO)S(CH ₂) ₇ CH ₃	CH ₂
B1186	CH ₃	CH ₃	H	H	Cl	CH ₂
B1187	CH ₃	CH ₃	H	H	NH ₂	CH ₂
B1188	CH ₃	CH ₃	H	H	OC(O)C(CH ₃) ₃	CH ₂
B1189	CH ₃	CH ₃	H	H	OC(O)CH ₃	CH ₂
B1190	CH ₃	CH ₃	H	H	OC(O)Ph	CH ₂
B1191	CH ₃	CH ₃	H	H	OC(O)-cyclopropyl	CH ₂
B1192	CH ₃	CH ₃	H	H	OC(O)CH ₂ CH ₃	CH ₂
B1193	CH ₃	CH ₃	H	H	OC(O)CH=CH ₂	CH ₂
B1194	CH ₃	CH ₃	H	H	OC(O)CH=CHCH ₃	CH ₂
B1195	CH ₃	CH ₃	H	H	OC(O)SCH ₃	CH ₂
B1196	CH ₃	CH ₃	H	H	OC(O)S(CH ₂) ₇ CH ₃	CH ₂
B1197	CH ₃	CH ₃	H	H	OC(O)OCH ₂ CH ₃	CH ₂
B1198	CH ₃	CH ₃	H	H	OC(O)N(CH ₂ CH ₃) ₂	CH ₂
B1199	CH ₃	CH ₃	H	H	S-(4-Cl-phenyl)	CH ₂
B1200	CH ₃	CH ₃	H	H	SO-(4-Cl-phenyl)	CH ₂

Radical	R ₆	R ₇	R ₈	R ₉	R ₁₀	W
B1201	CH ₃	CH ₃	H	H	SO ₂ -(4-Cl-phenyl)	CH ₂
B1202	CH ₃	CH ₃	H	H	S-(4-CF ₃ -phenyl)	CH ₂
B1203	CH ₃	CH ₃	H	H	SO-(4-CF ₃ -phenyl)	CH ₂
B1204	CH ₃	CH ₃	H	H	SO ₂ -(4-CF ₃ -phenyl)	CH ₂
B1205	CH ₃	CH ₃	H	H	S-(4-NO ₂ -phenyl)	CH ₂
B1206	CH ₃	CH ₃	H	H	SO-(4-NO ₂ -phenyl)	CH ₂
B1207	CH ₃	CH ₃	H	H	SO ₂ -(4-NO ₂ -phenyl)	CH ₂
B1208	CH ₃	CH ₃	H	H		CH ₂
B1209	CH ₃	CH ₃	H	H		CH ₂
B1210	CH ₃	CH ₃	H	H		CH ₂
B1211	CH ₃	CH ₃	H	H		CH ₂
B1212	CH ₃	CH ₃	H	H		CH ₂
B1213	H	H	H	H	OH	-CH ₂ CH ₂ -
B1214	CH ₃	H	H	H	OH	-CH ₂ CH ₂ -
B1215	CH ₃	CH ₃	H	H	OH	-CH ₂ CH ₂ -
B1216	CH ₃	CH ₃	CH ₃	H	OH	-CH ₂ CH ₂ -
B1217	CH ₃	CH ₃	CH ₃	CH ₃	OH	-CH ₂ CH ₂ -

In Table 3 which follows, Q is Q₂



and Q₂ the radicals C which follow:

Table 3: Radicals C:

Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
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Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
C1	H	H	H	OH	1	CH ₂
C2	CH ₃	H	H	OH	1	CH ₂
C3	CH ₃ CH ₂	H	H	OH	1	CH ₂
C4	CH ₃ CH ₂ CH ₂	H	H	OH	1	CH ₂
C5	(CH ₃) ₂ CH	H	H	OH	1	CH ₂
C6	(CH ₃) ₃ C	H	H	OH	1	CH ₂
C7	CH ₃ S	H	H	OH	1	CH ₂
C8	CH ₃ SO	H	H	OH	1	CH ₂
C9	CH ₃ SO ₂	H	H	OH	1	CH ₂
C10	Ph	H	H	OH	1	CH ₂
C11	CH ₃ O	H	H	OH	1	CH ₂
C12	CH ₃ OC(O)	H	H	OH	1	CH ₂
C13	CH ₃ CH ₂ OC(O)	H	H	OH	1	CH ₂
C14	CH ₂ =CHCH ₂	H	H	OH	1	CH ₂
C15	HCCCH ₂	H	H	OH	1	CH ₂
C16	CF ₃	H	H	OH	1	CH ₂
C17	(CH ₃) ₂ NSO ₂	H	H	OH	1	CH ₂
C18	(CH ₃) ₂ N	H	H	OH	1	CH ₂
C19	PhO	H	H	OH	1	CH ₂
C20	PhS	H	H	OH	1	CH ₂
C21	PhSO	H	H	OH	1	CH ₂
C22	PhSO ₂	H	H	OH	1	CH ₂
C23	CN	H	H	OH	1	CH ₂
C24	CH ₃	CH ₃	H	OH	1	CH ₂
C25	CH ₃ CH ₂	CH ₃	H	OH	1	CH ₂
C26	CH ₃ CH ₂ CH ₂	CH ₃	H	OH	1	CH ₂
C27	(CH ₃) ₂ CH	CH ₃	H	OH	1	CH ₂
C28	(CH ₃) ₃ C	CH ₃	H	OH	1	CH ₂
C29	CH ₃ S	CH ₃	H	OH	1	CH ₂
C30	CH ₃ SO	CH ₃	H	OH	1	CH ₂
C31	CH ₃ SO ₂	CH ₃	H	OH	1	CH ₂
C32	Ph	CH ₃	H	OH	1	CH ₂

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Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
C33	CH ₃ O	CH ₃	H	OH	1	CH ₂
C34	CH ₃ OC(O)	CH ₃	H	OH	1	CH ₂
C35	CH ₃ CH ₂ OC(O)	CH ₃	H	OH	1	CH ₂
C36	CH ₂ =CHCH ₂	CH ₃	H	OH	1	CH ₂
C37	HCCCH ₂	CH ₃	H	OH	1	CH ₂
C38	CF ₃	CH ₃	H	OH	1	CH ₂
C39	(CH ₃) ₂ NSO ₂	CH ₃	H	OH	1	CH ₂
C40	(CH ₃) ₂ N	CH ₃	H	OH	1	CH ₂
C41	PhO	CH ₃	H	OH	1	CH ₂
C42	PhS	CH ₃	H	OH	1	CH ₂
C43	PhSO	CH ₃	H	OH	1	CH ₂
C44	PhSO ₂	CH ₃	H	OH	1	CH ₂
C45	CN	CH ₃	H	OH	1	CH ₂
C46	H	H	H	OH	4	CH ₂
C47	CH ₃	H	H	OH	4	CH ₂
C48	CH ₃ CH ₂	H	H	OH	4	CH ₂
C49	CH ₃ CH ₂ CH ₂	H	H	OH	4	CH ₂
C50	(CH ₃) ₂ CH	H	H	OH	4	CH ₂
C51	(CH ₃) ₃ C	H	H	OH	4	CH ₂
C52	CH ₃ S	H	H	OH	4	CH ₂
C53	CH ₃ SO	H	H	OH	4	CH ₂
C54	CH ₃ SO ₂	H	H	OH	4	CH ₂
C55	Ph	H	H	OH	4	CH ₂
C56	CH ₃ O	H	H	OH	4	CH ₂
C57	CH ₃ OC(O)	H	H	OH	4	CH ₂
C58	CH ₃ CH ₂ OC(O)	H	H	OH	4	CH ₂
C59	CH ₂ =CHCH ₂	H	H	OH	4	CH ₂
C60	HCCCH ₂	H	H	OH	4	CH ₂
C61	CF ₃	H	H	OH	4	CH ₂
C62	(CH ₃) ₂ NSO ₂	H	H	OH	4	CH ₂
C63	(CH ₃) ₂ N	H	H	OH	4	CH ₂
C64	PhO	H	H	OH	4	CH ₂
C65	PhS	H	H	OH	4	CH ₂

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Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
C66	PhSO	H	H	OH	4	CH ₂
C67	PhSO ₂	H	H	OH	4	CH ₂
C68	CN	H	H	OH	4	CH ₂
C69	CH ₃	CH ₃	H	OH	4	CH ₂
C70	CH ₃ CH ₂	CH ₃	H	OH	4	CH ₂
C71	CH ₃ CH ₂ CH ₂	CH ₃	H	OH	4	CH ₂
C72	(CH ₃) ₂ CH	CH ₃	H	OH	4	CH ₂
C73	(CH ₃) ₃ C	CH ₃	H	OH	4	CH ₂
C74	CH ₃ S	CH ₃	H	OH	4	CH ₂
C75	CH ₃ SO	CH ₃	H	OH	4	CH ₂
C76	CH ₃ SO ₂	CH ₃	H	OH	4	CH ₂
C77	Ph	CH ₃	H	OH	4	CH ₂
C78	CH ₃ O	CH ₃	H	OH	4	CH ₂
C79	CH ₃ OC(O)	CH ₃	H	OH	4	CH ₂
C80	CH ₃ CH ₂ OC(O)	CH ₃	H	OH	4	CH ₂
C81	CH ₂ =CHCH ₂	CH ₃	H	OH	4	CH ₂
C82	HCCCH ₂	CH ₃	H	OH	4	CH ₂
C83	CF ₃	CH ₃	H	OH	4	CH ₂
C84	(CH ₃) ₂ NSO ₂	CH ₃	H	OH	4	CH ₂
C85	(CH ₃) ₂ N	CH ₃	H	OH	4	CH ₂
C86	PhO	CH ₃	H	OH	4	CH ₂
C87	PhS	CH ₃	H	OH	4	CH ₂
C88	PhSO	CH ₃	H	OH	4	CH ₂
C89	PhSO ₂	CH ₃	H	OH	4	CH ₂
C90	CN	CH ₃	H	OH	4	CH ₂
C91	H	H	H	OH	3	CH ₂
C92	CH ₃	H	H	OH	3	CH ₂
C93	CH ₃ CH ₂	H	H	OH	3	CH ₂
C94	CH ₃ CH ₂ CH ₂	H	H	OH	3	CH ₂
C95	(CH ₃) ₂ CH	H	H	OH	3	CH ₂
C96	(CH ₃) ₃ C	H	H	OH	3	CH ₂
C97	CH ₃ S	H	H	OH	3	CH ₂
C98	CH ₃ SO	H	H	OH	3	CH ₂

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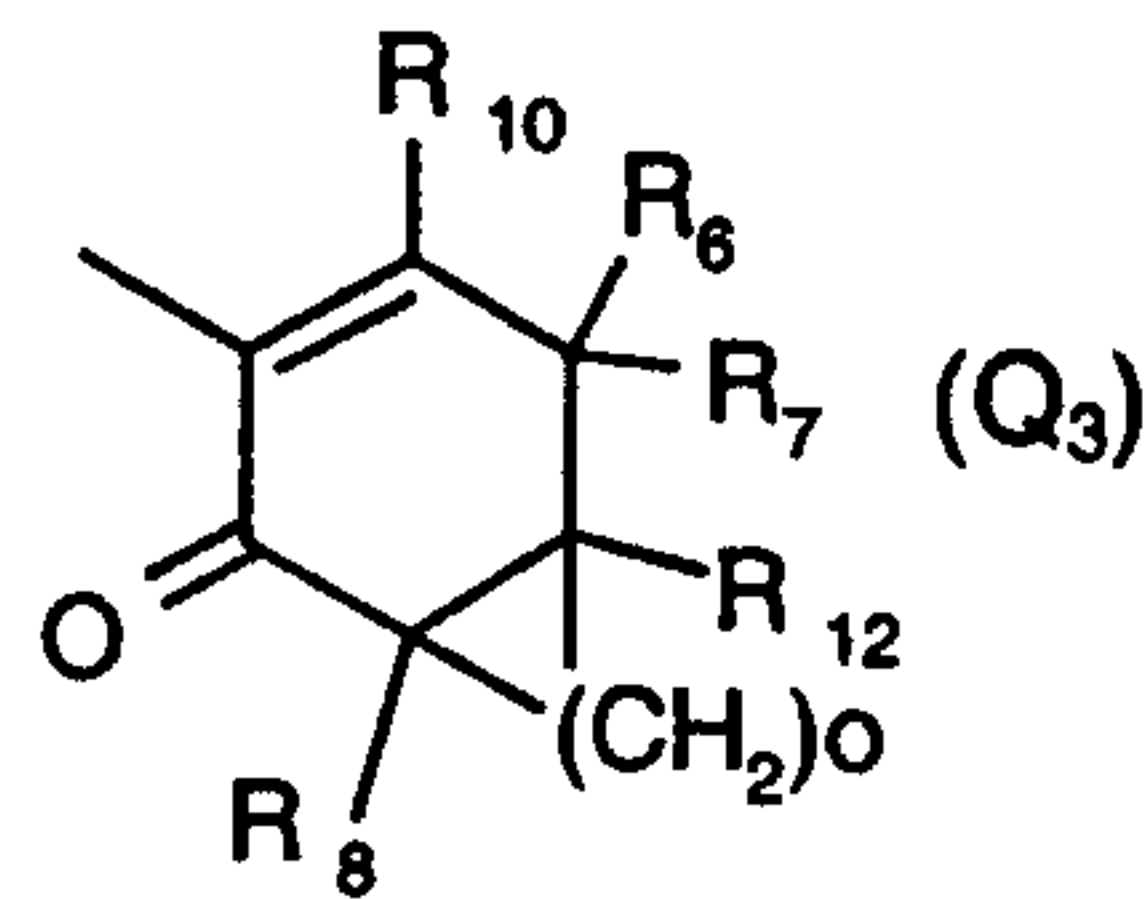
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Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
C99	CH ₃ SO ₂	H	H	OH	3	CH ₂
C100	Ph	H	H	OH	3	CH ₂
C101	CH ₃ O	H	H	OH	3	CH ₂
C102	CH ₃ OC(O)	H	H	OH	3	CH ₂
C103	CH ₃ CH ₂ OC(O)	H	H	OH	3	CH ₂
C104	CH ₂ =CHCH ₂	H	H	OH	3	CH ₂
C105	HCCCH ₂	H	H	OH	3	CH ₂
C106	CF ₃	H	H	OH	3	CH ₂
C107	(CH ₃) ₂ NSO ₂	H	H	OH	3	CH ₂
C108	(CH ₃) ₂ N	H	H	OH	3	CH ₂
C109	PhO	H	H	OH	3	CH ₂
C110	PhS	H	H	OH	3	CH ₂
C111	PhSO	H	H	OH	3	CH ₂
C112	PhSO ₂	H	H	OH	3	CH ₂
C113	CN	H	H	OH	3	CH ₂
C114	CH ₃	CH ₃	H	OH	3	CH ₂
C115	CH ₃ CH ₂	CH ₃	H	OH	3	CH ₂
C116	CH ₃ CH ₂ CH ₂	CH ₃	H	OH	3	CH ₂
C117	(CH ₃) ₂ CH	CH ₃	H	OH	3	CH ₂
C118	(CH ₃) ₃ C	CH ₃	H	OH	3	CH ₂
C119	CH ₃ S	CH ₃	H	OH	3	CH ₂
C120	CH ₃ SO	CH ₃	H	OH	3	CH ₂
C121	CH ₃ SO ₂	CH ₃	H	OH	3	CH ₂
C122	Ph	CH ₃	H	OH	3	CH ₂
C123	CH ₃ O	CH ₃	H	OH	3	CH ₂
C124	CH ₃ OC(O)	CH ₃	H	OH	3	CH ₂
C125	CH ₃ CH ₂ OC(O)	CH ₃	H	OH	3	CH ₂
C126	CH ₂ =CHCH ₂	CH ₃	H	OH	3	CH ₂
C127	HCCCH ₂	CH ₃	H	OH	3	CH ₂
C128	CF ₃	CH ₃	H	OH	3	CH ₂
C129	(CH ₃) ₂ NSO ₂	CH ₃	H	OH	3	CH ₂
C130	(CH ₃) ₂ N	CH ₃	H	OH	3	CH ₂
C131	PhO	CH ₃	H	OH	3	CH ₂

Radical	R ₆	R ₇	R ₁₆	R ₁₀	p	W
C132	PhS	CH ₃	H	OH	3	CH ₂
C133	PhSO	CH ₃	H	OH	3	CH ₂
C134	PhSO ₂	CH ₃	H	OH	3	CH ₂
C135	CN	CH ₃	H	OH	3	CH ₂
C136	CH ₃ CH ₂	CH ₃ CH ₂	H	OH	1	CH ₂
C137	H	H	H	OH	1	CH(CH ₃)
C138	CH ₃	H	H	OH	1	CH(CH ₃)
C139	CH ₃	CH ₃	H	OH	1	CH(CH ₃)
C140	CH ₂ CH ₃	H	H	OH	1	CH(CH ₃)
C141	CH ₂ CH ₃	CH ₃	H	OH	1	CH(CH ₃)
C142	CH ₃ CH ₂	CH ₃ CH ₂	H	OH	1	CH(CH ₃)
C143	H	H	CH ₃	OH	1	CH ₂
C144	CH ₃	CH ₃	CH ₃	OH	1	CH ₂
C145	CH ₃ CH ₂	CH ₃ CH ₂	CH ₃	OH	1	CH ₂
C146	H	H	H	OH	2	CH ₂
C147	CH ₃	CH ₃	H	OH	2	CH ₂
C148	CH ₃ CH ₂	CH ₃ CH ₂	H	OH	2	CH ₂
C149	H	H	H	OH	5	CH ₂
C150	CH ₃	CH ₃	H	OH	5	CH ₂
C151	CH ₃ CH ₂	CH ₃ CH ₂	H	OH	5	CH ₂
C152	CH ₃	H	H	OH	2	CH ₂

In Table 4 which follows, Q is Q₃



and Q₃ the following radicals D:

Table 4: Radicals D:

Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
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Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
D1	H	H	H	H	OH	2
D2	CH ₃	H	H	H	OH	2
D3	CH ₃ CH ₂	H	H	H	OH	2
D4	CH ₃ CH ₂ CH ₂	H	H	H	OH	2
D5	(CH ₃) ₂ CH	H	H	H	OH	2
D6	(CH ₃) ₃ C	H	H	H	OH	2
D7	CH ₃ S	H	H	H	OH	2
D8	CH ₃ SO	H	H	H	OH	2
D9	CH ₃ SO ₂	H	H	H	OH	2
D10	Ph	H	H	H	OH	2
D11	CH ₃ O	H	H	H	OH	2
D12	CH ₂ =CHCH ₂	H	H	H	OH	2
D13	HCCCH ₂	H	H	H	OH	2
D14	CF ₃	H	H	H	OH	2
D15	PhO	H	H	H	OH	2
D16	PhS	H	H	H	OH	2
D17	PhSO	H	H	H	OH	2
D18	PhSO ₂	H	H	H	OH	2
D19	CH ₃	CH ₃	H	H	OH	2
D20	CH ₃ CH ₂	CH ₃	H	H	OH	2
D21	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	2
D22	(CH ₃) ₂ CH	CH ₃	H	H	OH	2
D23	(CH ₃) ₃ C	CH ₃	H	H	OH	2
D24	CH ₃ S	CH ₃	H	H	OH	2
D25	CH ₃ SO	CH ₃	H	H	OH	2
D26	CH ₃ SO ₂	CH ₃	H	H	OH	2
D27	Ph	CH ₃	H	H	OH	2
D28	CH ₃ O	CH ₃	H	H	OH	2
D29	CH ₂ =CHCH ₂	CH ₃	H	H	OH	2
D30	HCCCH ₂	CH ₃	H	H	OH	2
D31	CF ₃	CH ₃	H	H	OH	2
D32	PhO	CH ₃	H	H	OH	2

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Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
D33	PhS	CH ₃	H	H	OH	2
D34	PhSO	CH ₃	H	H	OH	2
D35	PhSO ₂	CH ₃	H	H	OH	2
D36	H	H	H	H	OH	3
D37	CH ₃	H	H	H	OH	3
D38	CH ₃ CH ₂	H	H	H	OH	3
D39	CH ₃ CH ₂ CH ₂	H	H	H	OH	3
D40	(CH ₃) ₂ CH	H	H	H	OH	3
D41	(CH ₃) ₃ C	H	H	H	OH	3
D42	CH ₃ S	H	H	H	OH	3
D43	CH ₃ SO	H	H	H	OH	3
D44	CH ₃ SO ₂	H	H	H	OH	3
D45	Ph	H	H	H	OH	3
D46	CH ₃ O	H	H	H	OH	3
D47	CH ₂ =CHCH ₂	H	H	H	OH	3
D48	HCCCH ₂	H	H	H	OH	3
D49	CF ₃	H	H	H	OH	3
D50	PhO	H	H	H	OH	3
D51	PhS	H	H	H	OH	3
D52	PhSO	H	H	H	OH	3
D53	PhSO ₂	H	H	H	OH	3
D54	CH ₃	CH ₃	H	H	OH	3
D55	CH ₃ CH ₂	CH ₃	H	H	OH	3
D56	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	3
D57	(CH ₃) ₂ CH	CH ₃	H	H	OH	3
D58	(CH ₃) ₃ C	CH ₃	H	H	OH	3
D59	CH ₃ S	CH ₃	H	H	OH	3
D60	CH ₃ SO	CH ₃	H	H	OH	3
D61	CH ₃ SO ₂	CH ₃	H	H	OH	3
D62	Ph	CH ₃	H	H	OH	3
D63	CH ₃ O	CH ₃	H	H	OH	3
D64	CH ₂ =CHCH ₂	CH ₃	H	H	OH	3
D65	HCCCH ₂	CH ₃	H	H	OH	3

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Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
D66	CF ₃	CH ₃	H	H	OH	3
D67	PhO	CH ₃	H	H	OH	3
D68	PhS	CH ₃	H	H	OH	3
D69	PhSO	CH ₃	H	H	OH	3
D70	PhSO ₂	CH ₃	H	H	OH	3
D71	H	H	H	H	OH	4
D72	CH ₃	H	H	H	OH	4
D73	CH ₃ CH ₂	H	H	H	OH	4
D74	CH ₃ CH ₂ CH ₂	H	H	H	OH	4
D75	(CH ₃) ₂ CH	H	H	H	OH	4
D76	(CH ₃) ₃ C	H	H	H	OH	4
D77	CH ₃ S	H	H	H	OH	4
D78	CH ₃ SO	H	H	H	OH	4
D79	CH ₃ SO ₂	H	H	H	OH	4
D80	Ph	H	H	H	OH	4
D81	CH ₃ O	H	H	H	OH	4
D82	CH ₂ =CHCH ₂	H	H	H	OH	4
D83	HCCCH ₂	H	H	H	OH	4
D84	CF ₃	H	H	H	OH	4
D85	PhO	H	H	H	OH	4
D86	PhS	H	H	H	OH	4
D87	PhSO	H	H	H	OH	4
D88	PhSO ₂	H	H	H	OH	4
D89	CH ₃	CH ₃	H	H	OH	4
D90	CH ₃ CH ₂	CH ₃	H	H	OH	4
D91	CH ₃ CH ₂ CH ₂	CH ₃	H	H	OH	4
D92	(CH ₃) ₂ CH	CH ₃	H	H	OH	4
D93	(CH ₃) ₃ C	CH ₃	H	H	OH	4
D94	CH ₃ S	CH ₃	H	H	OH	4
D95	CH ₃ SO	CH ₃	H	H	OH	4
D96	CH ₃ SO ₂	CH ₃	H	H	OH	4
D97	Ph	CH ₃	H	H	OH	4
D98	CH ₃ O	CH ₃	H	H	OH	4

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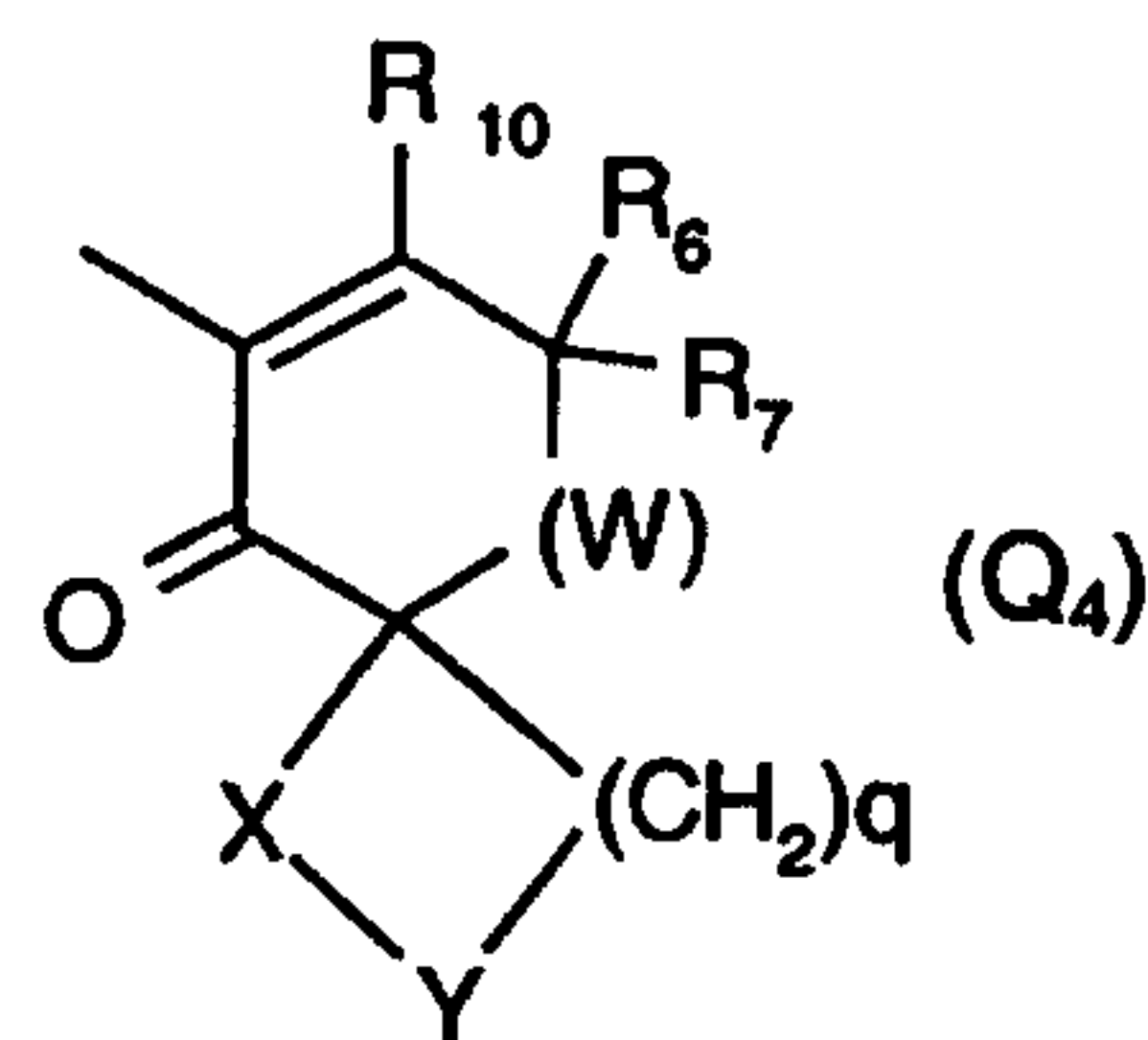
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Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
D99	CH ₂ =CHCH ₂	CH ₃	H	H	OH	4
D100	HCCCH ₂	CH ₃	H	H	OH	4
D101	CF ₃	CH ₃	H	H	OH	4
D102	PhO	CH ₃	H	H	OH	4
D103	PhS	CH ₃	H	H	OH	4
D104	PhSO	CH ₃	H	H	OH	4
D105	PhSO ₂	CH ₃	H	H	OH	4
D106	H	H	H	CH ₃	OH	4
D107	H	H	H	CH ₃	OH	3
D108	H	H	H	H	OH	1
D109	CH ₃	H	H	H	OH	1
D110	CH ₃ OC(O)	CH ₃	H	H	OH	1
D111	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	1
D112	CH ₃ O	CH ₃	H	H	OH	1
D113	CH ₃ S	CH ₃	H	H	OH	1
D114	CH ₃ SO	CH ₃	H	H	OH	1
D115	CH ₃ SO ₂	CH ₃	H	H	OH	1
D116	CH ₃ CH ₂	H	H	H	OH	1
D117	CH ₃ OC(O)	CH ₃ CH ₂	H	H	OH	1
D118	CH ₃ CH ₂ OC(O)	CH ₃ CH ₂	H	H	OH	1
D119	CH ₃ O	CH ₃ CH ₂	H	H	OH	1
D120	CH ₃ S	CH ₃ CH ₂	H	H	OH	1
D121	CH ₃ SO	CH ₃ CH ₂	H	H	OH	1
D122	CH ₃ SO ₂	CH ₃ CH ₂	H	H	OH	1
D123	CH ₃ CH ₂ S	CH ₃	H	H	OH	1
D124	CH ₃ CH ₂ SO	CH ₃	H	H	OH	1
D125	CH ₃ CH ₂ SO ₂	CH ₃	H	H	OH	1
D126	CH ₃ CH ₂ S	CH ₃ CH ₂	H	H	OH	1
D127	CH ₃ CH ₂ SO	CH ₃ CH ₂	H	H	OH	1
D128	CH ₃ CH ₂ SO ₂	CH ₃ CH ₂	H	H	OH	1
D129	H	H	CH ₃	H	OH	1
D130	CH ₃	H	CH ₃	H	OH	1
D131	CH ₃ OC(O)	CH ₃	CH ₃	H	OH	1

Radical	R ₆	R ₇	R ₈	R ₁₂	R ₁₀	o
D132	CH ₃ CH ₂ OC(O)	CH ₃	CH ₃	H	OH	1
D133	CH ₃ O	CH ₃	CH ₃	H	OH	1
D134	CH ₃ S	CH ₃	CH ₃	H	OH	1
D135	CH ₃ SO	CH ₃	CH ₃	H	OH	1
D136	CH ₃ SO ₂	CH ₃	CH ₃	H	OH	1
D137	H	H	H	CH ₃	OH	1
D138	CH ₃	H	H	CH ₃	OH	1
D139	H	H	CH ₃	CH ₃	OH	1
D140	CH ₃ CH ₂ OC(O)	CH ₃	H	H	OH	4

In Table 5 which follows, Q is Q₄



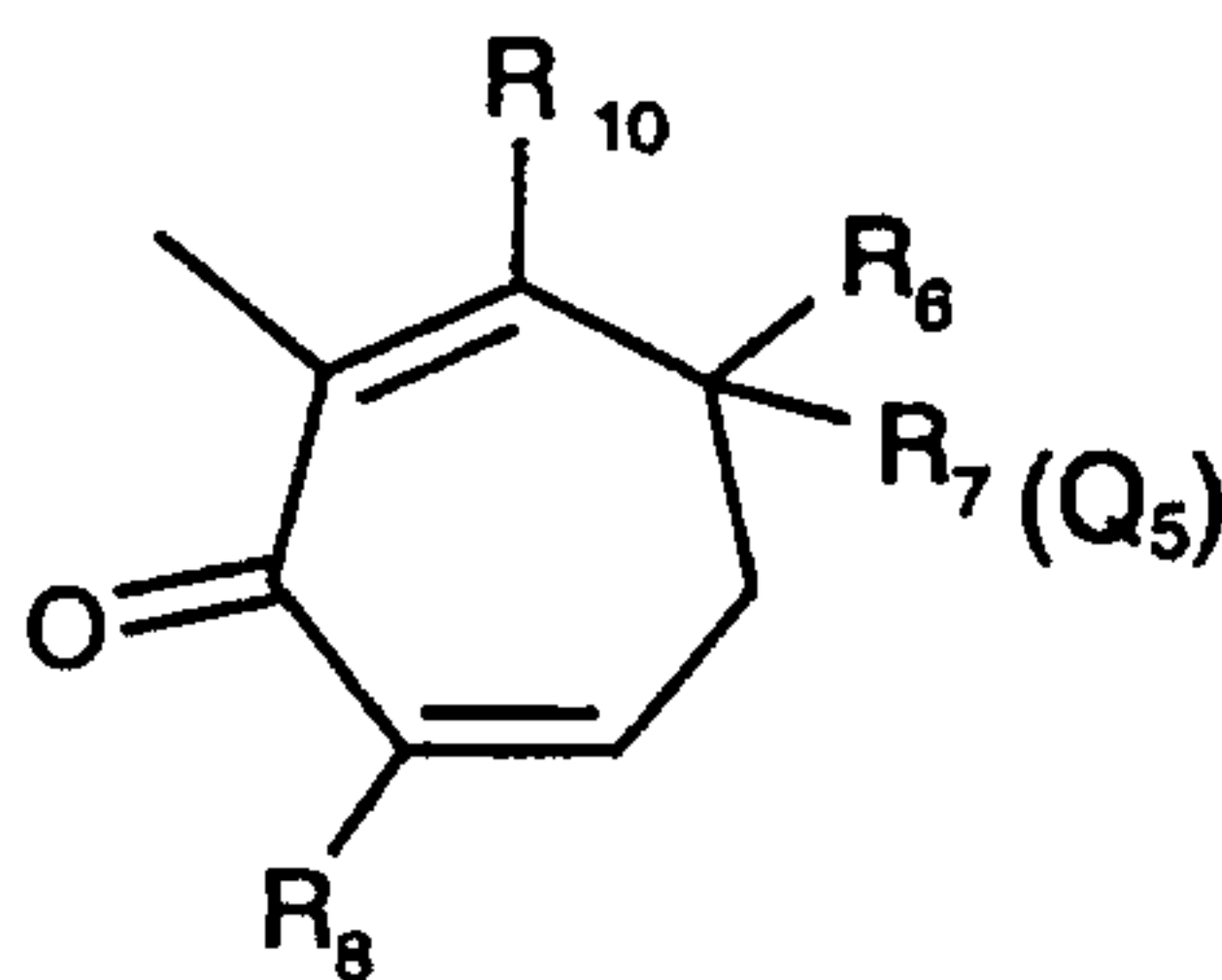
and Q₄ the following radicals E:

Table 5: Radicals E:

Radical	R ₆	R ₇	R ₁₀	X	Y	W	q
E1	H	H	OH	S	CH ₂	CH ₂	2
E2	CH ₃	H	OH	S	CH ₂	CH ₂	2
E3	CH ₃	CH ₃	OH	S	CH ₂	CH ₂	2
E4	CH ₃ OC(O)	H	OH	S	CH ₂	CH ₂	2
E5	CH ₃	CH ₃ OC(O)	OH	S	CH ₂	CH ₂	2
E6	H	H	OH	SO	CH ₂	CH ₂	2
E7	CH ₃	H	OH	SO	CH ₂	CH ₂	2
E8	CH ₃	CH ₃	OH	SO	CH ₂	CH ₂	2
E9	CH ₃ OC(O)	H	OH	SO	CH ₂	CH ₂	2
E10	CH ₃	CH ₃ OC(O)	OH	SO	CH ₂	CH ₂	2
E11	H	H	OH	SO ₂	CH ₂	CH ₂	2

Radical	R ₆	R ₇	R ₁₀	X	Y	W	q
E12	CH ₃	H	OH	SO ₂	CH ₂	CH ₂	2
E13	CH ₃	CH ₃	OH	SO ₂	CH ₂	CH ₂	2
E14	CH ₃ OC(O)	H	OH	SO ₂	CH ₂	CH ₂	2
E15	CH ₃	CH ₃ OC(O)	OH	SO ₂	CH ₂	CH ₂	2
E16	H	H	OH	CO	O	CH ₂	2
E17	CH ₃	H	OH	CO	O	CH ₂	2
E18	CH ₃	CH ₃	OH	CO	O	CH ₂	2
E19	CH ₃ OC(O)	H	OH	CO	O	CH ₂	2
E20	CH ₃	CH ₃ OC(O)	OH	CO	O	CH ₂	2
E21	H	H	OH	CO	O	CH ₂	2
E22	CH ₃	H	OH	CO	O	CH ₂	2
E23	CH ₃	CH ₃	OH	CO	O	CH ₂	2
E24	CH ₃ OC(O)	H	OH	CO	O	CH ₂	2
E25	CH ₃	CH ₃ OC(O)	OH	CO	O	CH ₂	2
E26	H	H	OH	CO	O	CH ₂	2
E27	CH ₃	H	OH	CO	O	CH ₂	2
E28	CH ₃	CH ₃	OH	CO	O	CH ₂	2
E29	CH ₃ OC(O)	H	OH	CO	O	CH ₂	2
E30	CH ₃	CH ₃ OC(O)	OH	CO	O	CH ₂	2

