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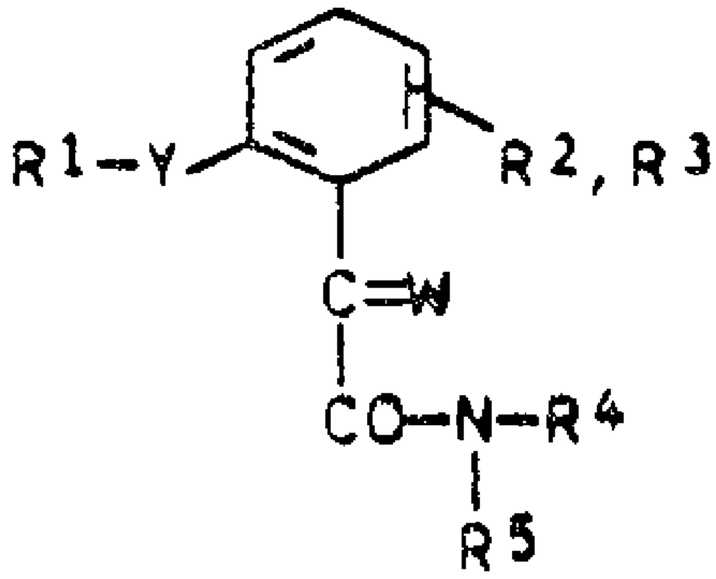

(I)

(57) Abrégé/Abstract:
Ortho-substituted phenylacetamides I (R^1 = H, alkyl, cycloalkyl, alkenyl, alkynyl, phenylalkynyl, alkoxyalkyl, alkoxycarbonyl, phenyl, phenylalkyl, phenylalkenyl or phenoxyalkyl, 5- or 6-membered heterocycle with 1-3 hetero atoms to which a benzene ring or a 5- or 6-membered heterocycle can be fused; R^2 and R^3 = H, CN, halogen, alkyl, alkoxy; R_4 and R^5 = H, alkyl and R^4 or R^5 = alkoxy; Y = O, S, SO, SO_2, N=N, O-CO, CO-O, CO-O-CH_2, alkylene or haloalkylene, alkenylene, alkynylene, oxy- alkylene, thio-alkylene, alkyleneoxy, carbonylalkylene or alkylenecarbonyl, W = alkoxyimino, alkoxymethylene or alkylthiomethylene), excepting compounds where R^1 is hydrogen, phenyl or 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropyl, R^2 to R^5 are each hydrogen, Y is carbonyloxymethylene and W is methoxymethylene or methylthiomethylene, are suitable as fungicides and for controlling pests.

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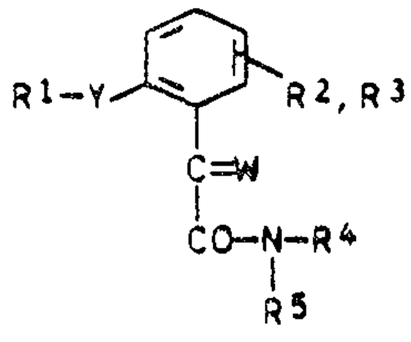
Abstract of the Disclosure: Ortho-substituted phenylacetamides I

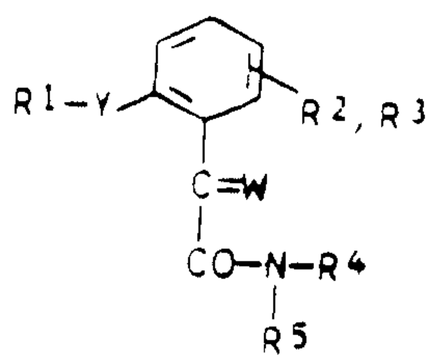


(I)

(R^1 = H, alkyl, cycloalkyl, alkenyl, alkynyl, phenylalkynyl, alkoxyalkyl, alkoxycarbonyl, phenyl, phenylalkyl, phenylalkenyl or phenoxyalkyl, 5- or 6-membered heterocycle with 1-3 hetero atoms to which a benzene ring or a 5- or 6-membered heterocycle can be fused; R^2 and R^3 = H, CN, halogen, alkyl, alkoxy; R_4 and R^5 = H, alkyl and R^4 or R^5 = alkoxy; Y = O, S, SO, SO_2, N=N, O-CO, CO-O, CO-O-CH_2, alkylene or haloalkylene, alkenylene, alkynylene, oxy- alkylene, thio-alkylene, alkyleneoxy, carbonylalkylene or alkylenecarbonyl, W = alkoxyimino, alkoxymethylene or alkylthiomethylene),
excepting compounds where R^1 is hydrogen, phenyl or 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropyl, R^2 to R^5 are each hydrogen, Y is carbonyloxymethylene and W is methoxymethylene or methylthiomethylene,
are suitable as fungicides and for controlling pests.

ORTHO-SUBSTITUTEDPHENYLACETAMIDES

The present invention as broadly disclosed hereinafter relates to ortho-substituted phenylacetamides of the formula (I):



(I)

where

R^1 is hydrogen, C_1-C_{18}-alkyl, C_3-C_8-cycloalkyl which can have from one to three substituents selected from a group of 3 halogen atoms, 3 C_1-C_4-alkyl groups, a partially or completely halogenated C_1-C_4-alkenyl group and a phenyl group which can carry one or two halogen atoms and/or one C_1-C_4-alkyl group and/or one C_1-C_4-alkoxy group, or is C_2-C_{10}-alkenyl, C_2-C_4-alkynyl which can carry a phenyl radical, or is C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-alkoxycarbonyl, phenyl, phenyl-C_1-C_4-alkyl or phenyl-C_2-C_4-alkenyl or phenoxy-C_1-C_4-alkyl where each aromatic ring can have from one to five substituents selected from a group of 2 nitro radicals, 2 cyano radicals, 5 halogen atoms and in each case three of the following: C_1-C_4-alkyl, partially or completely halogenated C_1-C_4-alkyl, C_2-C_4-alkenyl, partially or completely halogenated C_2-C_4-alkenyl and C_1-C_4-alkoxy, and of one phenyl, benzyl, phenoxy, benzyloxy or phenylthio radical, where the last two radicals in turn can have one or two of the following substituents: cyano, halogen or C_1-C_4-alkyl;

a 5- or 6-membered heterocycle with from one to three hetero atoms selected from a group of two

oxygen, two sulfur and three nitrogen atoms, excepting compounds with two adjacent oxygen and/or sulfur atoms, it being possible for a benzene ring or a 5- or 6-membered heteroaromatic ring with one nitrogen, oxygen or sulfur atom to be fused on to the heterocycle, and it being possible for the heterocycle to carry one halogen atom, one or two C_1-C_4-alkyl radicals or one phenyl radical;

R^2 and R^3 are each, independently of one another, hydrogen, cyano, halogen, C_1-C_4-alkyl or C_1-C_4-alkoxy;

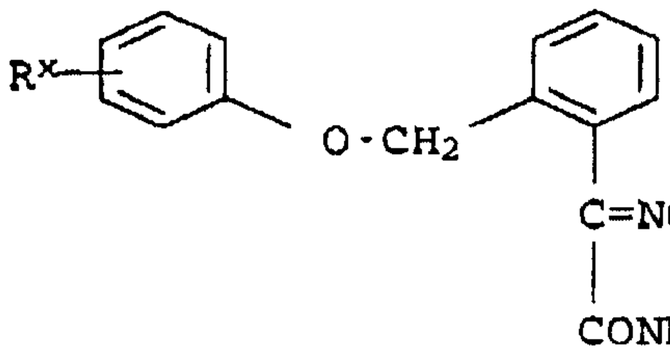
R^4 and R^5 are each, independently of one another, hydrogen or C_1-C_4-alkyl or one of the two is C_1-C_4-alkoxy;

Y is oxygen, sulfur, -SO-, $-SO_2-$, $-CH_2-O-SO_2-$, -N=N-, -O-CO-, -CO-O- or $-CO-O-CH_2-$, C_1-C_4-alkylene which can be partially or completely halogenated and can carry one of the following: cyano, nitro, C_1-C_4-alkyl, partially or completely halogenated C_1-C_4-alkyl, C_2-C_4-alkenyl, partially or completely halogenated C_2-C_4-alkenyl, C_1-C_4-alkoxy, phenyl or phenoxy, it being possible for the last two radicals in turn to have one or two of the following substituents: cyano, halogen or C_1-C_4-alkyl, C_2-C_4-alkenylene or C_2-C_4-alkynylene, oxy-(C_1-C_4)-alkylene, thio-(C_1-C_4)-alkylene or C_1-C_4-alkyleneoxy or carbonyl-(C_1-C_4)-alkylene or C_1-C_4-alkylene-carbonyl;

W is C_1-C_4-alkoxyimino, C_1-C_4-alkoxymethylene or C_1-C_4-alkylthiomethylene,

excepting compounds where R^1 is hydrogen, phenyl or 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropyl, R^2 to R^5 are each hydrogen, Y is carbonyloxymethylene and W is methoxymethylene or methylthiomethylene.

The present invention as claimed is however restricted to the compounds of formula (I.1):



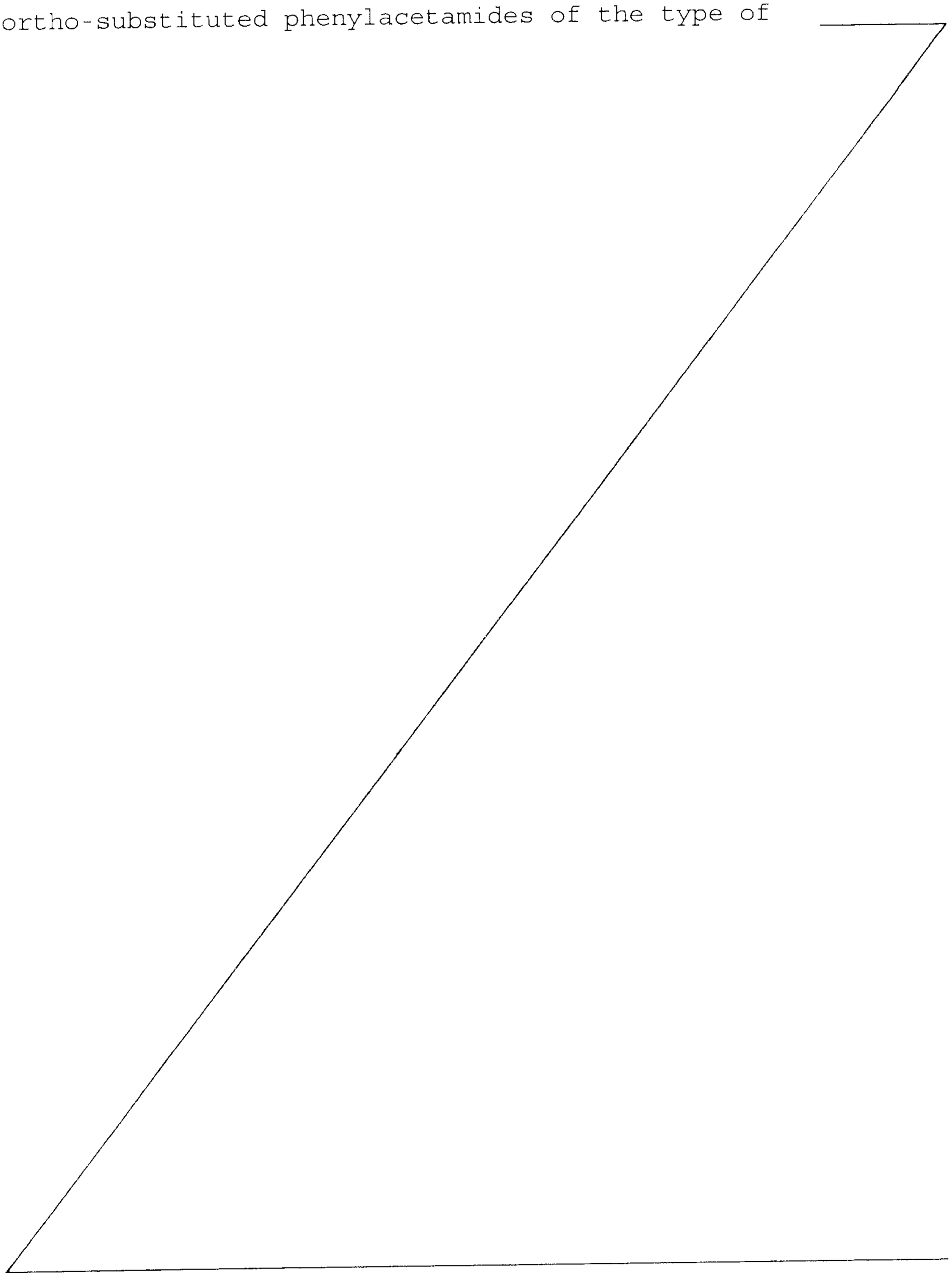
(I.1)

where R^X represents the following substituents or combinations of substituents:

2-fluoro, 3-fluoro, 2-bromo, 2-iodo, 2-methyl, 3-methyl, 2-methoxy, 2-trifluoromethyl, 4-trifluoromethyl, 2-nitro, 4-nitro, 2-chloromethyl, 3-chloromethyl, 4-chloromethyl, 2-ethyl, 3-ethyl, 4-ethyl, 3-isopropyl, 4-isopropyl, 3-tert-bubyl, 3-phenyl, 4-phenyl, 3,5-diethyl, 4-cyclohexyl, 4-isopropyloxy, 4-tert-butyloxy, 4-phenoxy, 3-benzyloxy, 4-benzyloxy, 2,3-dichloro, 2,5-dichloro, 2,6-dichloro, 2,3,4-trichloro, 2,3,5-trichloro, 2,3,6-trichioro, 3,4,5-trichloro, pentachloro, pentafluoro, 2-fluoro-4-chloro, 4-fluoro-2-chloro, 2-methyl-4-tert-butyl, 2-methyl-4-cyclohexyl, 2-methyl-4-propyl, 2,3-dimethyl, 2,4-dimethyl, 2,5-dimethyl, 3,4-dimethyl, 3,5-dimethyl, 2,3,5-trimethyl or 2,4,6-trimethyl.