In Table 6 which follows, Q is Q₅



and Q₅ the radicals F which follow:

Table 6: Radicals F:

Radical	R ₆	R ₇	R ₈	R ₁₀
F1	H	H	H	OH
F2	CH ₃	H	H	OH

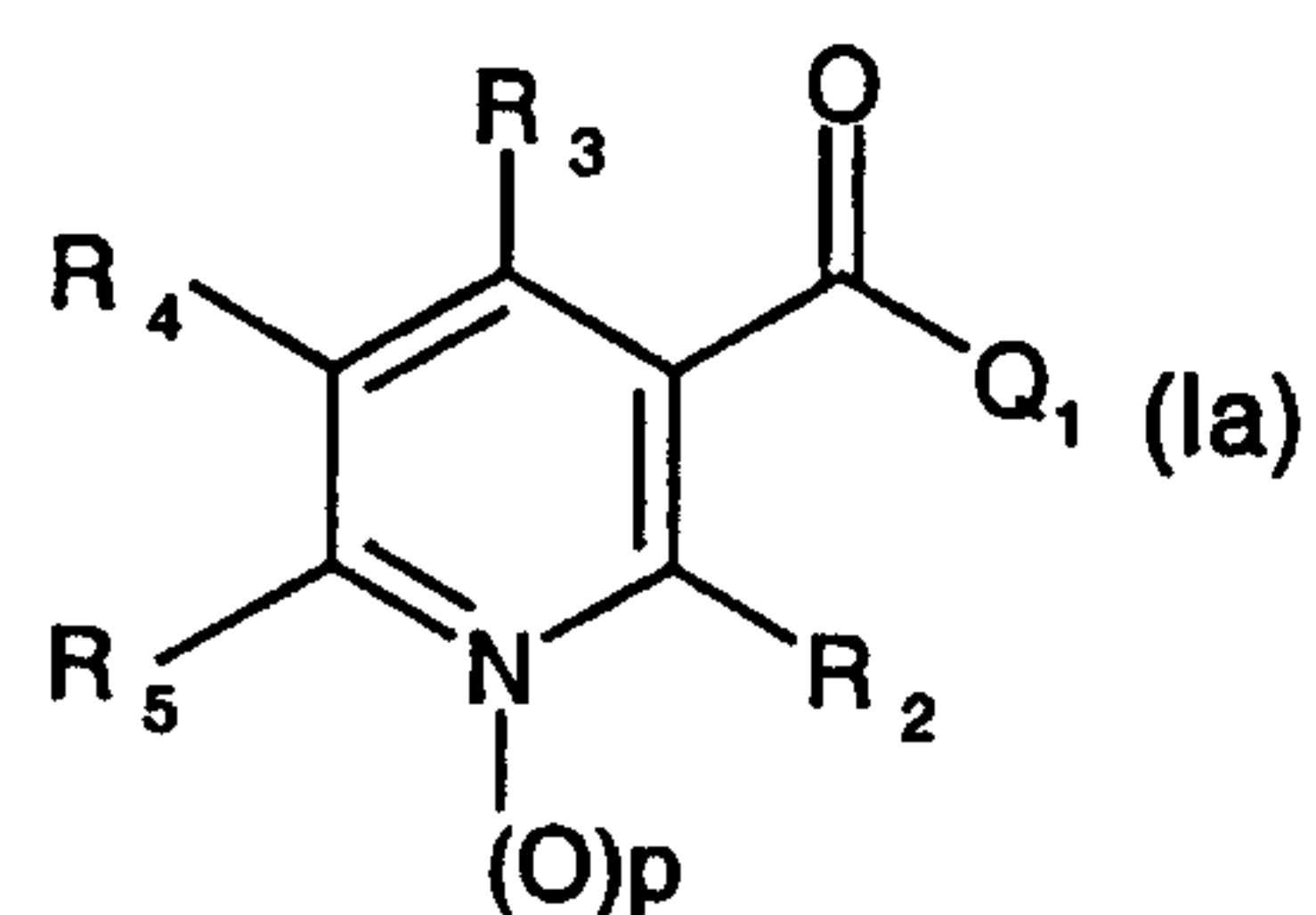
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Radical	R ₆	R ₇	R ₈	R ₁₀
F3	CH ₃	CH ₃	H	OH
F4	CH ₃	CH ₃	CH ₃	OH
F5	H	H	CH ₃	OH
F6	H	CH ₃	CH ₃	OH