The invention also relates to processes for preparing the above compounds, to their use as fungicides and to their use as insecticides, nematicides and acaricides and to fungicidal agents and agents for controlling pests which contain these compounds as active substances.

EP-A 310 954 discloses, inter alia, fungicidal ortho-substituted phenylacetamides of the type of



compounds I, and their phenylacetonitrile precursors, where R^1 is hydrogen, phenyl or 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropyl, R^2 to R^5 are each hydrogen, Y is carboxymethylene and W is methoxymethylene or methylthiomethylene. European patent 398 692 discloses similar compounds.

It is an object of the present invention to find novel fungicidal ortho-substituted phenylacetic acid derivatives and novel insecticidal, acaricidal and nematicidal active ingredients.

We have found that this object is achieved by the ortho-substituted phenylacetamides of the formula I defined above.

The specific meanings of the substituents in the novel compounds I are as follows:

R^1

- hydrogen;
- branched or unbranched C_1-C_{18}-alkyl such as methyl, ethyl, n-propyl, isopropyl, 1,1-dimethylpropyl, 2,2-dimethylpropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, 3-methylbutyl, n-pentyl, n-hexyl, n-heptyl, 2,6-dimethylheptyl, n-octyl, n-nonyl, n-decyl, n-pentadecyl, n-heptadecyl and n-octadecyl, preferably C_1-C_{10}-alkyl;
- C_3-C_8-cycloalkyl such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl and cyclooctyl, each of which can have from one to three substituents selected from a group of 3 halogen atoms such as fluorine, chlorine, bromine and iodine, especially fluorine and chlorine, 3 C_1-C_4-alkyl groups such as methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, and tert-butyl, partially or completely halogenated C_1-C_4-alkenyl such as 2,2-dichloroethenyl, and phenyl which can carry one or two halogen atoms as mentioned above, especially fluorine and chlorine, and/or one C_1-C_4-alkyl group such as methyl, ethyl, n-propyl, isopropyl, n-butyl and tert-butyl and/or one C_1-C_4-alkoxy group such as methoxy, ethoxy, n-propoxy,

isopropoxy, n-butoxy and tert-butoxy; cyclopropyl, 1-methylcyclopropyl, 2,2-dichlorocyclopropyl, 1-(2,2-dichlorovinyl)cyclopropyl, 1-phenylcyclopropyl, 1-(p-fluorophenyl)cyclopropyl, cyclohexyl and 1-methylcyclohexyl are preferred;

- C_2-C_{10}-alkenyl such as vinyl, allyl, 1-propenyl, 2-propenyl, 2-methylpropenyl, 2-butenyl, 1-methylpropenyl, 3-methyl-2-butenyl, 1,3-pentadienyl, 2,6-dimethyl-5-heptenyl and 2,6-dimethyl-1,5-heptadienyl;
- C_2-C_4-alkynyl such as ethynyl and 2-propynyl, which can carry a phenyl radical, eg. 2-phenylethynyl;
- C_1-C_4-alkoxy-C_1-C_4-alkyl such as methoxymethyl, ethoxymethyl, n-propoxymethyl, isopropoxymethyl, n-butoxymethyl, tert-butoxymethyl, 1-methoxyethyl, 2-methoxyethyl, 1-ethoxyethyl, 2-ethoxyethyl and 2-n-propoxyethyl;
- C_1-C_4-alkoxycarbonyl such as methoxycarbonyl, ethoxycarbonyl, n-propoxycarbonyl, isopropoxycarbonyl, n-butoxycarbonyl and tert-butoxycarbonyl, preferably methoxycarbonyl;
- phenyl, phenyl-C_1-C_4-alkyl such as benzyl, phenethyl, 3-phenyl-n-propyl and 4-phenyl-n-butyl, phenyl-C_2-C_4-alkenyl such styryl and 2-phenyl-2-propenyl or phenoxy-C_1-C_4-alkyl such as phenoxymethyl, 2-phenoxyethyl, 3-phenoxypropyl and 4-phenoxybutyl, it being possible for each of the said groups to carry on the phenyl ring a total of from one to five radicals, in particular:
  - one or two nitro groups,
  - one or two cyano groups,
  - up to 5 halogen atoms as mentioned above, especially fluorine and chlorine,
  - up to 3 C_1-C_4-alkyl groups as mentioned above,
  - up to 3 partially or completely halogenated C_1-C_4-alkyl groups such as fluoromethyl, chloromethyl, trifluoromethyl, trichloromethyl, dichlorofluoromethyl, 1-fluoroethyl, 2-fluoroethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, 2-chloro-2-fluoroethyl,

2-chloro-2,2-difluoroethyl, 2,2-dichloro-2-fluoroethyl, 2,2,2-trichloroethyl and pentafluoroethyl, especially trifluoromethyl,

- up to 3 C_2-C_4-alkenyl groups such as ethenyl, 1-propenyl, 2-propenyl, 1-methylethenyl, 1-butenyl, 2-butenyl, 3-butenyl, 1-methyl-1-propenyl, 2-methyl-1-propenyl, 1-methyl-2-propenyl and 2-methyl-2-propenyl, especially ethenyl and 2-propenyl,
- up to 3 partially or completely halogenated C_2-C_4-alkenyl groups such as 2-fluoroethenyl, 2-chloroethenyl, trifluoroethenyl, trichloroethenyl and 2-chloro-2-propenyl and
- up to 3 C_1-C_4-alkoxy groups such as methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy and tert-butoxy,
- phenyl, benzyl, phenoxy, benzyloxy or phenylthio, each of which in turn can have one or two of the following substituents: cyano, halogen as mentioned above, especially fluorine and chlorine, or C_1-C_4-alkyl as mentioned above;

phenyl, 2-nitrophenyl, 4-nitrophenyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 2-iodophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, 2,6-dichlorophenyl, 2,3,4-trichlorophenyl, 2,3,5-trichlorophenyl, 2,3,6-trichlorophenyl, 3,4,5-trichlorophenyl, pentafluorophenyl, pentachlorophenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 2-ethylphenyl, 3-ethylphenyl, 4-ethylphenyl, 3-isopropylphenyl, 4-isopropylphenyl, 3-tert-butylphenyl, 4-tert-butylphenyl, 2,3-dimethylphenyl, 2,4-dimethylphenyl, 2,5-dimethylphenyl, 3,4-dimethylphenyl, 3,5-dimethylphenyl, 4-tert-butyl-2-methylphenyl, 3,5-diethylphenyl, 2,3,5-trimethylphenyl, 2,4,6-trimethylphenyl, 4-cyclohexylphenyl, 3-phenoxyphenyl, 4-phenoxyphenyl, 4-phenylthiophenyl, 3-benzyloxyphenyl, 4-benzyloxyphenyl, 2-trifluoromethylphenyl, 3-trifluoromethylphenyl, 4-trifluoro-

methylphenyl, 2-chloromethylphenyl, 3-chloromethylphenyl, 4-chloromethylphenyl, benzyl, 4-chlorobenzyl, phenethyl, 4-chlorophenethyl, styryl, 4-chlorostyryl, phenoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, 2-methylphenoxy, 3-methylphenoxy, 4-methylphenoxy, 2-trifluoromethylphenoxy, 3-trifluoromethylphenoxy, 4-trifluoromethylphenoxy, phenoxymethyl and 2-phenoxyethyl are preferred;

- a 5- or 6-membered heterocycle with from one to three hetero atoms selected from a group of two oxygen, two sulfur and three nitrogen atoms, excepting compounds with two adjacent oxygen and/or sulfur atoms, it being possible for a benzene ring or a 5- or 6-membered heteroaromatic ring with a nitrogen, oxygen or sulfur atom to be fused on to the heterocycle, for example 2-pyrrolyl, 3-pyrrolyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 3-pyrazolyl, 4-pyrazolyl, 5-pyrazolyl, 2-oxazolyl, 4-oxazolyl, 5-oxazolyl, 2-benzoxazolyl, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, benzothiazol-2-yl, 3-isoxazolyl, 4-isoxazolyl, 5-isoxazolyl, 3-isothiazolyl, 4-isothiazolyl, 5-isothiazolyl, 2-imidazolyl, 4-imidazolyl, 1,2,4-oxadiazol-3-yl, 1,2,4-oxadiazol-5-yl, 1,2,4-thiadiazol-3-yl, 1,2,4-thiadiazol-5-yl, 1,3,4-oxadiazol-2-yl, 1,3,4-thiadiazol-2-yl, 1,2,4-triazol-3-yl, 1,3,4-triazol-2-yl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 3-pyridazinyl, 4-pyridazinyl, 2-pyrimidyl, 4-pyrimidyl, 5-pyrimidyl, 2-pyrazinyl, 1,3,5-triazin-2-yl and 1,2,4-triazin-3-yl,
it being possible for the heterocycles to carry a halogen atom as mentioned above, especially fluorine and chlorine, one or two C_1-C_4-alkyl groups as mentioned above, especially methyl, or a phenyl radical, for example 5-chlorobenzothiazol-2-yl, 6-chloro-2-pyridyl, 6-methyl-2-pyridyl, 6-ethyl-2-pyridyl, 6-n-propyl-2-pyridyl, 6-isopropyl-2-pyridyl, 6-n-butyl-2-pyridyl, 6-sec-butyl-2-pyridyl and 6-tert-butyl-2-pyridyl, 6-phenyl-2-pyridyl and 4,8-dimethyl-2-quinolyl;

halophenyl, C_1-C_4-alkylphenyl, di-(C_1-C_4)-alkylphenyl and benzothiazol-2-yl are particularly preferred;

R^2, R^3

- hydrogen, cyano, halogen as mentioned above, especially fluorine and chlorine,
- branched or unbranched C_1-C_4-alkyl as mentioned above, especially methyl, ethyl and isopropyl;
- C_1-C_4-alkoxy as mentioned above, especially methoxy;

hydrogen is particularly preferred;

R^4, R^5

- hydrogen,
- branched or unbranched C_1-C_4-alkyl as mentioned above, especially methyl, ethyl, n-propyl and n-butyl;
- one of the two substituents is C_1-C_4-alkoxy as mentioned above, especially methoxy;

Y

- oxygen or sulfur;
- -SO-, $-SO_2-$, $-CH_2-O-SO_2-$, -N=N-, -O-CO-, -CO-O- or $-CO-O-CH_2-$, preferably -O-CO-, -CO-O- and $-CO-O-CH_2-$;
- C_1-C_4-alkylene which can be partially or completely halogenated, especially fluorinated or chlorinated, and which can also carry one of the following: cyano, nitro, C_1-C_4-alkyl as mentioned above, partially or completely halogenated C_1-C_4-alkyl as mentioned above, C_2-C_4-alkenyl as mentioned above, partially or completely halogenated C_2-C_4-alkenyl as mentioned above, C_1-C_4-alkoxy as mentioned above, phenyl or phenoxy, it being possible for the latter two radicals in turn to have one or two of the following substituents: cyano, halogen as mentioned above, especially fluorine and chlorine, or C_1-C_4-alkyl as mentioned above, especially methyl; methylene or ethylene is preferred;
- C_2-C_4-alkenylene such as ethenylene, 2-propenylene and 2-butenylene, preferably ethenylene;
- C_2-C_4-akynylene such as ethynylene, 2-propynylene and 2-butynylene, preferably ethynylene;
- oxy-(C_1-C_4)-alkylene such as oxymethylene, oxyethylene,

oxy-n-propylene and oxy-n-butylene, preferably oxymethylene;

- thio-(C_1-C_4)-alkylene such as thiomethylene, thioethylene, thio-n-propylene and thio-n-butylene, preferably thiomethylene;
- C_1-C_4-alkyleneoxy such as methyleneoxy, ethyleneoxy, n-propyleneoxy and n-butyleneoxy, preferably methyleneoxy;
- carbonyl-(C_1-C_4)-alkylene such as carbonylmethylene, carbonylethylene, carbonyl-n-propylene and carbonyl-n-butylene, preferably carbonylmethylene;
- C_1-C_4-alkylenecarbonyl such as methylenecarbonyl, ethylenecarbonyl, n-propylenecarbonyl and n-butylenecarbonyl, preferably methylenecarbonyl;
- carbonyloxy-(C_1-C_4)-alkylene such as carbonyloxymethylene, carbonyloxyethylene, carbonyloxy-n-propylene and carbonyloxy-n-butylene, preferably carbonyloxymethylene;

W

- C_1-C_4-alkoxyimino such as methoxyimino, ethoxyimino, n-propoxyimino, isopropoxyimino, n-butoxyimino, sec-butoxyimino and tert-butoxyimino, preferably methoxyimino;
- C_1-C_4-alkoxymethylene such as methoxymethylene, ethoxymethylene, n-propoxymethylene, isopropoxymethylene, n-butoxymethylene, sec-butoxymethylene and tert-butoxymethylene, preferably methoxymethylene;
- C_1-C_4-alkylthiomethylene such as methylthiomethylene, ethylthiomethylene, n-propylthiomethylene, isopropylthiomethylene, n-butylthiomethylene, sec-butylthiomethylene and tert-butylthiomethylene, preferably methylthiomethylene;

C_1-C_4-alkoxyimino is preferred.

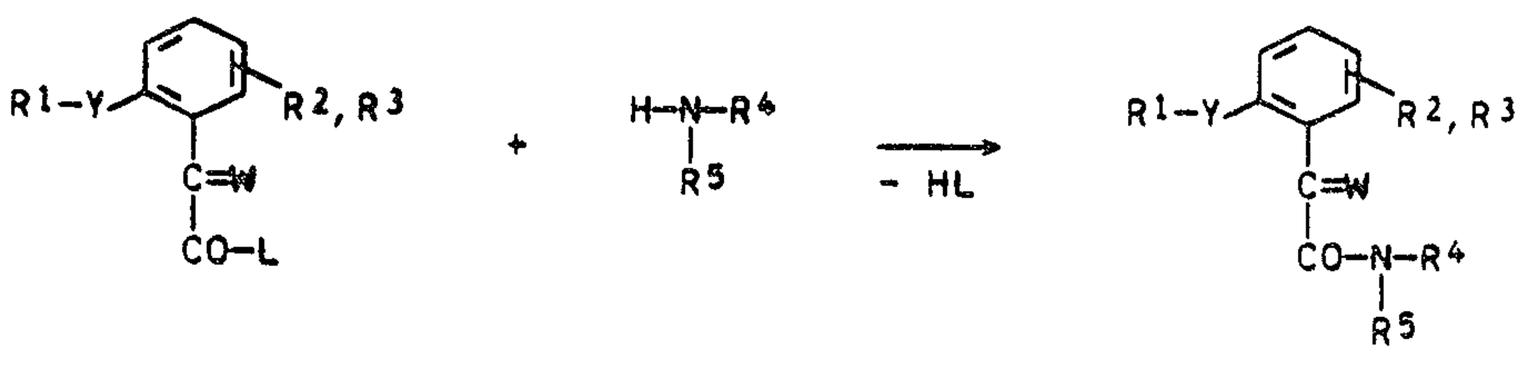
Particularly suitable ortho-substituted phenylacetamides I are shown in Table 1, with compounds with R^2 and R^3 each being hydrogen, R^4 being methyl, R^5 being hydrogen and W being methoxyimino or methoxymethylene

being particularly preferred. Very particularly suitable are 2-methoxyimino-2-[2-(o-methylphenoxymethyl)phenyl]-acetic acid N-methylamide and 2-methoxyimino-2-[2-(o-methylphenoxymethyl)phenyl] acetic acid N-methoxy-amide.

Preparation of compounds I may result in E/Z isomer mixtures where the two isomers differ by the alkoxy or alkylthio of the substituent W being cis or trans to the amide moiety. If required, the isomers can be separated by conventional methods, eg. by crystallization or chromatography. Compounds with the E configuration (alkoxy or alkylthio of the substituent W trans to the amide moiety) are particularly preferred.

The ortho-substituted phenylacetamides I can be obtained in a variety of ways, preferably by one of the following methods:

a) reaction of phenylacetic acid derivatives II with amines III



II III I

L is halogen, especially chlorine and bromine, or C_1-C_4-alkoxy, especially methoxy.

Preparation of ortho-substituted phenylacetamides I where R^4 or R^5 is C_1-C_4-alkoxy preferably starts from a phenylacetyl chloride II (L = Cl).

The reaction is normally carried out by conventional methods (eg. Organikum, 16th edition 1985, pages 409-412) in an inert solvent or diluent, advantageously in the presence of a base.

Particularly suitable solvents or diluents are chlorohydrocarbons such as dichloromethane, ethers such

as dioxane, and alcohols such as methanol and ethanol.

Examples of suitable bases are alkali metal hydroxides such as sodium and potassium hydroxide, alkali metal carbonates such as sodium and potassium carbonate, alkali metal alcoholates such as sodium methylate and sodium ethylate, especially tertiary amines such as triethylamine and heteroaromatic amines such as pyridine and 4-dimethylaminopyridine. However, it is also possible to use the amine III itself as base, for complete reaction in not less than the stoichiometric amount based on II.

All the starting compounds are expediently employed in approximately the stoichiometric ratio, but in some cases an excess of one component, of up to about 10 mol%, may be advisable.

If the amine III is used as base, it is present in a larger excess.

The reaction is generally carried out at from 0 to 120°C, in particular at the boiling point of the solvent.

If L is halogen, the reaction can also be carried out in a 2-phase system with phase-transfer catalysis. It is possible and advantageous to use for this mixture of a chlorohydrocarbon such as methylene chloride, aqueous alkali, eg. sodium hydroxide solution, and a phase-transfer catalyst such as tetra-n-butylammonium hydroxide. In this case, the reaction is carried out at, for example, from 10°C to the boiling point of one of the components of the solvent mixture.

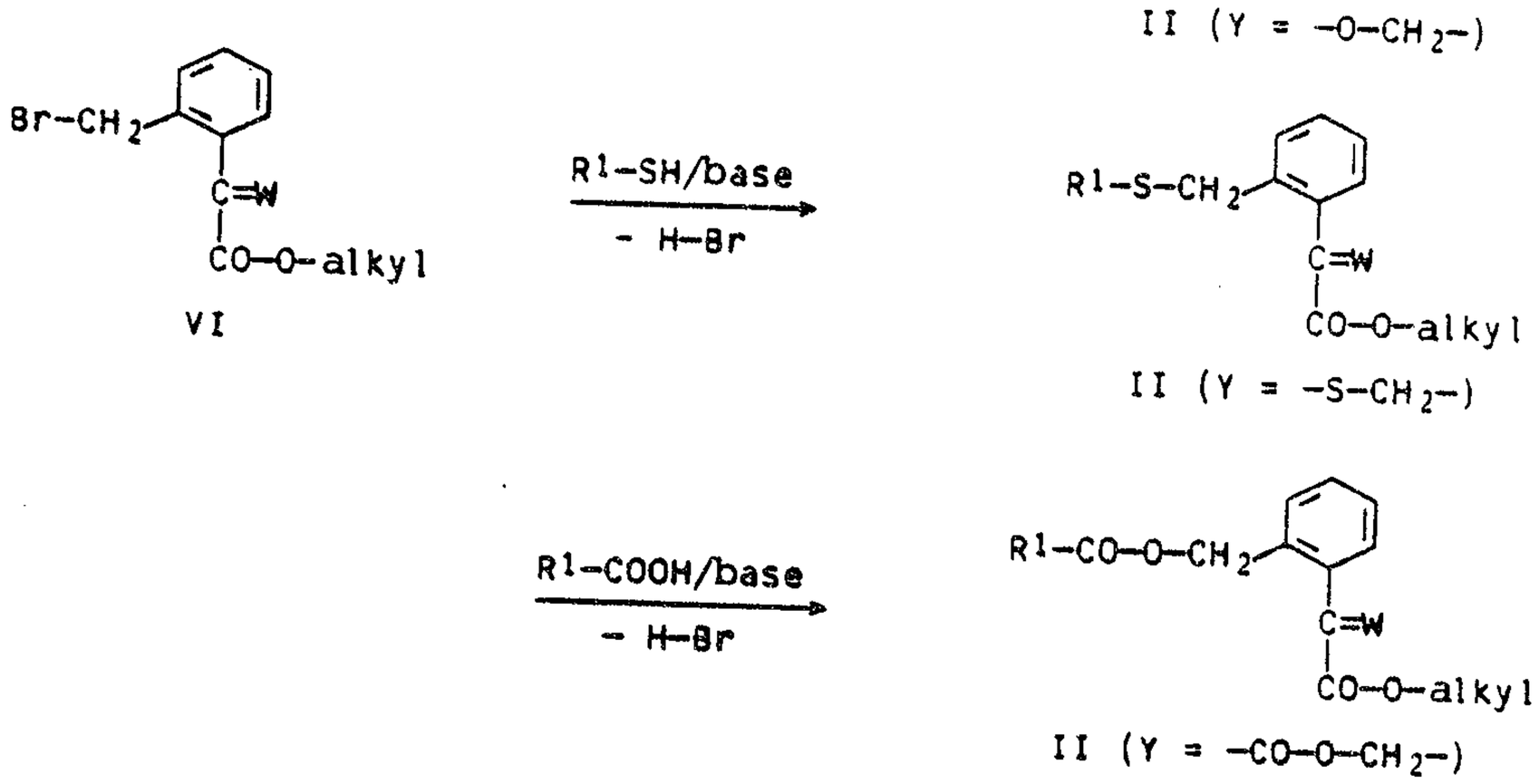
The reaction is normally carried out under atmospheric pressure. An increase or reduction in the pressure is possible but generally has no advantages.

Phenylacetic acid derivatives II where L is halogen are known or can be prepared by known processes (eg. Organikum, 16th edition 1985, pages 415, 622 and 423).

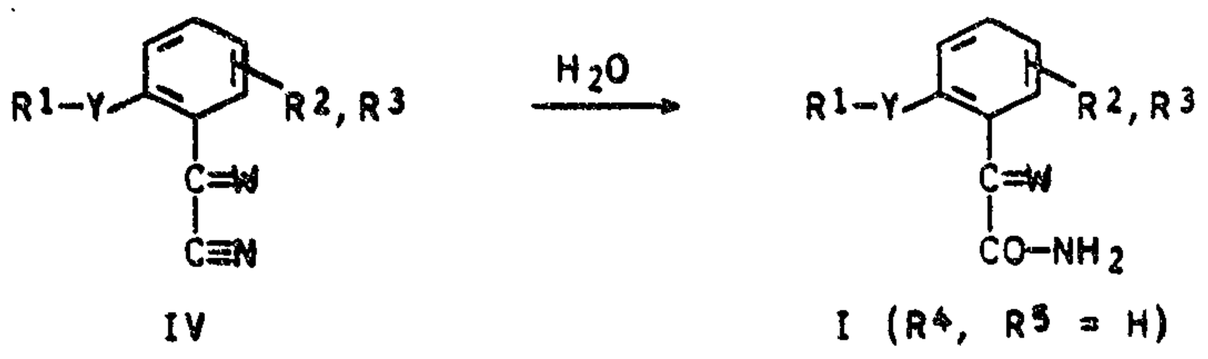
The phenylacetic acid derivatives II where L is

C_1-C_4-alkoxy are disclosed in EP-A 178 826 and EP-A 226 917 (X = =CH-O-alkyl), EP-A 244 077 (X = =CH-S-alkyl) and EP-A 253 213 and EP-A 254 426 (X = =N-O-alkyl) or can be prepared by similar processes.

For example, the phenylacetic acid derivatives II with Y = oxymethylene, thiomethylene or -CO-O-CH_2- are obtained by nucleophilic substitution on benzyl halides VI



b) Hydrolysis of phenylacetonitriles IV



The hydrolysis of the phenylacetonitriles IV is normally catalyzed by acid or base by conventional methods [cf., for example, Beckwith in: Zabicky The Chemistry of Amides, pages 119 to 125 (1970) and Synthesis, 243 (1980)] in an inert solvent or diluent.

Particularly suitable solvents are alcohols such as tert-butanol and ethylene glycol.