Table 7: Compounds of the formula Ia



Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1	H	H	H	CF ₃	B24	0
A2	CH ₃	H	H	CF ₃	B24	0
A3	CH ₃ CH ₂	H	H	CF ₃	B24	0
A4	(CH ₃) ₂ CH	H	H	CF ₃	B24	0
A5	(CH ₃) ₃ C	H	H	CF ₃	B24	0
A6	cyclopropyl	H	H	CF ₃	B24	0
A7	CH ₃ (CH ₂) ₂	H	H	CF ₃	B24	0
A8	CH ₃ OCH ₂	H	H	CF ₃	B24	0
A9	CH ₃ O(CH ₂) ₂	H	H	CF ₃	B24	0
A10	Ph	H	H	CF ₃	B24	0
A11	PhO	H	H	CF ₃	B24	0
A12	PhS	H	H	CF ₃	B24	0
A13	PhSO	H	H	CF ₃	B24	0
A14	PhSO ₂	H	H	CF ₃	B24	0
A15	CH ₃ S	H	H	CF ₃	B24	0
A16	CH ₃ SO	H	H	CF ₃	B24	0
A17	CF ₃	H	H	CF ₃	B24	0
A18	F ₂ CH	H	H	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A19	HCC	H	H	CF ₃	B24	0
A20	CH ₃ CC	H	H	CF ₃	B24	0
A21	CH ₂ =CH	H	H	CF ₃	B24	0
A22	CH ₂ =CHCH ₂	H	H	CF ₃	B24	0
A23	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃	B24	0
A24	(CH ₃) ₂ N	H	H	CF ₃	B24	0
A25	(CH ₃) ₂ NSO ₂	H	H	CF ₃	B24	0
A26	ClCH ₂	H	H	CF ₃	B24	0
A27	CH ₃ SCH ₂	H	H	CF ₃	B24	0
A28	CH ₃ SOCH ₂	H	H	CF ₃	B24	0
A29	CH ₃ SO ₂ CH ₂	H	H	CF ₃	B24	0
A30	[1.2.4]-triazol-1- ylmethyl	H	H	CF ₃	B24	0
A31	CH ₃	CF ₃	H	CH ₃	B24	0
A32	CH ₃	CH ₃	H	CF ₃	B24	0
A33	H	H	H	CF ₃ CF ₂	B24	0
A34	CH ₃	H	H	CF ₃ CF ₂	B24	0
A35	CH ₃ CH ₂	H	H	CF ₃ CF ₂	B24	0
A36	cyclopropyl	H	H	CF ₃ CF ₂	B24	0
A37	(CH ₃) ₃ C	H	H	CF ₃ CF ₂	B24	0
A38	(CH ₃) ₂ CH	H	H	CF ₃ CF ₂	B24	0
A39	CH ₃ (CH ₂) ₂	H	H	CF ₃ CF ₂	B24	0
A40	CH ₃ OCH ₂	H	H	CF ₃ CF ₂	B24	0
A41	CH ₃ O(CH ₂) ₂	H	H	CF ₃ CF ₂	B24	0
A42	Ph	H	H	CF ₃ CF ₂	B24	0
A43	PhO	H	H	CF ₃ CF ₂	B24	0
A44	PhS	H	H	CF ₃ CF ₂	B24	0
A45	PhSO	H	H	CF ₃ CF ₂	B24	0
A46	PhSO ₂	H	H	CF ₃ CF ₂	B24	0
A47	CH ₃ S	H	H	CF ₃ CF ₂	B24	0
A48	CH ₃ SO	H	H	CF ₃ CF ₂	B24	0
A49	CF ₃	H	H	CF ₃ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A50	F ₂ CH	H	H	CF ₃ CF ₂	B24	0
A51	HCC	H	H	CF ₃ CF ₂	B24	0
A52	CH ₃ CC	H	H	CF ₃ CF ₂	B24	0
A53	CH ₂ =CH	H	H	CF ₃ CF ₂	B24	0
A54	CH ₂ =CHCH ₂	H	H	CF ₃ CF ₂	B24	0
A55	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃ CF ₂	B24	0
A56	(CH ₃) ₂ N	H	H	CF ₃ CF ₂	B24	0
A57	(CH ₃) ₂ NSO ₂	H	H	CF ₃ CF ₂	B24	0
A58	ClCH ₂	H	H	CF ₃ CF ₂	B24	0
A59	CH ₃ SCH ₂	H	H	CF ₃ CF ₂	B24	0
A60	CH ₃ SOCH ₂	H	H	CF ₃ CF ₂	B24	0
A61	CH ₃ SO ₂ CH ₂	H	H	CF ₃ CF ₂	B24	0
A62	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₃ CF ₂	B24	0
A63	H	H	H	CF ₃ CF ₂ CF ₂	B24	0
A64	CH ₃	H	H	CF ₃ CF ₂ CF ₂	B24	0
A65	CH ₃ CH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A66	cyclopropyl	H	H	CF ₃ CF ₂ CF ₂	B24	0
A67	(CH ₃) ₃ C	H	H	CF ₃ CF ₂ CF ₂	B24	0
A68	(CH ₃) ₂ CH	H	H	CF ₃ CF ₂ CF ₂	B24	0
A69	CH ₃ (CH ₂) ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A70	CH ₃ OCH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A71	CH ₃ O(CH ₂) ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A72	Ph	H	H	CF ₃ CF ₂ CF ₂	B24	0
A73	PhO	H	H	CF ₃ CF ₂ CF ₂	B24	0
A74	PhS	H	H	CF ₃ CF ₂ CF ₂	B24	0
A75	PhSO	H	H	CF ₃ CF ₂ CF ₂	B24	0
A76	PhSO ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A77	CH ₃ S	H	H	CF ₃ CF ₂ CF ₂	B24	0
A78	CH ₃ SO	H	H	CF ₃ CF ₂ CF ₂	B24	0
A79	CF ₃	H	H	CF ₃ CF ₂ CF ₂	B24	0
A80	F ₂ CH	H	H	CF ₃ CF ₂ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A81	HCC	H	H	CF ₃ CF ₂ CF ₂	B24	0
A82	CH ₃ CC	H	H	CF ₃ CF ₂ CF ₂	B24	0
A83	CH ₂ =CH	H	H	CF ₃ CF ₂ CF ₂	B24	0
A84	CH ₂ =CHCH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A85	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₃ CF ₂ CF ₂	B24	0
A86	(CH ₃) ₂ N	H	H	CF ₃ CF ₂ CF ₂	B24	0
A87	(CH ₃) ₂ NSO ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A88	ClCH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A89	CH ₃ SCH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A90	CH ₃ SOCH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A91	CH ₃ SO ₂ CH ₂	H	H	CF ₃ CF ₂ CF ₂	B24	0
A92	[1.2.4]-triazol-1- ylmethyl	H	H	CF ₃ CF ₂ CF ₂	B24	0
A93	H	H	H	CF ₂ Cl	B24	0
A94	CH ₃	H	H	CF ₂ Cl	B24	0
A95	CH ₃ CH ₂	H	H	CF ₂ Cl	B24	0
A96	cyclopropyl	H	H	CF ₂ Cl	B24	0
A97	(CH ₃) ₃ C	H	H	CF ₂ Cl	B24	0
A98	(CH ₃) ₂ CH	H	H	CF ₂ Cl	B24	0
A99	CH ₃ (CH ₂) ₂	H	H	CF ₂ Cl	B24	0
A100	CH ₃ OCH ₂	H	H	CF ₂ Cl	B24	0
A101	CH ₃ O(CH ₂) ₂	H	H	CF ₂ Cl	B24	0
A102	Ph	H	H	CF ₂ Cl	B24	0
A103	PhO	H	H	CF ₂ Cl	B24	0
A104	PhS	H	H	CF ₂ Cl	B24	0
A105	PhSO	H	H	CF ₂ Cl	B24	0
A106	PhSO ₂	H	H	CF ₂ Cl	B24	0
A107	CH ₃ S	H	H	CF ₂ Cl	B24	0
A108	CH ₃ SO	H	H	CF ₂ Cl	B24	0
A109	CF ₃	H	H	CF ₂ Cl	B24	0
A110	F ₂ CH	H	H	CF ₂ Cl	B24	0
A111	HCC	H	H	CF ₂ Cl	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A112	CH ₃ CC	H	H	CF ₂ Cl	B24	0
A113	CH ₂ =CH	H	H	CF ₂ Cl	B24	0
A114	CH ₂ =CHCH ₂	H	H	CF ₂ Cl	B24	0
A115	CH ₃ SO ₂ N(CH ₃)	H	H	CF ₂ Cl	B24	0
A116	(CH ₃) ₂ N	H	H	CF ₂ Cl	B24	0
A117	(CH ₃) ₂ NSO ₂	H	H	CF ₂ Cl	B24	0
A118	ClCH ₂	H	H	CF ₂ Cl	B24	0
A119	CH ₃ SCH ₂	H	H	CF ₂ Cl	B24	0
A120	CH ₃ SOCH ₂	H	H	CF ₂ Cl	B24	0
A121	CH ₃ SO ₂ CH ₂	H	H	CF ₂ Cl	B24	0
A122	[1.2.4]-triazol-1-ylmethyl	H	H	CF ₂ Cl	B24	0
A123	H	H	H	CHF ₂	B24	0
A124	CH ₃	H	H	CHF ₂	B24	0
A125	CH ₃ CH ₂	H	H	CHF ₂	B24	0
A126	cyclopropyl	H	H	CHF ₂	B24	0
A127	(CH ₃) ₃ C	H	H	CHF ₂	B24	0
A128	(CH ₃) ₂ CH	H	H	CHF ₂	B24	0
A129	CH ₃ (CH ₂) ₂	H	H	CHF ₂	B24	0
A130	CH ₃ OCH ₂	H	H	CHF ₂	B24	0
A131	CH ₃ O(CH ₂) ₂	H	H	CHF ₂	B24	0
A132	Ph	H	H	CHF ₂	B24	0
A133	PhO	H	H	CHF ₂	B24	0
A134	PhS	H	H	CHF ₂	B24	0
A135	PhSO	H	H	CHF ₂	B24	0
A136	PhSO ₂	H	H	CHF ₂	B24	0
A137	CH ₃ S	H	H	CHF ₂	B24	0
A138	CH ₃ SO	H	H	CHF ₂	B24	0
A139	CF ₃	H	H	CHF ₂	B24	0
A140	F ₂ CH	H	H	CHF ₂	B24	0
A141	HCC	H	H	CHF ₂	B24	0
A142	CH ₃ CC	H	H	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A143	CH ₂ =CH	H	H	CHF ₂	B24	0
A144	CH ₂ =CHCH ₂	H	H	CHF ₂	B24	0
A145	CH ₃ SO ₂ N(CH ₃)	H	H	CHF ₂	B24	0
A146	(CH ₃) ₂ N	H	H	CHF ₂	B24	0
A147	(CH ₃) ₂ NSO ₂	H	H	CHF ₂	B24	0
A148	ClCH ₂	H	H	CHF ₂	B24	0
A149	CH ₃ SCH ₂	H	H	CHF ₂	B24	0
A150	CH ₃ SOCH ₂	H	H	CHF ₂	B24	0
A151	CH ₃ SO ₂ CH ₂	H	H	CHF ₂	B24	0
A152	[1.2.4]-triazol-1-ylmethyl	H	H	CHF ₂	B24	0
A153	H	H	H	CCl ₃	B24	0
A154	CH ₃	H	H	CCl ₃	B24	0
A155	CH ₃ CH ₂	H	H	CCl ₃	B24	0
A156	cyclopropyl	H	H	CCl ₃	B24	0
A157	(CH ₃) ₃ C	H	H	CCl ₃	B24	0
A158	(CH ₃) ₂ CH	H	H	CCl ₃	B24	0
A159	CH ₃ (CH ₂) ₂	H	H	CCl ₃	B24	0
A160	CH ₃ OCH ₂	H	H	CCl ₃	B24	0
A161	CH ₃ O(CH ₂) ₂	H	H	CCl ₃	B24	0
A162	Ph	H	H	CCl ₃	B24	0
A163	PhO	H	H	CCl ₃	B24	0
A164	PhS	H	H	CCl ₃	B24	0
A165	PhSO	H	H	CCl ₃	B24	0
A166	PhSO ₂	H	H	CCl ₃	B24	0
A167	CH ₃ S	H	H	CCl ₃	B24	0
A168	CH ₃ SO	H	H	CCl ₃	B24	0
A169	CF ₃	H	H	CCl ₃	B24	0
A170	F ₂ CH	H	H	CCl ₃	B24	0
A171	HCC	H	H	CCl ₃	B24	0
A172	CH ₃ CC	H	H	CCl ₃	B24	0
A173	CH ₂ =CH	H	H	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A174	CH ₂ =CHCH ₂	H	H	CCl ₃	B24	0
A175	CH ₃ SO ₂ N(CH ₃)	H	H	CCl ₃	B24	0
A176	(CH ₃) ₂ N	H	H	CCl ₃	B24	0
A177	(CH ₃) ₂ NSO ₂	H	H	CCl ₃	B24	0
A178	ClCH ₂	H	H	CCl ₃	B24	0
A179	CH ₃ SCH ₂	H	H	CCl ₃	B24	0
A180	CH ₃ SOCH ₂	H	H	CCl ₃	B24	0
A181	CH ₃ SO ₂ CH ₂	H	H	CCl ₃	B24	0
A182	[1.2.4]-triazol-1-ylmethyl	H	H	CCl ₃	B24	0
A183	H	H	CH ₃	CF ₃	B24	0
A184	CH ₃	H	CH ₃	CF ₃	B24	0
A185	CH ₃ CH ₂	H	CH ₃	CF ₃	B24	0
A186	cyclopropyl	H	CH ₃	CF ₃	B24	0
A187	(CH ₃) ₃ C	H	CH ₃	CF ₃	B24	0
A188	(CH ₃) ₂ CH	H	CH ₃	CF ₃	B24	0
A189	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃	B24	0
A190	CH ₃ OCH ₂	H	CH ₃	CF ₃	B24	0
A191	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃	B24	0
A192	Ph	H	CH ₃	CF ₃	B24	0
A193	PhO	H	CH ₃	CF ₃	B24	0
A194	PhS	H	CH ₃	CF ₃	B24	0
A195	PhSO	H	CH ₃	CF ₃	B24	0
A196	PhSO ₂	H	CH ₃	CF ₃	B24	0
A197	CH ₃ S	H	CH ₃	CF ₃	B24	0
A198	CH ₃ SO	H	CH ₃	CF ₃	B24	0
A199	CF ₃	H	CH ₃	CF ₃	B24	0
A200	F ₂ CH	H	CH ₃	CF ₃	B24	0
A201	HCC	H	CH ₃	CF ₃	B24	0
A202	CH ₃ CC	H	CH ₃	CF ₃	B24	0
A203	CH ₂ =CH	H	CH ₃	CF ₃	B24	0
A204	CH ₂ =CHCH ₂	H	CH ₃	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A205	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃	B24	0
A206	(CH ₃) ₂ N	H	CH ₃	CF ₃	B24	0
A207	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃	B24	0
A208	ClCH ₂	H	CH ₃	CF ₃	B24	0
A209	CH ₃ SCH ₂	H	CH ₃	CF ₃	B24	0
A210	CH ₃ SOCH ₂	H	CH ₃	CF ₃	B24	0
A211	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃	B24	0
A212	H	H	CH ₃	CF ₃ CF ₂	B24	0
A213	CH ₃	H	CH ₃	CF ₃ CF ₂	B24	0
A214	CH ₃ CH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A215	cyclopropyl	H	CH ₃	CF ₃ CF ₂	B24	0
A216	(CH ₃) ₃ C	H	CH ₃	CF ₃ CF ₂	B24	0
A217	(CH ₃) ₂ CH	H	CH ₃	CF ₃ CF ₂	B24	0
A218	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A219	CH ₃ OCH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A220	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A221	Ph	H	CH ₃	CF ₃ CF ₂	B24	0
A222	PhO	H	CH ₃	CF ₃ CF ₂	B24	0
A223	PhS	H	CH ₃	CF ₃ CF ₂	B24	0
A224	PhSO	H	CH ₃	CF ₃ CF ₂	B24	0
A225	PhSO ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A226	CH ₃ S	H	CH ₃	CF ₃ CF ₂	B24	0
A227	CH ₃ SO	H	CH ₃	CF ₃ CF ₂	B24	0
A228	CF ₃	H	CH ₃	CF ₃ CF ₂	B24	0
A229	F ₂ CH	H	CH ₃	CF ₃ CF ₂	B24	0
A230	HCC	H	CH ₃	CF ₃ CF ₂	B24	0
A231	CH ₃ CC	H	CH ₃	CF ₃ CF ₂	B24	0
A232	CH ₂ =CH	H	CH ₃	CF ₃ CF ₂	B24	0
A233	CH ₂ =CHCH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A234	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃ CF ₂	B24	0
A235	(CH ₃) ₂ N	H	CH ₃	CF ₃ CF ₂	B24	0
A236	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A237	ClCH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A238	CH ₃ SCH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A239	CH ₃ SOCH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A240	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃ CF ₂	B24	0
A241	H	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A242	CH ₃	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A243	CH ₃ CH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A244	cyclopropyl	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A245	(CH ₃) ₃ C	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A246	(CH ₃) ₂ CH	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A247	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A248	CH ₃ OCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A249	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A250	Ph	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A251	PhO	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A252	PhS	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A253	PhSO	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A254	PhSO ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A255	CH ₃ S	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A256	CH ₃ SO	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A257	CF ₃	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A258	F ₂ CH	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A259	HCC	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A260	CH ₃ CC	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A261	CH ₂ =CH	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A262	CH ₂ =CHCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A263	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A264	(CH ₃) ₂ N	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A265	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A266	ClCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A267	CH ₃ SCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A268	CH ₃ SOCH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A269	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A270	H	H	CH ₃	CF ₂ Cl	B24	0
A271	CH ₃	H	CH ₃	CF ₂ Cl	B24	0
A272	CH ₃ CH ₂	H	CH ₃	CF ₂ Cl	B24	0
A273	cyclopropyl	H	CH ₃	CF ₂ Cl	B24	0
A274	(CH ₃) ₃ C	H	CH ₃	CF ₂ Cl	B24	0
A275	(CH ₃) ₂ CH	H	CH ₃	CF ₂ Cl	B24	0
A276	CH ₃ (CH ₂) ₂	H	CH ₃	CF ₂ Cl	B24	0
A277	CH ₃ OCH ₂	H	CH ₃	CF ₂ Cl	B24	0
A278	CH ₃ O(CH ₂) ₂	H	CH ₃	CF ₂ Cl	B24	0
A279	Ph	H	CH ₃	CF ₂ Cl	B24	0
A280	PhO	H	CH ₃	CF ₂ Cl	B24	0
A281	PhS	H	CH ₃	CF ₂ Cl	B24	0
A282	PhSO	H	CH ₃	CF ₂ Cl	B24	0
A283	PhSO ₂	H	CH ₃	CF ₂ Cl	B24	0
A284	CH ₃ S	H	CH ₃	CF ₂ Cl	B24	0
A285	CH ₃ SO	H	CH ₃	CF ₂ Cl	B24	0
A286	CF ₃	H	CH ₃	CF ₂ Cl	B24	0
A287	F ₂ CH	H	CH ₃	CF ₂ Cl	B24	0
A288	HCC	H	CH ₃	CF ₂ Cl	B24	0
A289	CH ₃ CC	H	CH ₃	CF ₂ Cl	B24	0
A290	CH ₂ =CH	H	CH ₃	CF ₂ Cl	B24	0
A291	CH ₂ =CHCH ₂	H	CH ₃	CF ₂ Cl	B24	0
A292	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CF ₂ Cl	B24	0
A293	(CH ₃) ₂ N	H	CH ₃	CF ₂ Cl	B24	0
A294	(CH ₃) ₂ NSO ₂	H	CH ₃	CF ₂ Cl	B24	0
A295	ClCH ₂	H	CH ₃	CF ₂ Cl	B24	0
A296	CH ₃ SCH ₂	H	CH ₃	CF ₂ Cl	B24	0
A297	CH ₃ SOCH ₂	H	CH ₃	CF ₂ Cl	B24	0
A298	CH ₃ SO ₂ CH ₂	H	CH ₃	CF ₂ Cl	B24	0
A299	H	H	CH ₃	CHF ₂	B24	0
A300	CH ₃	H	CH ₃	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A301	CH ₃ CH ₂	H	CH ₃	CHF ₂	B24	0
A302	cyclopropyl	H	CH ₃	CHF ₂	B24	0
A303	(CH ₃) ₃ C	H	CH ₃	CHF ₂	B24	0
A304	(CH ₃) ₂ CH	H	CH ₃	CHF ₂	B24	0
A305	CH ₃ (CH ₂) ₂	H	CH ₃	CHF ₂	B24	0
A306	CH ₃ OCH ₂	H	CH ₃	CHF ₂	B24	0
A307	CH ₃ O(CH ₂) ₂	H	CH ₃	CHF ₂	B24	0
A308	Ph	H	CH ₃	CHF ₂	B24	0
A309	PhO	H	CH ₃	CHF ₂	B24	0
A310	PhS	H	CH ₃	CHF ₂	B24	0
A311	PhSO	H	CH ₃	CHF ₂	B24	0
A312	PhSO ₂	H	CH ₃	CHF ₂	B24	0
A313	CH ₃ S	H	CH ₃	CHF ₂	B24	0
A314	CH ₃ SO	H	CH ₃	CHF ₂	B24	0
A315	CF ₃	H	CH ₃	CHF ₂	B24	0
A316	F ₂ CH	H	CH ₃	CHF ₂	B24	0
A317	HCC	H	CH ₃	CHF ₂	B24	0
A318	CH ₃ CC	H	CH ₃	CHF ₂	B24	0
A319	CH ₂ =CH	H	CH ₃	CHF ₂	B24	0
A320	CH ₂ =CHCH ₂	H	CH ₃	CHF ₂	B24	0
A321	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CHF ₂	B24	0
A322	(CH ₃) ₂ N	H	CH ₃	CHF ₂	B24	0
A323	(CH ₃) ₂ NSO ₂	H	CH ₃	CHF ₂	B24	0
A324	ClCH ₂	H	CH ₃	CHF ₂	B24	0
A325	CH ₃ SCH ₂	H	CH ₃	CHF ₂	B24	0
A326	CH ₃ SOCH ₂	H	CH ₃	CHF ₂	B24	0
A327	CH ₃ SO ₂ CH ₂	H	CH ₃	CHF ₂	B24	0
A328	H	H	CH ₃	CCl ₃	B24	0
A329	CH ₃	H	CH ₃	CCl ₃	B24	0
A330	CH ₃ CH ₂	H	CH ₃	CCl ₃	B24	0
A331	(CH ₃) ₃ C	H	CH ₃	CCl ₃	B24	0
A332	(CH ₃) ₂ CH	H	CH ₃	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A333	cyclopropyl	H	CH ₃	CCl ₃	B24	0
A334	CH ₃ (CH ₂) ₂	H	CH ₃	CCl ₃	B24	0
A335	CH ₃ OCH ₂	H	CH ₃	CCl ₃	B24	0
A336	CH ₃ O(CH ₂) ₂	H	CH ₃	CCl ₃	B24	0
A337	Ph	H	CH ₃	CCl ₃	B24	0
A338	PhO	H	CH ₃	CCl ₃	B24	0
A339	PhS	H	CH ₃	CCl ₃	B24	0
A340	PhSO	H	CH ₃	CCl ₃	B24	0
A341	PhSO ₂	H	CH ₃	CCl ₃	B24	0
A342	CH ₃ S	H	CH ₃	CCl ₃	B24	0
A343	CH ₃ SO	H	CH ₃	CCl ₃	B24	0
A344	CF ₃	H	CH ₃	CCl ₃	B24	0
A345	F ₂ CH	H	CH ₃	CCl ₃	B24	0
A346	HCC	H	CH ₃	CCl ₃	B24	0
A347	CH ₃ CC	H	CH ₃	CCl ₃	B24	0
A348	CH ₂ =CH	H	CH ₃	CCl ₃	B24	0
A349	CH ₂ =CHCH ₂	H	CH ₃	CCl ₃	B24	0
A350	CH ₃ SO ₂ N(CH ₃)	H	CH ₃	CCl ₃	B24	0
A351	(CH ₃) ₂ N	H	CH ₃	CCl ₃	B24	0
A352	(CH ₃) ₂ NSO ₂	H	CH ₃	CCl ₃	B24	0
A353	ClCH ₂	H	CH ₃	CCl ₃	B24	0
A354	CH ₃ SCH ₂	H	CH ₃	CCl ₃	B24	0
A355	CH ₃ SOCH ₂	H	CH ₃	CCl ₃	B24	0
A356	CH ₃ SO ₂ CH ₂	H	CH ₃	CCl ₃	B24	0
A357	H	H	Ph	CF ₃	B24	0
A358	CH ₃	H	Ph	CF ₃	B24	0
A359	CH ₃ CH ₂	H	Ph	CF ₃	B24	0
A360	cyclopropyl	H	Ph	CF ₃	B24	0
A361	(CH ₃) ₃ C	H	Ph	CF ₃	B24	0
A362	(CH ₃) ₂ CH	H	Ph	CF ₃	B24	0
A363	CH ₃ (CH ₂) ₂	H	Ph	CF ₃	B24	0
A364	CH ₃ OCH ₂	H	Ph	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A365	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃	B24	0
A366	Ph	H	Ph	CF ₃	B24	0
A367	PhO	H	Ph	CF ₃	B24	0
A368	PhS	H	Ph	CF ₃	B24	0
A369	PhSO	H	Ph	CF ₃	B24	0
A370	PhSO ₂	H	Ph	CF ₃	B24	0
A371	CH ₃ S	H	Ph	CF ₃	B24	0
A372	CH ₃ SO	H	Ph	CF ₃	B24	0
A373	CF ₃	H	Ph	CF ₃	B24	0
A374	F ₂ CH	H	Ph	CF ₃	B24	0
A375	HCC	H	Ph	CF ₃	B24	0
A376	CH ₃ CC	H	Ph	CF ₃	B24	0
A377	CH ₂ =CH	H	Ph	CF ₃	B24	0
A378	CH ₂ =CHCH ₂	H	Ph	CF ₃	B24	0
A379	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃	B24	0
A380	(CH ₃) ₂ N	H	Ph	CF ₃	B24	0
A381	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃	B24	0
A382	ClCH ₂	H	Ph	CF ₃	B24	0
A383	CH ₃ SCH ₂	H	Ph	CF ₃	B24	0
A384	CH ₃ SOCH ₂	H	Ph	CF ₃	B24	0
A385	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃	B24	0
A386	H	H	Ph	CF ₃ CF ₂	B24	0
A387	CH ₃	H	Ph	CF ₃ CF ₂	B24	0
A388	CH ₃ CH ₂	H	Ph	CF ₃ CF ₂	B24	0
A389	cyclopropyl	H	Ph	CF ₃ CF ₂	B24	0
A390	(CH ₃) ₃ C	H	Ph	CF ₃ CF ₂	B24	0
A391	(CH ₃) ₂ CH	H	Ph	CF ₃ CF ₂	B24	0
A392	CH ₃ (CH ₂) ₂	H	Ph	CF ₃ CF ₂	B24	0
A393	CH ₃ OCH ₂	H	Ph	CF ₃ CF ₂	B24	0
A394	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃ CF ₂	B24	0
A395	Ph	H	Ph	CF ₃ CF ₂	B24	0
A396	PhO	H	Ph	CF ₃ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A397	PhS	H	Ph	CF ₃ CF ₂	B24	0
A398	PhSO	H	Ph	CF ₃ CF ₂	B24	0
A399	PhSO ₂	H	Ph	CF ₃ CF ₂	B24	0
A400	CH ₃ S	H	Ph	CF ₃ CF ₂	B24	0
A401	CH ₃ SO	H	Ph	CF ₃ CF ₂	B24	0
A402	CF ₃	H	Ph	CF ₃ CF ₂	B24	0
A403	F ₂ CH	H	Ph	CF ₃ CF ₂	B24	0
A404	HCC	H	Ph	CF ₃ CF ₂	B24	0
A405	CH ₃ CC	H	Ph	CF ₃ CF ₂	B24	0
A406	CH ₂ =CH	H	Ph	CF ₃ CF ₂	B24	0
A407	CH ₂ =CHCH ₂	H	Ph	CF ₃ CF ₂	B24	0
A408	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃ CF ₂	B24	0
A409	(CH ₃) ₂ N	H	Ph	CF ₃ CF ₂	B24	0
A410	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃ CF ₂	B24	0
A411	ClCH ₂	H	Ph	CF ₃ CF ₂	B24	0
A412	CH ₃ SCH ₂	H	Ph	CF ₃ CF ₂	B24	0
A413	CH ₃ SOCH ₂	H	Ph	CF ₃ CF ₂	B24	0
A414	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃ CF ₂	B24	0
A415	H	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A416	CH ₃	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A417	CH ₃ CH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A418	cyclopropyl	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A419	(CH ₃) ₃ C	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A420	(CH ₃) ₂ CH	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A421	CH ₃ (CH ₂) ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A422	CH ₃ OCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A423	CH ₃ O(CH ₂) ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A424	Ph	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A425	PhO	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A426	PhS	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A427	PhSO	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A428	PhSO ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A429	CH ₃ S	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A430	CH ₃ SO	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A431	CF ₃	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A432	F ₂ CH	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A433	HCC	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A434	CH ₃ CC	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A435	CH ₂ =CH	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A436	CH ₂ =CHCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A437	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A438	(CH ₃) ₂ N	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A439	(CH ₃) ₂ NSO ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A440	ClCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A441	CH ₃ SCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A442	CH ₃ SOCH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A443	CH ₃ SO ₂ CH ₂	H	Ph	CF ₃ CF ₂ CF ₂	B24	0
A444	H	H	Ph	CF ₂ Cl	B24	0
A445	CH ₃	H	Ph	CF ₂ Cl	B24	0
A446	CH ₃ CH ₂	H	Ph	CF ₂ Cl	B24	0
A447	cyclopropyl	H	Ph	CF ₂ Cl	B24	0
A448	(CH ₃) ₃ C	H	Ph	CF ₂ Cl	B24	0
A449	(CH ₃) ₂ CH	H	Ph	CF ₂ Cl	B24	0
A450	CH ₃ (CH ₂) ₂	H	Ph	CF ₂ Cl	B24	0
A451	CH ₃ OCH ₂	H	Ph	CF ₂ Cl	B24	0
A452	CH ₃ O(CH ₂) ₂	H	Ph	CF ₂ Cl	B24	0
A453	Ph	H	Ph	CF ₂ Cl	B24	0
A454	PhO	H	Ph	CF ₂ Cl	B24	0
A455	PhS	H	Ph	CF ₂ Cl	B24	0
A456	PhSO	H	Ph	CF ₂ Cl	B24	0
A457	PhSO ₂	H	Ph	CF ₂ Cl	B24	0
A458	CH ₃ S	H	Ph	CF ₂ Cl	B24	0
A459	CH ₃ SO	H	Ph	CF ₂ Cl	B24	0
A460	CF ₃	H	Ph	CF ₂ Cl	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A461	F ₂ CH	H	Ph	CF ₂ Cl	B24	0
A462	HCC	H	Ph	CF ₂ Cl	B24	0
A463	CH ₃ CC	H	Ph	CF ₂ Cl	B24	0
A464	CH ₂ =CH	H	Ph	CF ₂ Cl	B24	0
A465	CH ₂ =CHCH ₂	H	Ph	CF ₂ Cl	B24	0
A466	CH ₃ SO ₂ N(CH ₃)	H	Ph	CF ₂ Cl	B24	0
A467	(CH ₃) ₂ N	H	Ph	CF ₂ Cl	B24	0
A468	(CH ₃) ₂ NSO ₂	H	Ph	CF ₂ Cl	B24	0
A469	ClCH ₂	H	Ph	CF ₂ Cl	B24	0
A470	CH ₃ SCH ₂	H	Ph	CF ₂ Cl	B24	0
A471	CH ₃ SOCH ₂	H	Ph	CF ₂ Cl	B24	0
A472	CH ₃ SO ₂ CH ₂	H	Ph	CF ₂ Cl	B24	0
A473	H	H	Ph	CHF ₂	B24	0
A474	CH ₃	H	Ph	CHF ₂	B24	0
A475	CH ₃ CH ₂	H	Ph	CHF ₂	B24	0
A476	cyclopropyl	H	Ph	CHF ₂	B24	0
A477	(CH ₃) ₃ C	H	Ph	CHF ₂	B24	0
A478	(CH ₃) ₂ CH	H	Ph	CHF ₂	B24	0
A479	CH ₃ (CH ₂) ₂	H	Ph	CHF ₂	B24	0
A480	CH ₃ OCH ₂	H	Ph	CHF ₂	B24	0
A481	CH ₃ O(CH ₂) ₂	H	Ph	CHF ₂	B24	0
A482	Ph	H	Ph	CHF ₂	B24	0
A483	PhO	H	Ph	CHF ₂	B24	0
A484	PhS	H	Ph	CHF ₂	B24	0
A485	PhSO	H	Ph	CHF ₂	B24	0
A486	PhSO ₂	H	Ph	CHF ₂	B24	0
A487	CH ₃ S	H	Ph	CHF ₂	B24	0
A488	CH ₃ SO	H	Ph	CHF ₂	B24	0
A489	CF ₃	H	Ph	CHF ₂	B24	0
A490	F ₂ CH	H	Ph	CHF ₂	B24	0
A491	HCC	H	Ph	CHF ₂	B24	0
A492	CH ₃ CC	H	Ph	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A493	CH ₂ =CH	H	Ph	CHF ₂	B24	0
A494	CH ₂ =CHCH ₂	H	Ph	CHF ₂	B24	0
A495	CH ₃ SO ₂ N(CH ₃)	H	Ph	CHF ₂	B24	0
A496	(CH ₃) ₂ N	H	Ph	CHF ₂	B24	0
A497	(CH ₃) ₂ NSO ₂	H	Ph	CHF ₂	B24	0
A498	ClCH ₂	H	Ph	CHF ₂	B24	0
A499	CH ₃ SCH ₂	H	Ph	CHF ₂	B24	0
A500	CH ₃ SOCH ₂	H	Ph	CHF ₂	B24	0
A501	CH ₃ SO ₂ CH ₂	H	Ph	CHF ₂	B24	0
A502	H	H	Ph	CCl ₃	B24	0
A503	CH ₃	H	Ph	CCl ₃	B24	0
A504	CH ₃ CH ₂	H	Ph	CCl ₃	B24	0
A505	cyclopropyl	H	Ph	CCl ₃	B24	0
A506	(CH ₃) ₃ C	H	Ph	CCl ₃	B24	0
A507	(CH ₃) ₂ CH	H	Ph	CCl ₃	B24	0
A508	CH ₃ (CH ₂) ₂	H	Ph	CCl ₃	B24	0
A509	CH ₃ OCH ₂	H	Ph	CCl ₃	B24	0
A510	CH ₃ O(CH ₂) ₂	H	Ph	CCl ₃	B24	0
A511	Ph	H	Ph	CCl ₃	B24	0
A512	PhO	H	Ph	CCl ₃	B24	0
A513	PhS	H	Ph	CCl ₃	B24	0
A514	PhSO	H	Ph	CCl ₃	B24	0
A515	PhSO ₂	H	Ph	CCl ₃	B24	0
A516	CH ₃ S	H	Ph	CCl ₃	B24	0
A517	CH ₃ SO	H	Ph	CCl ₃	B24	0
A518	CF ₃	H	Ph	CCl ₃	B24	0
A519	F ₂ CH	H	Ph	CCl ₃	B24	0
A520	HCC	H	Ph	CCl ₃	B24	0
A521	CH ₃ CC	H	Ph	CCl ₃	B24	0
A522	CH ₂ =CH	H	Ph	CCl ₃	B24	0
A523	CH ₂ =CHCH ₂	H	Ph	CCl ₃	B24	0
A524	CH ₃ SO ₂ N(CH ₃)	H	Ph	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A525	(CH ₃) ₂ N	H	Ph	CCl ₃	B24	0
A526	(CH ₃) ₂ NSO ₂	H	Ph	CCl ₃	B24	0
A527	ClCH ₂	H	Ph	CCl ₃	B24	0
A528	CH ₃ SCH ₂	H	Ph	CCl ₃	B24	0
A529	CH ₃ SOCH ₂	H	Ph	CCl ₃	B24	0
A530	CH ₃ SO ₂ CH ₂	H	Ph	CCl ₃	B24	0
A531	H	CH ₃	H	CF ₃	B24	0
A532	H	CH ₃ CH ₂	H	CF ₃	B24	0
A533	H	cyclopropyl	H	CF ₃	B24	0
A534	H	(CH ₃) ₃ CH	H	CF ₃	B24	0
A535	H	(CH ₃) ₂ CH	H	CF ₃	B24	0
A536	H	CH ₃ (CH ₂) ₂	H	CF ₃	B24	0
A537	H	CH ₃ OCH ₂	H	CF ₃	B24	0
A538	H	CH ₃ O(CH ₂) ₂	H	CF ₃	B24	0
A539	H	Ph	H	CF ₃	B24	0
A540	H	PhO	H	CF ₃	B24	0
A541	H	PhS	H	CF ₃	B24	0
A542	H	PhSO	H	CF ₃	B24	0
A543	H	PhSO ₂	H	CF ₃	B24	0
A544	H	CH ₃ S	H	CF ₃	B24	0
A545	H	CH ₃ SO	H	CF ₃	B24	0
A546	H	CF ₃	H	CF ₃	B24	0
A547	H	F ₂ CH	H	CF ₃	B24	0
A548	H	HCC	H	CF ₃	B24	0
A549	H	CH ₃ CC	H	CF ₃	B24	0
A550	H	CH ₂ =CH	H	CF ₃	B24	0
A551	H	CH ₂ =CHCH ₂	H	CF ₃	B24	0
A552	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃	B24	0
A553	H	(CH ₃) ₂ N	H	CF ₃	B24	0
A554	H	(CH ₃) ₂ NSO ₂	H	CF ₃	B24	0
A555	H	CH ₃ SCH ₂	H	CF ₃	B24	0
A556	H	CH ₃ SOCH ₂	H	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A557	H	CH ₃ SO ₂ CH ₂	H	CF ₃	B24	0
A558	H	CH ₃	H	CF ₃ CF ₂	B24	0
A559	H	CH ₃ CH ₂	H	CF ₃ CF ₂	B24	0
A560	H	cyclopropyl	H	CF ₃ CF ₂	B24	0
A561	H	(CH ₃) ₃ C	H	CF ₃ CF ₂	B24	0
A562	H	(CH ₃) ₂ CH	H	CF ₃ CF ₂	B24	0
A563	H	CH ₃ (CH ₂) ₂	H	CF ₃ CF ₂	B24	0
A564	H	CH ₃ OCH ₂	H	CF ₃ CF ₂	B24	0
A565	H	CH ₃ O(CH ₂) ₂	H	CF ₃ CF ₂	B24	0
A566	H	Ph	H	CF ₃ CF ₂	B24	0
A567	H	PhO	H	CF ₃ CF ₂	B24	0
A568	H	PhS	H	CF ₃ CF ₂	B24	0
A569	H	PhSO	H	CF ₃ CF ₂	B24	0
A570	H	PhSO ₂	H	CF ₃ CF ₂	B24	0
A571	H	CH ₃ S	H	CF ₃ CF ₂	B24	0
A572	H	CH ₃ SO	H	CF ₃ CF ₂	B24	0
A573	H	CF ₃	H	CF ₃ CF ₂	B24	0
A574	H	F ₂ CH	H	CF ₃ CF ₂	B24	0
A575	H	HCC	H	CF ₃ CF ₂	B24	0
A576	H	CH ₃ CC	H	CF ₃ CF ₂	B24	0
A577	H	CH ₂ =CH	H	CF ₃ CF ₂	B24	0
A578	H	CH ₂ =CHCH ₂	H	CF ₃ CF ₂	B24	0
A579	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃ CF ₂	B24	0
A580	H	(CH ₃) ₂ N	H	CF ₃ CF ₂	B24	0
A581	H	(CH ₃) ₂ NSO ₂	H	CF ₃ CF ₂	B24	0
A582	H	CH ₃ SCH ₂	H	CF ₃ CF ₂	B24	0
A583	H	CH ₃ SOCH ₂	H	CF ₃ CF ₂	B24	0
A584	H	CH ₃ SO ₂ CH ₂	H	CF ₃ CF ₂	B24	0
A585	H	CH ₃	H	CF ₃ CF ₂ CF ₂	B24	0
A586	H	CH ₃ CH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A587	H	cyclopropyl	H	CF ₃ CF ₂ CF ₂	B24	0
A588	H	(CH ₃) ₃ C	H	CF ₃ CF ₂ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A589	H	(CH ₃) ₂ CH	H	CF ₃ CF ₂ CF ₂	B24	0
A590	H	CH ₃ (CH ₂) ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A591	H	CH ₃ OCH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A592	H	CH ₃ O(CH ₂) ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A593	H	Ph	H	CF ₃ CF ₂ CF ₂	B24	0
A594	H	PhO	H	CF ₃ CF ₂ CF ₂	B24	0
A595	H	PhS	H	CF ₃ CF ₂ CF ₂	B24	0
A596	H	PhSO	H	CF ₃ CF ₂ CF ₂	B24	0
A597	H	PhSO ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A598	H	CH ₃ S	H	CF ₃ CF ₂ CF ₂	B24	0
A599	H	CH ₃ SO	H	CF ₃ CF ₂ CF ₂	B24	0
A600	H	CF ₃	H	CF ₃ CF ₂ CF ₂	B24	0
A601	H	F ₂ CH	H	CF ₃ CF ₂ CF ₂	B24	0
A602	H	HCC	H	CF ₃ CF ₂ CF ₂	B24	0
A603	H	CH ₃ CC	H	CF ₃ CF ₂ CF ₂	B24	0
A604	H	CH ₂ =CH	H	CF ₃ CF ₂ CF ₂	B24	0
A605	H	CH ₂ =CHCH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A606	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₃ CF ₂ CF ₂	B24	0
A607	H	(CH ₃) ₂ N	H	CF ₃ CF ₂ CF ₂	B24	0
A608	H	(CH ₃) ₂ NSO ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A609	H	CH ₃ SCH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A610	H	CH ₃ SOCH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A611	H	CH ₃ SO ₂ CH ₂	H	CF ₃ CF ₂ CF ₂	B24	0
A612	H	CH ₃	H	CF ₂ Cl	B24	0
A613	H	CH ₃ CH ₂	H	CF ₂ Cl	B24	0
A614	H	cyclopropyl	H	CF ₂ Cl	B24	0
A615	H	(CH ₃) ₃ C	H	CF ₂ Cl	B24	0
A616	H	(CH ₃) ₂ CH	H	CF ₂ Cl	B24	0
A617	H	CH ₃ (CH ₂) ₂	H	CF ₂ Cl	B24	0
A618	H	CH ₃ OCH ₂	H	CF ₂ Cl	B24	0
A619	H	CH ₃ O(CH ₂) ₂	H	CF ₂ Cl	B24	0
A620	H	Ph	H	CF ₂ Cl	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A621	H	PhO	H	CF ₂ Cl	B24	0
A622	H	PhS	H	CF ₂ Cl	B24	0
A623	H	PhSO	H	CF ₂ Cl	B24	0
A624	H	PhSO ₂	H	CF ₂ Cl	B24	0
A625	H	CH ₃ S	H	CF ₂ Cl	B24	0
A626	H	CH ₃ SO	H	CF ₂ Cl	B24	0
A627	H	CF ₃	H	CF ₂ Cl	B24	0
A628	H	F ₂ CH	H	CF ₂ Cl	B24	0
A629	H	HCC	H	CF ₂ Cl	B24	0
A630	H	CH ₃ CC	H	CF ₂ Cl	B24	0
A631	H	CH ₂ =CH	H	CF ₂ Cl	B24	0
A632	H	CH ₂ =CHCH ₂	H	CF ₂ Cl	B24	0
A633	H	CH ₃ SO ₂ N(CH ₃)	H	CF ₂ Cl	B24	0
A634	H	(CH ₃) ₂ N	H	CF ₂ Cl	B24	0
A635	H	(CH ₃) ₂ NSO ₂	H	CF ₂ Cl	B24	0
A636	H	CH ₃ SCH ₂	H	CF ₂ Cl	B24	0
A637	H	CH ₃ SOCH ₂	H	CF ₂ Cl	B24	0
A638	H	CH ₃ SO ₂ CH ₂	H	CF ₂ Cl	B24	0
A639	H	CH ₃	H	CHF ₂	B24	0
A640	H	CH ₃ CH ₂	H	CHF ₂	B24	0
A641	H	cyclopropyl	H	CHF ₂	B24	0
A642	H	(CH ₃) ₃ C	H	CHF ₂	B24	0
A643	H	(CH ₃) ₂ CH	H	CHF ₂	B24	0
A644	H	CH ₃ (CH ₂) ₂	H	CHF ₂	B24	0
A645	H	CH ₃ OCH ₂	H	CHF ₂	B24	0
A646	H	CH ₃ O(CH ₂) ₂	H	CHF ₂	B24	0
A647	H	Ph	H	CHF ₂	B24	0
A648	H	PhO	H	CHF ₂	B24	0
A649	H	PhS	H	CHF ₂	B24	0
A650	H	PhSO	H	CHF ₂	B24	0
A651	H	PhSO ₂	H	CHF ₂	B24	0
A652	H	CH ₃ S	H	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A653	H	CH ₃ SO	H	CHF ₂	B24	0
A654	H	CF ₃	H	CHF ₂	B24	0
A655	H	F ₂ CH	H	CHF ₂	B24	0
A656	H	HCC	H	CHF ₂	B24	0
A657	H	CH ₃ CC	H	CHF ₂	B24	0
A658	H	CH ₂ =CH	H	CHF ₂	B24	0
A659	H	CH ₂ =CHCH ₂	H	CHF ₂	B24	0
A660	H	CH ₃ SO ₂ N(CH ₃)	H	CHF ₂	B24	0
A661	H	(CH ₃) ₂ N	H	CHF ₂	B24	0
A662	H	(CH ₃) ₂ NSO ₂	H	CHF ₂	B24	0
A663	H	CH ₃ SCH ₂	H	CHF ₂	B24	0
A664	H	CH ₃ SOCH ₂	H	CHF ₂	B24	0
A665	H	CH ₃ SO ₂ CH ₂	H	CHF ₂	B24	0
A666	H	CH ₃	H	CCl ₃	B24	0
A667	H	CH ₃ CH ₂	H	CCl ₃	B24	0
A668	H	cyclopropyl	H	CCl ₃	B24	0
A669	H	(CH ₃) ₃ C	H	CCl ₃	B24	0
A670	H	(CH ₃) ₂ CH	H	CCl ₃	B24	0
A671	H	CH ₃ (CH ₂) ₂	H	CCl ₃	B24	0
A672	H	CH ₃ OCH ₂	H	CCl ₃	B24	0
A673	H	CH ₃ O(CH ₂) ₂	H	CCl ₃	B24	0
A674	H	Ph	H	CCl ₃	B24	0
A675	H	PhO	H	CCl ₃	B24	0
A676	H	PhS	H	CCl ₃	B24	0
A677	H	PhSO	H	CCl ₃	B24	0
A678	H	PhSO ₂	H	CCl ₃	B24	0
A679	H	CH ₃ S	H	CCl ₃	B24	0
A680	H	CH ₃ SO	H	CCl ₃	B24	0
A681	H	CF ₃	H	CCl ₃	B24	0
A682	H	F ₂ CH	H	CCl ₃	B24	0
A683	H	HCC	H	CCl ₃	B24	0
A684	H	CH ₃ CC	H	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A685	H	CH ₂ =CH	H	CCl ₃	B24	0
A686	H	CH ₂ =CHCH ₂	H	CCl ₃	B24	0
A687	H	CH ₃ SO ₂ N(CH ₃)	H	CCl ₃	B24	0
A688	H	(CH ₃) ₂ N	H	CCl ₃	B24	0
A689	H	(CH ₃) ₂ NSO ₂	H	CCl ₃	B24	0
A690	H	CH ₃ SCH ₂	H	CCl ₃	B24	0
A691	H	CH ₃ SOCH ₂	H	CCl ₃	B24	0
A692	H	CH ₃ SO ₂ CH ₂	H	CCl ₃	B24	0
A693	H	CH ₃	CH ₃	CF ₃	B24	0
A694	H	CH ₃ CH ₂	CH ₃	CF ₃	B24	0
A695	H	cyclopropyl	CH ₃	CF ₃	B24	0
A696	H	(CH ₃) ₃ C	CH ₃	CF ₃	B24	0
A697	H	(CH ₃) ₂ CH	CH ₃	CF ₃	B24	0
A698	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃	B24	0
A699	H	CH ₃ OCH ₂	CH ₃	CF ₃	B24	0
A700	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃	B24	0
A701	H	Ph	CH ₃	CF ₃	B24	0
A702	H	PhO	CH ₃	CF ₃	B24	0
A703	H	PhS	CH ₃	CF ₃	B24	0
A704	H	PhSO	CH ₃	CF ₃	B24	0
A705	H	PhSO ₂	CH ₃	CF ₃	B24	0
A706	H	CH ₃ S	CH ₃	CF ₃	B24	0
A707	H	CH ₃ SO	CH ₃	CF ₃	B24	0
A708	H	CF ₃	CH ₃	CF ₃	B24	0
A709	H	F ₂ CH	CH ₃	CF ₃	B24	0
A710	H	HCC	CH ₃	CF ₃	B24	0
A711	H	CH ₃ CC	CH ₃	CF ₃	B24	0
A712	H	CH ₂ =CH	CH ₃	CF ₃	B24	0
A713	H	CH ₂ =CHCH ₂	CH ₃	CF ₃	B24	0
A714	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃	B24	0
A715	H	(CH ₃) ₂ N	CH ₃	CF ₃	B24	0
A716	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A717	H	CH ₃ SCH ₂	CH ₃	CF ₃	B24	0
A718	H	CH ₃ SOCH ₂	CH ₃	CF ₃	B24	0
A719	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃	B24	0
A720	H	CH ₃	CH ₃	CF ₃ CF ₂	B24	0
A721	H	CH ₃ CH ₂	CH ₃	CF ₃ CF ₂	B24	0
A722	H	cyclopropyl	CH ₃	CF ₃ CF ₂	B24	0
A723	H	(CH ₃) ₃ C	CH ₃	CF ₃ CF ₂	B24	0
A724	H	(CH ₃) ₂ CH	CH ₃	CF ₃ CF ₂	B24	0
A725	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃ CF ₂	B24	0
A726	H	CH ₃ OCH ₂	CH ₃	CF ₃ CF ₂	B24	0
A727	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃ CF ₂	B24	0
A728	H	Ph	CH ₃	CF ₃ CF ₂	B24	0
A729	H	PhO	CH ₃	CF ₃ CF ₂	B24	0
A730	H	PhS	CH ₃	CF ₃ CF ₂	B24	0
A731	H	PhSO	CH ₃	CF ₃ CF ₂	B24	0
A732	H	PhSO ₂	CH ₃	CF ₃ CF ₂	B24	0
A733	H	CH ₃ S	CH ₃	CF ₃ CF ₂	B24	0
A734	H	CH ₃ SO	CH ₃	CF ₃ CF ₂	B24	0
A735	H	CF ₃	CH ₃	CF ₃ CF ₂	B24	0
A736	H	F ₂ CH	CH ₃	CF ₃ CF ₂	B24	0
A737	H	HCC	CH ₃	CF ₃ CF ₂	B24	0
A738	H	CH ₃ CC	CH ₃	CF ₃ CF ₂	B24	0
A739	H	CH ₂ =CH	CH ₃	CF ₃ CF ₂	B24	0
A740	H	CH ₂ =CHCH ₂	CH ₃	CF ₃ CF ₂	B24	0
A741	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃ CF ₂	B24	0
A742	H	(CH ₃) ₂ N	CH ₃	CF ₃ CF ₂	B24	0
A743	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃ CF ₂	B24	0
A744	H	CH ₃ SCH ₂	CH ₃	CF ₃ CF ₂	B24	0
A745	H	CH ₃ SOCH ₂	CH ₃	CF ₃ CF ₂	B24	0
A746	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃ CF ₂	B24	0
A747	H	CH ₃	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A748	H	CH ₃ CH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A749	H	cyclopropyl	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A750	H	(CH ₃) ₃ C	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A751	H	(CH ₃) ₂ CH	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A752	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A753	H	CH ₃ OCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A754	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A755	H	Ph	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A756	H	PhO	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A757	H	PhS	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A758	H	PhSO	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A759	H	PhSO ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A760	H	CH ₃ S	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A761	H	CH ₃ SO	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A762	H	CF ₃	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A763	H	F ₂ CH	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A764	H	HCC	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A765	H	CH ₃ CC	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A766	H	CH ₂ =CH	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A767	H	CH ₂ =CHCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A768	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A769	H	(CH ₃) ₂ N	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A770	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A771	H	CH ₃ SCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A772	H	CH ₃ SOCH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A773	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₃ CF ₂ CF ₂	B24	0
A774	H	CH ₃	CH ₃	CF ₂ Cl	B24	0
A775	H	CH ₃ CH ₂	CH ₃	CF ₂ Cl	B24	0
A776	H	cyclopropyl	CH ₃	CF ₂ Cl	B24	0
A777	H	(CH ₃) ₃ C	CH ₃	CF ₂ Cl	B24	0
A778	H	(CH ₃) ₂ CH	CH ₃	CF ₂ Cl	B24	0
A779	H	CH ₃ (CH ₂) ₂	CH ₃	CF ₂ Cl	B24	0
A780	H	CH ₃ OCH ₂	CH ₃	CF ₂ Cl	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A781	H	CH ₃ O(CH ₂) ₂	CH ₃	CF ₂ Cl	B24	0
A782	H	Ph	CH ₃	CF ₂ Cl	B24	0
A783	H	PhO	CH ₃	CF ₂ Cl	B24	0
A784	H	PhS	CH ₃	CF ₂ Cl	B24	0
A785	H	PhSO	CH ₃	CF ₂ Cl	B24	0
A786	H	PhSO ₂	CH ₃	CF ₂ Cl	B24	0
A787	H	CH ₃ S	CH ₃	CF ₂ Cl	B24	0
A788	H	CH ₃ SO	CH ₃	CF ₂ Cl	B24	0
A789	H	CF ₃	CH ₃	CF ₂ Cl	B24	0
A790	H	F ₂ CH	CH ₃	CF ₂ Cl	B24	0
A791	H	HCC	CH ₃	CF ₂ Cl	B24	0
A792	H	CH ₃ CC	CH ₃	CF ₂ Cl	B24	0
A793	H	CH ₂ =CH	CH ₃	CF ₂ Cl	B24	0
A794	H	CH ₂ =CHCH ₂	CH ₃	CF ₂ Cl	B24	0
A795	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CF ₂ Cl	B24	0
A796	H	(CH ₃) ₂ N	CH ₃	CF ₂ Cl	B24	0
A797	H	(CH ₃) ₂ NSO ₂	CH ₃	CF ₂ Cl	B24	0
A798	H	CH ₃ SCH ₂	CH ₃	CF ₂ Cl	B24	0
A799	H	CH ₃ SOCH ₂	CH ₃	CF ₂ Cl	B24	0
A800	H	CH ₃ SO ₂ CH ₂	CH ₃	CF ₂ Cl	B24	0
A801	H	CH ₃	CH ₃	CHF ₂	B24	0
A802	H	CH ₃ CH ₂	CH ₃	CHF ₂	B24	0
A803	H	cyclopropyl	CH ₃	CHF ₂	B24	0
A804	H	(CH ₃) ₃ C	CH ₃	CHF ₂	B24	0
A805	H	(CH ₃) ₂ CH	CH ₃	CHF ₂	B24	0
A806	H	CH ₃ (CH ₂) ₂	CH ₃	CHF ₂	B24	0
A807	H	CH ₃ OCH ₂	CH ₃	CHF ₂	B24	0
A808	H	CH ₃ O(CH ₂) ₂	CH ₃	CHF ₂	B24	0
A809	H	Ph	CH ₃	CHF ₂	B24	0
A810	H	PhO	CH ₃	CHF ₂	B24	0
A811	H	PhS	CH ₃	CHF ₂	B24	0
A812	H	PhSO	CH ₃	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A813	H	PhSO ₂	CH ₃	CHF ₂	B24	0
A814	H	CH ₃ S	CH ₃	CHF ₂	B24	0
A815	H	CH ₃ SO	CH ₃	CHF ₂	B24	0
A816	H	CF ₃	CH ₃	CHF ₂	B24	0
A817	H	F ₂ CH	CH ₃	CHF ₂	B24	0
A818	H	HCC	CH ₃	CHF ₂	B24	0
A819	H	CH ₃ CC	CH ₃	CHF ₂	B24	0
A820	H	CH ₂ =CH	CH ₃	CHF ₂	B24	0
A821	H	CH ₂ =CHCH ₂	CH ₃	CHF ₂	B24	0
A822	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CHF ₂	B24	0
A823	H	(CH ₃) ₂ N	CH ₃	CHF ₂	B24	0
A824	H	(CH ₃) ₂ NSO ₂	CH ₃	CHF ₂	B24	0
A825	H	CH ₃ SCH ₂	CH ₃	CHF ₂	B24	0
A826	H	CH ₃ SOCH ₂	CH ₃	CHF ₂	B24	0
A827	H	CH ₃ SO ₂ CH ₂	CH ₃	CHF ₂	B24	0
A828	H	CH ₃	CH ₃	CCl ₃	B24	0
A829	H	CH ₃ CH ₂	CH ₃	CCl ₃	B24	0
A830	H	cyclopropyl	CH ₃	CCl ₃	B24	0
A831	H	(CH ₃) ₃ C	CH ₃	CCl ₃	B24	0
A832	H	(CH ₃) ₂ CH	CH ₃	CCl ₃	B24	0
A833	H	CH ₃ (CH ₂) ₂	CH ₃	CCl ₃	B24	0
A834	H	CH ₃ OCH ₂	CH ₃	CCl ₃	B24	0
A835	H	CH ₃ O(CH ₂) ₂	CH ₃	CCl ₃	B24	0
A836	H	Ph	CH ₃	CCl ₃	B24	0
A837	H	PhO	CH ₃	CCl ₃	B24	0
A838	H	PhS	CH ₃	CCl ₃	B24	0
A839	H	PhSO	CH ₃	CCl ₃	B24	0
A840	H	PhSO ₂	CH ₃	CCl ₃	B24	0
A841	H	CH ₃ S	CH ₃	CCl ₃	B24	0
A842	H	CH ₃ SO	CH ₃	CCl ₃	B24	0
A843	H	CF ₃	CH ₃	CCl ₃	B24	0
A844	H	F ₂ CH	CH ₃	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A845	H	HCC	CH ₃	CCl ₃	B24	0
A846	H	CH ₃ CC	CH ₃	CCl ₃	B24	0
A847	H	CH ₂ =CH	CH ₃	CCl ₃	B24	0
A848	H	CH ₂ =CHCH ₂	CH ₃	CCl ₃	B24	0
A849	H	CH ₃ SO ₂ N(CH ₃)	CH ₃	CCl ₃	B24	0
A850	H	(CH ₃) ₂ N	CH ₃	CCl ₃	B24	0
A851	H	(CH ₃) ₂ NSO ₂	CH ₃	CCl ₃	B24	0
A852	H	CH ₃ SCH ₂	CH ₃	CCl ₃	B24	0
A853	H	CH ₃ SOCH ₂	CH ₃	CCl ₃	B24	0
A854	H	CH ₃ SO ₂ CH ₂	CH ₃	CCl ₃	B24	0
A855	H	CH ₃	Ph	CF ₃	B24	0
A856	H	CH ₃ CH ₂	Ph	CF ₃	B24	0
A857	H	(CH ₃) ₂ CH	Ph	CF ₃	B24	0
A858	H	(CH ₃) ₂ CH	Ph	CF ₃	B24	0
A859	H	cyclopropyl	Ph	CF ₃	B24	0
A860	H	CH ₃ (CH ₂) ₂	Ph	CF ₃	B24	0
A861	H	CH ₃ OCH ₂	Ph	CF ₃	B24	0
A862	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃	B24	0
A863	H	Ph	Ph	CF ₃	B24	0
A864	H	PhO	Ph	CF ₃	B24	0
A865	H	PhS	Ph	CF ₃	B24	0
A866	H	PhSO	Ph	CF ₃	B24	0
A867	H	PhSO ₂	Ph	CF ₃	B24	0
A868	H	CH ₃ S	Ph	CF ₃	B24	0
A869	H	CH ₃ SO	Ph	CF ₃	B24	0
A870	H	CF ₃	Ph	CF ₃	B24	0
A871	H	F ₂ CH	Ph	CF ₃	B24	0
A872	H	HCC	Ph	CF ₃	B24	0
A873	H	CH ₃ CC	Ph	CF ₃	B24	0
A874	H	CH ₂ =CH	Ph	CF ₃	B24	0
A875	H	CH ₂ =CHCH ₂	Ph	CF ₃	B24	0
A876	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A877	H	(CH ₃) ₂ N	Ph	CF ₃	B24	0
A878	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃	B24	0
A879	H	CH ₃ SCH ₂	Ph	CF ₃	B24	0
A880	H	CH ₃ SOCH ₂	Ph	CF ₃	B24	0
A881	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃	B24	0
A882	H	CH ₃	Ph	CF ₃ CF ₂	B24	0
A883	H	CH ₃ CH ₂	Ph	CF ₃ CF ₂	B24	0
A884	H	cyclopropyl	Ph	CF ₃ CF ₂	B24	0
A885	H	(CH ₃) ₃ C	Ph	CF ₃ CF ₂	B24	0
A886	H	(CH ₃) ₂ CH	Ph	CF ₃ CF ₂	B24	0
A887	H	CH ₃ (CH ₂) ₂	Ph	CF ₃ CF ₂	B24	0
A888	H	CH ₃ OCH ₂	Ph	CF ₃ CF ₂	B24	0
A889	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃ CF ₂	B24	0
A890	H	Ph	Ph	CF ₃ CF ₂	B24	0
A891	H	PhO	Ph	CF ₃ CF ₂	B24	0
A892	H	PhS	Ph	CF ₃ CF ₂	B24	0
A893	H	PhSO	Ph	CF ₃ CF ₂	B24	0
A894	H	PhSO ₂	Ph	CF ₃ CF ₂	B24	0
A895	H	CH ₃ S	Ph	CF ₃ CF ₂	B24	0
A896	H	CH ₃ SO	Ph	CF ₃ CF ₂	B24	0
A897	H	CF ₃	Ph	CF ₃ CF ₂	B24	0
A898	H	F ₂ CH	Ph	CF ₃ CF ₂	B24	0
A899	H	HCC	Ph	CF ₃ CF ₂	B24	0
A900	H	CH ₃ CC	Ph	CF ₃ CF ₂	B24	0
A901	H	CH ₂ =CH	Ph	CF ₃ CF ₂	B24	0
A902	H	CH ₂ =CHCH ₂	Ph	CF ₃ CF ₂	B24	0
A903	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃ CF ₂	B24	0
A904	H	(CH ₃) ₂ N	Ph	CF ₃ CF ₂	B24	0
A905	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃ CF ₂	B24	0
A906	H	CH ₃ SCH ₂	Ph	CF ₃ CF ₂	B24	0
A907	H	CH ₃ SOCH ₂	Ph	CF ₃ CF ₂	B24	0
A908	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃ CF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A909	H	CH ₃	Ph	CF ₃ CF ₂ CF ₂	B24	0
A910	H	CH ₃ CH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A911	H	cyclopropyl	Ph	CF ₃ CF ₂ CF ₂	B24	0
A912	H	(CH ₃) ₃ C	Ph	CF ₃ CF ₂ CF ₂	B24	0
A913	H	(CH ₃) ₂ CH	Ph	CF ₃ CF ₂ CF ₂	B24	0
A914	H	CH ₃ (CH ₂) ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A915	H	CH ₃ OCH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A916	H	CH ₃ O(CH ₂) ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A917	H	Ph	Ph	CF ₃ CF ₂ CF ₂	B24	0
A918	H	PhO	Ph	CF ₃ CF ₂ CF ₂	B24	0
A919	H	PhS	Ph	CF ₃ CF ₂ CF ₂	B24	0
A920	H	PhSO	Ph	CF ₃ CF ₂ CF ₂	B24	0
A921	H	PhSO ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A922	H	CH ₃ S	Ph	CF ₃ CF ₂ CF ₂	B24	0
A923	H	CH ₃ SO	Ph	CF ₃ CF ₂ CF ₂	B24	0
A924	H	CF ₃	Ph	CF ₃ CF ₂ CF ₂	B24	0
A925	H	F ₂ CH	Ph	CF ₃ CF ₂ CF ₂	B24	0
A926	H	HCC	Ph	CF ₃ CF ₂ CF ₂	B24	0
A927	H	CH ₃ CC	Ph	CF ₃ CF ₂ CF ₂	B24	0
A928	H	CH ₂ =CH	Ph	CF ₃ CF ₂ CF ₂	B24	0
A929	H	CH ₂ =CHCH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A930	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₃ CF ₂ CF ₂	B24	0
A931	H	(CH ₃) ₂ N	Ph	CF ₃ CF ₂ CF ₂	B24	0
A932	H	(CH ₃) ₂ NSO ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A933	H	CH ₃ SCH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A934	H	CH ₃ SOCH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A935	H	CH ₃ SO ₂ CH ₂	Ph	CF ₃ CF ₂ CF ₂	B24	0
A936	H	CH ₃	Ph	CF ₂ Cl	B24	0
A937	H	CH ₃ CH ₂	Ph	CF ₂ Cl	B24	0
A938	H	cyclopropyl	Ph	CF ₂ Cl	B24	0
A939	H	(CH ₃) ₃ C	Ph	CF ₂ Cl	B24	0
A940	H	(CH ₃) ₂ CH	Ph	CF ₂ Cl	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A941	H	CH ₃ (CH ₂) ₂	Ph	CF ₂ Cl	B24	0
A942	H	CH ₃ OCH ₂	Ph	CF ₂ Cl	B24	0
A943	H	CH ₃ O(CH ₂) ₂	Ph	CF ₂ Cl	B24	0
A944	H	Ph	Ph	CF ₂ Cl	B24	0
A945	H	PhO	Ph	CF ₂ Cl	B24	0
A946	H	PhS	Ph	CF ₂ Cl	B24	0
A947	H	PhSO	Ph	CF ₂ Cl	B24	0
A948	H	PhSO ₂	Ph	CF ₂ Cl	B24	0
A949	H	CH ₃ S	Ph	CF ₂ Cl	B24	0
A950	H	CH ₃ SO	Ph	CF ₂ Cl	B24	0
A951	H	CF ₃	Ph	CF ₂ Cl	B24	0
A952	H	F ₂ CH	Ph	CF ₂ Cl	B24	0
A953	H	HCC	Ph	CF ₂ Cl	B24	0
A954	H	CH ₃ CC	Ph	CF ₂ Cl	B24	0
A955	H	CH ₂ =CH	Ph	CF ₂ Cl	B24	0
A956	H	CH ₂ =CHCH ₂	Ph	CF ₂ Cl	B24	0
A957	H	CH ₃ SO ₂ N(CH ₃)	Ph	CF ₂ Cl	B24	0
A958	H	(CH ₃) ₂ N	Ph	CF ₂ Cl	B24	0
A959	H	(CH ₃) ₂ NSO ₂	Ph	CF ₂ Cl	B24	0
A960	H	CH ₃ SCH ₂	Ph	CF ₂ Cl	B24	0
A961	H	CH ₃ SOCH ₂	Ph	CF ₂ Cl	B24	0
A962	H	CH ₃ SO ₂ CH ₂	Ph	CF ₂ Cl	B24	0
A963	H	CH ₃	Ph	CHF ₂	B24	0
A964	H	CH ₃ CH ₂	Ph	CHF ₂	B24	0
A965	H	(CH ₃) ₃ C	Ph	CHF ₂	B24	0
A966	H	(CH ₃) ₂ CH	Ph	CHF ₂	B24	0
A967	H	cyclopropyl	Ph	CHF ₂	B24	0
A968	H	CH ₃ (CH ₂) ₂	Ph	CHF ₂	B24	0
A969	H	CH ₃ OCH ₂	Ph	CHF ₂	B24	0
A970	H	CH ₃ O(CH ₂) ₂	Ph	CHF ₂	B24	0
A971	H	Ph	Ph	CHF ₂	B24	0
A972	H	PhO	Ph	CHF ₂	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A973	H	PhS	Ph	CHF ₂	B24	0
A974	H	PhSO	Ph	CHF ₂	B24	0
A975	H	PhSO ₂	Ph	CHF ₂	B24	0
A976	H	CH ₃ S	Ph	CHF ₂	B24	0
A977	H	CH ₃ SO	Ph	CHF ₂	B24	0
A978	H	CF ₃	Ph	CHF ₂	B24	0
A979	H	F ₂ CH	Ph	CHF ₂	B24	0
A980	H	HCC	Ph	CHF ₂	B24	0
A981	H	CH ₃ CC	Ph	CHF ₂	B24	0
A982	H	CH ₂ =CH	Ph	CHF ₂	B24	0
A983	H	CH ₂ =CHCH ₂	Ph	CHF ₂	B24	0
A984	H	CH ₃ SO ₂ N(CH ₃)	Ph	CHF ₂	B24	0
A985	H	(CH ₃) ₂ N	Ph	CHF ₂	B24	0
A986	H	(CH ₃) ₂ NSO ₂	Ph	CHF ₂	B24	0
A987	H	CH ₃ SCH ₂	Ph	CHF ₂	B24	0
A988	H	CH ₃ SOCH ₂	Ph	CHF ₂	B24	0
A989	H	CH ₃ SO ₂ CH ₂	Ph	CHF ₂	B24	0
A990	H	CH ₃	Ph	CCl ₃	B24	0
A991	H	CH ₃ CH ₂	Ph	CCl ₃	B24	0
A992	H	(CH ₃) ₃ C	Ph	CCl ₃	B24	0
A993	H	(CH ₃) ₂ CH	Ph	CCl ₃	B24	0
A994	H	cyclopropyl	Ph	CCl ₃	B24	0
A995	H	CH ₃ (CH ₂) ₂	Ph	CCl ₃	B24	0
A996	H	CH ₃ OCH ₂	Ph	CCl ₃	B24	0
A997	H	CH ₃ O(CH ₂) ₂	Ph	CCl ₃	B24	0
A998	H	Ph	Ph	CCl ₃	B24	0
A999	H	PhO	Ph	CCl ₃	B24	0
A1000	H	PhS	Ph	CCl ₃	B24	0
A1001	H	PhSO	Ph	CCl ₃	B24	0
A1002	H	PhSO ₂	Ph	CCl ₃	B24	0
A1003	H	CH ₃ S	Ph	CCl ₃	B24	0
A1004	H	CH ₃ SO	Ph	CCl ₃	B24	0

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1005	H	CF ₃	Ph	CCl ₃	B24	0
A1006	H	F ₂ CH	Ph	CCl ₃	B24	0
A1007	H	HCC	Ph	CCl ₃	B24	0
A1008	H	CH ₃ CC	Ph	CCl ₃	B24	0
A1009	H	CH ₂ =CH	Ph	CCl ₃	B24	0
A1010	H	CH ₂ =CHCH ₂	Ph	CCl ₃	B24	0
A1011	H	CH ₃ SO ₂ N(CH ₃)	Ph	CCl ₃	B24	0
A1012	H	(CH ₃) ₂ N	Ph	CCl ₃	B24	0
A1013	H	(CH ₃) ₂ NSO ₂	Ph	CCl ₃	B24	0
A1014	H	CH ₃ SCH ₂	Ph	CCl ₃	B24	0
A1015	H	CH ₃ SOCH ₂	Ph	CCl ₃	B24	0
A1016	H	CH ₃ SO ₂ CH ₂	Ph	CCl ₃	B24	0
A1017	F	H	H	CF ₃	B24	0
A1018	Cl	H	H	CF ₃	B24	0
A1019	Br	H	H	CF ₃	B24	0
A1020	NC	H	H	CF ₃	B24	0
A1021	CH ₃ SO ₂ O	H	H	CF ₃	B24	0
A1022	CH ₃ O	H	H	CF ₃	B24	0
A1023	CH ₃ CH ₂ O	H	H	CF ₃	B24	0
A1024	CH ₂ CH=CH ₂ O	H	H	CF ₃	B24	0
A1025	HCCCH ₂ O	H	H	CF ₃	B24	0
A1026	PhCH ₂ S	H	H	CF ₃	B24	0
A1027	PhCH ₂ SO ₂	H	H	CF ₃	B24	0
A1028	ClCH ₂ CH ₂	H	H	CF ₃	B24	0
A1029	BrCH ₂	H	H	CF ₃	B24	0
A1030	FCH ₂	H	H	CF ₃	B24	0
A1031	CHF ₂ CH ₂	H	H	CF ₃	B24	0
A1032	CF ₃ CH ₂	H	H	CF ₃	B24	0
A1033	[1,3]-imidazol-1-ylmethyl	H	H	CF ₃	B24	0
A1034	CHCl ₂ CH ₂	H	H	CF ₃	B24	0
A1035	ClCH=CH	H	H	CF ₃	B24	0

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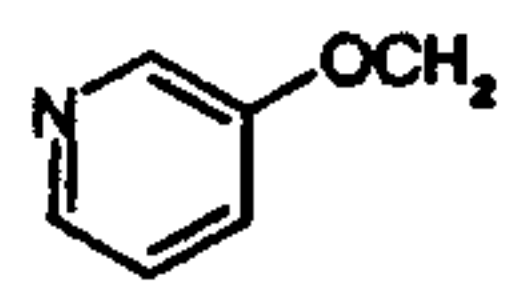
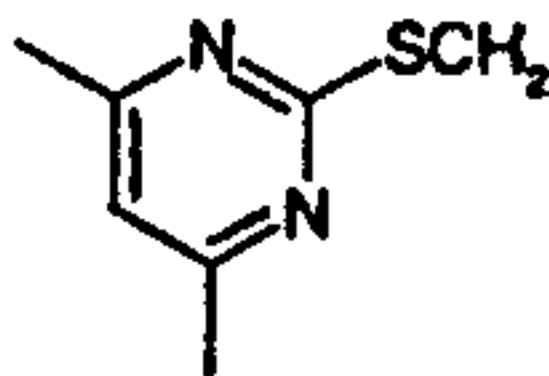
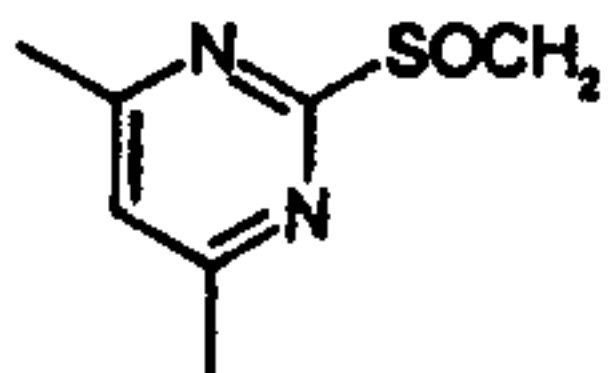
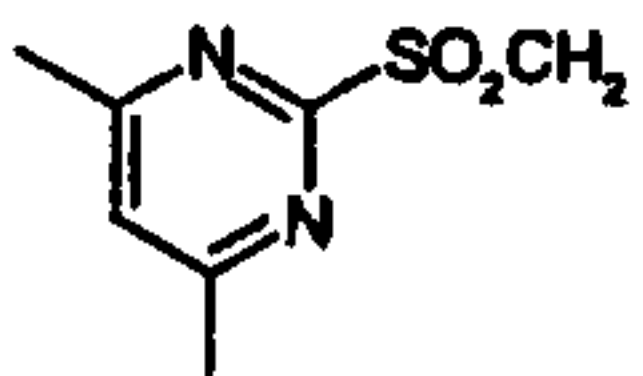
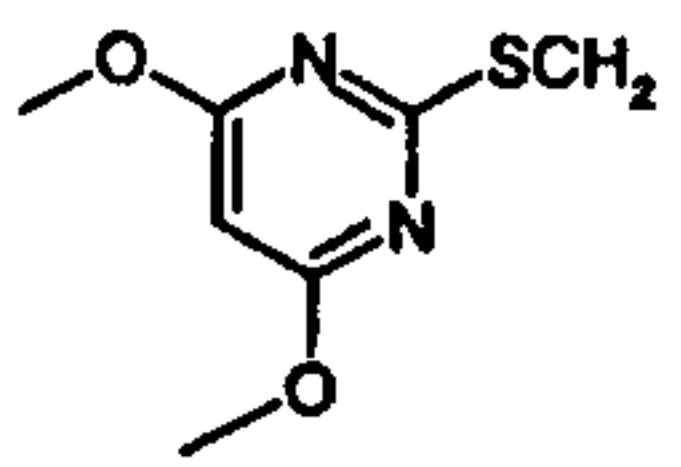
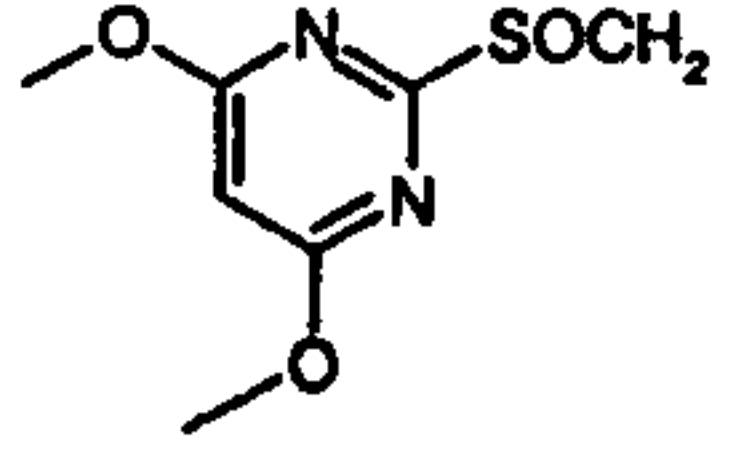
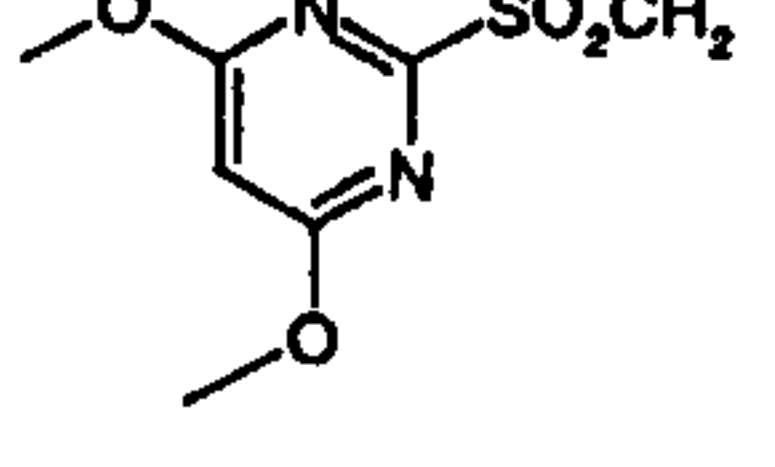
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1036	Cl ₂ C=CH	H	H	CF ₃	B24	0
A1037	CF ₃ CH=CH	H	H	CF ₃	B24	0
A1038	ClCC	H	H	CF ₃	B24	0
A1039	PhCH ₂	H	H	CF ₃	B24	0
A1040	CH ₃ CH ₂	CH ₃	H	CF ₃	B24	0
A1041	CH ₃	OH	H	CF ₃	B24	0
A1042	CH ₃	F	H	CF ₃	B24	0
A1043	CH ₃	Cl	H	CF ₃	B24	0
A1044	F	CH ₃	H	CF ₃	B24	0
A1045	Cl	CH ₃	H	CF ₃	B24	0
A1046	H	F	H	CF ₃	B24	0
A1047	H	Cl	H	CF ₃	B24	0
A1048	H	Br	H	CF ₃	B24	0
A1049	H	OH	H	CF ₃	B24	0
A1050	H	OCH ₃	H	CF ₃	B24	0
A1051	H	OCHF ₂	H	CF ₃	B24	0
A1052	H	OSO ₂ CH ₃	H	CF ₃	B24	0
A1053	H	OSO ₂ CF ₃	H	CF ₃	B24	0
A1054	H	ClCH ₂	H	CF ₃	B24	0
A1055	H	BrCH ₂	H	CF ₃	B24	0
A1056	H	FCH ₂	H	CF ₃	B24	0
A1057	H	CHF ₂ CH ₂	H	CF ₃	B24	0
A1058	H	CF ₃ CH ₂	H	CF ₃	B24	0
A1059	H	triazolylmethyl	H	CF ₃	B24	0
A1060	H	CHCl ₂ CH ₂	H	CF ₃	B24	0
A1061	H	ClCH=CH	H	CF ₃	B24	0
A1062	H	Cl ₂ C=CH	H	CF ₃	B24	0
A1063	H	CF ₃ CH=CH	H	CF ₃	B24	0
A1064	H	ClCC	H	CF ₃	B24	0
A1065	H	CH ₃ C(O)	H	CF ₃	B24	0
A1066	H	Ph	H	CF ₃	B24	0
A1067	H	SO ₂ CH ₃	H	CF ₃	B24	0

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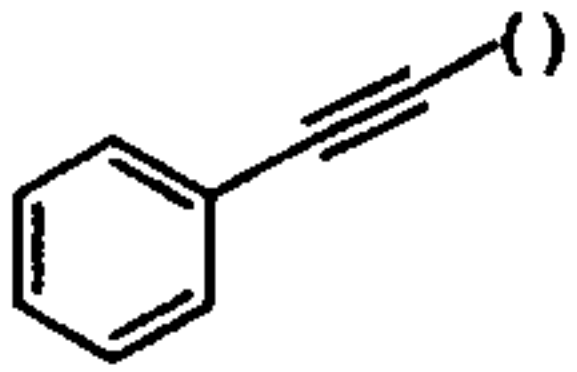
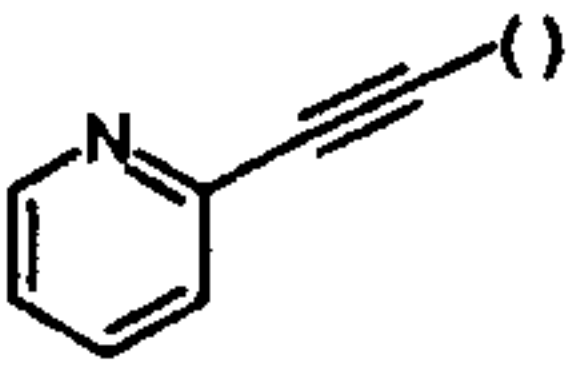
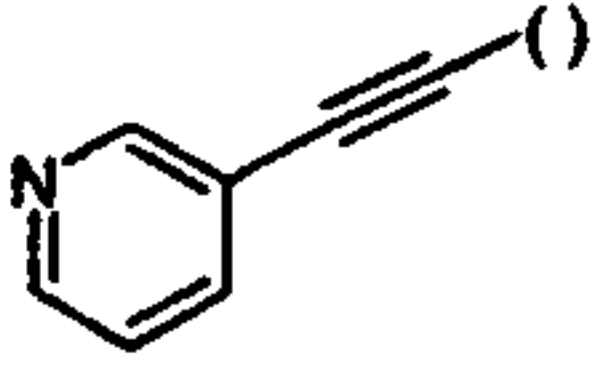
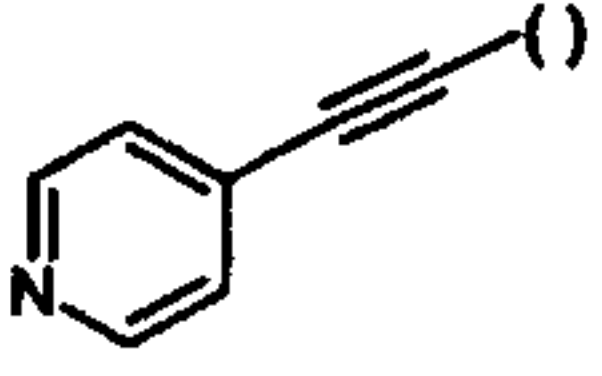
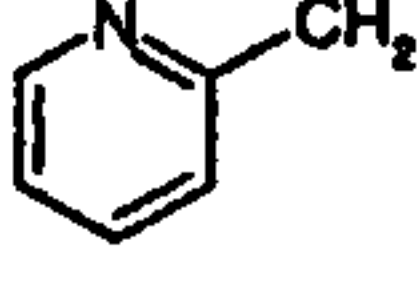
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1068	H	SO ₂ CF ₃	H	CF ₃	B24	0
A1069	H	NC	H	CF ₃	B24	0
A1070	H	NO ₂	H	CF ₃	B24	0
A1071	CH ₃	H	F	CF ₃	B24	0
A1072	CH ₃	H	Cl	CF ₃	B24	0
A1073	CH ₃	H	Br	CF ₃	B24	0
A1074	CH ₃	H	NC	CF ₃	B24	0
A1075	CH ₃	H	CH ₃ O	CF ₃	B24	0
A1076	CH ₃	H	CH ₃ S	CF ₃	B24	0
A1077	CH ₃	H	CH ₃ SO	CF ₃	B24	0
A1078	CH ₃	H	CH ₃ SO ₂	CF ₃	B24	0
A1079	CH ₃ CH ₂ OCH ₂	H	H	CF ₃	B24	0
A1080	PhOCH ₂	H	H	CF ₃	B24	0
A1081		H	H	CF ₃	B24	0
A1082	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₃	B24	0
A1083	BrCH ₂ CH ₂	H	H	CF ₃	B24	0
A1084	FCH ₂ CH ₂	H	H	CF ₃	B24	0
A1085		H	H	CF ₃		0
A1086		H	H	CF ₃	B24	0
A1087		H	H	CF ₃	B24	0
A1088		H	H	CF ₃	B24	0
A1089		H	H	CF ₃	B24	0
A1090		H	H	CF ₃	B24	0

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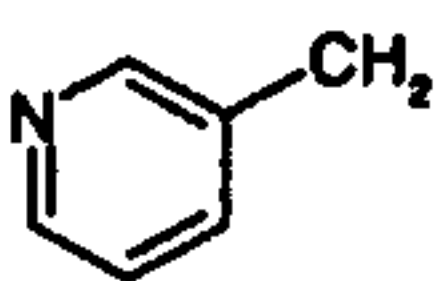
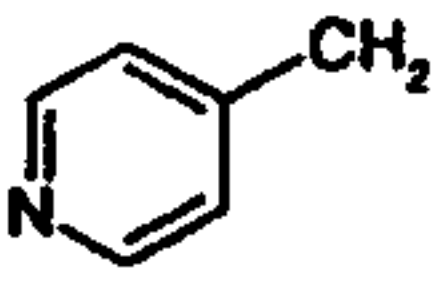
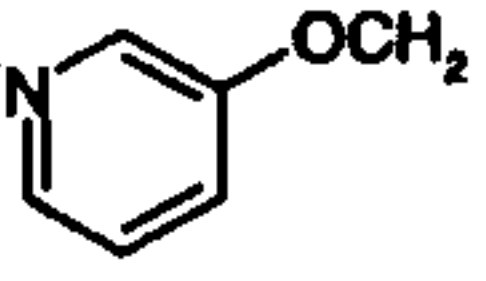
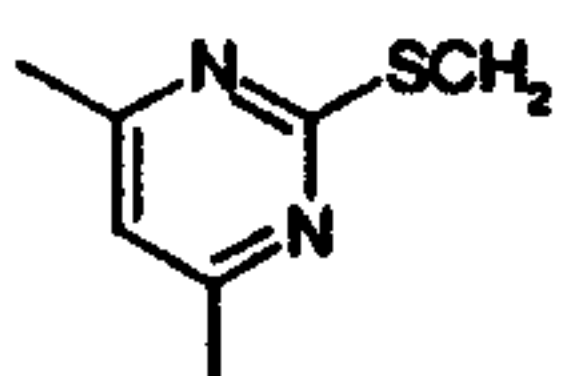
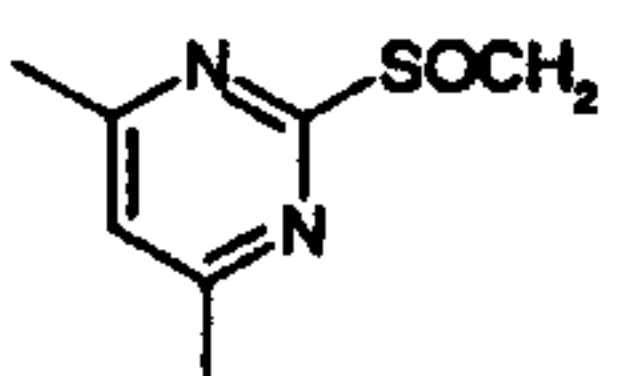
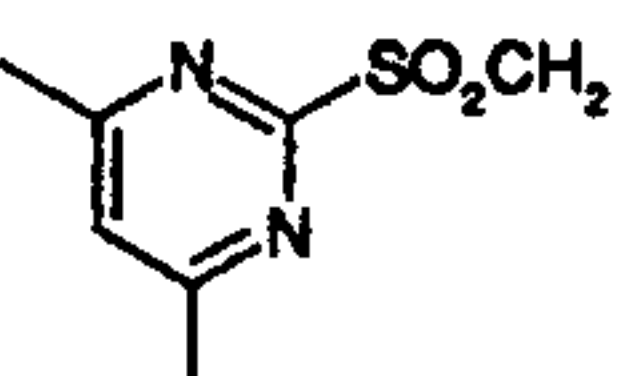
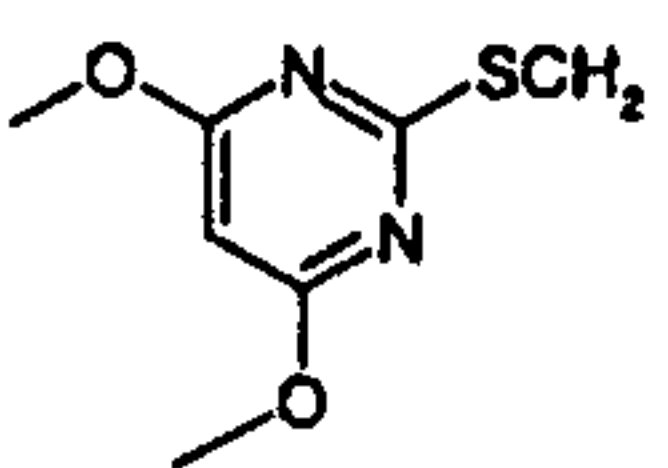
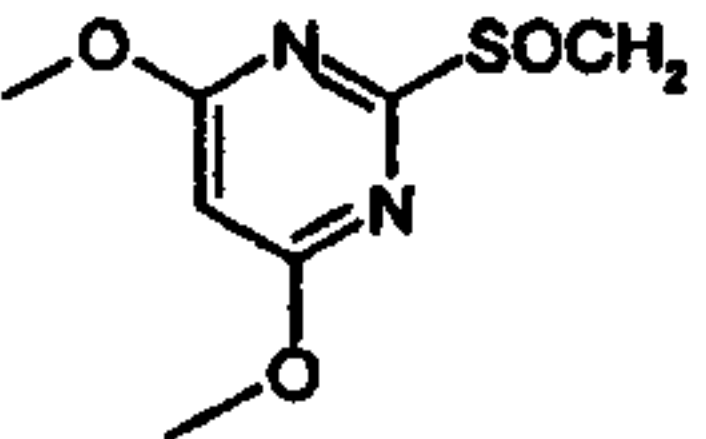
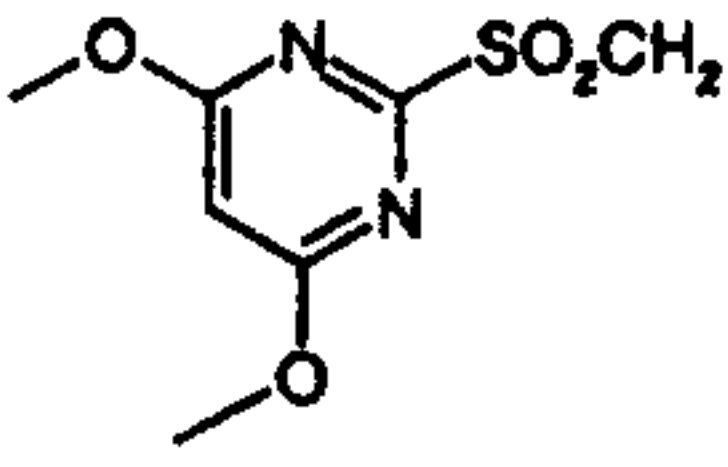
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1091	cyclopropyl-CH ₂	H	H	CF ₃	B24	0
A1092	2,2-dichlorocycloprop- 1-yl	H	H	CF ₃	B24	0
A1093	CH ₃ OC(O)CH=CH	H	H	CF ₃	B24	0
A1094	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₃	B24	0
A1095	ClCH ₂ CH=CH	H	H	CF ₃		0
A1096	CH=C=CH	H	H	CF ₃	B24	0
A1097	(CH ₃) ₂ NCH ₂	H	H	CF ₃	B24	0
A1098	HOCH ₂	H	H	CF ₃	B24	0
A1099	CH ₃ C(O)OCH ₂	H	H	CF ₃	B24	0
A1100	PhC(O)OCH ₂	H	H	CF ₃	B24	0
A1101	PhCH ₂ CH ₂	H	H	CF ₃	B24	0
A1102	CH ₃ OC(O)CH ₂	H	H	CF ₃	B24	0
A1103	NCCH ₂	H	H	CF ₃	B24	0
A1104	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₃	B24	0
A1105	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₃	B24	0
A1106	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₃	B24	0
A1107		H	H	CF ₃	B24	0
A1108	ClCH ₂ CC	H	H	CF ₃	B24	0
A1109	CHF ₂ CH ₂ CH ₂	H	H	CF ₃	B24	0
A1110	CHCl ₂ CH ₂ CH ₂	H	H	CF ₃	B24	0
A1111	CF ₃ SO ₂ O	H	H	CF ₃	B24	0
A1112		H	H	CF ₃	B24	0
A1113		H	H	CF ₃	B24	0
A1114		H	H	CF ₃	B24	0
A1115		H	H	CF ₃	B24	0

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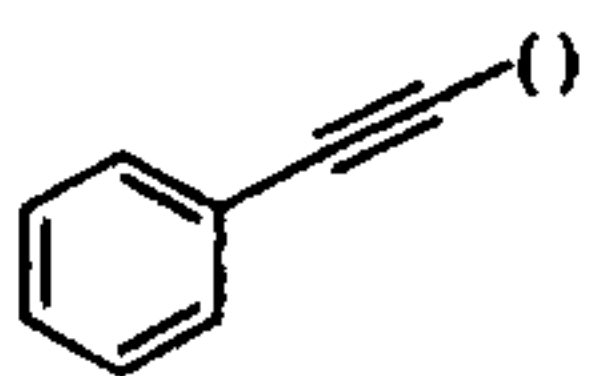
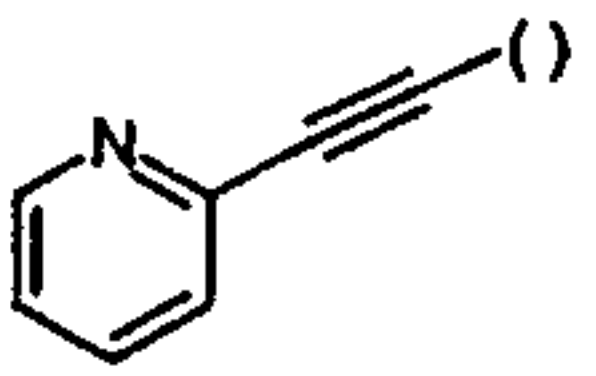
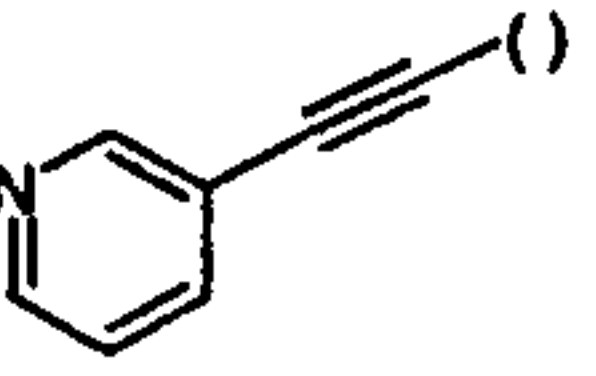
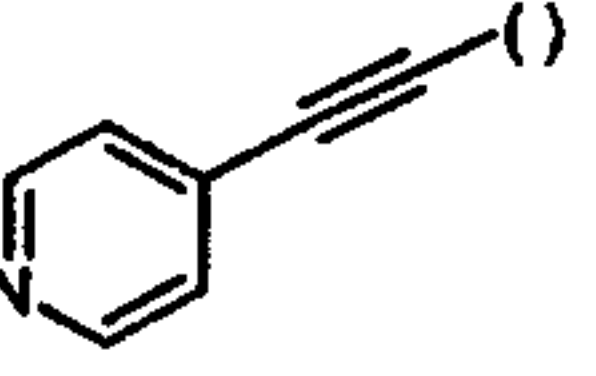
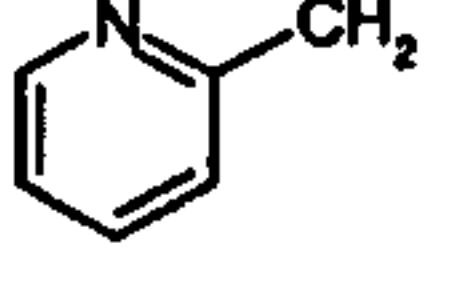
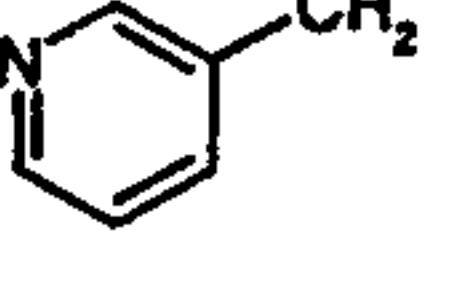
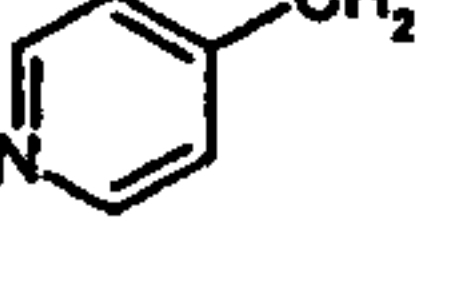
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1116		H	H	CF ₃	B24	0
A1117		H	H	CF ₃	B24	0
A1118	CH ₃ ON=CHCH ₂	H	H	CF ₃	B24	0
A1119	O=CHCH ₂	H	H	CF ₃	B24	0
A1120	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ Cl	B24	0
A1121	PhOCH ₂	H	H	CF ₂ Cl	B24	0
A1122		H	H	CF ₂ Cl	B24	0
A1123	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ Cl	B24	0
A1124	BrCH ₂	H	H	CF ₂ Cl	B24	0
A1125	FCH ₂	H	H	CF ₂ Cl	B24	0
A1126		H	H	CF ₂ Cl	B24	0
A1127		H	H	CF ₂ Cl	B24	0
A1128		H	H	CF ₂ Cl	B24	0
A1129		H	H	CF ₂ Cl	B24	0
A1130		H	H	CF ₂ Cl	B24	0
A1131		H	H	CF ₂ Cl	B24	0
A1132	cyclopropyl-CH ₂	H	H	CF ₂ Cl	B24	0
A1133	2,2-dichlorocycloprop- 1-yl	H	H	CF ₂ Cl	B24	0
A1134	CH ₃ OC(O)CH=CH	H	H	CF ₂ Cl	B24	0
A1135	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₂ Cl	B24	0

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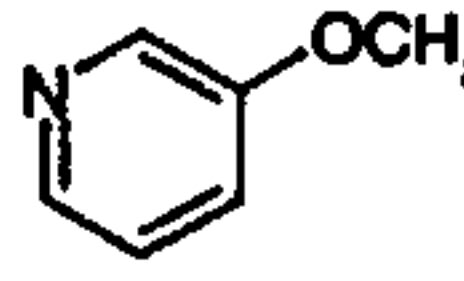
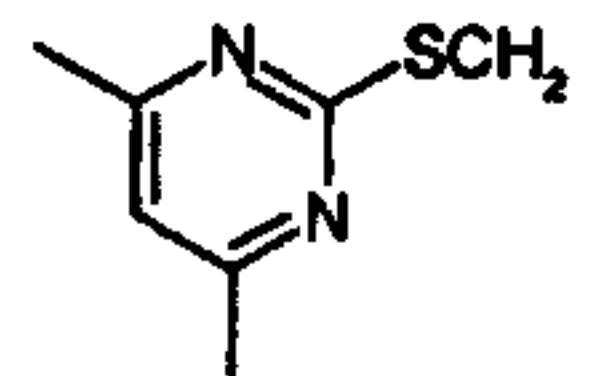
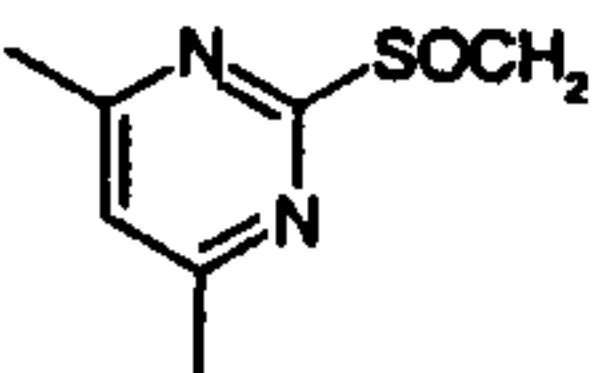
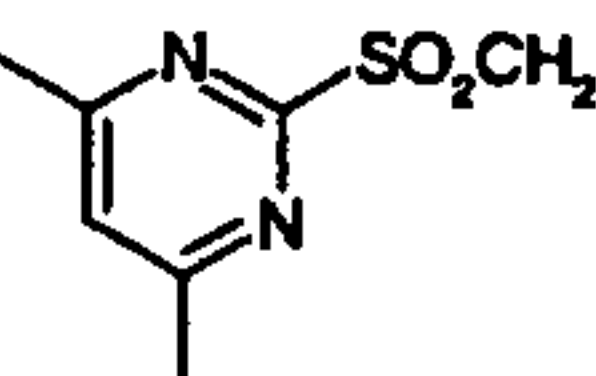
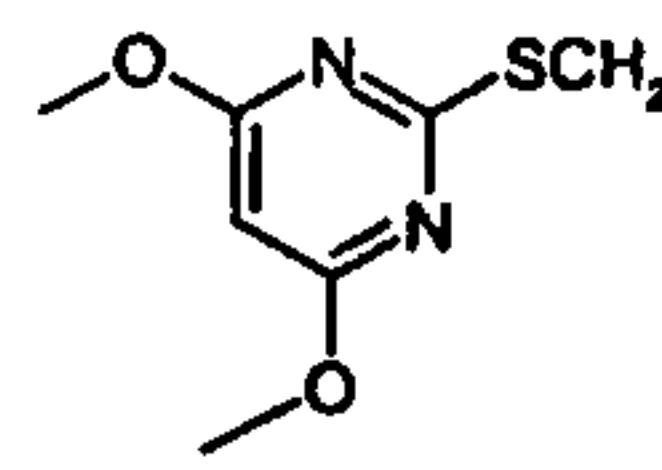
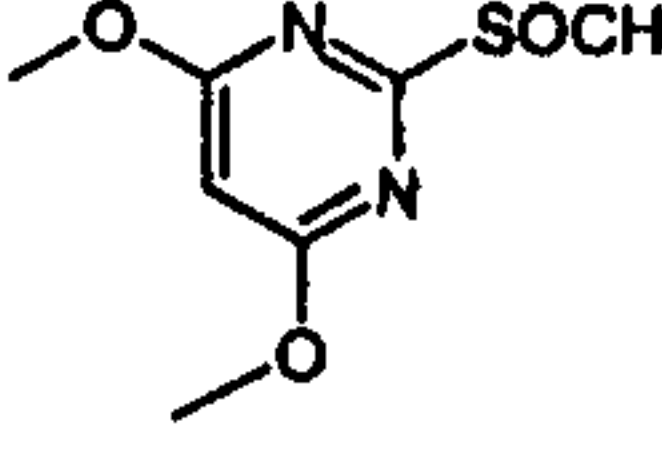
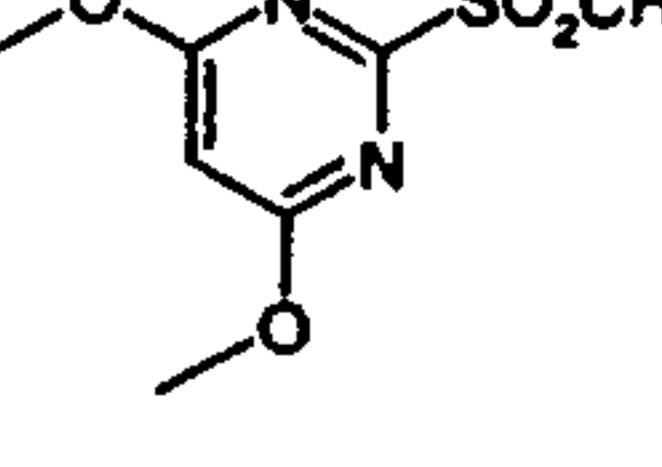
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1136	ClCH ₂ CH=CH	H	H	CF ₂ Cl	B24	0
A1137	CH=C=CH	H	H	CF ₂ Cl	B24	0
A1138	(CH ₃) ₂ NCH ₂	H	H	CF ₂ Cl	B24	0
A1139	HOCH ₂	H	H	CF ₂ Cl	B24	0
A1140	CH ₃ C(O)OCH ₂	H	H	CF ₂ Cl	B24	0
A1141	PhC(O)OCH ₂	H	H	CF ₂ Cl	B24	0
A1142	PhCH ₂	H	H	CF ₂ Cl	B24	0
A1143	CH ₃ OC(O)CH ₂	H	H	CF ₂ Cl	B24	0
A1144	NCCH ₂	H	H	CF ₂ Cl	B24	0
A1145	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₂ Cl	B24	0
A1146	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₂ Cl	B24	0
A1147	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ Cl	B24	0
A1148		H	H	CF ₂ Cl	B24	0
A1149	ClCH ₂ CC	H	H	CF ₂ Cl	B24	0
A1150	Br	H	H	CF ₂ Cl	B24	0
A1151	Cl	H	H	CF ₂ Cl	B24	0
A1152	CF ₃ SO ₂ O	H	H	CF ₂ Cl	B24	0
A1153		H	H	CF ₂ Cl	B24	0
A1154		H	H	CF ₂ Cl	B24	0
A1155		H	H	CF ₂ Cl	B24	0
A1156		H	H	CF ₂ Cl	B24	0
A1157		H	H	CF ₂ Cl	B24	0
A1158		H	H	CF ₂ Cl	B24	0
A1159	CH ₃ ON=CHCH ₂	H	H	CF ₂ Cl	B24	0
A1160	O=CHCH ₂	H	H	CF ₂ Cl	B24	0