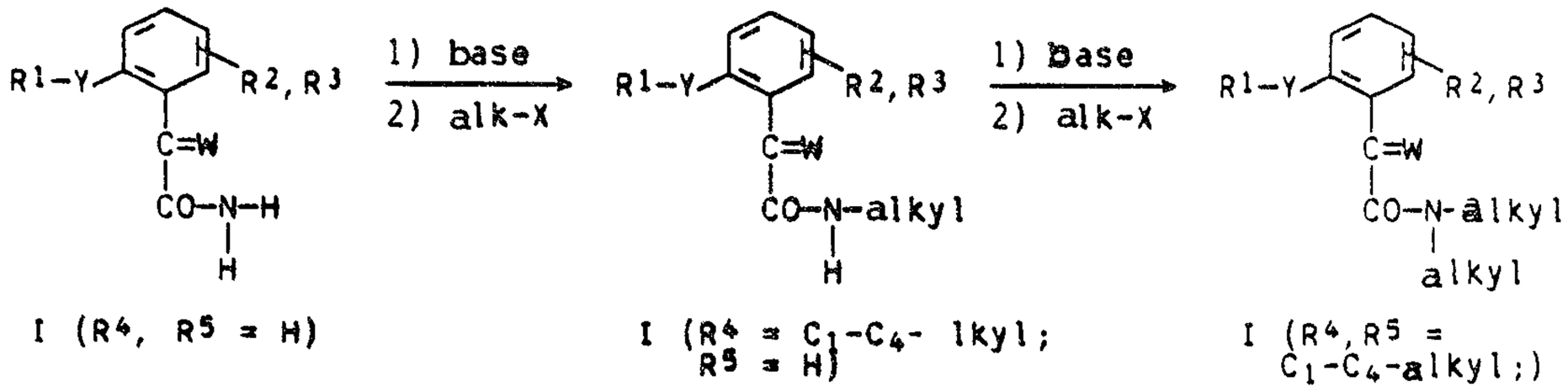
Particularly suitable acids are concentrated mineral acids such as hydrochloric acid, sulfuric acid and phosphoric acid, and preferred bases are alkali metal hydroxides such as sodium and potassium hydroxide.

The reaction is normally carried out at from 0 to 200°C, in particular from 20°C to the boiling point of the solvent.

The statements made for method (a) apply to the ratios of amounts and the pressure.

Phenylacetonitriles of the formula IV are disclosed, for example, in EP-A 310 954 or can be prepared by the methods described therein.

The ortho-substituted phenylacetamides I where R^4 and R^5 are each hydrogen can be alkylated on the amide nitrogen by conventional processes [eg. Challis in: Zabicky The Chemistry of Amides, pages 731-857 (1970)]:



I (R^4, R^5 = H) I (R^4 = C_1-C_4-alkyl; R^5 = H) I (R^4, R^5 = C_1-C_4-alkyl;)

Alk is C_1-C_4-alkyl, X is halogen, especially bromine and iodine.

This normally entails conversion of the phenylacetamides I where R^4 and R^5 are each hydrogen, in an inert solvent or diluent, with a base into the anions and reaction of the latter with an alkyl halide, preferably an alkyl iodide.

Particularly suitable solvents or diluents are ethers such as tetrahydrofuran and dioxane.

Particularly suitable bases are alkali metal hydroxides such as sodium and potassium hydroxide and

alkali metal hydrides such as sodium and potassium hydride.

The reaction is generally carried out at from 0 to 100°C, in particular at the boiling point of the solvent.

The statements made for method (a) apply to the ratio of amounts and the pressure.

The ortho-substituted phenylacetamides I are suitable as fungicides and for controlling pests such as insects, nematodes and acarids.

The ortho-substituted phenylacetamides I have excellent activity against a wide spectrum of fungi which are pathogenic for plants, especially from the classes of Ascomycetes and Basidiomycetes. Some of them have systemic activity and can be employed as leaf and soil fungicides.

They are particularly important for controlling a large number of fungi on various crops such as wheat, rye, barley, oats, rice, corn, grass, cotton, soybean, coffee, sugarcane, grapevines, fruit and ornamental plants and vegetables such as cucumbers, beans and pumpkins, and on the seeds of these plants.

They are particularly suitable for controlling the following plant diseases:

Erysiphe graminis (powdery mildew) in cereals,
Erysiphe cichoracearum and Sphaerotheca fuliginea on pumpkins,
Podosphaera leucotricha on apples,
Uncinula necator on grapevines,
Puccinia species on cereals,
Rhizoctonia species on cotton and lawns,
Ustilago species on cereals and sugarcane,
Venturia inaequalis (scab) on apples,
Helminthosporium species on cereals,
Septoria nodorum on wheat,
Botrytis cinerea (gray mold) on strawberries, grapevines,
Cercospora arachidicola on peanuts,
Pseudocercosporella herpotrichoides on wheat, barley,

Pyricularia oryzae on rice,
Phytophthora infestans on potatoes and tomatoes,
Fusarium and Verticillium species on various plants,
Plasmopara viticola on grapevines,
Alternaria species on vegetables and fruit.

The compounds are applied by treating the fungi or the plants, seeds, materials or soil to be protected from fungal attack with a fungicidal amount of the active ingredients. The application is carried out before or after infection of the materials, plants or seeds by the fungi.

The ortho-substituted phenylacetamides I are also suitable for controlling pests from the classes of insects, arachnids and nematodes. They can be employed as pesticides in crop protection and in the hygiene, store protection and veterinary sectors.

The insect pests include:

- from the order of Lepidoptera, for example Agrotis ypsilon, Agrotis segetum, Alabama argillacea, Anticarsia gemmatalis, Argyresthia conjugella, Autographa gamma, Bupalus piniarius, Cacoecia murinana, Capua reticulana, Cheimatobia brumata, Choristoneura fumiferana, Choristoneura occidentalis, Cirphis unipuncta, Cydia pomonella, Dendrolimus pini, Diaphania nitidalis, Diatraea grandiosella, Earias insulana, Elasmopalpus lignosellus, Eupoecilia ambiguella, Evetria bouliana, Feltia subterranea, Galleria mellonella, Grapholita funebrana, Grapholita molesta, Heliothis armigera, Heliothis virescens, Heliothis zea, Hellula undalis, Hibernia defoliaria, Hyphantria cunea, Hyponomeuta malinellus, Keifferia lycopersicella, Lambdina fiscellaria, Laphygma exigua, Leucoptera coffeella, Leucoptera scitella, Lithocolletis blancardella, Lobesia botrana, Loxostege sticticalis, Lymantria dispar, Lymantria monacha, Lyonetia clerkella, Malacosoma neustria, Mamestra brassicae, Orgyia pseudotsugata, Ostrinia nubilalis, Panolis

flamea, Pectinophora gossypiella, Peridroma saucia, Phalera bucephala, Phthorimaea operculella, Phyllocnistis citrella, Pieris brassicae, Plathypena scarbra, Plutella xylostella, Pseudoplusia includens, Phyacionia frustrana, Scrobipalpula absoluta, Sitotroga cerelella, Sparganothis pilleriana, Spodoptera frugiperda, Spodoptera littoralis, Spodoptera litura, Thaumatopoea pityocampa, Tortrix viridana, Trichoplusia ni and Zeiraphera canadensis;

- from the order of Coleoptera, for example Agrilus sinuatus, Agriotes lineatus, Agriotes obscurus, Amphimallus solstitialis, Anisandrus dispar, Anthonomus grandis, Anthonomus pomorum, Atomaria linearis, Blastophagus piniperda, Blitophaga undata, Bruchus rufimanus, Bruchus pisorum, Bruchus lentis, Byctiscus betulae, Cassida nebulosa, Cerotoma trifurcata, Ceuthorrhynchus assimilis, Ceuthorrynchus napi, Chaetocnema tibialis, Conoderus vespertinus, Crioceris asparagi, Diabrotica longicornis, Diabrotica 12-punctata, Diabrotica virgifera, Epilachna varivestis, Epitrix hirtipennis, Eutinobothrus brasiliensis, Hylobius abietis, Hypera brunneipennis, Hypera postica, Ips typographus, Lema bilineata, Lema melanopus, Leptinotarsa decemlineata, Limonius californicus, Lissorhoptrus oryzophilus, Melanotus communis, Meligethes aeneus, Melolontha hippocastani, Melolontha melolontha, Onlema oryzae, Otiorrhynchus sulcatus, Otiorrhynchus ovatus, Phaedon cochleariae, Phyllotreta chrysocephala, Phyllophaga sp., Phyllopertha horticola, Phyllotreta nemorum, Phyllotreta striolata, Popillia japonica, Sitona lineatus and Sitophilus granaria;

- from the order of Diptera, for example Aedes aegypti, Aedes vexans, Anastrepha ludens, Anopheles maculipennis, Ceratitis capitata, Chrysomya bezziana, Chrysomya hominivorax, Chrysomya macellaria, Contarinia sorghicola, Cordylobia anthropophaga, Culex pipiens, Dacus cucurbitae, Dacus oleae, Dasineura brassicae,

Fannia canicularis, Gasterophilus intestinalis, Glossia morsitans, Haematobia irritans, Haplodiplosis equestris, Hylemyia platura, Hypoderma lineata, Liriomyza sativae, Liriomyza trifolii, Lucilia caprina, Lucilia cuprina, Lucilia sericata, Lycoria pectoralis, Mayetiola destructor, Musca domestica, Muscina stabulans, Oestrus ovis, Oscinella frit, Pegomya hysocyami, Phorbia antiqua, Phorbia brassicae, Phorbia coarctata, Rhagoletis cerasi, Rhagoletis pomonella, Tabanus bovinus, Tipula oleracea and Tipula paludosa;

- from the order of Thysanoptera, for example Frankliniella fusca, Frankliniella occidentalis, Frankliniella tritici, Scirtothrips citri, Thrips oryzae, Thrips palmi and Thrips tabaci;
- from the order of Hymenoptera, for example Athalia rosae, Atta cephalotes, Atta sexdens, Atta texana, Hoplocampa minuta, Hoplocampa testudinea, Monomorium pharaonis, Solenopsis geminata and Solenopsis invicta;
- from the order of Heteroptera, for example Acrosternum hilare, Blissus leucopterus, Cyrtopeltis notatus, Dysdercus cingulatus, Dysdercus intermedius, Eurygaster integriceps, Euchistus impictiventris, Leptoglossus phyllopus, Lygus lineolaris, Lygus pratensis, Nezara viridula, Piesma quadrata, Solubea insularis and Thyanta perditor;
- from the order of Homoptera, for example Acyrthosiphon onobrychis, Adelges laricis, Aphidula nasturtii, Aphis fabae, Aphis pomi, Aphis sambuci, Brachycaudus cardui, Brevicoryne brassicae, Cerosipha gossypii, Dreyfusia nordmannianae, Dreyfusia piceae, Dyasphis radicola, Dysaulacorthum pseudosolani, Empoasca fabae, Macrosiphum avenae, Macrosiphum euphorbiae, Macrosiphon rosae, Megoura viciae, Metopolophium dirhodum, Myzodes persicae, Myzus cerasi, Nilaparvata lugens, Pemphigus bursarius, Perkinsiella saccharicida, Phorodon humuli, Psylla mali, Psylla piri, Rhopalomyzus ascalonicus, Rhopalosiphum maidis, Sappaphis mala, Sappaphis mali,

Schizaphis graminum, Schizoneura lanuginosa, Trialeurodes vaporariorum and Viteus vitifolii;

- from the order of Isoptera, for example Calotermes flavicollis, Leucotermes flavipes, Reticulitermes lucifugus and Termes natalensis;
- from the order of Orthoptera, for example Acheta domestica, Blatta orientalis, Blattella germanica, Forficula auricularia, Gryllotalpa gryllotalpa, Locusta migratoria, Melanoplus birittatus, Melanoplus femur-rubrum, Melanoplus mexicanus, Melanoplus sanguinipes, Melanoplus spretus, Nomadacris septemfasciata, Periplaneta americana, Schistocerca americana, Schistocerca peregrina, Stauronotus maroccanus and Tachycines asynamorus;
- from the class of Arachnoidea, for example arachnids (Acarina) such as Amblyomma americanum, Amblyomma variegatum, Argas persicus, Boophilus annulatus, Boophilus decoloratus, Boophilus microplus, Brevipalpus phoenicis, Bryobia praetiosa, Dermacentor silvarum, Eotetranychus carpini, Eriophyes sheldoni, Hyalomma truncatum, Ixodes ricinus, Ixodes rubicundus, Orni-thodorus moubata, Otobins megnini, Paratetranychus pilosus, Permanyssus gallinae, Phyllocaptrata oleivora, Polyphagotarsonemus latus, Psoroptes ovis, Rhipi-cephalus appendiculatus, Rhipicephalus evertsi, Sarcoptes scabiei, Tetranychus cinnabarinus, Tetranychus kanzawai, Tetranychus pacificus, Tetranychus telarius and Tetranychus urticae;
- from the class of nematodes, for example root knot nematodes, eg. Meloidogyne hapla, Meloidogyne incognita, Meloidogyne javanica, cyst-forming nema-todes, eg. Globodera rostochiensis, Heterodera avenae, Heterodera glycinae, Heterodera schatii, Heterodera triflolii, stem and leaf eelworms, eg. Belonolaimus longicaudatus, Ditylenchus destructor, Ditylenchus dipsaci, Heliocotylenchus multicinctus, Longidorus elongatus, Radopholus similis, Rotylenchus robustus,

Trichodorus primitivus, Tylenchorhynchus claytoni, Tylenchorhynchus dubius, Pratylenchus neglectus, Pratylenchus penetrans, Pratylenchus curvitatus and Pratylenchus goodeyi.