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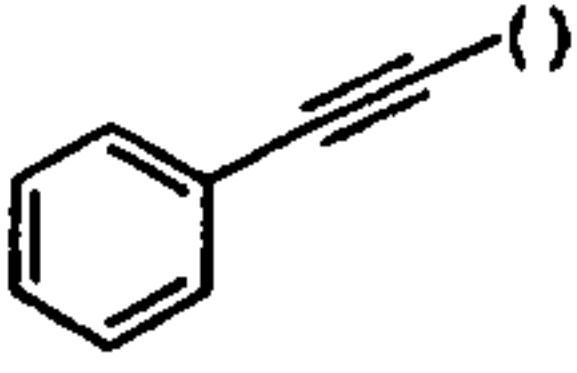
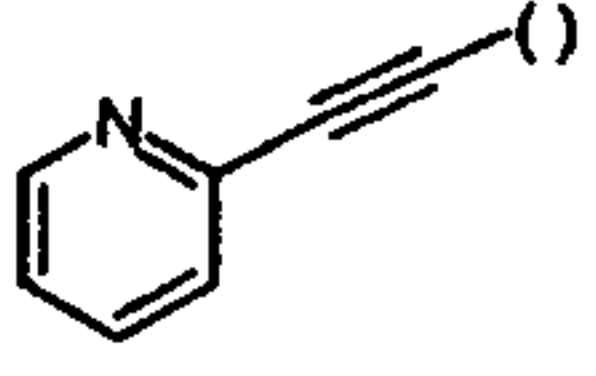
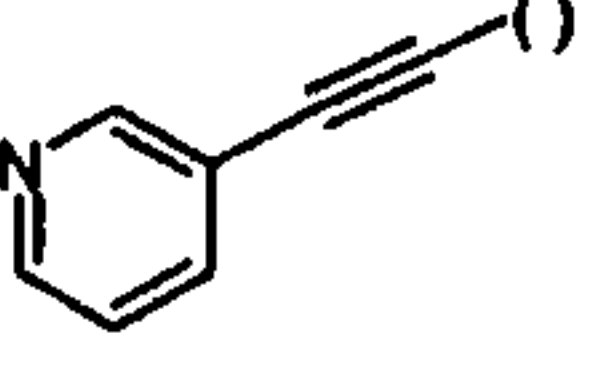
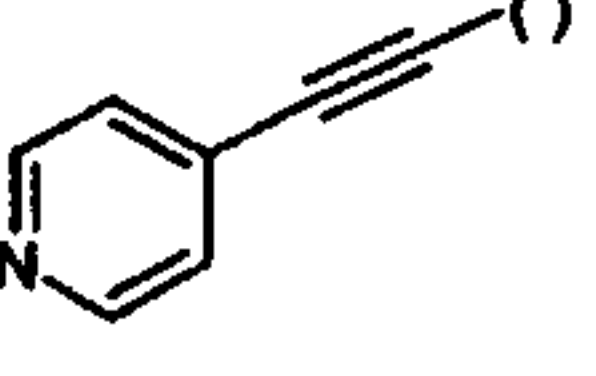
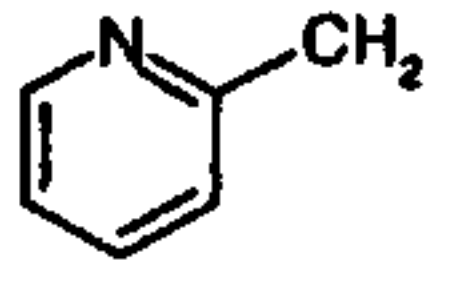
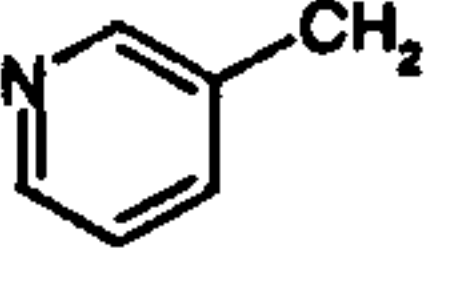
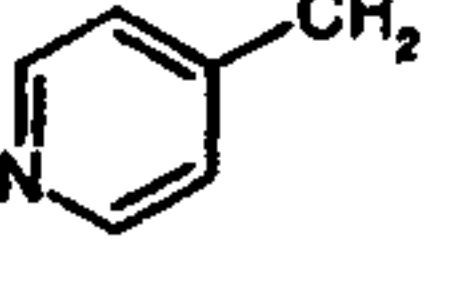
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1161	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ H	B24	0
A1162	PhOCH ₂	H	H	CF ₂ H	B24	0
A1163		H	H	CF ₂ H	B24	0
A1164	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ H	B24	0
A1165	BrCH ₂	H	H	CF ₂ H	B24	0
A1166	FCH ₂	H	H	CF ₂ H	B24	0
A1167		H	H	CF ₂ H	B24	0
A1168		H	H	CF ₂ H	B24	0
A1169		H	H	CF ₂ H	B24	0
A1170		H	H	CF ₂ H	B24	0
A1171		H	H	CF ₂ H	B24	0
A1172		H	H	CF ₂ H	B24	0
A1173	cyclopropyl-CH ₂	H	H	CF ₂ H	B24	0
A1174	2,2-dichlorocycloprop- 1-yl	H	H	CF ₂ H	B24	0
A1175	CH ₃ OC(O)CH=CH	H	H	CF ₂ H	B24	0
A1176	CH ₃ CH ₂ OC(O)CH=CH	H	H	CF ₂ H	B24	0
A1177	ClCH ₂ CH=CH	H	H	CF ₂ H	B24	0
A1178	CH=C=CH	H	H	CF ₂ H	B24	0
A1179	(CH ₃) ₂ NCH ₂	H	H	CF ₂ H	B24	0
A1180	HOCH ₂	H	H	CF ₂ H	B24	0
A1181	CH ₃ C(O)OCH ₂	H	H	CF ₂ H	B24	0
A1182	PhC(O)OCH ₂	H	H	CF ₂ H	B24	0

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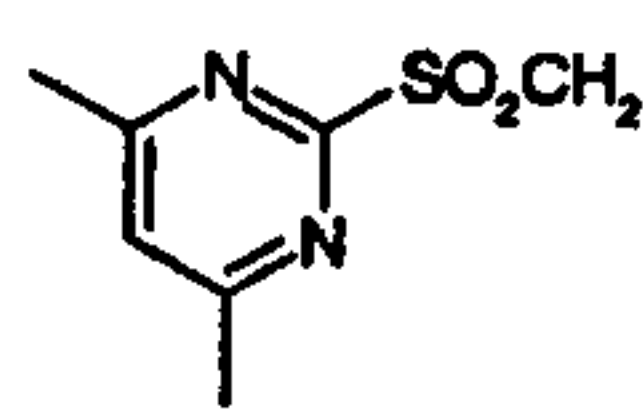
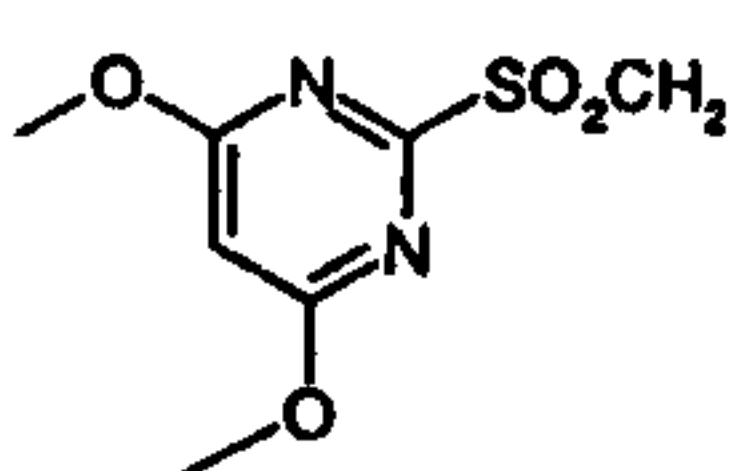
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1183	PhCH ₂	H	H	CF ₂ H	B24	0
A1184	CH ₃ OC(O)CH ₂	H	H	CF ₂ H	B24	0
A1185	NCCH ₂	H	H	CF ₂ H	B24	0
A1186	CH ₃ (CH ₂) ₇ SCH ₂	H	H	CF ₂ H	B24	0
A1187	CH ₃ (CH ₂) ₇ SOCH ₂	H	H	CF ₂ H	B24	0
A1188	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ H	B24	0
A1189		H	H	CF ₂ H	B24	0
A1190	ClCH ₂ CC	H	H	CF ₂ H	B24	0
A1191	Br	H	H	CF ₂ H	B24	0
A1192	Cl	H	H	CF ₂ H	B24	0
A1193	CF ₃ SO ₂ O	H	H	CF ₂ H	B24	0
A1194		H	H	CF ₂ H	B24	0
A1195		H	H	CF ₂ H	B24	0
A1196		H	H	CF ₂ H	B24	0
A1197		H	H	CF ₂ H	B24	0
A1198		H	H	CF ₂ H	B24	0
A1199		H	H	CF ₂ H	B24	0
A1200	CH ₃ ON=CHCH ₂	H	H	CF ₂ H	B24	0
A1201	O=CHCH ₂	H	H	CF ₂ H	B24	0
A1202	CH ₃ CH=CH	H	H	CF ₃	B24	0
A1203	CH ₃ SO ₂ NH	H	H	CF ₃	B24	0
A1204	CH ₃ CH ₂ CH ₂ O	H	CH ₃	CF ₃	B24	0
A1205	Cl	CH ₃	H	CF ₃	B24	0
A1206	F ₂ CHO	H	H	CF ₃	B24	0
A1207	CH ₃ CH ₂ C(O)OCH ₂	H	H	CF ₃	B24	0

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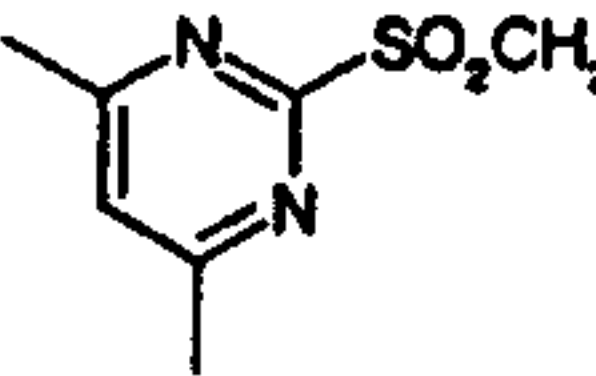
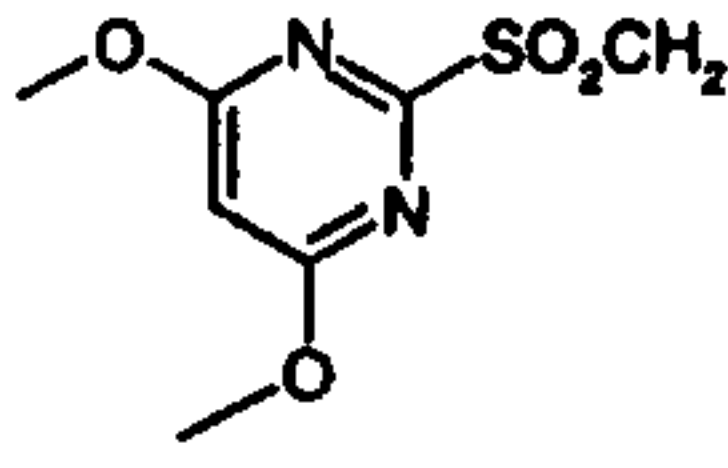
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1208	CH ₃ CH ₂ OC(O)OCH ₂	H	H	CF ₃	B24	0
A1209	CH ₃ OCH ₂ OCH ₂	H	H	CF ₃	B24	0
A1210	CH ₃	H	H	CF ₃	B24	1
A1211	CH ₃ CH ₂	H	H	CF ₃	B24	1
A1212	cyclopropyl	H	H	CF ₃	B24	1
A1213	CH ₃ (CH ₂) ₂	H	H	CF ₃	B24	1
A1214	CH ₃ OCH ₂	H	H	CF ₃	B24	1
A1215	CF ₃	H	H	CF ₃	B24	1
A1216	F ₂ CH	H	H	CF ₃	B24	1
A1217	ClCH ₂	H	H	CF ₃	B24	1
A1218	CH ₃ SO ₂ CH ₂	H	H	CF ₃	B24	1
A1219	CH ₃	CF ₃	H	CH ₃	B24	1
A1220	CH ₃ CH ₂ OCH ₂	H	H	CF ₃	B24	1
A1221	PhOCH ₂	H	H	CF ₃	B24	1
A1222	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₃	B24	1
A1223	BrCH ₂	H	H	CF ₃	B24	1
A1224	FCH ₂	H	H	CF ₃	B24	1
A1225		H	H	CF ₃	B24	1
A1226		H	H	CF ₃	B24	1
A1227	cyclopropyl-CH ₂	H	H	CF ₃	B24	1
A1228	2,2-dichlorocycloprop- 1-yl	H	H	CF ₃	B24	1
A1229	(CH ₃) ₂ NCH ₂	H	H	CF ₃	B24	1
A1230	HOCH ₂	H	H	CF ₃	B24	1
A1231	CH ₃ C(O)OCH ₂	H	H	CF ₃	B24	1
A1232	PhC(O)OCH ₂	H	H	CF ₃	B24	1
A1233	PhCH ₂	H	H	CF ₃	B24	1
A1234	CH ₃ OC(O)CH ₂	H	H	CF ₃	B24	1
A1235	NCCH ₂	H	H	CF ₃	B24	1

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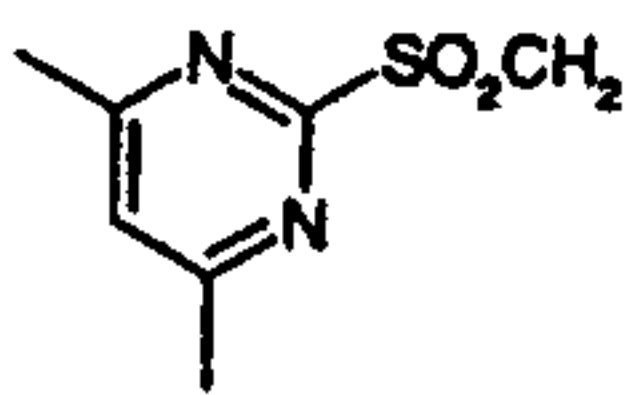
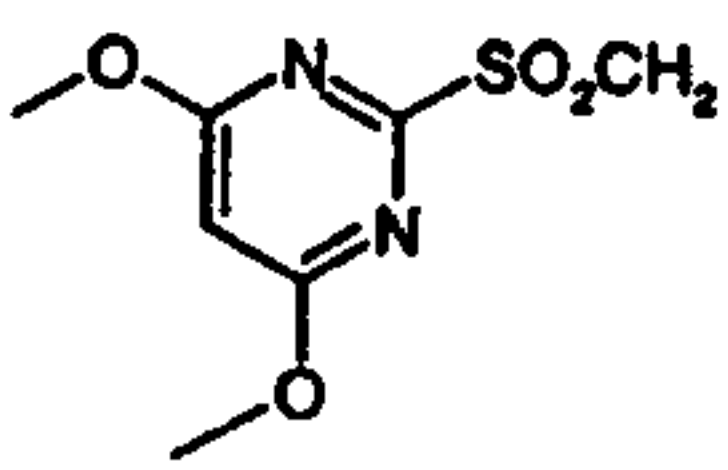
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1236	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₃	B24	1
A1237	Br	H	H	CF ₃	B24	1
A1238	Cl	H	H	CF ₃	B24	1
A1239	O=CHCH ₂	H	H	CF ₃	B24	1
A1240	CH ₃	H	H	CF ₂ Cl	B24	1
A1241	CH ₃ CH ₂	H	H	CF ₂ Cl	B24	1
A1242	cyclopropyl	H	H	CF ₂ Cl	B24	1
A1243	CH ₃ (CH ₂) ₂	H	H	CF ₂ Cl	B24	1
A1244	CH ₃ OCH ₂	H	H	CF ₂ Cl	B24	1
A1245	CF ₃	H	H	CF ₂ Cl	B24	1
A1246	F ₂ CH	H	H	CF ₂ Cl	B24	1
A1247	ClCH ₂	H	H	CF ₂ Cl	B24	1
A1248	CH ₃ SO ₂ CH ₂	H	H	CF ₂ Cl	B24	1
A1249	CH ₃	CF ₃	H	CF ₂ Cl	B24	1
A1250	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ Cl	B24	1
A1251	PhOCH ₂	H	H	CF ₂ Cl	B24	1
A1252	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ Cl	B24	1
A1253	BrCH ₂	H	H	CF ₂ Cl	B24	1
A1254	FCH ₂	H	H	CF ₂ Cl	B24	1
A1255		H	H	CF ₂ Cl	B24	1
A1256		H	H	CF ₂ Cl	B24	1
A1257	cyclopropyl-CH ₂	H	H	CF ₂ Cl	B24	1
A1258	2,2-dichlorocycloprop- 1-yl	H	H	CF ₂ Cl	B24	1
A1259	(CH ₃) ₂ NCH ₂	H	H	CF ₂ Cl	B24	1
A1260	HOCH ₂	H	H	CF ₂ Cl	B24	1
A1261	CH ₃ C(O)OCH ₂	H	H	CF ₂ Cl	B24	1
A1262	PhC(O)OCH ₂	H	H	CF ₂ Cl	B24	1
A1263	PhCH ₂	H	H	CF ₂ Cl	B24	1

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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1264	CH ₃ OC(O)CH ₂	H	H	CF ₂ Cl	B24	1
A1265	NCCH ₂	H	H	CF ₂ Cl	B24	1
A1266	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ Cl	B24	1
A1267	Br	H	H	CF ₂ Cl	B24	1
A1268	Cl	H	H	CF ₂ Cl	B24	1
A1269	O=CHCH ₂	H	H	CF ₂ Cl	B24	1
A1270	CH ₃	H	H	CF ₂ H	B24	1
A1271	CH ₃ CH ₂	H	H	CF ₂ H	B24	1
A1272	cyclopropyl	H	H	CF ₂ H	B24	1
A1273	CH ₃ (CH ₂) ₂	H	H	CF ₂ H	B24	1
A1274	CH ₃ OCH ₂	H	H	CF ₂ H	B24	1
A1275	CF ₃	H	H	CF ₂ H	B24	1
A1276	F ₂ CH	H	H	CF ₂ H	B24	1
A1277	ClCH ₂	H	H	CF ₂ H	B24	1
A1278	CH ₃ SO ₂ CH ₂	H	H	CF ₂ H	B24	1
A1279	CH ₃	CF ₃	H	CF ₂ H	B24	1
A1280	CH ₃ CH ₂ OCH ₂	H	H	CF ₂ H	B24	1
A1281	PhOCH ₂	H	H	CF ₂ H	B24	1
A1282	(CH ₃) ₂ CH ₂ OCH ₂	H	H	CF ₂ H	B24	1
A1283	BrCH ₂	H	H	CF ₂ H	B24	1
A1284	FCH ₂	H	H	CF ₂ H	B24	1
A1285		H	H	CF ₂ H	B24	1
A1286		H	H	CF ₂ H	B24	1
A1287	cyclopropyl-CH ₂	H	H	CF ₂ H	B24	1
A1288	2,2-dichlorocycloprop- 1-yl	H	H	CF ₂ H	B24	1
A1289	(CH ₃) ₂ NCH ₂	H	H	CF ₂ H	B24	1
A1290	HOCH ₂	H	H	CF ₂ H	B24	1
A1291	CH ₃ C(O)OCH ₂	H	H	CF ₂ H	B24	1

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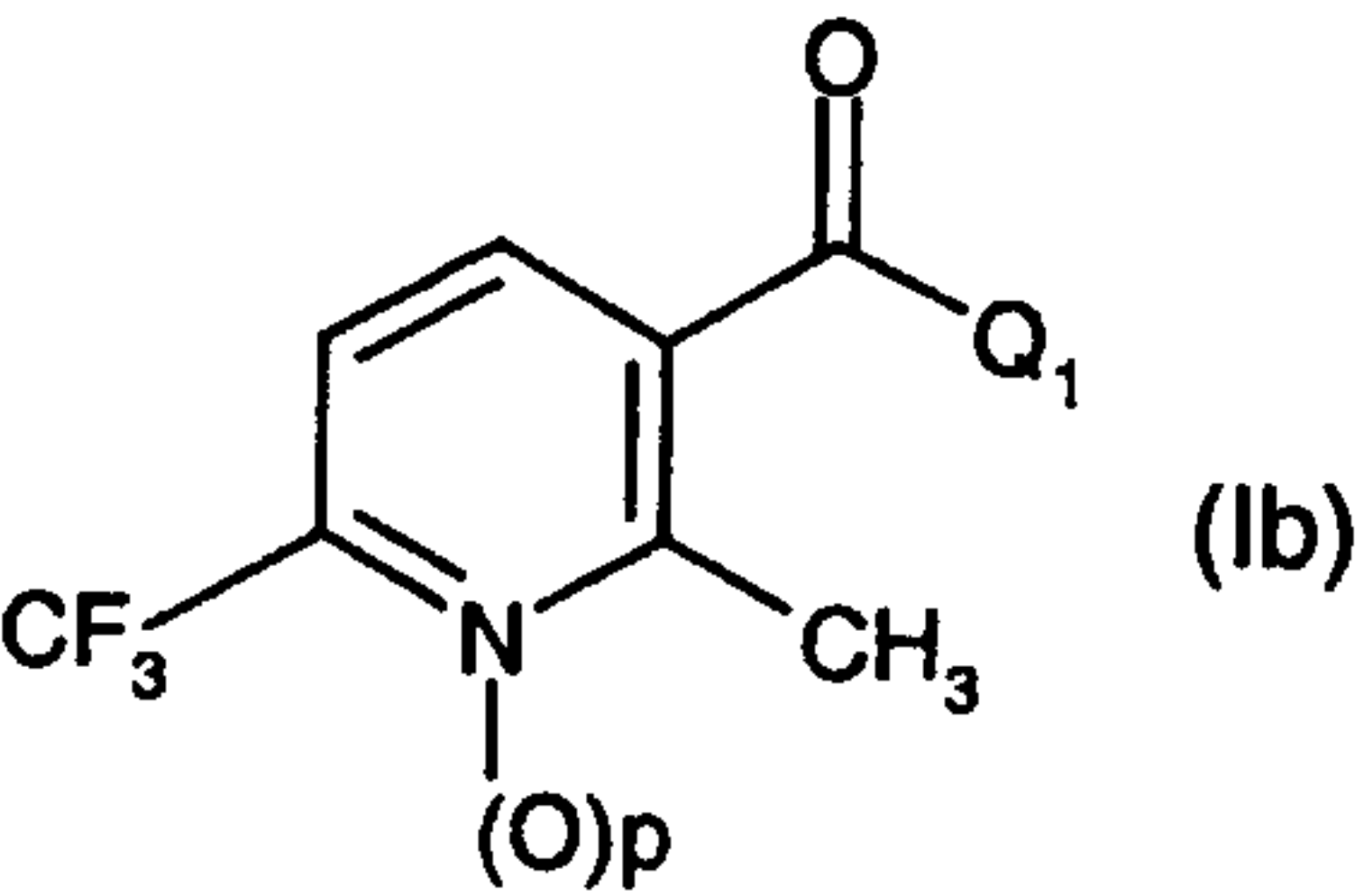
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Comp. No.	R ₂	R ₃	R ₄	R ₅	Q ₁	p
A1292	PhC(O)OCH ₂	H	H	CF ₂ H	B24	1
A1293	PhCH ₂	H	H	CF ₂ H	B24	1
A1294	CH ₃ OC(O)CH ₂	H	H	CF ₂ H	B24	1
A1295	NCCH ₂	H	H	CF ₂ H	B24	1
A1296	CH ₃ (CH ₂) ₇ SO ₂ CH ₂	H	H	CF ₂ H	B24	1
A1297	Br	H	H	CF ₂ H	B24	1
A1298	Cl	H	H	CF ₂ H	B24	1
A1299	O=CHCH ₂	H	H	CF ₂ H	B24	1
A1300	CH ₃	H	H	CF ₃ CF ₂	B24	1
A1301	HO	H	Ph	CF ₃	B24	0
A1302	CH ₃	H	CH ₂ =CH	CF ₃	B24	0
A1303	CH ₃	H	CH ₃ CH ₂ O	CF ₃	B24	0
A1304	HO	CH ₃	H	CF ₃	B24	0
A1305	HO	H	H	CF ₃	B24	0
A1306	(CH ₃ CH ₂) ₂ N(O)CO	H	H	CF ₃	B24	0
A1307	CH ₃	H	tosyl-O	CF ₃	B24	0
A1308	CH ₃	H	CH ₃ CC	CF ₃	B24	0
A1309	CH ₃	H	HCC	CF ₃	B24	0
A1310	CH ₃	H	ClCH ₂ CC	CF ₃	B24	0
A1311	CH ₃	H	PhCH ₂ O	CF ₃	B24	0
A1312	CH ₃	H	CF ₃ SO ₂ O	CF ₃	B24	0
A1313	CH ₃	H	(CH ₃) ₂ N	CF ₃	B24	0
A1314	CH ₃	H	CH ₃ C(O)O	CF ₃	B24	0
A1315	CH ₃	H	CH ₃ CH ₂ C(O) O	CF ₃	B24	0
A1316	CH ₃	H	PhC(O)O	CF ₃	B24	0
A1317	CH ₃	H	3-pyridyl	CF ₃	B24	0
A1318	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ Cl	B24	0
A1319	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ H	B24	0
A1320	CH ₃ OCH ₂ OCH ₂	H	H	CF ₂ CF ₃	B24	0
A1321	CH ₃ OCH ₂ OCH ₂	H	H	CF ₃	B24	1
A1322	CH ₃ O	H	CH ₃	CF ₃	B24	0

In the formulaic representations of the tables (for example Table 7, compound A 1088, substituent R₂), the linkage site with the pyridine ring is on the right-hand side of the formulaic representation. Terminal valencies are a methyl group.

Table 8: Compounds of the formula Ib (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796

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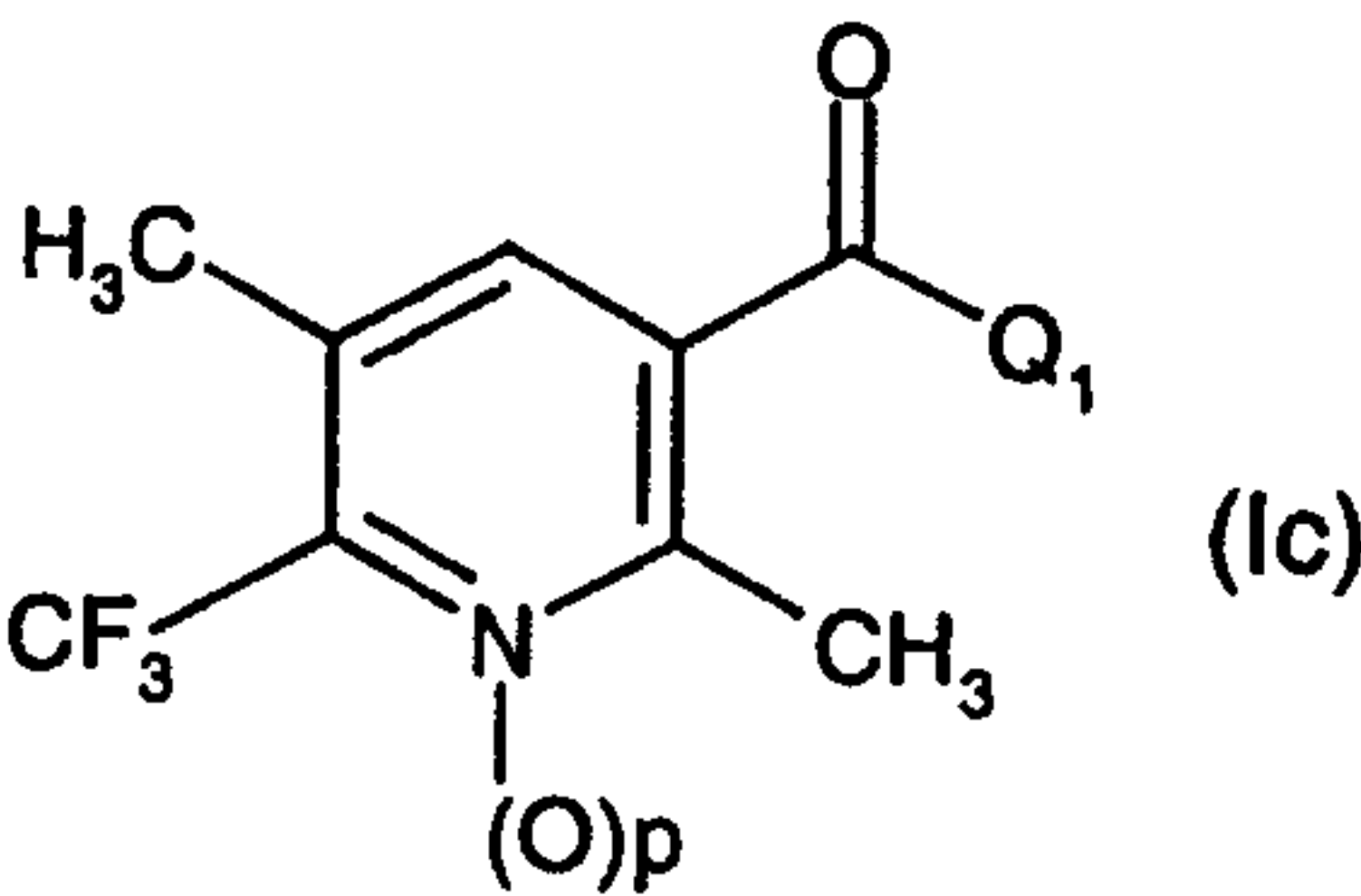
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 9: Compounds of the formula Ic (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648

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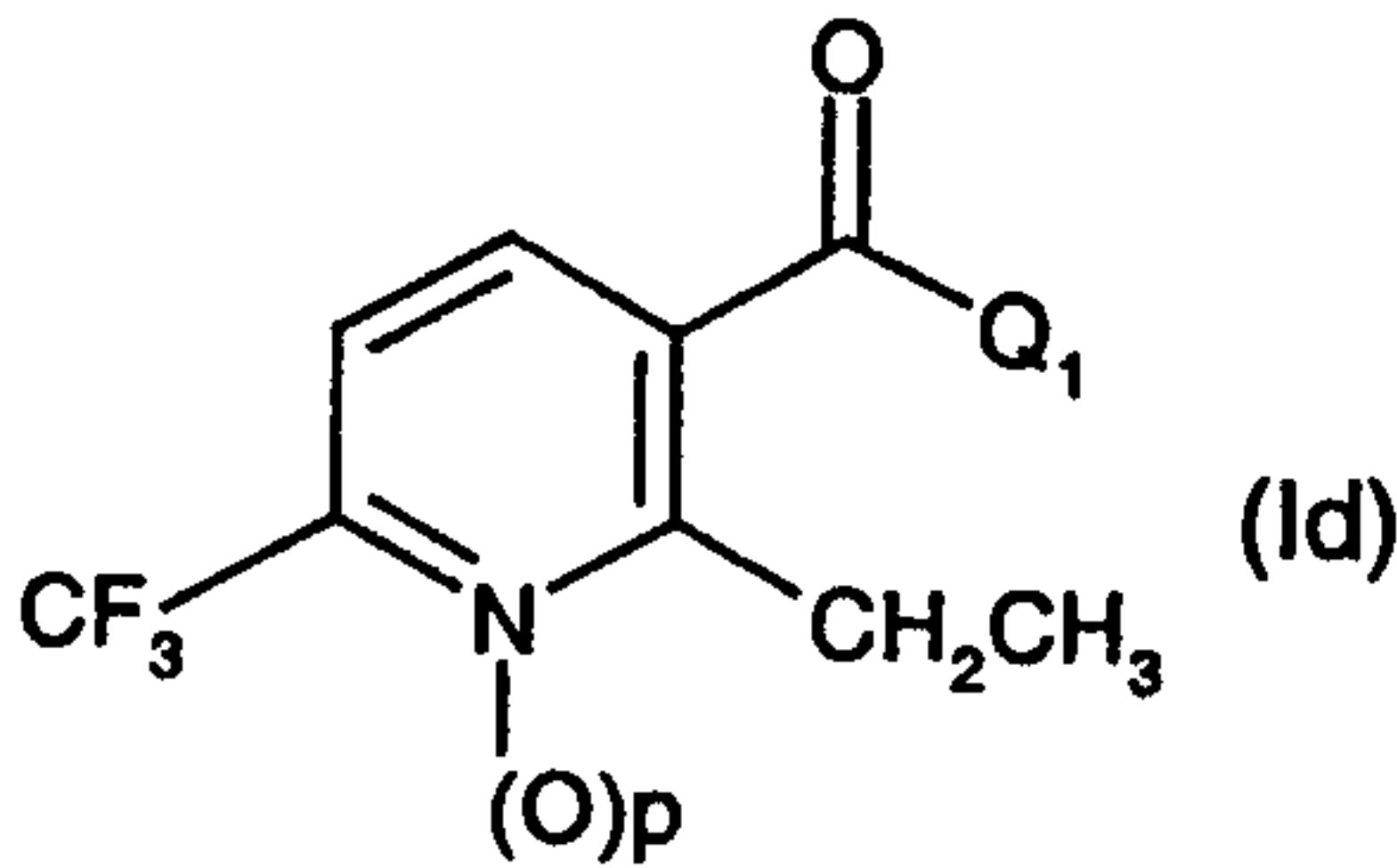
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 10: Compounds of the formula Id (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600