The active ingredients can be converted into conventional formulations such as solutions, emulsions, suspensions, dusts, powders, pastes and granules. The application forms depend on the purposes for which they are used; they ought in every case to ensure fine and uniform distribution of the ortho-substituted phenylacetamide. The formulations are prepared in a conventional manner, eg. by extending the active ingredient with solvents and/or carriers, if required using emulsifiers and dispersants, it being possible to use other organic solvents as auxiliary solvents when water is used as diluent.

Suitable for preparing directly sprayable solutions, emulsions, pastes or oil dispersions are mineral oil fractions of medium to high boiling point such as kerosine or diesel oil, also coaltar oils and oils of vegetable or animal origin, aliphatic, cyclic and aromatic hydrocarbons, eg. benzene, toluene, xylene, paraffin, tetrahydronaphthalene, alkylated naphthalenes or derivatives thereof, methanol, ethanol, propanol, butanol, chloroform, tetrachloromethane, cyclohexanol, cyclohexanone, chlorobenzene, isophorone, highly polar solvents, eg. dimethylformamide, dimethyl sulfoxide, N-methylpyrrolidone and water.

Aqueous application forms can be prepared from emulsion concentrates, pastes or wettable powders (oil dispersions) by adding water. To prepare emulsions, pastes or oil dispersions, the substances can be homogenized, as such or dissolved in an oil or solvent, using wetting agents, adhesion promoters, dispersants or emulsifiers in water. However, concentrates suitable for dilution with water can also be prepared from active substance, wetting agent, adhesion promoter, dispersant

or emulsifier and, possibly, solvent or oil.

Suitable surfactants are alkali metal, alkaline earth metal and ammonium salts of ligninsulfonic acid, naphthalenesulfonic acid, phenolsulfonic acid, dibutylnaphthalenesulfonic acid, alkylarylsulfonates, alkyl sulfates, alkylsulfonates, fatty alcohol sulfates and fatty acids and their alkali metal and alkaline earth metal salts, salts of sulfated fatty alcohol glycol ethers, products of the condensation of sulfonated naphthalene and naphthalene derivatives with formaldehyde, products of the condensation of naphthalene or naphthalenesulfonic acid with phenol and formaldehyde, polyoxyethylene octylphenol ether, ethoxylated isooctylphenol, octylphenol, nonylphenol, alkylphenol polyglycol ether, tributylphenyl polyglycol ether, alkylaryl polyether alcohols, isotridecyl alcohol, fatty alcohol/ethylene oxide condensates, ethoxylated castor oil, polyoxyethylene alkyl ether, ethoxylated polyoxypropylene, lauryl alcohol polyglycol ether acetal, sorbitol ester, lignin sulfite waste liquors and methylcellulose.

Powders and dusting and broadcasting agents can be prepared by mixing or grinding together the active substances with a solid carrier.

The concentrations of active ingredient in the formulations ready for use can vary within wide limits.

The agents very generally contain from 0.0001 to 95, preferably from 0.01 to 90, % by weight of active ingredient.

Formulations containing more than 95% by weight of active ingredient can be applied very successfully by the ultra low volume (ULV) method, in which case even the active ingredient without additives can be used.

Examples of such formulations are:

I. a solution of 90 parts by weight of compound No. 87 and 10 parts by weight of N-methyl-α-pyrrolidone, which is suitable for application in the form of very small drops;

II. a mixture of 20 parts by weight of compound No. 93, 80 parts by weight of xylene, 10 parts by weight of the adduct of 8 to 10 moles of ethylene oxide and 1 mole of oleic acid N-monoethanolamide, 5 parts by weight of calcium dodecylbenzenesulfonate, 5 parts by weight of the adduct of 40 moles of ethylene oxide and 1 mole of castor oil; a fine dispersion of the solution in water is used;

III. An aqueous dispersion of 20 parts by weight of compound No. 133, 40 parts by weight of cyclohexanone, 30 parts by weight of isobutanol, 20 parts by weight of the adduct of 40 moles of ethylene oxide and 1 mole of castor oil;

IV. an aqueous dispersion of 20 parts by weight of compound No. 242, 25 parts by weight of cyclohexanol, 65 parts by weight of a mineral oil fraction of boiling point 210 to 280°C and 10 parts by weight of the adduct of 40 moles of ethylene oxide and 1 mole of castor oil;

V. a mixture, ground in a hammer mill, of 80 parts by weight of compound No. 252, 3 parts by weight of sodium diisobutylnaphthalene-α-sulfonate, 10 parts by weight of the sodium salt of a ligninsulfonic acid from a sulfite waste liquor and 7 parts by weight of powdered silica gel; a fine dispersion of the mixture in water can be sprayed;

VI. an intimate mixture of 3 parts by weight of compound No. 449 and 97 parts by weight of finely divided kaolin; this dusting agent contains 3% by weight of active ingredient;

VII. an intimate mixture of 30 parts by weight of compound No. 494, 92 parts by weight of powdered silica gel and 8 parts by weight of liquid paraffin which has been sprayed on to the surface of this silica gel; this formulation makes the active ingredient adhere well;

VIII. a stable aqueous dispersion of 40 parts by weight

of compound No. 585, 10 parts by weight of the sodium salt of a phenolsulfonic acid/urea/-formaldehyde condensate, 2 parts by weight of silica gel and 48 parts by weight of water, which can be further diluted;

IX. a stable oily dispersion of 20 parts by weight of compound No. 587, 2 parts by weight of calcium dodecylbenzenesulfonate, 8 parts by weight of fatty alcohol polyglycol ether, 20 parts by weight of the sodium salt of a phenolsulfonic acid/urea/formaldehyde condensate and 68 parts by weight of a liquid paraffin.

Granules, eg. coated, impregnated or homogeneous granules, can be prepared by binding the active ingredients to solid carriers. Examples of solid carriers are mineral earths such as silica gel, silicic acids, silicates, talc, kaolin, attapulgite, limestone, lime, chalk, bole, loess, clay, dolomite, diatomaceous earth, calcium and magnesium sulfate, magnesium oxide, ground plastics, fertilizers such as, for example, ammonium sulfate, ammonium phosphate, ammonium nitrate, ureas and vegetable products such as cereal flour, bark meal, wood meal and nutshell meal, cellulose powders and other solid carriers.

The application rates in fungicidal agents depend on the nature of the desired effect and range from 0.02 to 3 kg of active ingredient per ha. The novel compounds can also be used to protect materials (wood), eg. against Paecilomyces variotii.

For treating seeds, in general from 0.001 to 50 g, preferably 0.01 to 10 g, of active ingredient are required per kilogram of seeds.

The application rate for controlling insects in the open is from 0.02 to 10, preferably 0.1 to 2.0 kg/ha active ingredient.

In these application forms, the novel agents can also be mixed with other active ingredients, eg. with

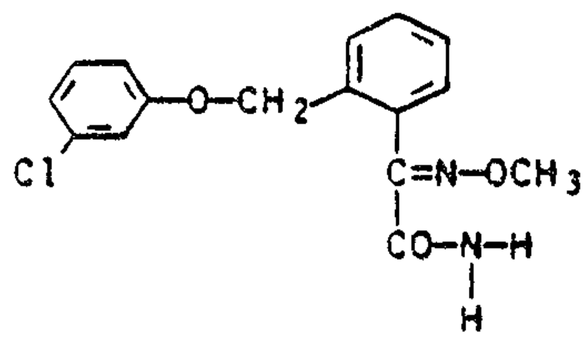
herbicides, insecticides, growth regulators, fungicides or fertilizers. These agents can be added to the novel agents in the ratio of from 1:10 to 10:1 by weight, where appropriate just before application (tank mix). Mixing with fungicides or insecticides in many cases results in an extension of the spectrum of action.

The agents and the formulations prepared therefrom ready for use, such as solutions, emulsions, suspensions, powders, dusts, pastes or granules, are applied in a conventional manner, for example by spraying, atomizing, dusting, broadcasting, treating seeds or watering.

PREPARATION EXAMPLES

EXAMPLE 1

2-Methoxyimino-2-[2-(m-chlorophenoxymethyl)phenyl]acetamide



(compound No. 89)

7.0 g (23 mmol) of 2-methoxyimino-2-[2-(m-chlorophenoxymethyl)phenyl]acetonitrile were added to a mixture of 50 ml of glycol and 10 ml of a 25% by weight aqueous solution of potassium hydroxide, and the reaction mixture was then heated at 80°C for 2 hours. The solid was then separated off, washed with methyl tert-butyl ether and dried. Yield: 58%;

^{1}H-NMR (in $CDCl_3$, TMS as standard): d = 4.00(s,3H); 5.18(s,2H); 6.10(sbr,1H); 6.75(sbr,1H); 6.78(d,1H); 6.92(m,2H); 7.10-7.50(m,5H).

EXAMPLE 2

2-Methoxyimino-2-[2-(o,p-dimethylphenoxymethyl)phenyl]-acetic acid N-methylamide

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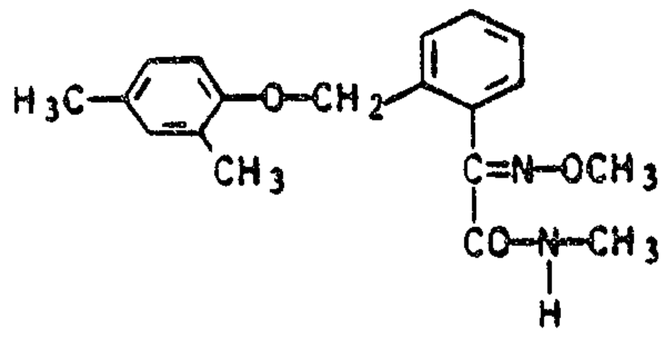


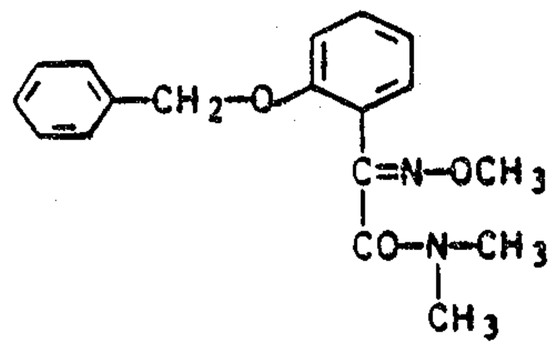
(compound No. 494)

0.465 g (15 mmol) of monomethylamine dried over potassium hydroxide was passed at about 25°C into a solution of 5.0 g (15 mmol) of 2-methoxyimino-2-[2-(o,p-dimethylphenoxymethyl)phenyl]acetyl chloride in 30 ml of dichloromethane. This mixture was stirred for one hour and then diluted with 70 ml of dichloromethane. By-products were extracted with 100 ml of water and then the organic phase was worked up in a conventional manner to give the product. Yield: 88% (oil);

^{1}H-NMR (in $CDCl_3$, TMS as standard): d = 2.20(s,3H); 2.25(s,3H); 2.90(d,3H); 3.94(s,3H); 4.93(s,2H); 6.70-7.60(m,7H).

EXAMPLE 3

2-Methoxyimino-2-(2-benzyloxyphenyl)acetic acid N,N-dimethylamide



(compound No. 206)

A solution of 4.9 g (16.4 mmol) of methyl 2-methoxyimino-2-(2-benzyloxyphenyl)acetate and 0.9 g (20 mmol) of dimethylamine in 20 ml of methanol was stirred at about 25°C for 60 hours. After removal of the solvent, the crude product was purified by chromatography on silica gel (methyl tert-butyl ether/n-hexane mixture as eluent). Yield: 66%;

^{1}H-NMR (in $CDCl_3$, TMS as standard): d = 3.38(s,3H); 3.49(s,3H); 4.01(s,3H); 5.03(s,2H); 6.90-7.10(m,2H); 7.30-7.40(m,6H); 8.75(d,1H).