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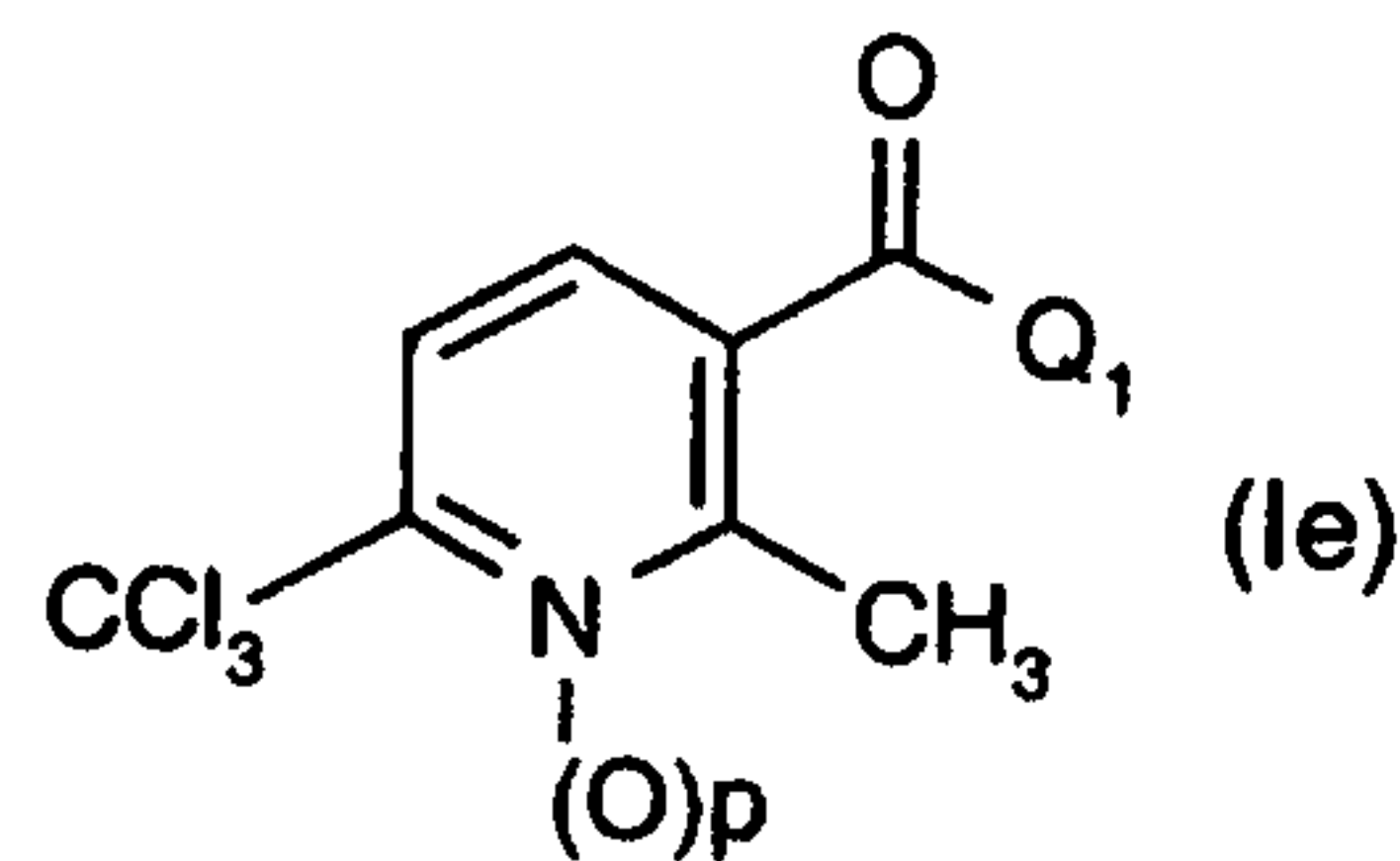
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 11: Compounds of the formula Ie (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552

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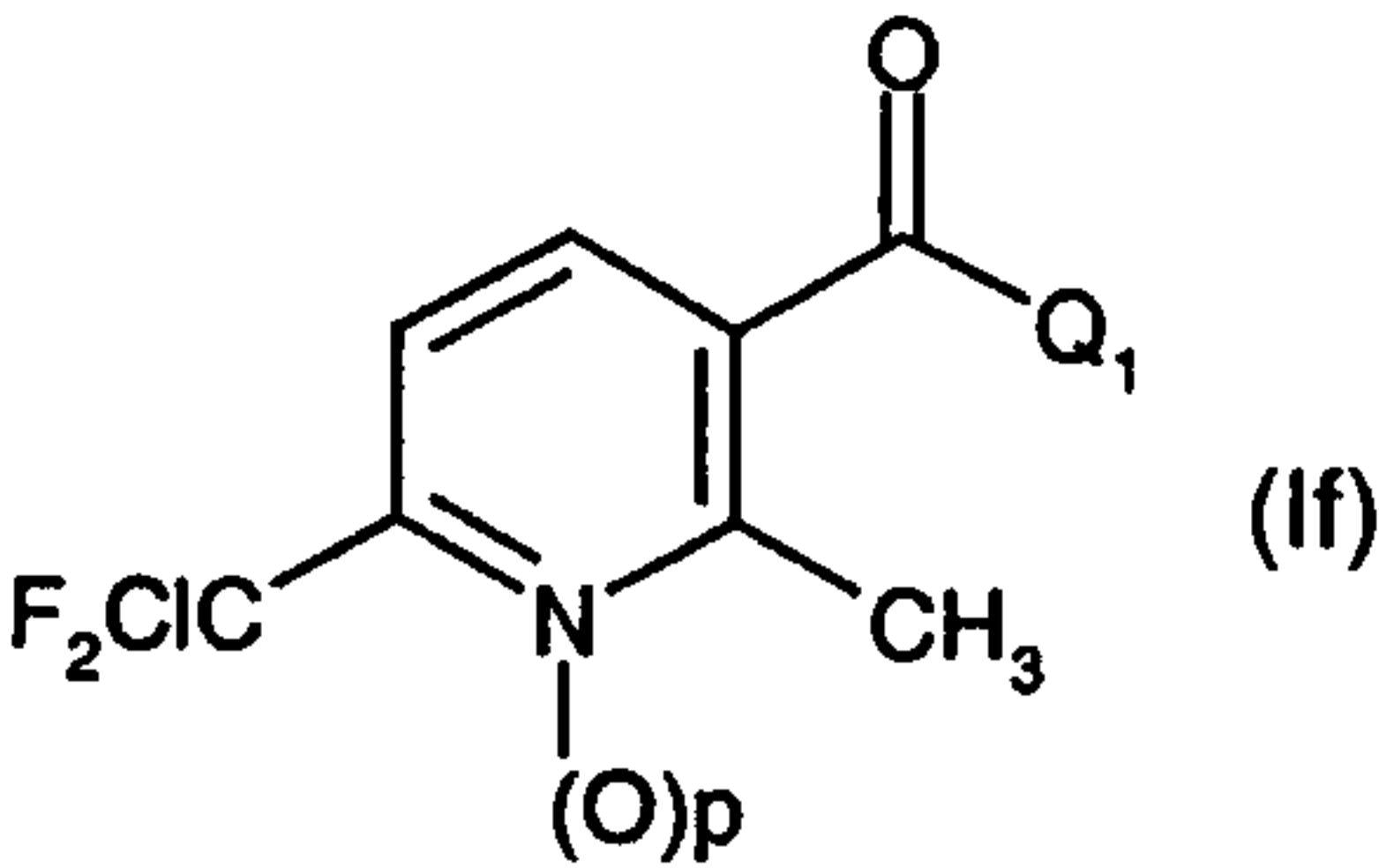
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 12: Compounds of the formula If:



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504

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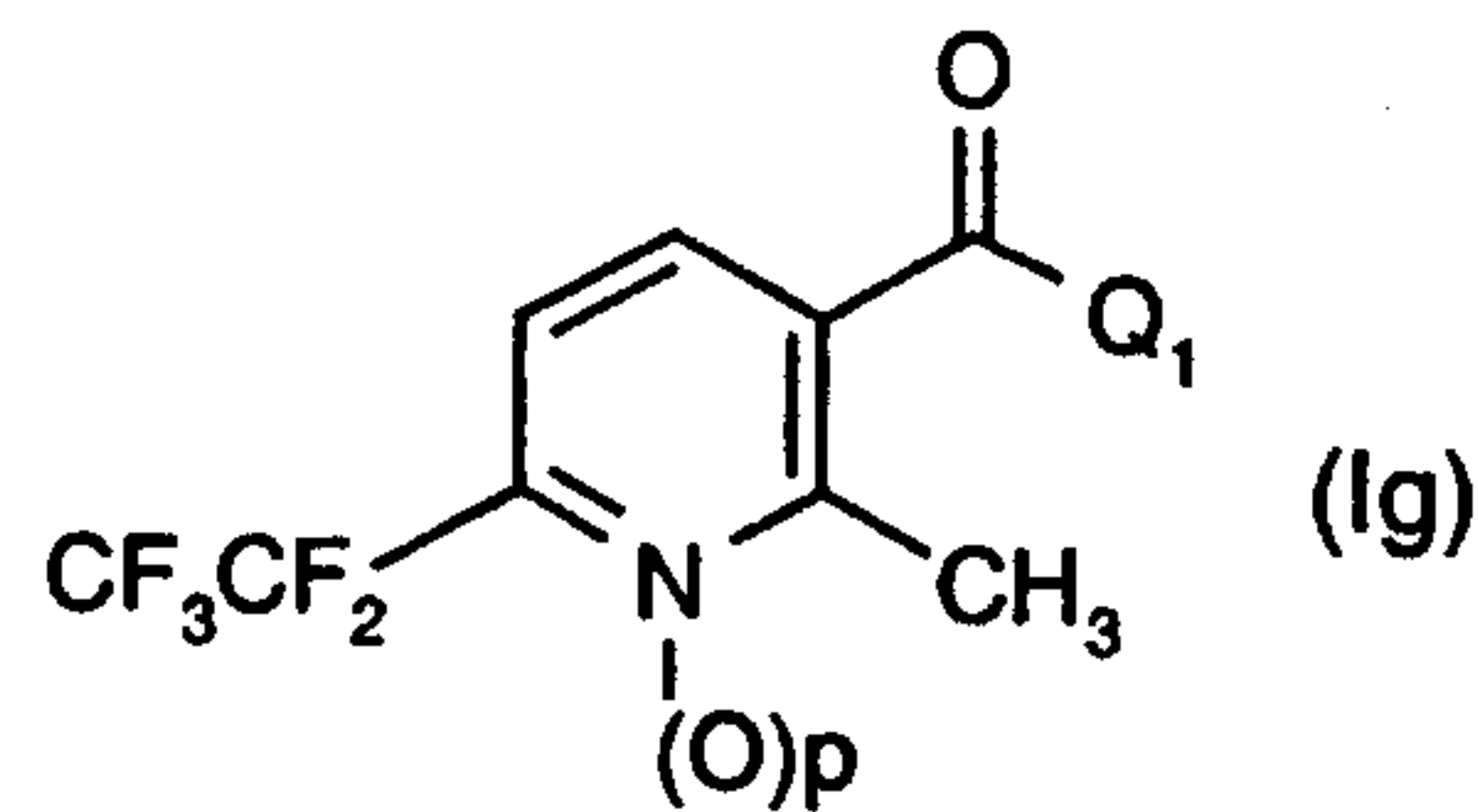
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 13: Compounds of the formula Ig (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468

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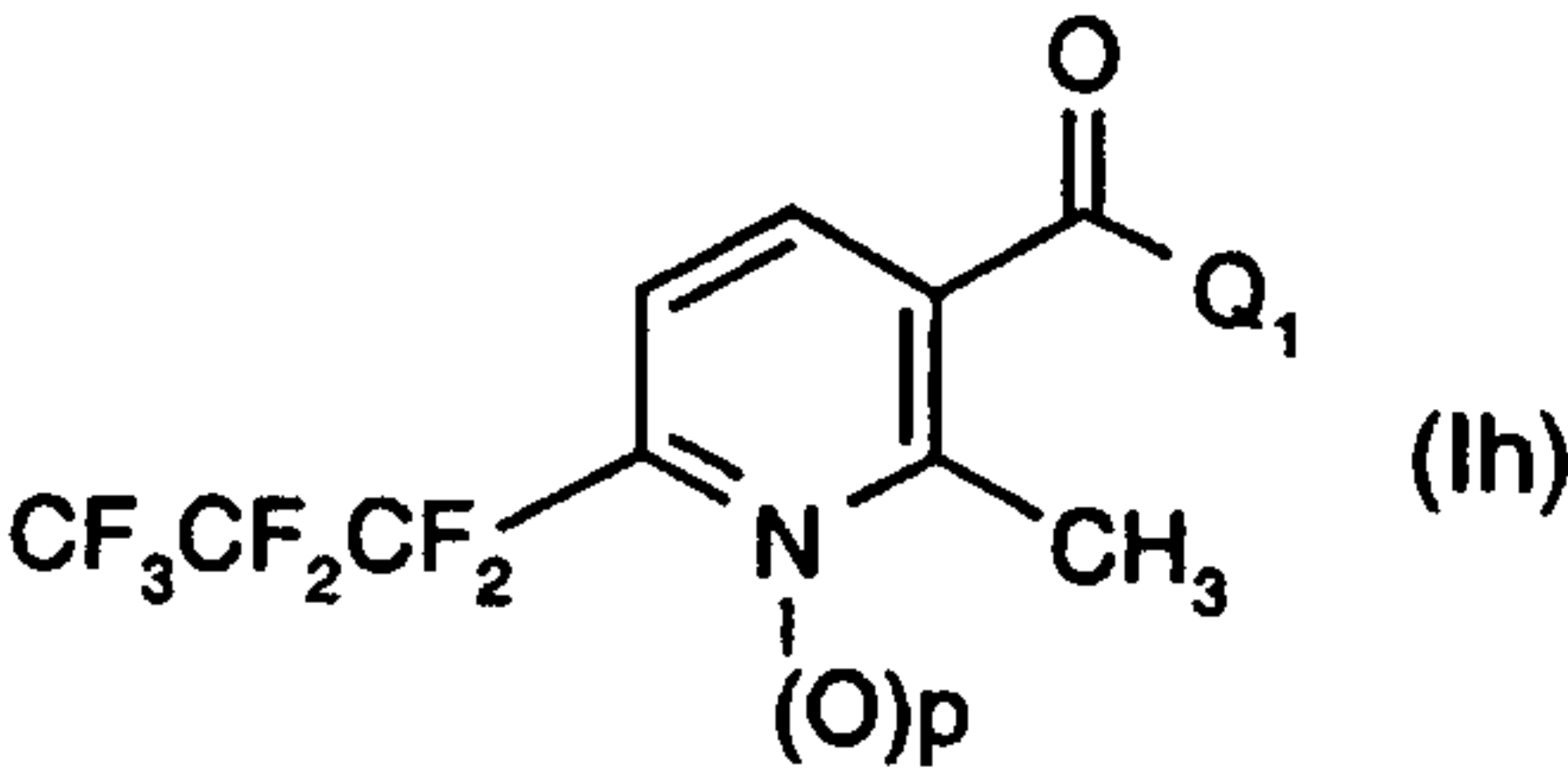
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 14: Compounds of the formula lh (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420

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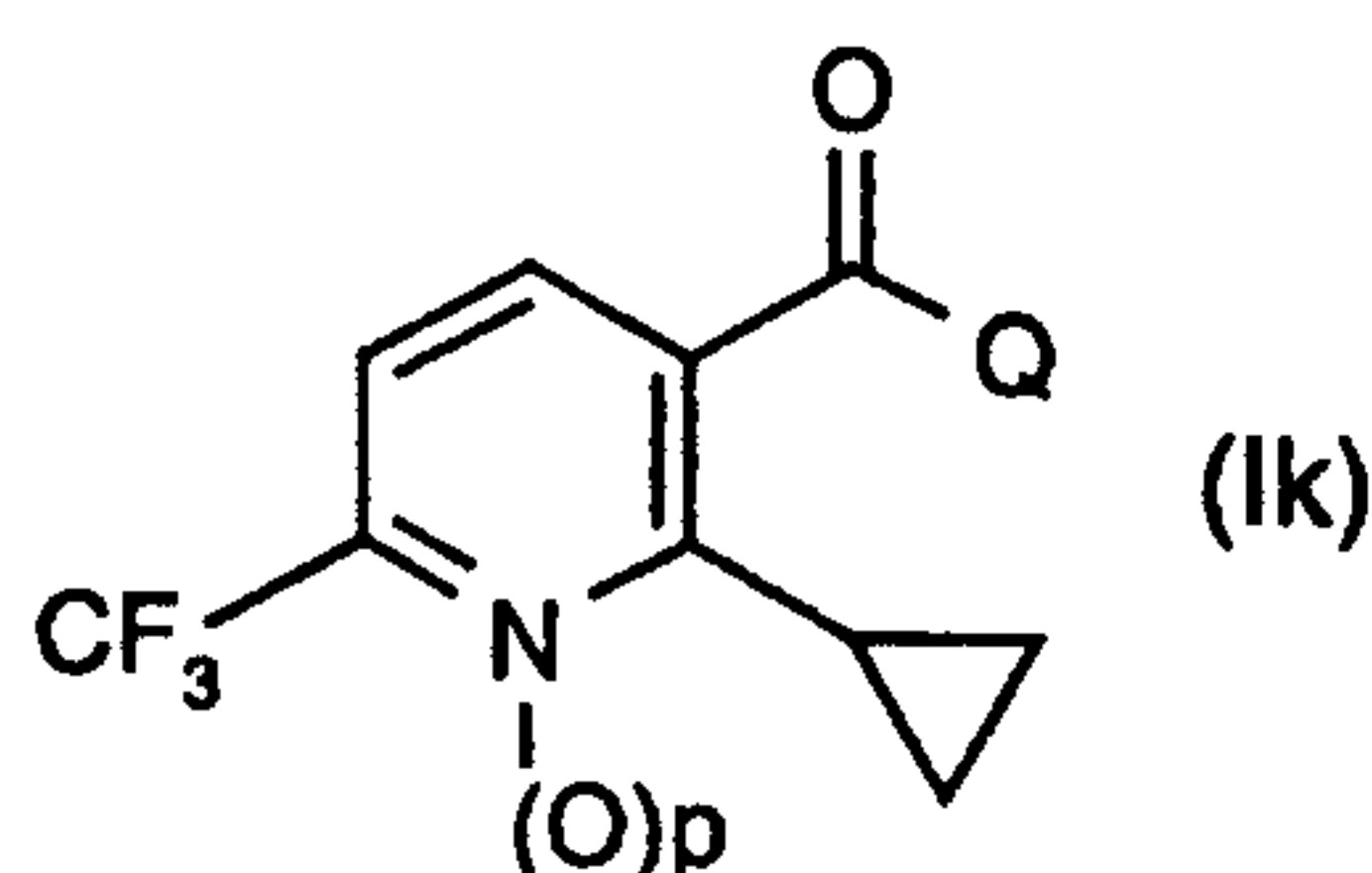
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916

<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 15: Compounds of the formula Ik (p is 0 or 1):



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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892

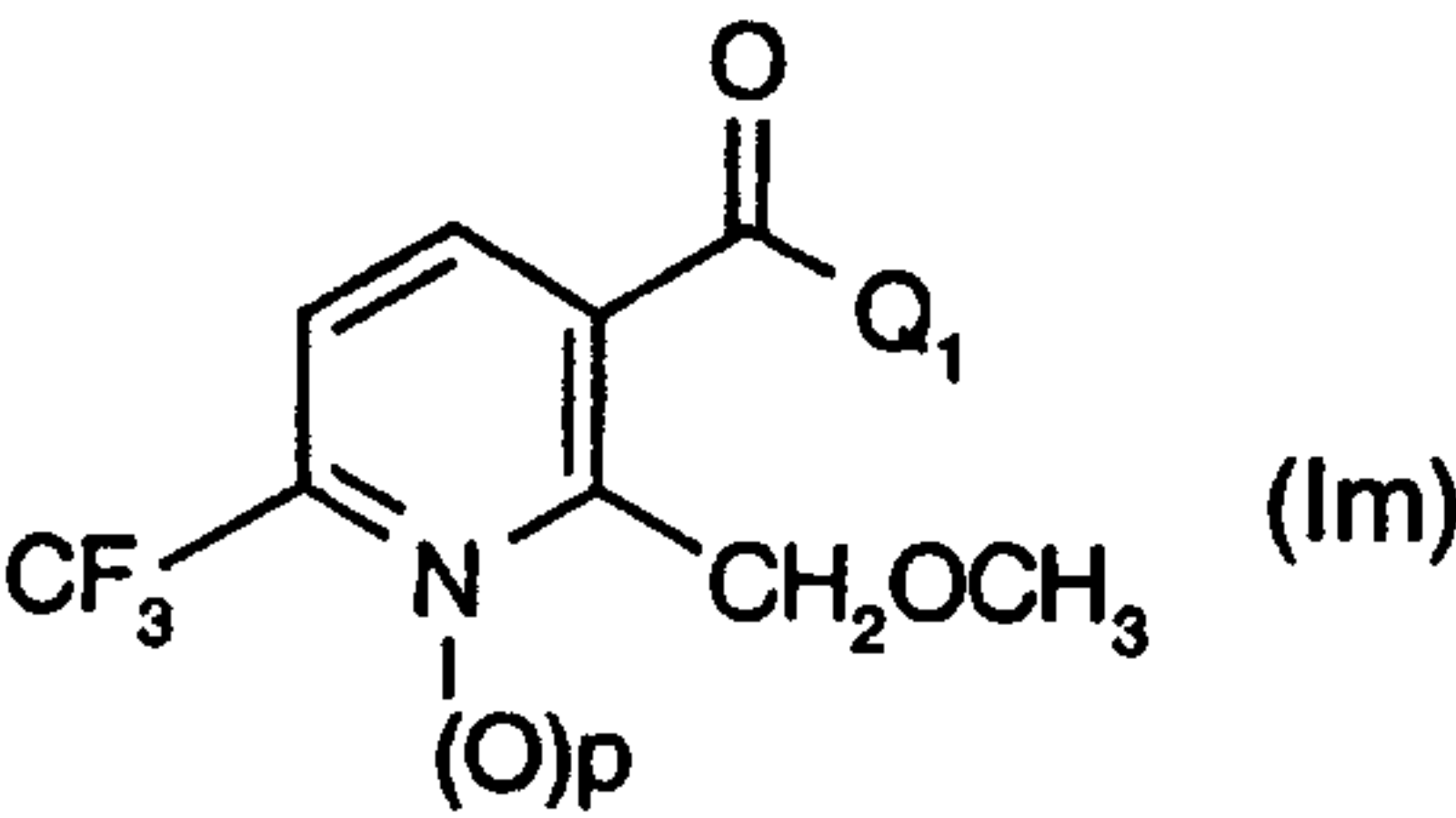
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 16: Compounds of the formula Im (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660
B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672
B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
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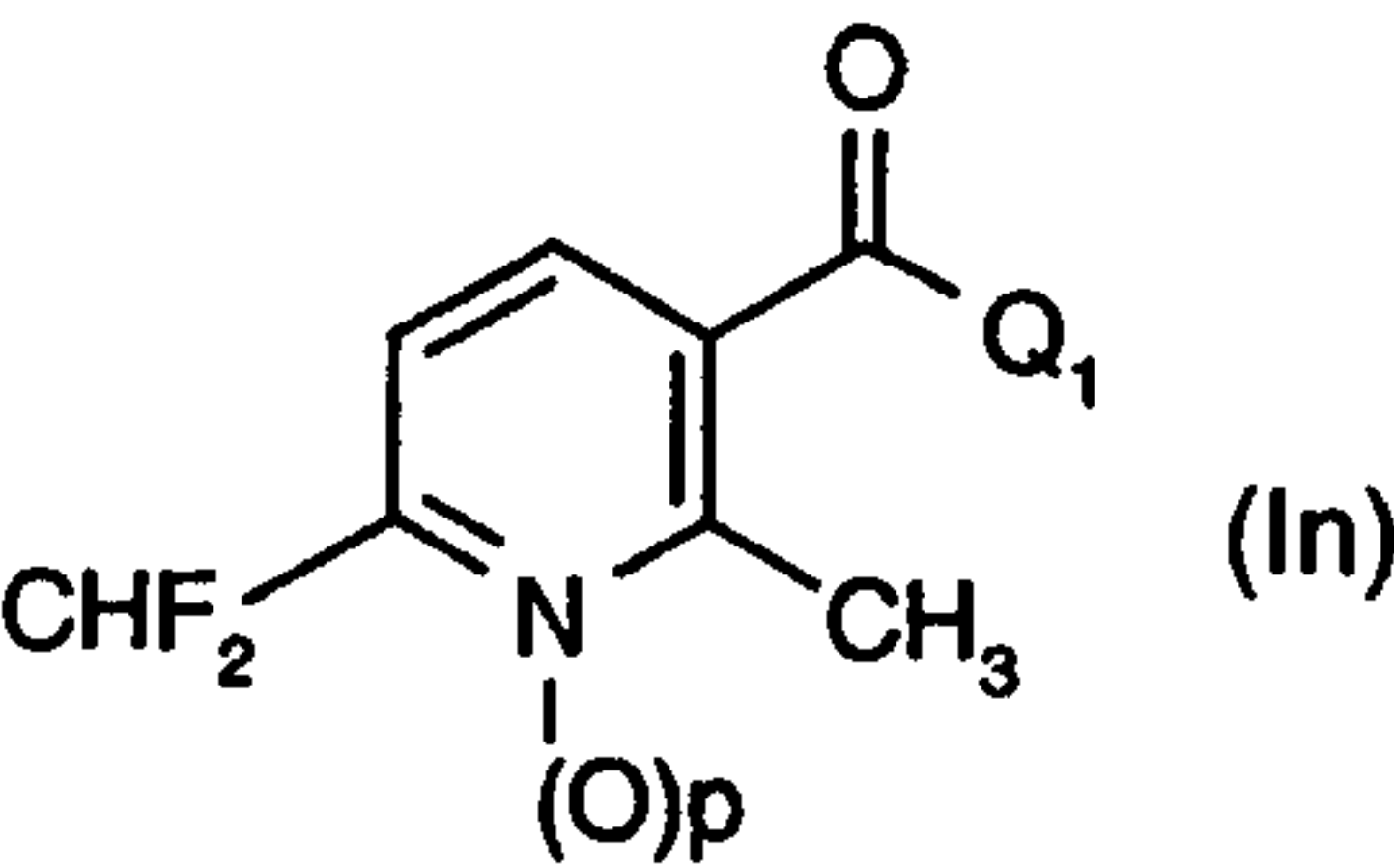
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964
B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976
B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988
B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000
B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012
B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024
B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036
B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048
B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060
B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072
B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084
B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096
B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216

Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁ Q₁
B1217

Table 17: Compounds of the formula In (p is 0 or 1):



<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	-
B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36
B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48
B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72
B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84
B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96
B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108
B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120
B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132
B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144
B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156
B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168
B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180
B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192
B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204
B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216
B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228
B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240
B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252
B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264

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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276
B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288
B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300
B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312
B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324
B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336
B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348
B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360
B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372
B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384
B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396
B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408
B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420
B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432
B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444
B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456
B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468
B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480
B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492
B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504
B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516
B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528
B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540
B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552
B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564
B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576
B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588
B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600
B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612
B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624
B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636
B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648
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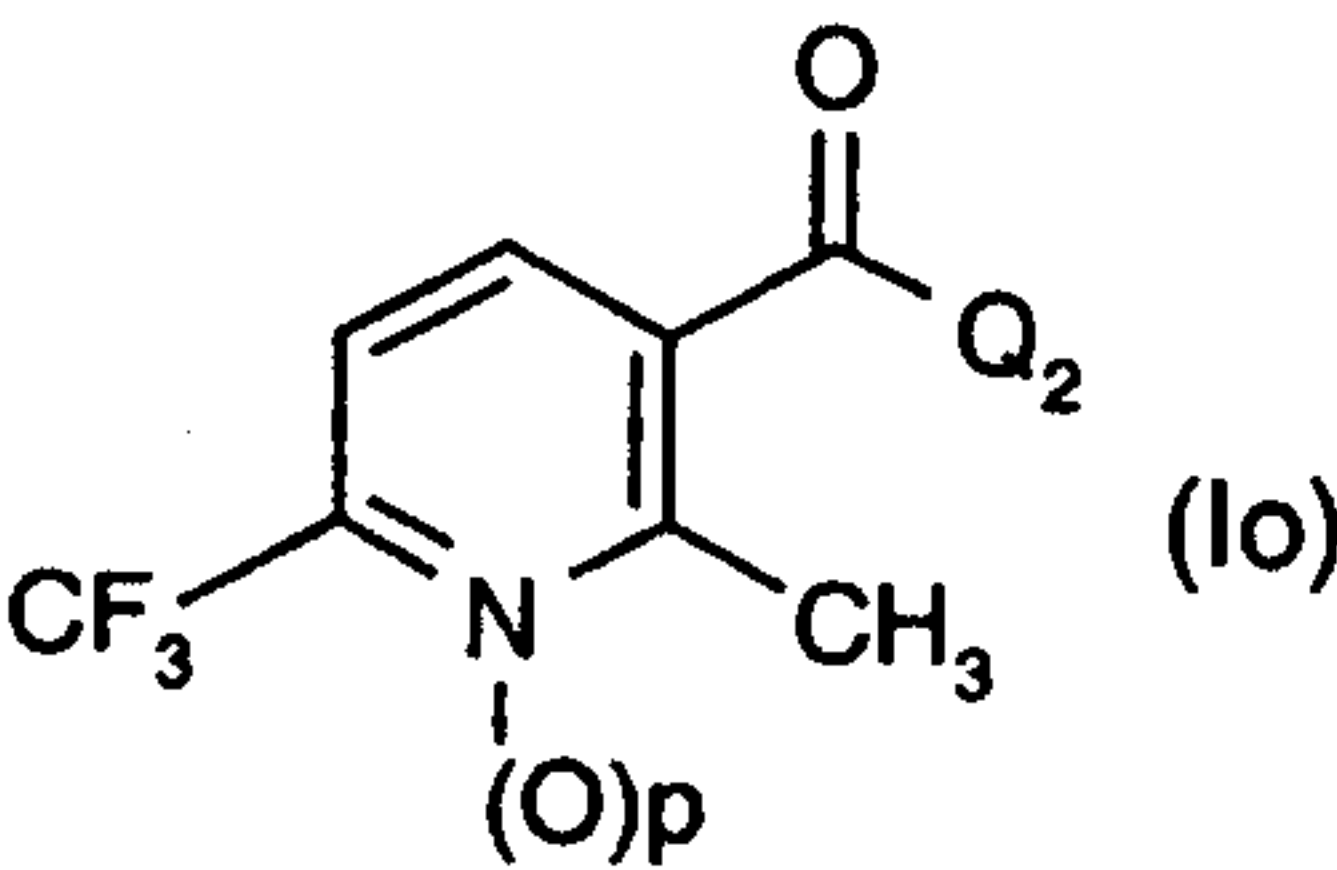
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<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
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B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784
B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796
B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808
B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820
B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832
B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844
B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856
B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868
B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880
B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892
B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904
B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916
B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928
B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940
B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952
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B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108
B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120
B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132
B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144
B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156

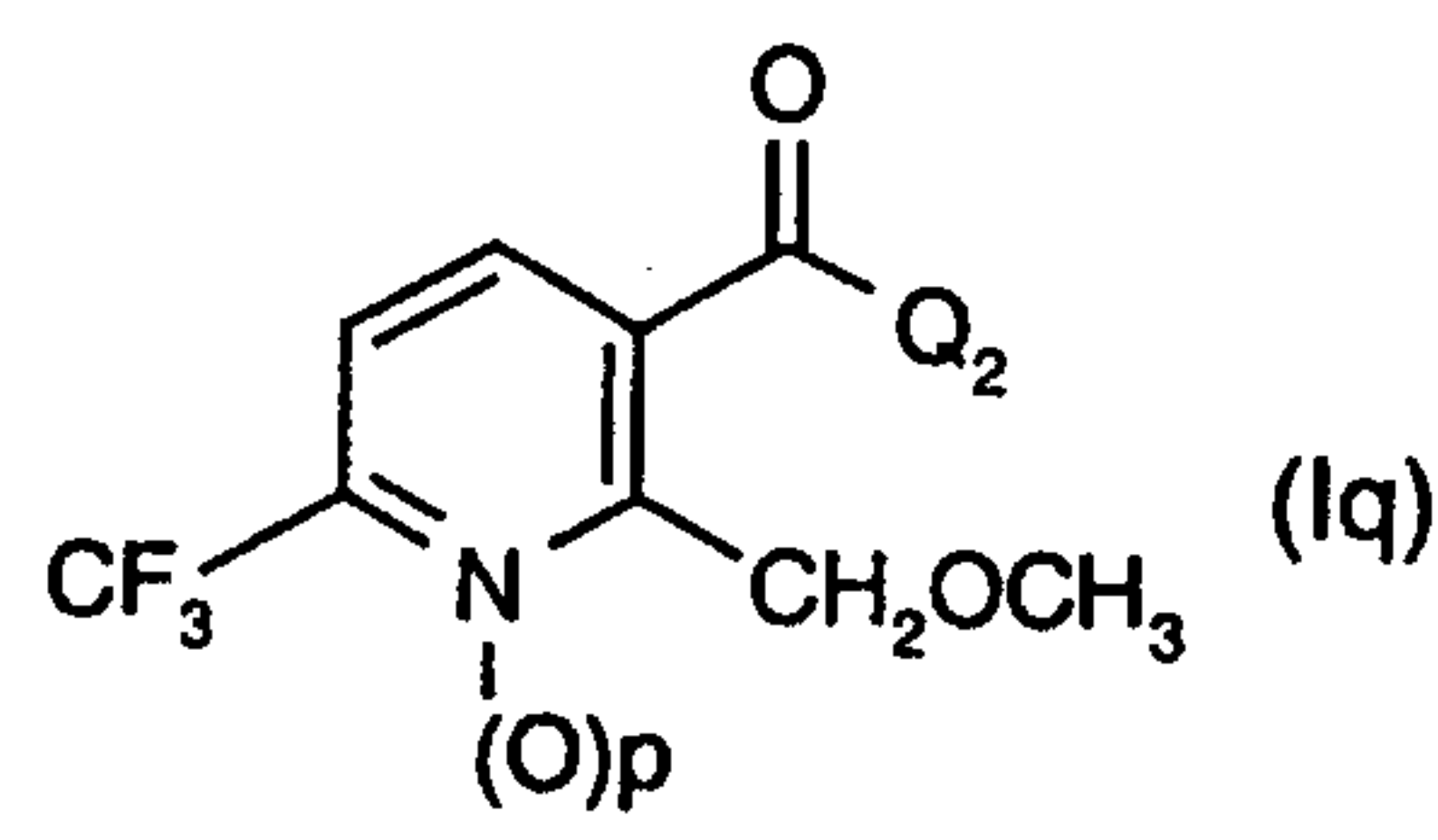
<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>	<u>Q₁</u>
B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168
B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180
B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192
B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204
B1205	B1206	B1207	B1208	B1209	B1210	B1211	B1212	B1213	B1214	B1215	B1216
B1217											