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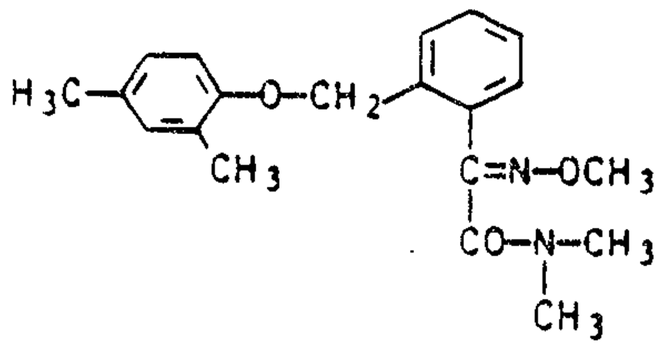
EXAMPLE 4

2-Methoxyimino-2-[2-(o,p-dimethylphenoxymethyl)phenyl]-acetic acid N,N-dimethylamide

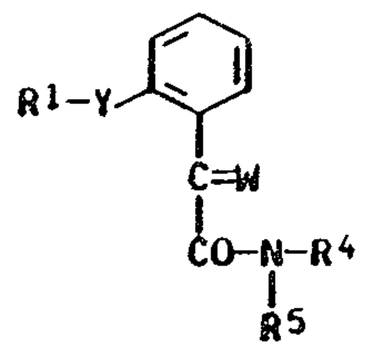


(compound No. 252)

0.675 g (15 mmol) of dried dimethylamine was reacted with 5.0 g (15 mmol) of 2-methoxyimino-2-[2-(o,p-dimethylphenoxymethyl)phenyl]acetyl chloride in a similar manner to Example 2. Yield: 78% (oil);
^{1}H-NMR (in $CDCl_3$, TMS as standard): d = 2.20(s,3H); 2.23(s,3H); 3.02(s,3H); 3.18(s,3H); 3.95(s,3H); 5.02(s,2H); 6.60-7.60(m,7H).

Further final products I which were or can be prepared in the same way are listed in Table 1.

Table



I (R^2, R^3 = H)

No.	Y	R^1	R^4	R^5	W	Physical data
1	CH_2	H	H	H	N-OCH_3	
2	CHCl	H	H	H	N-OCH_3	
3	CHBr	H	H	H	N-OCH_3	
4	CHI	H	H	H	N-OCH_3	
5	CH_2-CH_2	C_6H_5	H	H	N-OCH_3	
6	CH_2-CH_2	2-F-C_6H_4	H	H	N-OCH_3	
7	CH_2-CH_2	3-F-C_6H_4	H	H	N-OCH_3	
8	CH_2-CH_2	4-F-C_6H_4	H	H	N-OCH_3	
9	CH_2-CH_2	2-Cl-C_6H_4	H	H	N-OCH_3	
10	CH_2-CH_2	3-Cl-C_6H_4	H	H	N-OCH_3	
11	CH_2-CH_2	4-Cl-C_6H_4	H	H	N-OCH_3	
12	CH_2-CH_2	2-Br-C_6H_4	H	H	N-OCH_3	
13	CH_2-CH_2	4-Br-C_6H_4	H	H	N-OCH_3	
14	CH_2-CH_2	2-I-C_6H_4	H	H	N-OCH_3	
15	CH_2-CH_2	2-CH_3-C_6H_4	H	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
16	CH_2-CH_2	3-CH_3-C_6H_4	H	H	N-OCH_3	
17	CH_2-CH_2	4-CH_3-C_6H_4	H	H	N-OCH_3	
18	CH_2-CH_2	2-OCH_3-C_6H_4	H	H	N-OCH_3	
19	CH_2-CH_2	3-OCH_3-C_6H_4	H	H	N-OCH_3	
20	CH_2-CH_2	4-OCH_3-C_6H_4	H	H	N-OCH_3	
21	CH_2-CH_2	2-CF_3-C_6H_4	H	H	N-OCH_3	
22	CH_2-CH_2	3-CF_3-C_6H_4	H	H	N-OCH_3	
23	CH_2-CH_2	4-CF_3-C_6H_4	H	H	N-OCH_3	
24	CH_2-CH_2	2,4-Cl_2-C_6H_3	H	H	N-OCH_3	
25	CH_2-CH_2	2,4-$(CH_3)_2$-C_6H_3	H	H	N-OCH_3	
26	CH_2-CH_2	2,4,6-$(CH_3)_3$-C_6H_2	H	H	N-OCH_3	
27	CH_2-CH_2	Pyridin-3-yl	H	H	N-OCH_3	
28	CH_2-CH_2	Furan-2-yl	H	H	N-OCH_3	
29	CH_2-CH_2	6-CH_3-Pyridin-2-yl	H	H	N-OCH_3	
30	CH_2-CH_2	Benzothiazol-2-yl	H	H	N-OCH_3	
31	CH=CH	C_6H_5	H	H	N-OCH_3	
32	CH=CH	2-F-C_6H_4	H	H	N-OCH_3	
33	CH=CH	3-F-C_6H_4	H	H	N-OCH_3	
34	CH=CH	4-F-C_6H_4	H	H	N-OCH_3	
35	CH=CH	2-Cl-C_6H_4	H	H	N-OCH_3	
36	CH=CH	3-Cl-C_6H_4	H	H	N-OCH_3	
37	CH=CH	4-Cl-C_6H_4	H	H	N-OCH_3	
38	CH=CH	2-Br-C_6H_4	H	H	N-OCH_3	
39	CH=CH	4-Br-C_6H_4	H	H	N-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
40	CH=CH	2-I-C_6H_4	H	H	N-OCH_3	
41	CH=CH	2-CH_3-C_6H_4	H	H	N-OCH_3	
42	CH=CH	3-CH_3-C_6H_4	H	H	N-OCH_3	
43	CH=CH	4-CH_3-C_6H_4	H	H	N-OCH_3	
44	CH=CH	2-OCH_3-C_6H_4	H	H	N-OCH_3	
45	CH=CH	3-OCH_3-C_6H_4	H	H	N-OCH_3	
46	CH=CH	4-OCH_3-C_6H_4	H	H	N-OCH_3	
47	CH=CH	2-CF_3-C_6H_4	H	H	N-OCH_3	
48	CH=CH	3-CF_3-C_6H_4	H	H	N-OCH_3	
49	CH=CH	4-CF_3-C_6H_4	H	H	N-OCH_3	
50	CH=CH	2,4-Cl_2-C_6H_3	H	H	N-OCH_3	
51	CH=CH	2,4-$(CH_3)_2$-C_6H_3	H	H	N-OCH_3	
52	CH=CH	2,4,6-$(CH_3)_3$-C_6H_2	H	H	N-OCH_3	
53	CH=CH	Pyridin-3-yl	H	H	N-OCH_3	
54	CH=CH	Furan-2-yl	H	H	N-OCH_3	
55	CH=CH	6-CH_3-Pyridin-2-yl	H	H	N-OCH_3	
56	CH=CH	Benzothiazol-2-yl	H	H	N-OCH_3	
57	CH_2O	C_6H_5	H	H	N-OCH_3	
58	CH_2O	2-F-C_6H_4	H	H	N-OCH_3	
59	CH_2O	3-F-C_6H_4	H	H	N-OCH_3	
60	CH_2O	4-F-C_6H_4	H	H	N-OCH_3	
61	CH_2O	2-Cl-C_6H_4	H	H	N-OCH_3	
62	CH_2O	3-Cl-C_6H_4	H	H	N-OCH_3	
63	CH_2O	4-Cl-C_6H_4	H	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
64	CH_2O	2-Br-C_6H_4	H	H	N-OCH_3	
65	CH_2O	4-Br-C_6H_4	H	H	N-OCH_3	
66	CH_2O	2-I-C_6H_4	H	H	N-OCH_3	
67	CH_2O	2-CH_3-C_6H_4	H	H	N-OCH_3	
68	CH_2O	3-CH_3-C_6H_4	H	H	N-OCH_3	
69	CH_2O	4-CH_3-C_6H_4	H	H	N-OCH_3	
70	CH_2O	2-OCH_3-C_6H_4	H	H	N-OCH_3	
71	CH_2O	3-OCH_3-C_6H_4	H	H	N-OCH_3	
72	CH_2O	4-OCH_3-C_6H_4	H	H	N-OCH_3	
73	CH_2O	2-CF_3-C_6H_4	H	H	N-OCH_3	
74	CH_2O	3-CF_3-C_6H_4	H	H	N-OCH_3	
75	CH_2O	4-CF_3-C_6H_4	H	H	N-OCH_3	
76	CH_2O	2,4-Cl_2-C_6H_3	H	H	N-OCH_3	
77	CH_2O	2,4-$(CH_3)_2$-C_6H_3	H	H	N-OCH_3	
78	CH_2O	2,4,6-$(CH_3)_3$-C_6H_2	H	H	N-OCH_3	
79	CH_2O	Pyridin-3-yl	H	H	N-OCH_3	
80	CH_2O	Furan-2-yl	H	H	N-OCH_3	
81	CH_2O	6-CH_3-Pyridin-2-yl	H	H	N-OCH_3	
82	CH_2O	Benzothiazol-2-yl	H	H	N-OCH_3	
83	O-CH_2	H	H	H	N-OCH_3	
84	O-CH_2	C_6H_5	H	H	N-OCH_3	
85	O-CH_2	2-F-C_6H_4	H	H	N-OCH_3	
86	O-CH_2	3-F-C_6H_4	H	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
87	$O-CH_2$	$4-F-C_6H_4$	H	H	$N-OCH_3$	M.p.127-9°C;IR(KBr):3371,3184,1652,1507,1249, 1050,824 cm^{-1}
88	$O-CH_2$	$2-Cl-C_6H_4$	H	H	$N-OCH_3$	
89	$O-CH_2$	$3-Cl-C_6H_4$	H	H	$N-OCH_3$	M.p.104-5°C;IR(KBr):3416,1663,1559,1482,1249, 1045,904,775 cm^{-1}
90	$O-CH_2$	$4-Cl-C_6H_4$	H	H	$N-OCH_3$	M.p.105-10°C
91	$O-CH_2$	$2-Br-C_6H_4$	H	H	$N-OCH_3$	M.p.88-90°C;1H-NMR($CDCl_3$): δ=4.13(s,3H),5.35 (s2H),6.85(m,2H),7.25(m,1H),7.58(m,3H),7.78 (d,1H),7.86(d,1H)
92	$O-CH_2$	$4-Br-C_6H_4$	H	H	$N-OCH_3$	
93	$O-CH_2$	$2-I-C_6H_4$	H	H	$N-OCH_3$	M.p.148-50°C;IR(KBr):3373,1652,1474,1249,1055, 749
94	$O-CH_2$	$2-CH_3-C_6H_4$	H	H	$N-OCH_3$	
95	$O-CH_2$	$3-CH_3-C_6H_4$	H	H	$N-OCH_3$	
96	$O-CH_2$	$4-CH_3-C_6H_4$	H	H	$N-OCH_3$	M.p.100-2°C;IR(KBr):1674,1510,1239,1042,814
97	$O-CH_2$	$2-OCH_3-C_6H_4$	H	H	$N-OCH_3$	
98	$O-CH_2$	$3-OCH_3-C_6H_4$	H	H	$N-OCH_3$	
99	$O-CH_2$	$4-OCH_3-C_6H_4$	H	H	$N-OCH_3$	
100	$O-CH_2$	$2-CF_3-C_6H_4$	H	H	$N-OCH_3$	
101	$O-CH_2$	$3-CF_3-C_6H_4$	H	H	$N-OCH_3$	
102	$O-CH_2$	$4-CF_3-C_6H_4$	H	H	$N-OCH_3$	
103	$O-CH_2$	$2,4-Cl_2-C_6H_3$	H	H	$N-OCH_3$	
104	$O-CH_2$	$2,4-(CH_3)_2-C_6H_3$	H	H	$N-OCH_3$	
105	$O-CH_2$	$2,4,6-(CH_3)_3-C_6H_2$	H	H	$N-OCH_3$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
106	$O-CH_2$	$2-CH_3-4-Cl-C_6H_3$	H	H	$N-OCH_3$	
107	$O-CH_2$	$3-t-C_4H_9-C_6H_4$	H	H	$N-OCH_3$	
108	$O-CH_2$	$4-C_6H_5-C_6H_4$	H	H	$N-OCH_3$	
109	$O-CH_2$	$2-Cl,\ 4-CH_3-C_6H_3$	H	H	$N-OCH_3$	
110	$O-CH_2$	Pyridin-2-yl	H	H	$N-OCH_3$	
111	$O-CH_2$	$6-CH_3$-Pyridin-2-yl	H	H	$N-OCH_3$	
112	$O-CH_2$	2-Cl-Pyridin-2-yl	H	H	$N-OCH_3$	
113	$O-CH_2$	Benzothiazol-2-yl	H	H	$N-OCH_3$	
114	O	H	H	H	$N-OCH_3$	
115	O	C_6H_5	H	H	$N-OCH_3$	
116	O	$3-C_6H_5-C_6H_4$	H	H	$N-OCH_3$	
117	O	$3-OC_3H_4-C_6H_4$	H	H	$N-OCH_3$	
118	O	Pyridin-2-yl	H	H	$N-OCH_3$	
119	O	$6-C_6H_5$-Pyridin-2-yl	H	H	$N-OCH_3$	
120	O	$CH_2-CH=CH_2$	H	H	$N-OCH_3$	
121	O	$3-C_6H_5O-C_6H_4$	H	H	$N-OCH_3$	
122	O	$3-C_6H_5S-C_6H_4$	H	H	$N-OCH_3$	
123	O	$3-C_6H_5CH_2O-C_6H_4$	H	H	$N-OCH_3$	
124	C=C	CH_3	H	H	$N-OCH_3$	
125	C=C	C_6H_5	H	H	$N-OCH_3$	
126	S	C_6H_5	H	H	$N-OCH_3$	
127	S	$2-Cl-C_6H_4$	H	H	$N-OCH_3$	
128	$S-CH_2$	C_6H_5	H	H	$N-OCH_3$	
129	$S-CH_2$	$4-Cl-C_6H_4$	H	H	$N-OCH_3$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
130	$S-CH_2$	$4-CH_3-C_6H_4$	H	H	$N-OCH_3$	
131	$S-CH_2$	$6-CH_3$-Pyridin-2-yl	H	H	$N-OCH_3$	
132	$S-CH_2$	6-Cl-Pyridin-2-yl	H	H	$N-OCH_3$	
133	$S-CH_2$	Benzothiazol-2-yl	H	H	$N-OCH_3$	M.p.171-8°C; IR(KBr): 3388, 3155, 1672, 1650, 1429, 1037, 989, 748 cm^{-1}
134	$S-CH_2$	5-Cl-Benzothiazol-2-yl	H	H	$N-OCH_3$	
135	$S-CH_2$	6-Cl-Benzothiazol-2-yl	H	H	$N-OCH_3$	
136	$-CO-O-$	CH_3	H	H	$N-OCH_3$	
137	$-CO-O-$	C_6H_5	H	H	$N-OCH_3$	
138	$-O-CO-$	CH_3	H	H	$N-OCH_3$	
139	$-O-CO-$	C_6H_5	H	H	$N-OCH_3$	
140	$-O-CO-$	H	H	H	$N-OCH_3$	
141	$-CO-CH_2-$	H	H	H	$N-OCH_3$	
142	$-CO-CH_2-$	CH_3	H	H	$N-OCH_3$	
143	$-CO-CH_2-$	C_6H_5	H	H	$N-OCH_3$	
144	$-CO-CH_2-$	$2-CH_3-C_6H_4$	H	H	$N-OCH_3$	
145	$-CO-CH_2-$	$2,4-(CH_3)_2C_6H_3$	H	H	$N-OCH_3$	
146	$-CO-CH_2-$	$2-Cl-C_6H_4$	H	H	$N-OCH_3$	
147	$-CH_2-CO-$	H	H	H	$N-OCH_3$	
148	$-CH_2-CO-$	C_6H_5	H	H	$N-OCH_3$	
149	$-N=N-$	C_6H_5	H	H	$N-OCH_3$	
150	CH_2	H	CH_3	CH_3	$N-OCH_3$	
150	CH_2	H	CH_3	CH_3	$N-OCH_3$	
151	CHCl	H	CH_3	CH_3	$N-OCH_3$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
152	CHBr	H	CH_3	CH_3	N-OCH_3	
153	CHI	H	CH_3	CH_3	N-OCH_3	
154	CH_2-CH_2	C_6H_5	CH_3	CH_3	N-OCH_3	
155	CH_2-CH_2	2-F-C_6H_4	CH_3	CH_3	N-OCH_3	
156	CH_2-CH_2	3-F-C_6H_4	CH_3	CH_3	N-OCH_3	
157	CH_2-CH_2	4-F-C_6H_4	CH_3	CH_3	N-OCH_3	
158	CH_2-CH_2	2-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
159	CH_2-CH_2	3-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
160	CH_2-CH_2	4-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
161	CH_2-CH_2	2-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
162	CH_2-CH_2	4-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
163	CH_2-CH_2	2-I-C_6H_4	CH_3	CH_3	N-OCH_3	
164	CH_2-CH_2	2-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
165	CH_2-CH_2	3-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
166	CH_2-CH_2	4-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
167	CH_2-CH_2	2-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
168	CH_2-CH_2	3-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
169	CH_2-CH_2	4-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
170	CH_2-CH_2	2-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
171	CH_2-CH_2	3-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
172	CH_2-CH_2	4-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
173	CH_2-CH_2	2,4-Cl_2-C_6H_3	CH_3	CH_3	N-OCH_3	
174	CH_2-CH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	CH_3	N-OCH_3	
175	CH_2-CH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	CH_3	N-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
176	CH_2-CH_2	Pyridin-3-yl	CH_3	CH_3	N-OCH_3	
177	CH_2-CH_2	Furan-2-yl	CH_3	CH_3	N-OCH_3	
178	CH_2-CH_2	6-CH_3-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
179	CH_2-CH_2	Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
180	CH=CH	C_6H_5	CH_3	CH_3	N-OCH_3	
181	CH=CH	2-F-C_6H_4	CH_3	CH_3	N-OCH_3	
182	CH=CH	3-F-C_6H_4	CH_3	CH_3	N-OCH_3	
183	CH=CH	4-F-C_6H_4	CH_3	CH_3	N-OCH_3	
184	CH=CH	2-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
185	CH=CH	3-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
186	CH=CH	4-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
187	CH=CH	2-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
188	CH=CH	4-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
189	CH=CH	2-I-C_6H_4	CH_3	CH_3	N-OCH_3	
190	CH=CH	2-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
191	CH=CH	3-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
192	CH=CH	4-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
193	CH=CH	2-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
194	CH=CH	3-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
195	CH=CH	4-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
196	CH=CH	2-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
197	CH=CH	3-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
198	CH=CH	4-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
199	CH=CH	2,4-Cl_2-C_6H_3	CH_3	CH_3	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
200	CH=CH	2,4-$(CH_3)_2$-C_6H_3	CH_3	CH_3	N-OCH_3	
201	CH=CH	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	CH_3	N-OCH_3	
202	CH=CH	Pyridin-3-yl	CH_3	CH_3	N-OCH_3	
203	CH=CH	Furan-2-yl	CH_3	CH_3	N-OCH_3	
204	CH=CH	6-CH_3-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
205	CH=CH	Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
206	CH_2O	C_6H_5	CH_3	CH_3	N-OCH_3	
207	CH_2O	2-F-C_6H_4	CH_3	CH_3	N-OCH_3	
208	CH_2O	3-F-C_6H_4	CH_3	CH_3	N-OCH_3	
209	CH_2O	4-F-C_6H_4	CH_3	CH_3	N-OCH_3	
210	CH_2O	2-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
211	CH_2O	3-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
212	CH_2O	4-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
213	CH_2O	2-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
214	CH_2O	4-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
215	CH_2O	2-I-C_6H_4	CH_3	CH_3	N-OCH_3	
216	CH_2O	2-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
217	CH_2O	3-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
218	CH_2O	4-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
219	CH_2O	2-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
220	CH_2O	3-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
221	CH_2O	4-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
222	CH_2O	2-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
223	CH_2O	3-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
224	CH_2O	4-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
225	CH_2O	2,4-Cl_2-C_6H_3	CH_3	CH_3	N-OCH_3	
226	CH_2O	2,4-$(CH_3)_2$-C_6H_3	CH_3	CH_3	N-OCH_3	
227	CH_2O	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	CH_3	N-OCH_3	
228	CH_2O	Pyridin-3-yl	CH_3	CH_3	N-OCH_3	
229	CH_2O	Furan-2-yl	CH_3	CH_3	N-OCH_3	