Table 18: Compounds of the formula lo (p is 0 or 1):



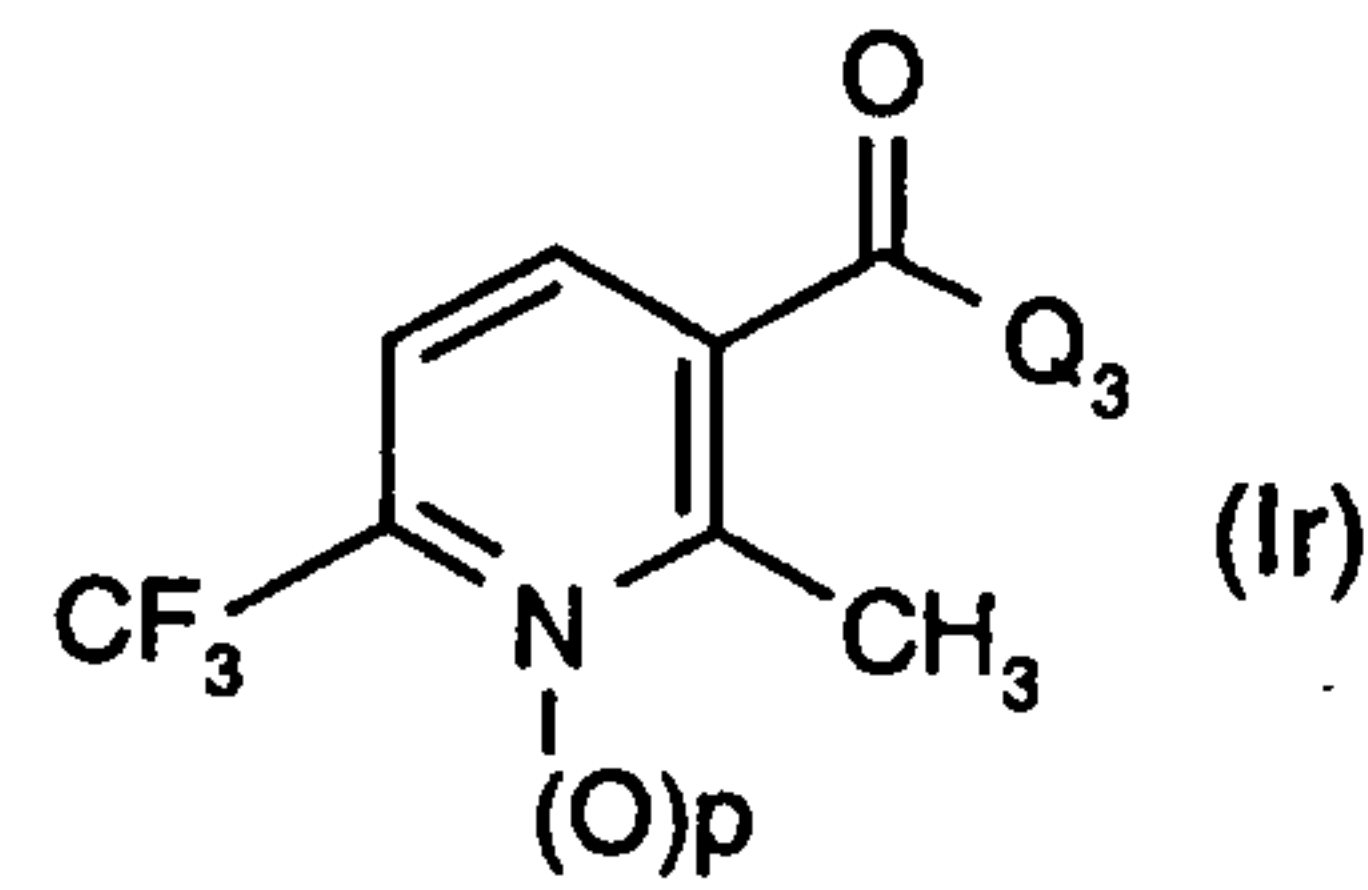
<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24
C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	C36
C37	C38	C39	C40	C41	C42	C43	C44	C45	C46	C47	C48
C49	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59	C60
C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72
C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84
C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96
C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108
C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120
C121	C122	C123	C124	C125	C126	C127	C128	C129	C130	C131	C132
C133	C134	C135	C136	C137	C138	C139	C140	C141	C142	C143	C144
C145	C146	C147	C148	C149	C150	C151					

Table 19: Compounds of the formula lq (p is 0 or 1):



<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>	<u>Q₂</u>
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24
C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	C36
C37	C38	C39	C40	C41	C42	C43	C44	C45	C46	C47	C48
C49	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59	C60
C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72
C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84
C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96
C97	C98	C99	C100	C101	C102	C103	C104	C105	C106	C107	C108
C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120
C121	C122	C123	C124	C125	C126	C127	C128	C129	C130	C131	C132
C133	C134	C135	C136	C137	C138	C139	C140	C141	C142	C143	C144
C145	C146	C147	C148	C149	C150	C151					

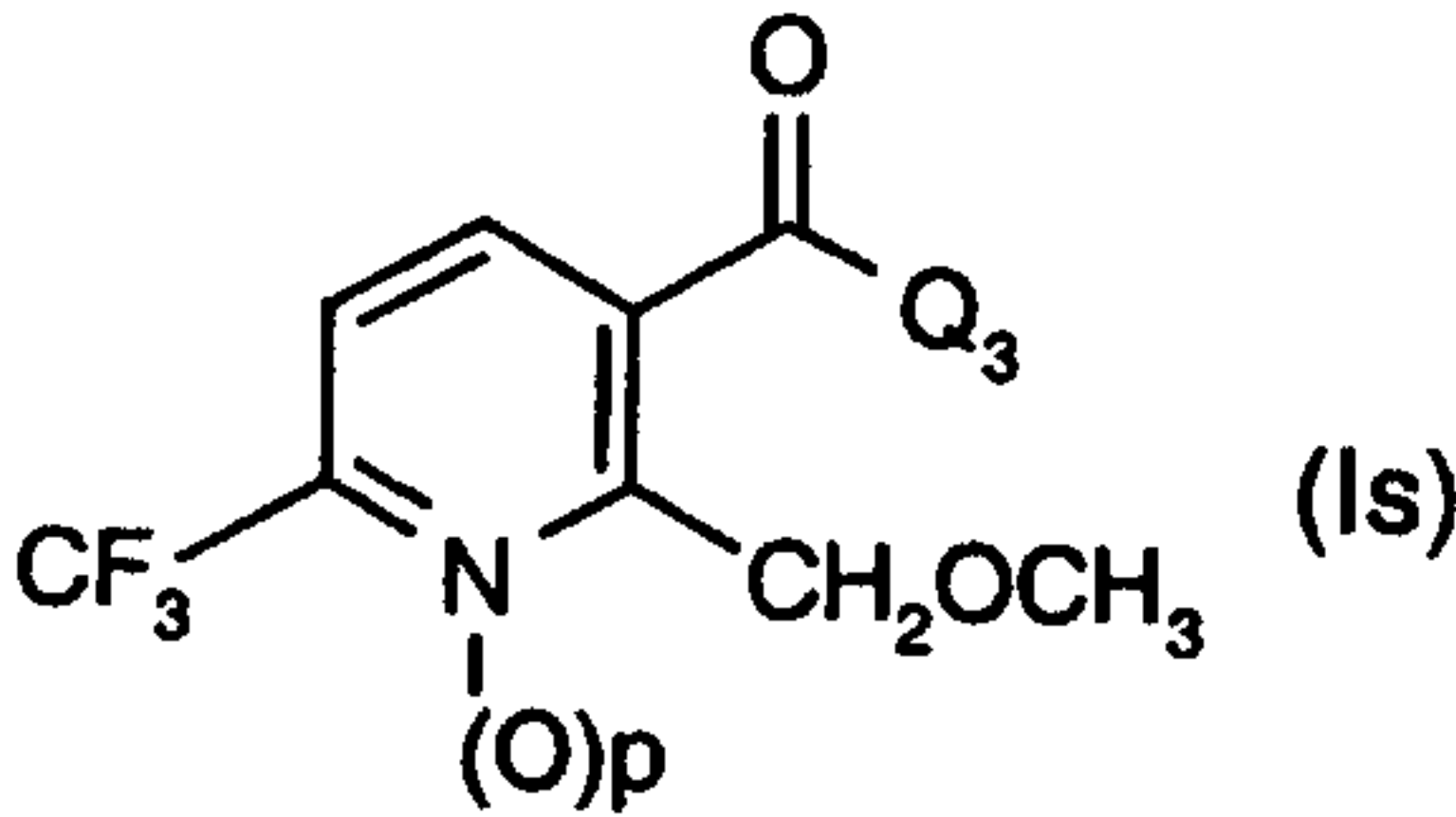
Table 20: Compounds of the formula Ir (p is 0 or 1):



<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24
D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D35	D36
D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48

<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>
D49	D50	D51	D52	D53	D54	D55	D56	D57	D58	D59	D60
D61	D62	D63	D64	D65	D66	D67	D68	D69	D70	D71	D72
D73	D74	D75	D76	D77	D78	D79	D80	D81	D82	D83	D84
D85	D86	D87	D88	D89	D90	D91	D92	D93	D94	D95	D96
D97	D98	D99	D100	D101	D102	D103	D104	D105	D106	D107	D108
D109	D110	D111	D112	D113	D114	D115	D116	D117	D118	D119	D120
D121	D122	D123	D124	D125	D126	D127	D128	D129	D130	D131	D132
D133	D134	D135	D136	D137	D138	D139	D140				

Table 21: Compounds of the formula Is (p is 0 or 1):



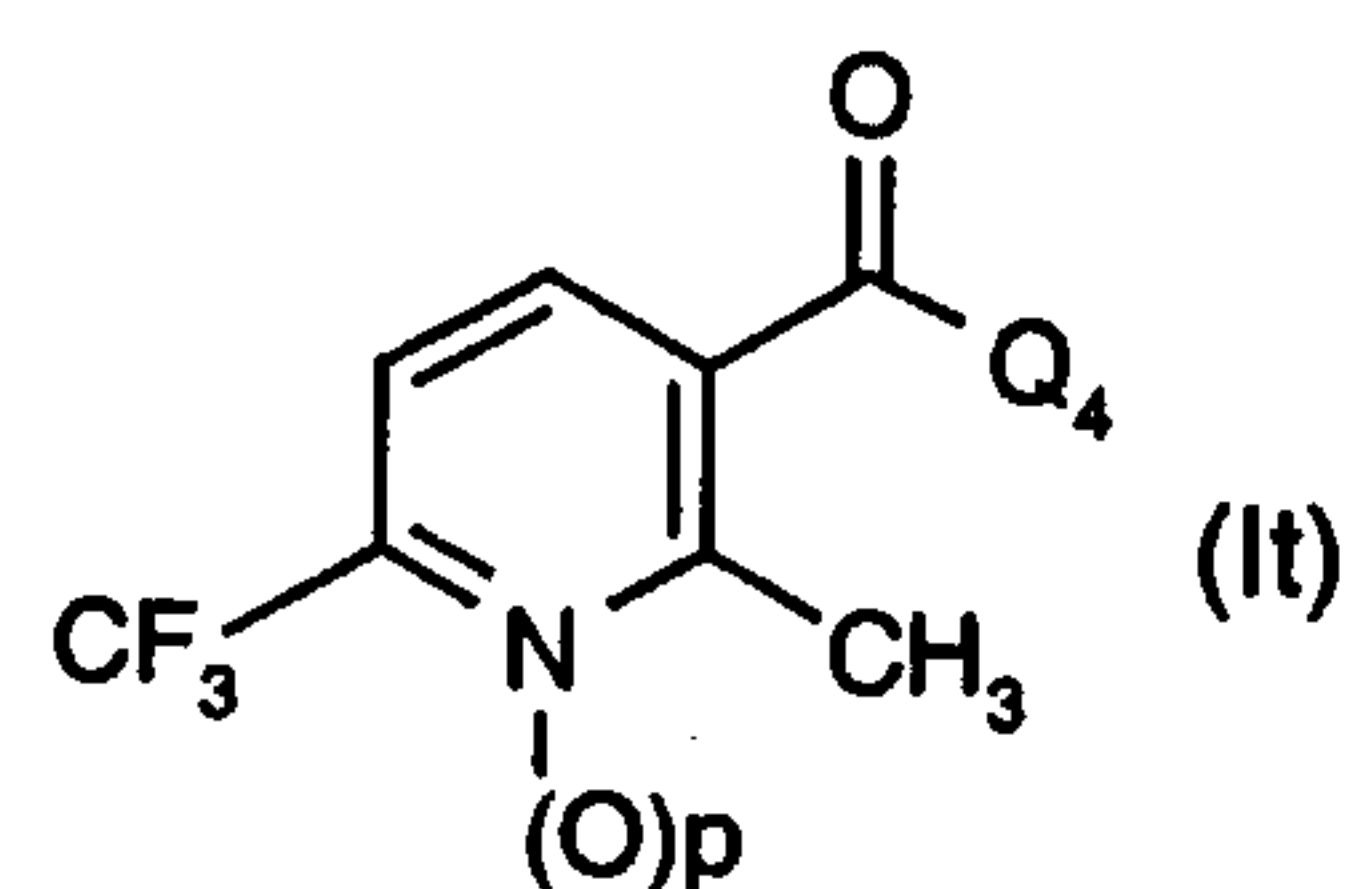
<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>	<u>Q₃</u>
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
D13	D14	D15	D16	D17	D18	D19	D20	D21	D22	D23	D24
D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D35	D36
D37	D38	D39	D40	D41	D42	D43	D44	D45	D46	D47	D48
D49	D50	D51	D52	D53	D54	D55	D56	D57	D58	D59	D60
D61	D62	D63	D64	D65	D66	D67	D68	D69	D70	D71	D72
D73	D74	D75	D76	D77	D78	D79	D80	D81	D82	D83	D84
D85	D86	D87	D88	D89	D90	D91	D92	D93	D94	D95	D96
D97	D98	D99	D100	D101	D102	D103	D104	D105	D106	D107	D108
D109	D110	D111	D112	D113	D114	D115	D116	D117	D118	D119	D120
D121	D122	D123	D124	D125	D126	D127	D128	D129	D130	D131	D132
D133	D134	D135	D136	D137	D138	D139	D140				

Table 22: Compounds of the formula It (p is 0 or 1):

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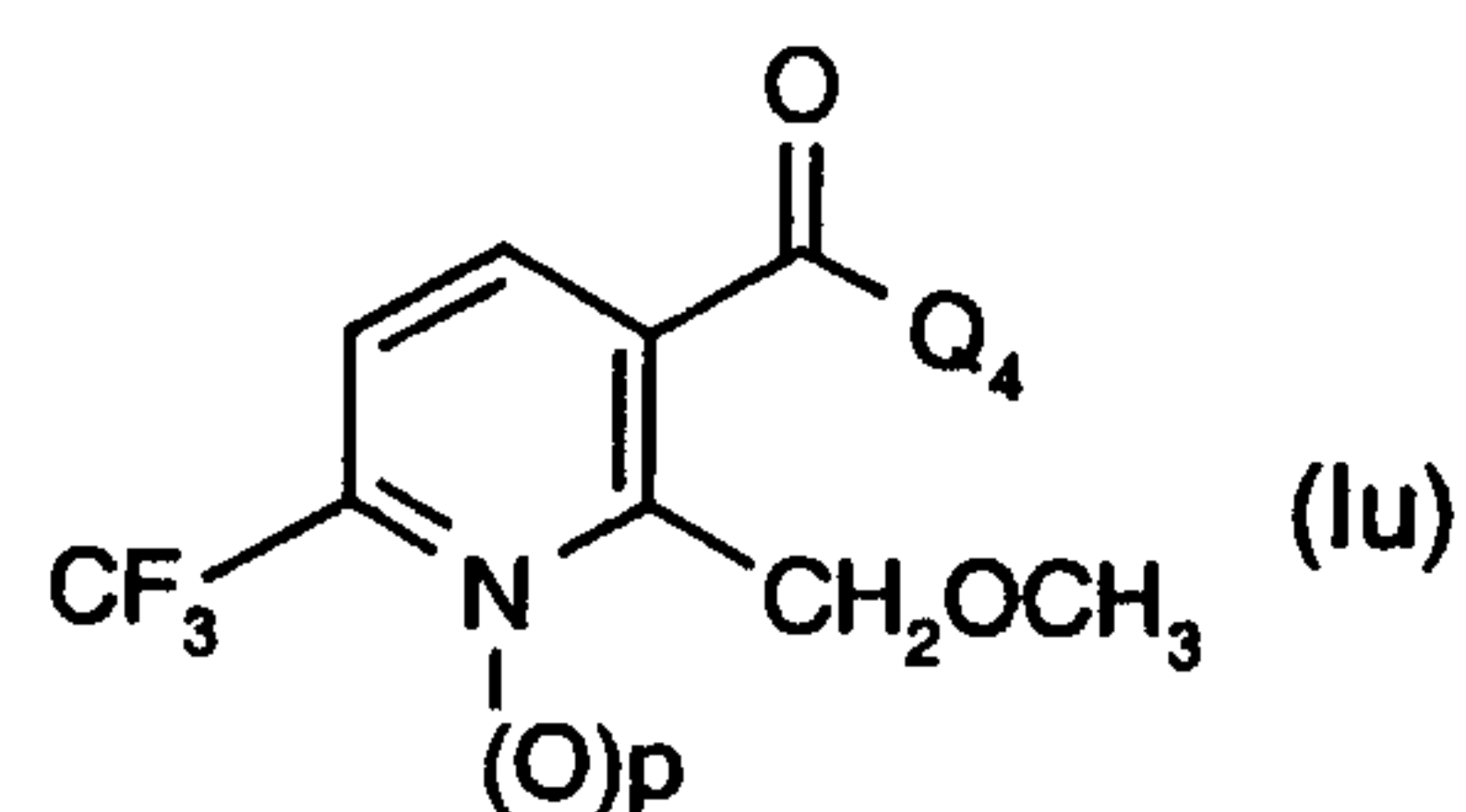
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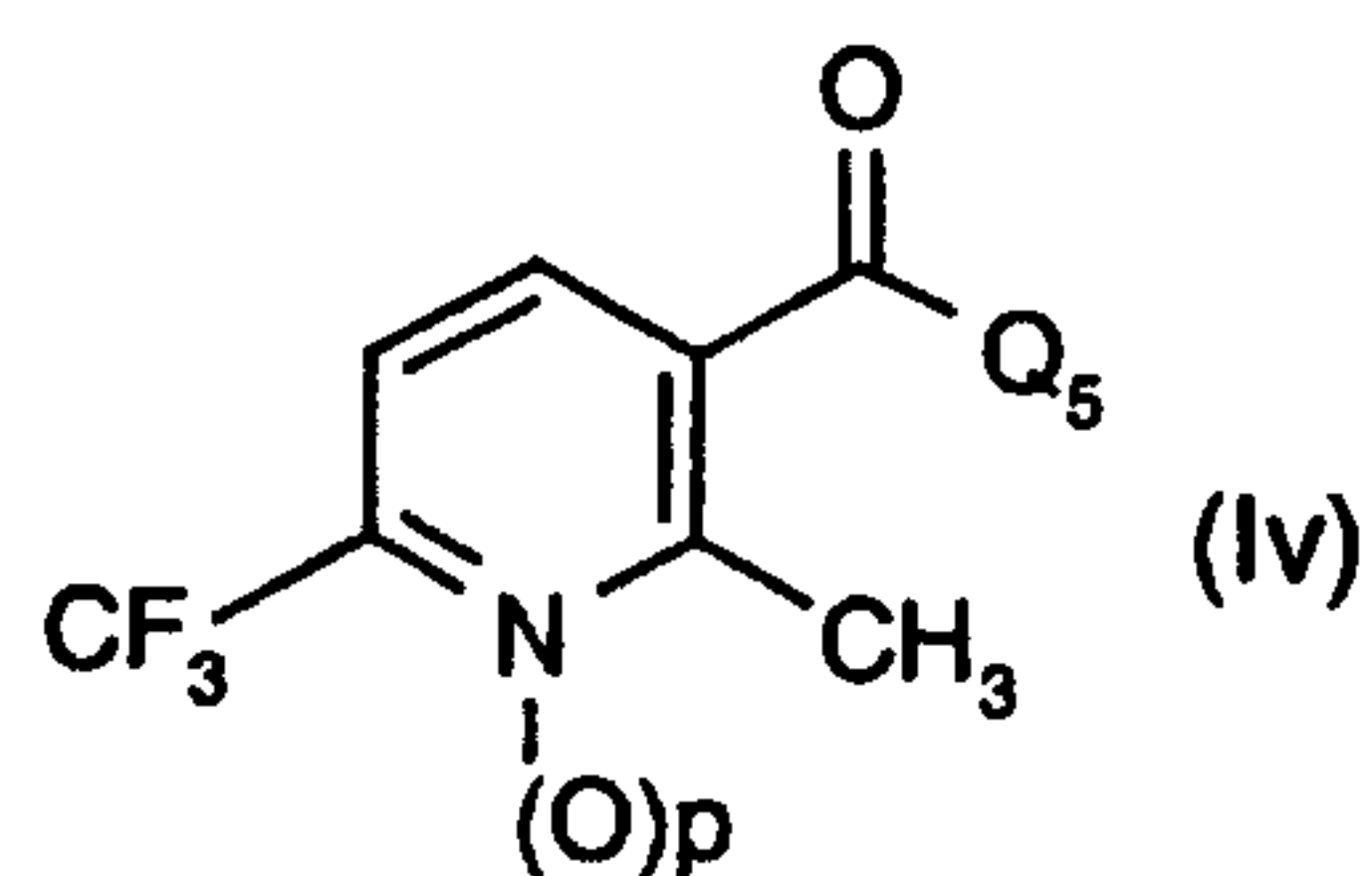
<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
E16	E17	E18	E19	E20	E21	E22	E23	E24	E25	E26	E27	E28	E29	E30

Table 23: Compounds of the formula Iu (p is 0 or 1):



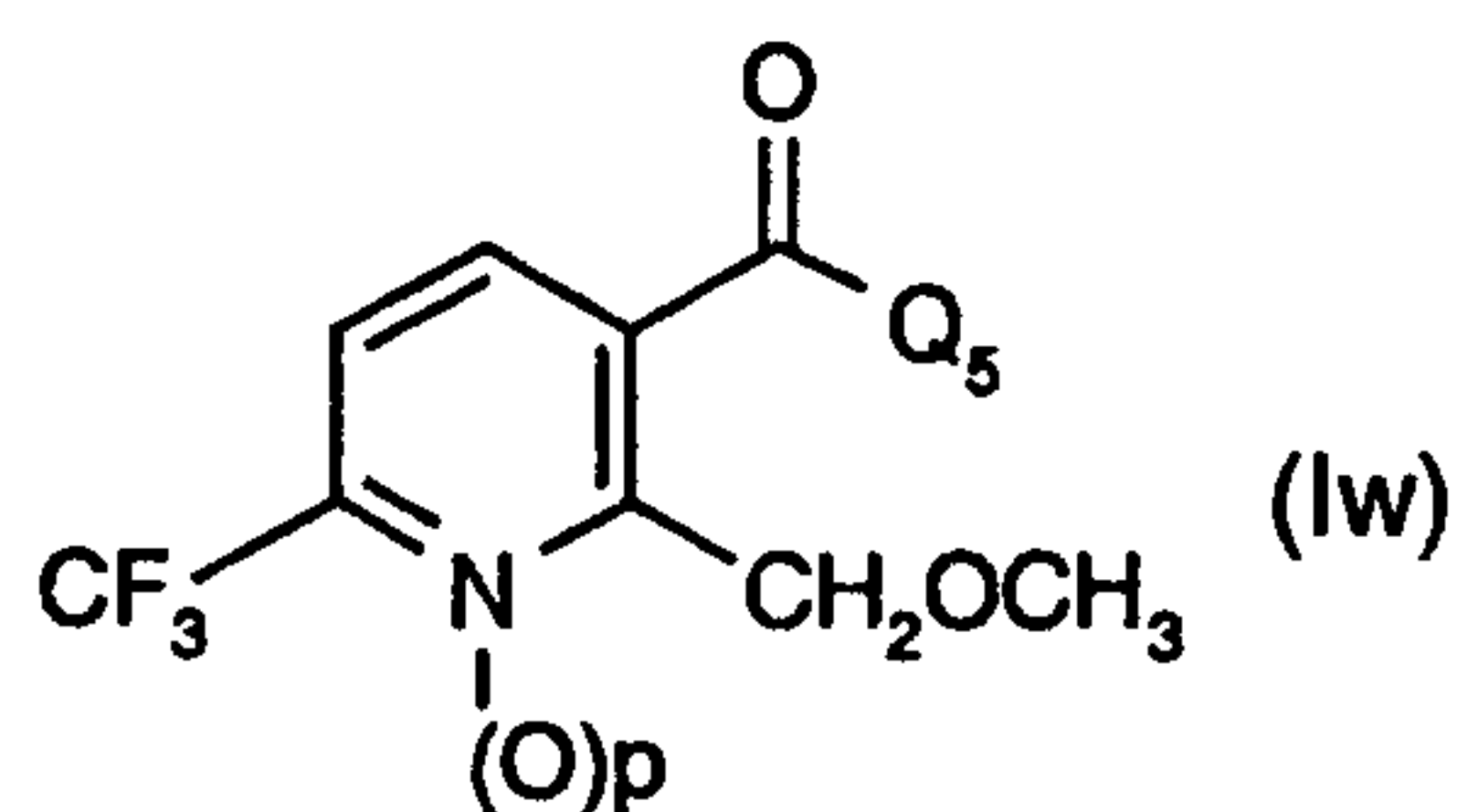
<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>	<u>Q₄</u>
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
E16	E17	E18	E19	E20	E21	E22	E23	E24	E25	E26	E27	E28	E29	E30

Table 24: Compounds of the formula Iv (p is 0 or 1):



<u>Q₅</u>	<u>Q₅</u>	<u>Q₅</u>	<u>Q₅</u>	<u>Q₅</u>	<u>Q₅</u>
F1	F2	F3	F4	F5	F6

Table 25: Compounds of the formula Iw (p is 0 or 1):



$\underline{Q_5}$ $\underline{Q_5}$ $\underline{Q_5}$ $\underline{Q_5}$ $\underline{Q_5}$ $\underline{Q_5}$
 F1 F2 F3 F4 F5 F6

Table 26: Physical data of the intermediates:

Melting points are indicated in °C

Compound	Phys. dat.	Compound	Phys. dat.
A17	99-100	A1025	crystalline
A7	105-106	A1206	94-95
A9	73-74	A1022	oil
A6	148-150	A1203	crystalline
A26	143-144	A21	amorphous
A34	170-171	A1023	110-111
A1026	crystalline	A1085	188-191
A1304	crystalline	A1088	157-158
A1301	crystalline	A1092	crystalline
A1018	110-111	A1095	136-138
A1	195-197	A1096	194-196
A2	150-151	A124	135-136
A15	164-166	A31	209-210
A27	107-108	H-B1057	166-167
A29	173-174	H-B1058	crystalline
A32	145-146	H-B1061	crystalline
A30	178-181	H-B1063	crystalline
A4	143-144	H-B1065	oil
A3	148-149	H-B1066	150-152
A10	166-167	H-B1067	122-123
A8	123-124	H-B1069	117-118

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Compound	Phys. dat.	Compound	Phys. dat.
A5	81-82	H-B1070	crystalline
A154	108-110	H-C1	116-118
A64	134-135	H-C24	172-175
A94	134-135	A1205	crystalline
A531	crystalline	H-D113	oil
A1045	crystalline	H-F5	oil
A1322	crystalline	H-E16	145-148
A184	146-147	A1088	157-158
A358	155-156	A1103	152-153

Table 27: Physical data for the compounds of the formula I indicated in the above tables:

(The melting points are indicated in °C)

Comp. No.	m.p.	Phys. state	Comp. No.	m.p.	Phys. state
A2-B1	90-92	crystalline	A34-B1	53-54	crystalline
A2-B1082	-	resin	A9-B1	-	oil
A2-B1083	-	resin	A184-B1	98-99	crystalline
A2-B90	-	resin	A184-B24	101-102	crystalline
A2-B68	120-121	crystalline	A7-B24	-	oil
A2-B24	75-76	crystalline	A3-B24	-	oil
A7-B1	-	oil	A34-B24	51-52	crystalline
A2-B73	-	resin	A2-B1091	-	oil
A2-B75	-	amorphous	A2-B1092	-	oil
A2-B95	106-107	crystalline	A8-B24	52-53	crystalline
A2-B93	95-96	crystalline	A18-B24	-	oil
A8-B1	97-98	crystalline	A2-B552	-	resin
A2-B925	-	oil	A2-C152	-	oil
A3-B1	42-44	crystalline	A2-B69	-	resin
A94-B1	57-58	crystalline	A2-D36	-	resin
A2-B1057	-	amorphous	A2-B618	-	resin
A2-B1063	-	oil	A2-B49	-	resin
A2-B1061	-	oil	A2-D71	-	resin
A2-B133	58-60	crystalline	A2-B1093	-	resin

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Comp. No.	m.p.	Phys. state	Comp. No.	m.p.	Phys. state
A2-B1058	89-91	crystalline	A2-B26	-	oil
A64-B24	80-82	crystalline	A2-B33	-	resin
A64-B1	49-51	crystalline	A2-B34	-	waxy
A2-B1089	-	oil	A2-B35	-	waxy
A2-B31	151-153	crystalline	A2-B1087	-	viscous
A2-B1090	139-140	crystalline	A2-B1094	-	viscous
A154-B1	94-95	crystalline	A2-B1088	108-109	crystalline
A2-B46(cis)	61-62	crystalline	A531-B24	-	viscous
A2-B46(trans)	83-84	crystalline	A2-B1099	94-96	crystalline
A2-B91	-	resin	A2-B1095	-	viscous
A2-B2	-	resin	A2-B1097	-	oil
A2-B29	87-88	crystalline	A2-B1098	92-93	crystalline
A2-B1066	-	viscous	A2-C147	-	resin
A2-B25	-	oil	A2-B70	-	resin
A2-B1067	-	resin	A2-B49	-	resin
A2-B1069	-	oil	A2-C1	-	oil
A2-B1068	-	viscous	A2-B1096	-	resin
A2-B1070	-	viscous	A2-B1085	176-177	crystalline
A2-B5	-	resin	A1022-B24	-	oil
A2-C149	-	resin	A2-C47	107-110	crystalline
A2-C146	-	oil	A2-B1100	128-130	crystalline
A2-B112	-	resin	A8-B2	70-71	crystalline
A2-D140	-	oil	A8-B1064	-	resin
A2-B354	139-140	crystalline	A2-B45	-	resin
A2-E16	-	solid	A2-B10	-	viscous
A6-B1	123-124	crystalline	A8-B133	68-69	crystalline
A6-B24	-	oil	A8-B1101	113-114	crystalline
A1322-B24	-	oil	A8-B1106	-	oil
A2-B1101	124-125	crystalline	A2-D111(trans)	-	oil
A2-B156	-	oil	A2-D111(cis)	-	resin
A2-B144	-	resin	A8-D111(trans)	-	oil
A2-B145	-	resin	A8-D109	62-62	amorphous
A2-B134	-	resin	A8-B35	-	oil

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Comp. No.	m.p.	Phys. state	Comp. No.	m.p.	Phys. state
A1210-B354	220	crystalline	A1023-B2	-	resin
A2-C2	-	oil	A1023-B354	95-97	crystalline
A358-B1	-	oil	A15-B354	-	resin
A2-D36	-	resin	A8-B354	-	oil
A1208-B354	-	oil	A8-B1067	-	oil
A2-D113 (Isom. A)	-	oil	A8-C146	-	oil
A2-D113 (Isom. B)	-	oil	A8-C1	-	oil
A2-D114 (Isom. A)	159-160	crystalline	A94-B34	108-110	crystalline
A2-D115	-	amorphous	A94-B35	82-84	crystalline
A1025-B354	-	viscous	A1210-B354	-	amorphous
A2-B1102	124-125	crystalline	A2-B1105	119	crystalline
A2-B1104	165-167	crystalline	A1099-B1107	-	amorphous
A1210-B1	117-119	crystalline	A2-B1123	-	resin
A8-B34	-	oil	A8-B1123	-	resin
A8-B1103	-	oil	A2-B1138	-	resin
A8-B1063	90-92	crystalline	A124-B1	60-65	crystalline
A8-B29	-	oil	A1170-B1	106-107	crystalline
A2-C24	-	oil	A124-B34	-	oil
A8-B552	-	oil	A124-B35	-	oil
A8-B156	-	resin	A94-B2	53-57	crystalline
A1210-B1105	145-146	glassy- amorphous	A2-B1174	-	crystalline
A1206-B354	-	amorphous	A2-B1213	133-134	crystalline
A8-B134	-	oil	A3-B1213	-	oil
A8-D36	-	oil	A4-B1213	-	oil
A8-B1213	71-72	crystalline	A2-B1214	-	resin
A8-F5	-	resin	A2-F5	-	resin
A1029-B1105	94.5-95	crystalline	A2-D109	-	oil

Biological examplesExample B1: Herbicidal action before emergence of the plants (pre-emergence action)

Monocotyledonous and dicotyledonous test plants are sown in standard soil in plastic pots. Immediately after sowing, the test substances as aqueous suspensions (prepared with a 25% wettable powder (Example F3, b) in accordance with WO 97/34485) or as emulsions (prepared with a 25% emulsion concentrate (Example F1, c)) are sprayed on at a rate of 2 kg of a.i./ha or 250 g of a.i./ha (500 l of water/ha). The test plants are then grown in the greenhouse under optimal conditions. After a test period of 3 weeks, the experiment is evaluated with reference to a nine-step scale (1 = complete damage, 9 = no effect). Score figures of 1 to 4 (in particular 1 to 3) mean a good to very good herbicidal action.

Table B1a: pre-emergence action

Compound	g/ha	Cyperus	Ipomoea	Setaria	Sinapis	Solanum	Stellaria
A2-B1	2000	2	2	1	2	2	1
A2-B1082	2000	2	2	2	2	1	2
A2-B1083	2000	2	3	3	4	2	3
A2-B90	2000	1	1	1	1	1	1
A2-B68	2000	1	2	1	2	1	2
A2-B24	2000	1	1	1	2	1	1
A2-B73	2000	3	4	2	2	2	2
A2-B75	2000	2	3	2	2	1	2
A2-B95	2000	2	4	2	2	1	2
A2-B93	2000	2	4	2	2	1	2
A3-B1	2000	2	2	4	2	3	2
A94-B1	2000	1	2	2	1	1	2
A2-B1063	2000	1	2	1	2	1	2
A2-B1061	2000	3	3	2	2	1	2
A2-B133	2000	1	2	2	2	1	2
A64-B24	2000	4	4	2	2	1	2
A2-B1089	2000	1	2	2	2	1	2
A2-B31	2000	2	3	4	2	1	2
A2-B46 (cis)	2000	1	2	1	2	1	2

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Compound	g/ha	Cyperus	Ipomoea	Setaria	Sinapis	Solanum	Stellaria
A2-B46 (trans)	2000	1	2	1	2	1	2
A2-B91	2000	1	2	1	2	1	2
A2-B2	2000	1	1	1	1	1	2
A2-B25	2000	2	3	2	2	1	2
A2-B1067	2000	2	3	2	2	3	3
A2-B1068	2000	2	2	2	2	1	2
A2-B1070	2000	2	3	3	2	2	2
A2-C146	2000	1	2	2	2	1	2
A2-B354	2000	1	1	1	1	1	2
A34-B1	2000	1	2	2	2	2	3
A9-B1	2000	2	1	2	1	1	2
A184-B1	2000	2	4	2	2	1	2
A184-B24	2000	1	3	2	2	1	2
A3-B24	2000	1	3	2	2	1	2
A8-B24	2000	1	2	2	2	1	3
A18-B24	2000	1	1	1	1	1	2
A2-B552	2000	1	2	2	2	1	2
A2-C152	2000	1	1	2	2	1	2
A2-B69	2000	1	4	2	2	1	1
A2-D36	2000	1	2	2	2	1	1
A2-B618	2000	1	1	1	2	1	1
A2-B33	2000	1	3	2	2	1	3
A2-B34	2000	1	3	2	2	1	2
A2-B35	2000	2	4	2	2	2	2
A2-B1095	2000	3	4	2	2	1	2
A2-C147	2000	2	4	2	2	2	2
A2-B49	2000	2	4	2	2	1	2
A2-C1	2000	2	3	1	2	1	2
A2-B1100	2000	1	3	1	2	1	2
A8-B2	2000	1	3	2	2	1	2
A8-B1064	2000	2	4	3	2	1	3
A8-B1101	2000	2	4	2	2	1	1
A2-B156	2000	1	2	1	2	1	2

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Compound	g/ha	Cyperus	Ipomoea	Setaria	Sinapis	Solanum	Stellaria
A2-B144	2000	3	4	2	2	2	4
A2-B134	2000	1	2	1	2	1	1
A1210-B354	2000	2	3	2	1	1	2
A2-C2	2000	2	3	1	1	1	1
A2-D36	2000	1	2	1	2	3	1
A2-D113 (Isom.A)	2000	4	4	2	1	3	3
A2-D115	2000	3	3	2	2	2	3
A8-B34	2000	2	3	2	2	2	2
A8-B1103	2000	1	3	2	1	1	2
A2-C24	2000	1	2	1	1	1	2

Table B1b: Pre-emergence action:

Compound	g/ha	Panicum	Digitaria	Echino.	Abutilon	Amaranthus	Chenop.
A8-B1	250	2	2	2	1	1	1
A1022-B24	250	2	4	4	3	4	1
A2-B145	250	2	2	4	2	3	1
A1208-B354	250	1	1	1	1	1	1
A8-B1063	250	2	3	3	2	4	1
A8-B552	250	2	3	4	1	4	1
A8-B156	250	3	3	3	3	4	2
A1210-B1105	250	2	3	2	1	4	1

The same results are obtained when the compounds of the formula I are formulated in accordance with Examples F2 and F4 to F8 in accordance with WO 97/34485.

Example B2: Post-emergence herbicidal action

Monocotyledonous and dicotyledonous test plants are grown in the greenhouse in plastic pots containing standard soil, and, in the 4- to 6-leaf stage, sprayed with an aqueous suspension of the test substances of the formula I prepared with a 25% wettable powder (Example F3, b) in accordance with WO 97/34485) or with an emulsion of the test substances of the formula I prepared with a 25% emulsion concentrate (Example F1, c) in accordance with WO 97/34485), corresponding to a rate of 2 kg of a.i./ha or 250 g of a.i./ha

(500 l of water/ha). The test plants are subsequently grown on in the greenhouse under optimal conditions. After a test period of approximately 18 days, the test is evaluated with reference to a nine-step scale (1 = complete damage, 9 = no effect). Score figures of 1 to 4 (in particular 1 to 3) mean a good to very good herbicidal action. In this test, the compounds of the formula I show a potent herbicidal action.

Table B2a: Post-emergence action:

Compound	g/ha	Ipomoea	Lolium	Setaria	Sinapis	Solanum	Stellaria
A2-B1	2000	1	2	1	1	1	2
A2-B1082	2000	1	2	2	1	1	2
A2-B1083	2000	1	4	2	1	1	2
A2-B90	2000	1	2	2	1	2	2
A2-B68	2000	1	2	2	1	1	2
A2-B24	2000	1	2	2	1	2	2
A2-B73	2000	1	3	2	1	1	2
A2-B75	2000	2	2	3	1	2	2
A2-B95	2000	1	2	2	1	2	2
A2-B93	2000	1	2	2	1	2	2
A3-B1	2000	1	3	2	1	1	2
A94-B1	2000	1	2	2	1	1	1
A2-B1063	2000	2	2	4	1	2	2
A2-B1061	2000	2	2	2	1	2	2
A2-B133	2000	1	2	2	1	2	2
A2-B1058	2000	1	2	4	1	2	2
A64-B24	2000	2	2	4	1	2	2
A64-B1	2000	2	3	4	1	1	2
A2-B1089	2000	1	2	2	1	1	2
A2-B31	2000	2	2	2	1	2	2
A2-B1090	2000	2	4	4	2	2	2
A2-B46 (cis)	2000	1	2	3	1	2	2
A2-B46 (trans)	2000	1	2	2	1	1	2
A2-B91	2000	1	2	2	1	2	2
A2-B2	2000	1	2	2	1	2	2

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Compound	g/ha	Ipomoea	Lolium	Setaria	Sinapis	Solanum	Stellaria
A2-B29	2000	2	3	2	1	2	2
A2-B1066	2000	1	3	2	1	2	2
A2-B25	2000	1	2	2	2	1	2
A2-B1068	2000	1	2	4	1	1	2
A2-B1070	2000	2	4	2	2	2	2
A2-B5	2000	1	2	2	1	2	2
A2-C149	2000	1	3	2	1	2	2
A2-C146	2000	1	2	2	1	2	2
A2-B112	2000	2	3	2	1	2	2
A2-B354	2000	2	2	2	2	2	2
A2-E16	2000	2	3	2	2	2	2
A6-B24	2000	1	3	2	1	1	2
A34-B1	2000	1	2	2	1	1	2
A9-B1	2000	2	4	2	2	2	2
A184-B1	2000	1	3	2	1	2	2
A184-B24	2000	1	2	2	1	2	2
A7-B24	2000	1	2	2	1	2	2
A3-B24	2000	2	2	2	1	2	2
A34-B24	2000	1	2	2	1	2	2
A8-B24	2000	2	2	2	1	2	2
A18-B24	2000	1	2	2	1	2	2
A2-C152	2000	2	2	3	1	2	2
A2-B69	2000	1	2	2	1	2	2
A2-D36	2000	2	2	2	1	2	2
A2-B618	2000	2	2	2	1	2	2
A2-B49	2000	2	2	2	1	2	2
A2-B1093	2000	2	2	2	1	2	2
A2-B33	2000	2	4	2	1	2	2
A2-B34	2000	1	3	2	1	1	2
A2-B35	2000	1	3	2	1	1	2
A2-B1087	2000	1	4	3	1	2	2
A531-B24	2000	2	2	2	1	2	2
A2-B1095	2000	1	2	4	1	2	2

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Compound	g/ha	Ipomoea	Lolium	Setaria	Sinapis	Solanum	Stellaria
A2-C147	2000	1	2	2	1	2	2
A2-B70	2000	3	4	3	1	2	2
A2-B49	2000	2	2	2	1	2	2
A2-C1	2000	3	2	2	1	2	2
A2-B1100	2000	2	2	3	1	1	2
A8-B2	2000	2	2	2	2	2	3
A8-B1064	2000	2	4	2	1	1	2
A8-B133	2000	2	4	2	1	2	2
A8-B1101	2000	2	3	2	1	2	2
A2-B1101	2000	2	2	2	1	1	3
A2-B156	2000	1	2	2	1	2	2
A2-B134	2000	2	2	1	1	1	2
A1210-B354	2000	2	2	2	1	1	2
A2-C2	2000	2	1	1	1	1	1
A2-D36	2000	2	1	1	1	1	1
A2-D113 (Isom. A)	2000	2	1	1	1	1	2
A2-D113 (Isom. B)	2000	2	2	2	2	1	2
A2-D114	2000	2	1	1	1	1	1
A2-D115	2000	1	2	1	1	1	1
A8-B34	2000	2	2	2	2	2	2
A8-B1103	2000	1	4	1	1	1	1
A2-C24	2000	1	1	1	1	1	1

Table B2b: Post-emergence action:

Compound		Panicum	Digitaria	Echino.	Abutilon	Xanth.	Ipopur.	Chenop.
	g/ha							
A8-B1	250	4	3	3	3	3	3	2
A2-B1091	250	4	4	2	3	4	3	3
A2-B1094	250	2	3	2	3	3	3	2
A2-B145	250	2	2	2	3	3	3	1
A1208-B354	250	3	4	2	1	2	2	2
A1210-B1	250	2	2	2	2	2	2	1
A8-B552	250	2	3	3	2	2	2	2
A8-B156	250	2	3	3	1	2	2	1
A1210-B1105	250	1	2	3	2	2	2	1
A8-B134	250	3	3	3	2	3	3	2
A8-D36	250	3	3	2	2	3	3	2
A2-D111 (cis)	250	2	2	4	2	1	2	2
A2-D111 (trans)	250	3	3	3	3	1	3	2
A8-D111	250	3	3	3	3	1	2	3
A8-D109	250	3	3	3	3	1	2	3
A8-F5	250	4	3	4	3	3	3	3
A2-F5	250	3	3	3	3	3	4	3

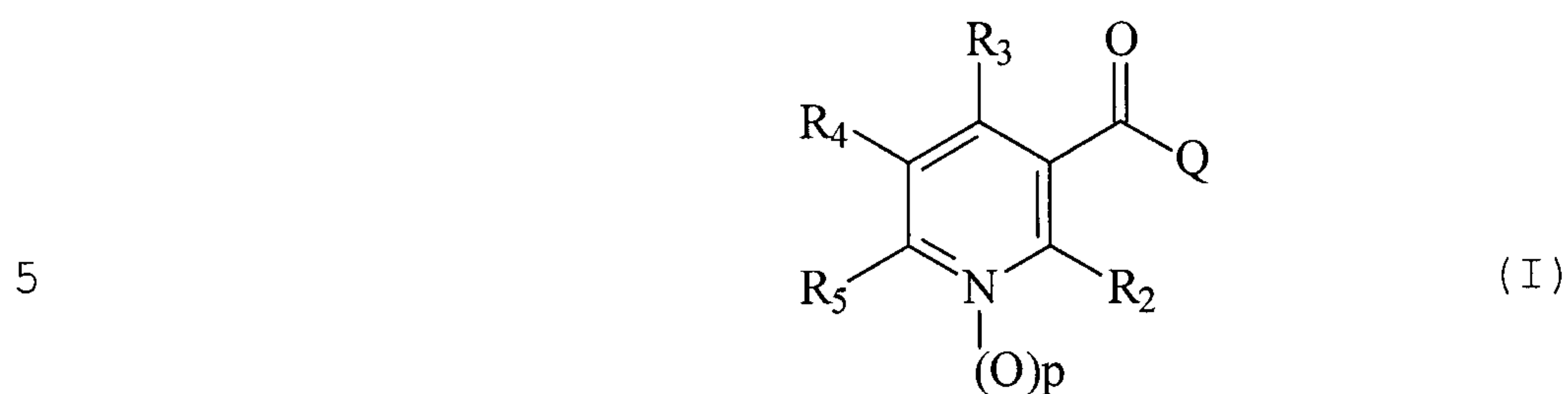
The same results are obtained when the compounds of the formula I are formulated in accordance with Examples F2 and F4 to F8 in accordance with WO 97/34485.

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CLAIMS:

1. A compound of the formula I



in which

p is 0 or 1;

R₅ is C₁-C₆haloalkyl;

10 R₂ is hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆haloalkenyl, vinyl which is substituted by C₁-C₂alkoxycarbonyl or phenyl, or is C₂-C₆alkynyl, C₂-C₆haloalkynyl, ethynyl which is substituted by trimethylsilyl, hydroxyl, C₁-C₂alkoxy, C₁-C₂alkoxycarbonyl or
 15 phenyl, or is C₃-C₆allenyl, C₃-C₆cycloalkyl, C₃-C₆cycloalkyl which is substituted by halogen, or is C₁-C₆alkoxy, C₃-C₆alkenyloxy, C₃-C₆-alkynyloxy, C₁-C₆haloalkoxy, C₃-C₆haloalkenyloxy, cyano-C₁-C₄alkoxy, C₁-C₄alkoxy-C₁-C₄alkoxy, C₁-C₄alkylthio-C₁-C₄alkoxy, C₁-C₄alkylsulfinyl-
 20 C₁-C₄alkoxy, C₁-C₄alkylsulfonyl-C₁-C₄alkoxy, C₁-C₄alkoxycarbonyl-C₁-C₄alkoxy, C₁-C₆alkylthio, C₁-C₆alkylsulfinyl, C₁-C₆alkylsulfonyl, C₁-C₆haloalkylthio, C₁-C₆haloalkylsulfinyl, C₁-C₆haloalkylsulfonyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylthio, C₁-C₄alkoxycarbonyl-
 25 C₁-C₄alkylsulfinyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkylsulfonyl, benzyl-S(O)_{n1}-, C₁-C₆alkylamino, C₂-C₆dialkylamino, C₁-C₆alkylaminosulfonyl, di-(C₁-C₆alkylamino)sulfonyl, benzyloxy, benzyl, phenyl, phenoxy, phenylthio, phenylsulfinyl or phenylsulfonyl, it being possible for the

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phenyl-containing groups, in turn, to be substituted by C₁-C₃alkyl, C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro or R₂ is OS(O)_{n2}-R₂₁, N(R₂₃)-S(O)_{n3}-R₂₂, cyano, carbamoyl, C₁-C₄alkoxycarbonyl, formyl, halogen,

5 thiocyanato, amino, hydroxy-C₁-C₄alkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₁-C₄alkyl-S(O)_{n4}-C₁-C₄alkyl, cyano-C₁-C₄alkyl, C₁-C₆alkylcarbonyloxy-C₁-C₄alkyl, C₁-C₄alkoxycarbonyl-C₁-C₄alkyl, C₁-C₄alkoxycarbonyloxy-C₁-C₄alkyl, C₁-C₄thiocyanato-C₁-C₄alkyl, benzoyloxy-C₁-C₄alkyl,

10 C₂-C₆oxiranyl, C₁-C₄alkylamino-C₁-C₄alkyl, di-(C₁-C₄-alkyl)amino-C₁-C₄alkyl, C₁-C₁₂alkylthiocarbonyl-C₁-C₄alkyl or formyl-C₁-C₄alkyl, or R₂ is a five- to ten-membered monocyclic or fused bicyclic ring system which can be aromatic or partially saturated and can contain 1 to 4

15 hetero atoms selected from the group consisting of nitrogen, oxygen and sulfur, the ring system being bonded to the pyridine ring via a C₁-C₄alkylene, -CH=CH-, -C≡C-, -CH₂O-, -CH₂N(C₁-C₄alkyl)-, -CH₂SO-, or -CH₂SO₂ group and it not being possible for each ring system to contain more than 2 oxygen

20 atoms and more than 2 sulfur atoms, and it being possible for the ring system itself to be mono-, di- or trisubstituted by C₁-C₆alkyl, C₁-C₆haloalkyl, C₃-C₆alkenyl, C₃-C₆haloalkenyl, C₃-C₆alkynyl, C₃-C₆haloalkynyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, mercapto,

25 C₁-C₆alkylthio, C₁-C₆haloalkylthio, C₃-C₆alkenylthio, C₃-C₆haloalkenylthio, C₃-C₆alkynylthio, C₂-C₅alkoxyalkylthio, C₃-C₅acetylalkylthio, C₃-C₆alkoxycarbonylalkylthio, C₂-C₄cyanoalkylthio, C₁-C₆alkylsulfinyl, C₁-C₆haloalkylsulfinyl, C₁-C₆alkylsulfonyl,

30 C₁-C₆haloalkylsulfonyl, aminosulfonyl, C₁-C₂alkylaminosulfonyl, di-(C₁-C₂alkyl)aminosulfonyl, di-(C₁-C₄alkyl)amino, halogen, cyano, nitro, phenyl and benzylthio, it being possible for phenyl and benzylthio, in turn, to be substituted on the phenyl ring by C₁-C₃alkyl,

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C₁-C₃haloalkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, halogen, cyano or nitro, and where substituents on the nitrogen in the heterocyclic ring are other than halogen;

R₃ is hydrogen or C₁-C₆alkyl;

5 R₄ is hydrogen, C₁-C₆alkyl, hydroxyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₃-C₆alkenyloxy, C₃-C₆haloalkenyloxy, C₃-C₆alkynyloxy, C₁-C₄alkylcarbonyloxy, C₁-C₄alkylsulfonyloxy, tosyloxy, C₁-C₄haloalkyl, or halogen;

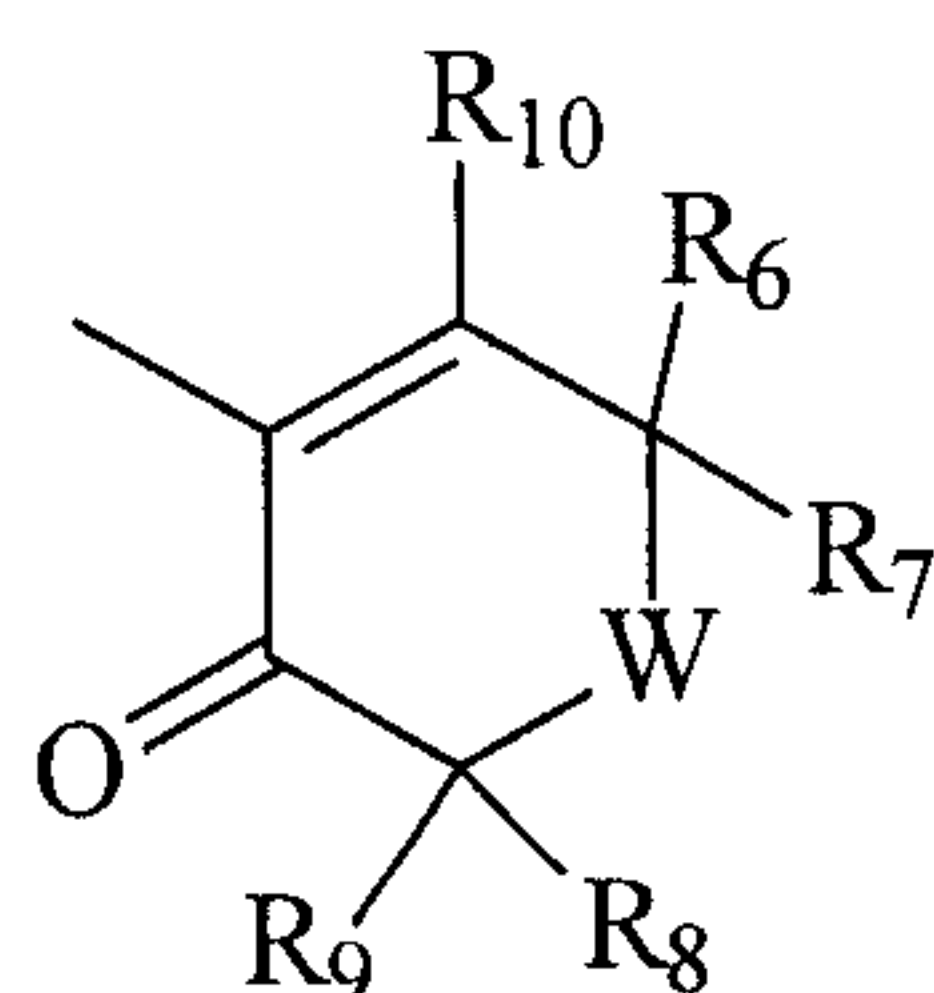
R₂₁ is C₁-C₄alkyl or C₁-C₄haloalkyl;

10 R₂₂ is C₁-C₄alkyl, C₁-C₄haloalkyl or di-(C₁-C₄alkyl)amino;

R₂₃ is hydrogen or C₁-C₄alkyl;

n, n₁, n₂, n₃ and n₄ independently of one another are 0, 1 or 2;

15 Q is Q₁

(Q₁)

20 in which

R₆, R₇, R₈ and R₉ independently of one another are hydrogen, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkylcarbonyl, C₁-C₆alkyl-S(O)_{n17}, C₁-C₆alkyl-NHS(O)₂, C₁-C₆alkylamino, 25 di-(C₁-C₆alkyl)amino, hydroxyl, C₁-C₆alkoxy, C₃-C₆alkenyloxy, C₃-C₆alkynyloxy, hydroxy-C₁-C₆alkyl, C₁-C₄alkylsulfonyloxy-

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- C_1-C_6 alkyl, tosyloxy- C_1-C_6 alkyl, C_1-C_6 alkoxy- C_1-C_6 alkyl,
 C_1-C_6 alkyl-S(O)_{n4}- C_1-C_6 alkyl, cyano- C_1-C_6 alkyl, C_1-C_6 alkoxy-
 C_1-C_6 alkoxy, benzyloxy- C_1-C_6 alkyl, C_1-C_6 alkoxycarbonyl-
 C_1-C_6 alkyl, C_1-C_6 alkoxycarbonyloxy- C_1-C_6 alkyl, thiocyanato-
5 C_1-C_6 alkyl, oxiranyl, C_1-C_6 alkylamino- C_1-C_6 alkyl,
di(C_1-C_6 alkyl)amino- C_1-C_6 alkyl, formyl- C_1-C_6 alkyl,
 C_1-C_6 alkyloximo, halogen, cyano, nitro, phenyl or phenyl
which is substituted by C_1-C_4 alkyl, C_1-C_4 haloalkyl,
 C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylcarbonyl,
10 C_1-C_4 alkoxycarbonyl, amino, C_1-C_4 alkylamino,
di- C_1-C_4 alkylamino, C_1-C_4 alkyl-S(O)_{n18}, C_1-C_4 alkyl-S(O)₂O,
 C_1-C_4 haloalkyl-S(O)_{n5}, C_1-C_4 haloalkyl-S(O)₂O, C_1-C_4 alkyl-
S(O)₂NH, C_1-C_4 alkyl-S(O)_{n19}N(C_1-C_4 alkyl)₂, halogen, nitro, COOH
or cyano;
15 or adjacent R₆ and R₇ or R₈ and R₉ together are -(CH₂)_m-,
C(O)O(CH₂)_{n20}- or -S(O)_{n21}(CH₂)_{n22}-;

n₅, n₁₇, n₁₈, n₁₉ and n₂₁ independently of one another are 0, 1 or 2;

n₂₀ is 2 or 3;

20 n₂₂ is 2, 3 or 4;

m is 2, 3, 4, 5 or 6;

W is oxygen, S(O)_{n6}, -CR₁₁R₁₂, -CR₆₃R₆₄CR₆₅R₆₆, -C(O)-
or -NR₁₃;

R₆₃, R₆₄, R₆₅ and R₆₆ independently of one another
25 are hydrogen or C_1-C_6 alkyl, or R₆₅ together with R₇ or R₉
forms a direct bond;

n₆ is 0, 1 or 2;

R₁₁ is hydrogen, C_1-C_4 alkyl, C_1-C_4 haloalkyl,
 C_1-C_4 alkoxy- C_1-C_4 alkyl, C_1-C_4 alkylthio- C_1-C_4 alkyl,

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C_1-C_4 alkylthio- C_3-C_6 cycloalkyl, C_1-C_4 alkylcarbonyloxy-
 C_1-C_4 alkyl, C_1-C_4 alkylsulfonyloxy- C_1-C_4 alkyl, tosyloxy-
 C_1-C_4 alkyl, di- $(C_1-C_3$ alkoxyalkyl)methyl,
 di- $(C_1-C_3$ alkthioalkyl)methyl, $(C_1-C_3$ alkoxyalkyl)-
 5 $(C_1-C_3$ alkthioalkyl)methyl, C_3-C_5 oxacycloalkyl,
 C_3-C_5 thiacycloalkyl, C_3-C_4 dioxacycloalkyl,
 C_3-C_4 dithiacycloalkyl, C_3-C_5 oxathiacycloalkyl, formyl,
 C_1-C_4 alkoxycarbonyl, carbamoyl, C_1-C_4 alkylaminocarbonyl,
 di- $(C_1-C_4$ alkyl)aminocarbonyl, phenylaminocarbonyl,
 10 benzylaminocarbonyl or phenyl which, in turn, can be
 substituted by C_1-C_4 alkyl, C_1-C_4 haloalkyl, C_1-C_4 alkoxy,
 C_1-C_4 haloalkoxy, C_1-C_4 alkylcarbonyl, C_1-C_4 alkoxycarbonyl,
 amino, C_1-C_4 alkylamino, di- C_1-C_4 alkylamino, C_1-C_4 alkyl-S(O) $_{n_{21}}$,
 C_1-C_4 alkyl-S(O) $_2$ O, C_1-C_4 haloalkyl-S(O) $_{n_7}$, C_1-C_4 haloalkyl-S(O) $_2$ O,
 15 C_1-C_4 alkyl-S(O) $_2$ NH, C_1-C_4 alkyl-S(O) $_{n_{20}}$ N(C_1-C_4 alkyl), halogen,
 nitro, COOH or cyano;

n_7 , n_{20} and n_{21} independently of one another are 0,
 1 or 2;

or R_{12} together with R_6 or R_9 is a group $-(CH_2)_o-$;
 20 o is 1, 2, 3, 4 or 5;

R_{12} is hydrogen, C_1-C_4 alkyl or C_1-C_4 haloalkyl;

or R_{12} together with R_{11} is a group $-(CH_2)_{m_1}$;

m_1 is 2, 3, 4, 5 or 6;

R_{10} is hydroxyl, O^-M^+ , wherein M^+ is $-NH^+(CH_2CH_3)_3$,
 25 halogen, phenylthio, phenylsulfinyl or phenylsulfonyl;

R_{13} is hydrogen, C_1-C_4 alkyl, C_1-C_4 alkylthio-
 C_1-C_4 carbonyl, C_1-C_4 alkylsulfinyl- C_1-C_4 carbonyl,
 C_1-C_4 alkylsulfonyl- C_1-C_4 carbonyl, C_1-C_4 -alkoxycarbonyl,
 C_1-C_4 alkylcarbonyl, phenylcarbonyl, or is phenyl which, in

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turn, can be substituted by C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄haloalkoxy, C₁-C₄alkylcarbonyl, C₁-C₄alkoxycarbonyl, C₁-C₄alkylamino, di-C₁-C₄-alkylamino, C₁-C₄alkyl-S(O)_{n₁₅}, C₁-C₄alkyl-S(O)₂O, C₁-C₄haloalkyl-S(O)_{n₁₆},
 5 C₁-C₄haloalkyl-S(O)₂O, C₁-C₄alkyl-S(O)₂NH, C₁-C₄alkyl-S(O)₂N(C₁-C₄alkyl), halogen, nitro, or cyano; and

n₁₅ and n₁₆ independently of one another are 0, 1 or 2;

or an agrochemically tolerated salt M⁺ or a stereoisomer or
 10 tautomer of a compound of the formula I.

2. A compound according to claim 1, in which R₁₀ is hydroxyl or O⁻M⁺.

3. A compound according to claim 1, in which W is oxygen, -CR₁₁R₁₂- or -C(O)-.

15 4. A compound according to claim 1, in which W is oxygen and R₆, R₇, R₈ and R₉ independently of one another are hydrogen or C₁-C₃alkyl.

5. A compound according to claim 1, in which W is -C(O)- and R₆, R₇, R₈ and R₉ independently of one another are
 20 C₁-C₃alkyl.

6. A compound according to claim 1, in which R₂ is hydrogen and R₃ is methyl.

7. A compound according to claim 1, in which R₂ is methyl, ethyl, n-propyl, i-propyl, vinyl, methoxymethyl, methoxycarbonyloxymethyl, ethoxycarbonyloxymethyl, acetoxymethyl, propionyloxymethyl, chloromethyl, bromomethyl, fluoromethyl, difluoromethyl, trifluoromethyl or cyanomethyl.

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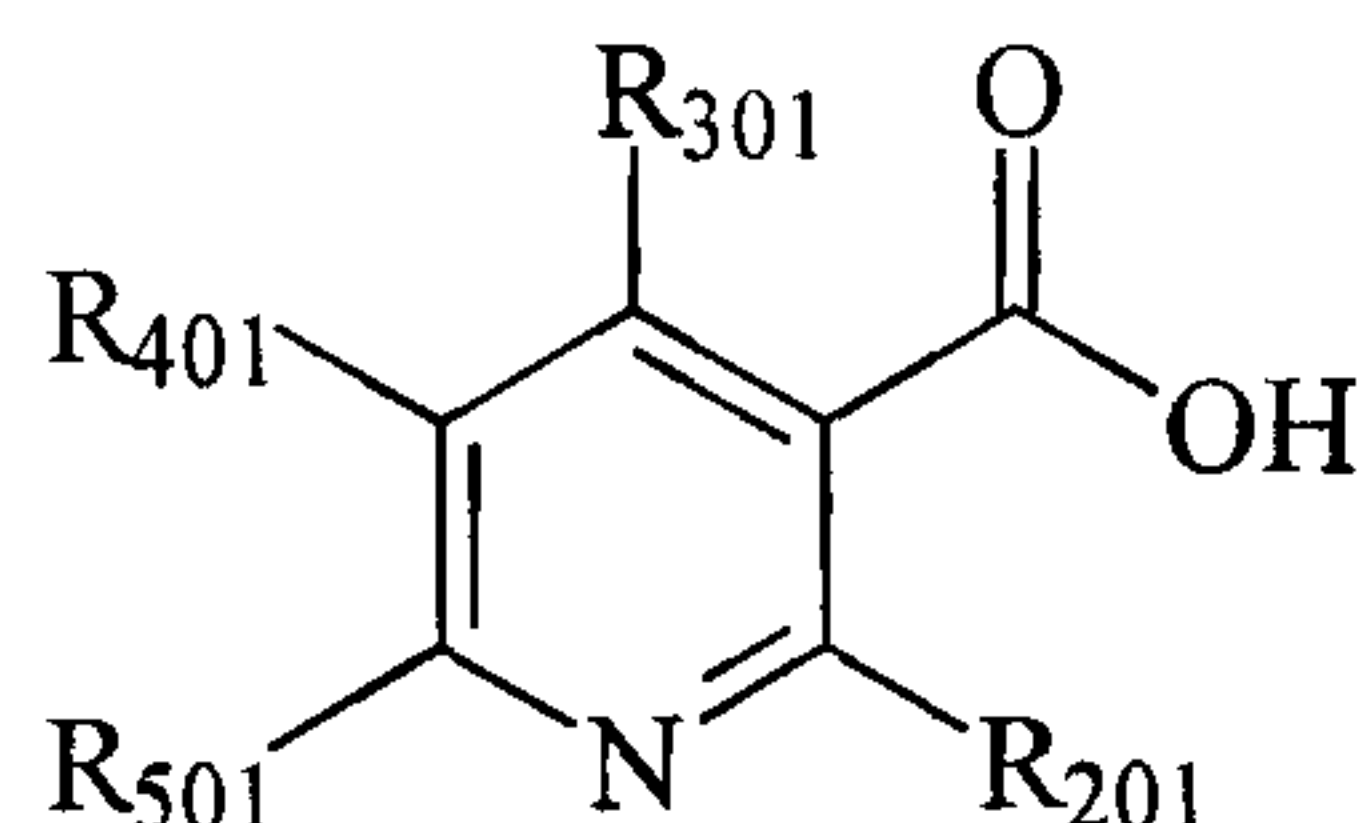
8. A compound according to claim 1, in which R₄ is hydrogen or methyl.

9. A compound according to claim 1, in which R₅ is trifluoromethyl, difluorochloromethyl, pentafluoroethyl,
5 heptafluoropropyl or difluoromethyl.

10. A compound according to claim 1, in which R₃ is hydrogen and R₂ is C₁-C₄alkyl, C₁-C₃haloalkyl, cyclopropyl, C₂-C₃alkenyl, C₂-C₃haloalkenyl, C₂-C₃alkynyl, allenyl, C₁-C₂-alkoxy-C₁-C₂alkyl, C₁-C₂alkylthio-C₁-C₂alkyl, cyano-C₁-C₂alkyl,
10 C₁-C₂alkoxycarbonyl-C₁-C₂alkyl, C₁-C₄alkylcarbonyloxy-C₁-C₂alkyl, C₁-C₃alkoxy, C₁-C₃haloalkoxy, allyloxy, propargyloxy, C₁-C₃alkylthio, C₁-C₃alkylsulfinyl or cyano.

11. A compound of the formula XVIa

15



(XVIa)

in which

R₅₀₁ is difluoromethyl;

20

R₃₀₁ is hydrogen;

R₄₀₁ is hydrogen and

R₂₀₁ is methyl.

12. Herbicidal and plant-growth-inhibitory composition, comprising a compound as defined in any one of
25 claims 1 to 11 and an inert carrier.

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13. A method of controlling undesired vegetation,
wherein a compound as defined in any one of claims 1 to 11
or a composition as defined in claim 12 is applied to the
vegetation or an environment where the vegetation is
5 located.

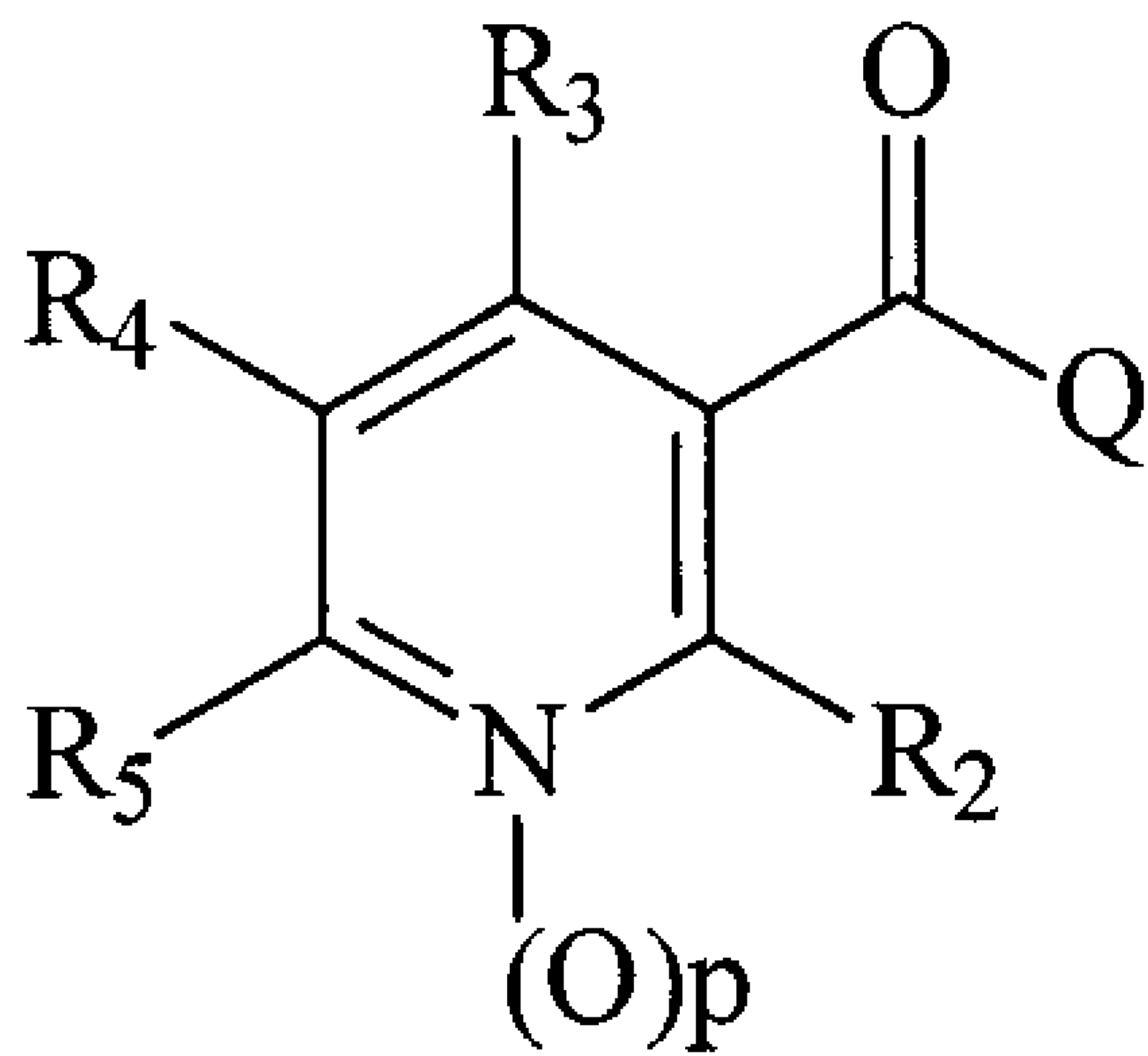
14. A method of inhibiting plant growth, wherein a
compound as defined in any one of claims 1 to 11 or a
composition as defined in claim 12 is applied to the plants
or their environment.

10 15. Use of a compound as defined in any one of
claims 1 to 11 or a composition as defined in claim 12 for
controlling undesired plant growth.

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PATENT AGENTS



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