230	CH_2O	6-CH_3-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
231	CH_2O	Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
232	OCH_2	C_6H_5	CH_3	CH_3	N-OCH_3	
233	OCH_2	2-F-C_6H_4	CH_3	CH_3	N-OCH_3	
234	OCH_2	3-F-C_6H_4	CH_3	CH_3	N-OCH_3	
235	OCH_2	4-F-C_6H_4	CH_3	CH_3	N-OCH_3	
236	OCH_2	2-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
237	OCH_2	3-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
238	OCH_2	4-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
239	OCH_2	2-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
240	OCH_2	4-Br-C_6H_4	CH_3	CH_3	N-OCH_3	
241	OCH_2	2-I-C_6H_4	CH_3	CH_3	N-OCH_3	
242	OCH_2	2-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	M.p.75°C, 1H-NMR($CDCl_3$) 2.26(s, 3H);3.02, 3.17(2s, 6H);3.97(s, 3H);5.17(s, 2H);6.85 (m, 2H);7.15(m, 2H);7.40(m, 3H);7.60(d, 1H)
243	OCH_2	3-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
244	OCH_2	4-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
245	OCH_2	2-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
246	OCH_2	3-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
247	OCH_2	4-OCH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
248	OCH_2	2-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
249	OCH_2	3-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
250	OCH_2	4-CF_3-C_6H_4	CH_3	CH_3	N-OCH_3	
251	OCH_2	2,4-Cl_2-C_6H_3	CH_3	CH_3	N-OCH_3	
252	OCH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	CH_3	N-OCH_3	oil;1H-NMR($CDCl_3$): δ= 2.23(s, 3H);2.27(s, 3H); 3.03, 3.182s, 6H);3.93(s, 3H);5.02(s, 2H);6.75 (d, 1H);6.9(m, 2H), 7.35(m, 3H);7.57(d, 1H)
253	OCH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	CH_3	N-OCH_3	
254	OCH_2	2-CH_3, 4-Cl-C_6H_3	CH_3	CH_3	N-OCH_3	
255	OCH_2	3-t-C_4H_9-C_6H_4	CH_3	CH_3	N-OCH_3	
256	OCH_2	2-Cl, 4-CH_3-C_6H_3	CH_3	CH_3	N-OCH_3	
257	OCH_2	4-C_6H_5-C_6H_4	CH_3	CH_3	N-OCH_3	
258	OCH_2	Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
259	OCH_2	6-CH_3-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
260	OCH_2	6-Cl-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
261	OCH_2	Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
262	O	H	CH_3	CH_3	N-OCH_3	
263	O	C_6H_5	CH_3	CH_3	N-OCH_3	
264	O	3-C_6H_5-C_6H_4	CH_3	CH_3	N-OCH_3	
265	O	3-n-C_3H_7-O-C_6H_4	CH_3	CH_3	N-OCH_3	
266	O	Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
267	O	6-C_6H_5-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
268	O	CH_2-CH=CH_2	CH_3	CH_3	N-OCH_3	
269	O	3-C_6H_5O-C_6H_4	CH_3	CH_3	N-OCH_3	
270	O	3-C_6H_5S-C_6H_4	CH_3	CH_3	N-OCH_3	
271	O	3-$C_6H_5CH_2O$-C_6H_4	CH_3	CH_3	N-OCH_3	
272	C=C	CH_3	CH_3	CH_3	N-OCH_3	
273	C=C	C_6H_5	CH_3	CH_3	N-OCH_3	
274	S	C_6H_5	CH_3	CH_3	N-OCH_3	
275	S	2-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
276	S-CH_2	C_6H_5	CH_3	CH_3	N-OCH_3	
277	S-CH_2	4-Cl-C_6H_4	CH_3	CH_3	N-OCH_3	
278	S-CH_2	4-CH_3-C_6H_4	CH_3	CH_3	N-OCH_3	
279	S-CH_2	2-CH_3-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
280	S-CH_2	6-Cl-Pyridin-2-yl	CH_3	CH_3	N-OCH_3	
281	S-CH_2	Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
282	S-CH_2	5-Cl-Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
283	S-CH_2	6-Cl-Benzothiazol-2-yl	CH_3	CH_3	N-OCH_3	
284	CO-O-	CH_3	CH_3	CH_3	N-OCH_3	
285	CO-O-	C_6H_5	CH_3	CH_3	N-OCH_3	
286	O-CO-	CH_3	CH_3	CH_3	N-OCH_3	
287	O-CO-	C_6H_5	CH_3	CH_3	N-OCH_3	
288	O-CO-	H	CH_3	CH_3	N-OCH_3	
289	CO-CH_2	H	CH_3	CH_3	N-OCH_3	
290	CO-CH_2	CH_3	CH_3	CH_3	N-OCH_3	
291	CO-CH_2	C_6H_5	CH_3	CH_3	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
292	$CO-CH_2$	$2-CH_3-C_6H_4$	CH_3	CH_3	$N-OCH_3$	
293	$CO-CH_2$	$2,4-(CH_3)_2-C_6H_3$	CH_3	CH_3	$N-OCH_3$	
294	$CO-CH_2$	$2-Cl-C_6H_4$	CH_3	CH_3	$N-OCH_3$	
295	$CO-CH_2$	Pyridin-2-yl	CH_3	CH_3	$N-OCH_3$	
296	$CO-CH_2$	Furan-2-yl	CH_3	CH_3	$N-OCH_3$	
297	$CO-CH_2$	Benzothiazol-2-yl	CH_3	CH_3	$N-OCH_3$	
298	CH_2-CO	H	CH_3	CH_3	$N-OCH_3$	
299	CH_2-CO	C_6H_5	CH_3	CH_3	$N-OCH_3$	
300	N=N	C_6H_5	CH_3	CH_3	$N-OCH_3$	
301	$CO-OCH_2$	CH_3	CH_3	CH_3	$N-OCH_2$	
302	$CO-OCH_2$	tert.-C_4H_9	CH_3	CH_3	$N-OCH_2$	
303	$CO-OCH_2$	3-Heptyl	CH_3	CH_3	$N-OCH_2$	
304	$CO-OCH_2$	Cyclopropyl	CH_3	CH_3	$N-OCH_2$	
305	$CO-OCH_2$	1-Methylcyclopropyl	CH_3	CH_3	$N-OCH_2$	
306	$CO-OCH_2$	2-Methylcyclopropyl	CH_3	CH_3	$N-OCH_2$	
307	$CO-OCH_2$	2,2-Dimethylcyclopropyl	CH_3	CH_3	$N-OCH_2$	
308	$CO-OCH_2$	2,2-Dichlorocyclopropyl	CH_3	CH_3	$N-OCH_2$	
309	$CO-OCH_2$	2,2-Dimethyl-3-(2 ,2 -Dichloro-vinyl)cyclopropyl	CH_3	CH_3	$N-OCH_2$	
310	$CO-OCH_2$	2-Phenylcyclopropyl	CH_3	CH_3	$N-OCH_2$	
311	$CO-OCH_2$	1-(2-Fluorophenyl)cyclopropyl	CH_3	CH_3	$N-OCH_2$	
312	$CO-OCH_2$	1-(2-Chlorophenyl)cyclopropyl	CH_3	CH_3	N OCH_2	
313	$CO-OCH_2$	1-(2 ,6-Difluorophenyl)-cyclopropyl	CH_3	CH_3	$N-OCH_2$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
314	$CO-OCH_2$	1-(2 ,4 -Dichlorphenyl)-cyclopropyl	CH_3	CH_3	$N-OCH_2$	
315	$CO-OCH_2$	1-(4 -Chlorphenyl)cyclopropyl	CH_3	CH_3	$N-OCH_2$	
316	$CO-OCH_2$	1-(4 -Methoxyphenyl)-cyclopropyl	CH_3	CH_3	$N-OCH_2$	
317	$CO-OCH_2$	1-(2 -Methylphenyl)cyclopropyl	CH_3	CH_3	$N-OCH_2$	
318	$CO-OCH_2$	1-(4 -Methylphenyl)cyclopropyl	CH_3	CH_3	$N-OCH_2$	
319	$CO-OCH_2$	1-Benzylcyclopropyl	CH_3	CH_3	$N\ OCH_2$	
320	$CO-OCH_2$	Phenyl	CH_3	CH_3	$N-OCH_2$	
321	$CO-OCH_2$	4-Methylphenyl	CH_3	CH_3	$N-OCH_2$	
322	$CO-OCH_2$	4-Chlorophenyl	CH_3	CH_3	$N-OCH_2$	
323	$CO-OCH_2$	4-Fluorophenyl	CH_3	CH_3	$N-OCH_2$	
324	$CO-OCH_2$	2-Heptyl	CH_3	CH_3	$N-OCH_3$	
325	$CO-OCH_2$	Propargyl	CH_3	CH_3	$N-OCH_3$	
326	$CO-OCH_2$	1-Methylcyclohexyl	CH_3	CH_3	$N-OCH_3$	
327	$CO-OCH_2$	Cyclohexyl	CH_3	CH_3	$N-OCH_3$	
328	OCH_2	C_6H_5	C_2H_5	CH_3	$N-OCH_3$	
329	OCH_2	C_6H_5	C_2H_5	C_2H_5	$N-OCH_3$	
330	OCH_2	C_6H_5	$n-C_3H_7$	CH_3	$N-OCH_3$	
331	CH_2	H	CH_3	H	$N-OCH_3$	
332	CHCl	H	CH_3	H	$N-OCH_3$	
333	CHBr	H	CH_3	H	$N-OCH_3$	
334	CHJ	H	CH_3	H	$N-OCH_3$	
335	CH_2O	H	CH_3	H	$N-OCH_3$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
336	CH_2-O-SO_2	CH_3	CH_3	H	N-OCH_3	
337	CH_2-O-SO_2	C_6H_4-CH_3	CH_3	H	N-OCH_3	
338	CH_2CH_2	C_6H_5	CH_3	H	N-OCH_3	
339	CH_2CH_2	2-F-C_6H_4	CH_3	H	N-OCH_3	
340	CH_2CH_2	3-F-C_6H_4	CH_3	H	N-OCH_3	
341	CH_2CH_2	4-F-C_6H_4	CH_3	H	N-OCH_3	
342	CH_2CH_2	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
343	CH_2CH_2	3-Cl-C_6H_4	CH_3	H	N-OCH_3	
344	CH_2CH_2	4-Cl-C_6H_4	CH_3	H	N-OCH_3	
345	CH_2CH_2	2-Br-C_6H_4	CH_3	H	N-OCH_3	
346	CH_2CH_2	3-Br-C_6H_4	CH_3	H	N-OCH_3	
347	CH_2CH_2	4-Br-C_6H_4	CH_3	H	N-OCH_3	
348	CH_2CH_2	2-I-C_6H_4	CH_3	H	N-OCH_3	
349	CH_2CH_2	2-CH_3-C_6H_4	CH_3	H	N-OCH_3	
350	CH_2CH_2	3-CH_3-C_6H_4	CH_3	H	N-OCH_3	
351	CH_2CH_2	4-CH_3-C_6H_4	CH_3	H	N-OCH_3	
352	CH_2CH_2	2-OCH_3-C_{64}	CH_3	H	N-OCH_3	
353	CH_2CH_2	3-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
354	CH_2CH_2	4-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
355	CH_2CH_2	2-CF_3-C_6H_4	CH_3	H	N-OCH_3	
356	CH_2CH_2	3-CF_3-C_6H_4	CH_3	H	N-OCH_3	
357	CH_2CH_2	4-CF_3-C_6H_4	CH_3	H	N-OCH_3	
358	CH_2CH_2	4-i-C_3H_7-C_6H_4	CH_3	H	N-OCH_3	
359	CH_2CH_2	4-t-C_4H_9-C_6H_4	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
360	CH_2CH_2	4-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
361	CH_2CH_2	2,4-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
362	CH_2CH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
363	CH_2CH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	N-OCH_3	
364	CH_2CH_2	2,4,6-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
365	CH_2CH_2	Pyridin-2-yl	CH_3	H	N-OCH_3	
366	CH_2CH_2	Pyridin-3-yl	CH_3	H	N-OCH_3	
367	CH_2CH_2	Furan-2-yl	CH_3	H	N-OCH_3	
368	CH_2CH_2	6-CH_3-Pyridin-2-yl	CH_3	H	N-OCH_3	
369	CH_2CH_2	6-Cl-Pyridin-2-yl	CH_3	H	N-OCH_3	
370	CH_2CH_2	Benzothiazol-2-yl	CH_3	H	N-OCH_3	
371	CH=CH	C_6H_5	CH_3	H	N-OCH_3	
372	CH=CH	2-F-C_6H_4	CH_3	H	N-OCH_3	
373	CH=CH	3-F-C_6H_4	CH_3	H	N-OCH_3	
374	CH=CH	4-F-C_6H_4	CH_3	H	N-OCH_3	
375	CH=CH	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
376	CH=CH	3-Cl-C_6H_4	CH_3	H	N-OCH_3	
377	CH=CH	4-Cl-C_6H_4	CH_3	H	N-OCH_3	
378	CH=CH	2-Br-C_6H_4	CH_3	H	N-OCH_3	
379	CH=CH	3-Br-C_6H_4	CH_3	H	N-OCH_3	
380	CH=CH	4-Br-C_6H_4	CH_3	H	N-OCH_3	
381	CH=CH	2-I-C_6H_4	CH_3	H	N-OCH_3	
382	CH=CH	2-CH_3-C_6H_4	CH_3	H	N-OCH_3	
383	CH=CH	3-CH_3-C_6H_4	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
384	CH=CH	4-CH_3-C_6H_4	CH_3	H	N-OCH_3	
385	CH=CH	2-OCH_3-C_64	CH_3	H	N-OCH_3	
386	CH=CH	3-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
387	CH=CH	4-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
388	CH=CH	2-CF_3-C_6H_4	CH_3	H	N-OCH_3	
389	CH=CH	3-CF_3-C_6H_4	CH_3	H	N-OCH_3	
390	CH=CH	4-CF_3-C_6H_4	CH_3	H	N-OCH_3	
391	CH=CH	4-i-C_3H_7-C_6H_4	CH_3	H	N-OCH_3	
392	CH=CH	4-t-C_4H_9-C_6H_4	CH_3	H	N-OCH_3	
393	CH=CH	4-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
394	CH=CH	2,4-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
395	CH=CH	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
396	CH=CH	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	N-OCH_3	
397	CH=CH	2,4,6-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
398	CH=CH	Pyridin-2-yl	CH_3	H	N-OCH_3	
399	CH=CH	Pyridin-3-yl	CH_3	H	N-OCH_3	
400	CH=CH	Furan-2-yl	CH_3	H	N-OCH_3	
401	CH=CH	6-CH_3-Pyridin-2-yl	CH_3	H	N-OCH_3	
402	CH=CH	6-Cl-Pyridin-2-yl	CH_3	H	N-OCH_3	
403	CH=CH	Benzothiazol-2-yl	CH_3	H	N-OCH_3	
404	CH_2O	C_6H_5	CH_3	H	N-OCH_3	
405	CH_2O	2-F-C_6H_4	CH_3	H	N-OCH_3	
406	CH_2O	3-F-C_6H_4	CH_3	H	N-OCH_3	
407	CH_2O	4-F-C_6H_4	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
408	CH_2O	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
409	CH_2O	3-Cl-C_6H_4	CH_3	H	N-OCH_3	
410	CH_2O	4-Cl-C_6H_4	CH_3	H	N-OCH_3	
411	CH_2O	2-Br-C_6H_4	CH_3	H	N-OCH_3	
412	CH_2O	3-Br-C_6H_4	CH_3	H	N-OCH_3	
413	CH_2O	4-Br-C_6H_4	CH_3	H	N-OCH_3	
414	CH_2O	2-I-C_6H_4	CH_3	H	N-OCH_3	
415	CH_2O	2-CH_3-C_6H_4	CH_3	H	N-OCH_3	
416	CH_2O	3-CH_3-C_6H_4	CH_3	H	N-OCH_3	
417	CH_2O	4-CH_3-C_6H_4	CH_3	H	N-OCH_3	
418	CH_2O	2-OCH_3-C_{64}	CH_3	H	N-OCH_3	
419	CH_2O	3-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
420	CH_2O	4-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
421	CH_2O	2-CF_3-C_6H_4	CH_3	H	N-OCH_3	
422	CH_2O	3-CF_3-C_6H_4	CH_3	H	N-OCH_3	
423	CH_2O	4-CF_3-C_6H_4	CH_3	H	N-OCH_3	
424	CH_2O	4-i-C_3H_7-C_6H_4	CH_3	H	N-OCH_3	
425	CH_2O	4-t-C_4H_9-C_6H_4	CH_3	H	N-OCH_3	
426	CH_2O	4-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
427	CH_2O	2,4-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
428	CH_2O	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
429	CH_2O	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	N-OCH_3	
430	CH_2O	2,4,6-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
431	CH_2O	Pyridin-2-yl	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
432	CH_2O	Pyridin-3-yl	CH_3	H	N-OCH_3	
433	CH_2O	Furan-2-yl	CH_3	H	N-OCH_3	
434	CH_2O	6-CH_3-Pyridin-2-yl	CH_3	H	N-OCH_3	
435	CH_2O	6-Cl-Pyridin-2-yl	CH_3	H	N-OCH_3	
436	CH_2O	Benzothiazol-2-yl	CH_3	H	N-OCH_3	
437	OCH_2	H	CH_3	H	N-OCH_3	
438	OCH_2	C_6H_5	CH_3	H	N-OCH_3	
439	OCH_2	2-F-C_6H_4	CH_3	H	N-OCH_3	
440	OCH_2	3-F-C_6H_4	CH_3	H	N-OCH_3	
441	OCH_2	4-F-C_6H_4	CH_3	H	N-OCH_3	
442	OCH_2	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
443	OCH_2	3-Cl-C_6H_4	CH_3	H	N-OCH_3	
444	OCH_2	4-Cl-C_6H_4	CH_3	H	N-OCH_3	
445	OCH_2	2-Br-C_6H_4	CH_3	H	N-OCH_3	
446	OCH_2	3-Br-C_6H_4	CH_3	H	N-OCH_3	
447	OCH_2	4-Br-C_6H_4	CH_3	H	N-OCH_3	
448	OCH_2	2-I-C_6H_4	CH_3	H	N-OCH_3	
449	OCH_2	2-CH_3-C_6H_4	CH_3	H	N-OCH_3	M.p.105°C;1H-NMR($CDCl_3$): δ-2.22(s, 3H);2.85(d, 3H);3.85(s, 3H);4.95(s, 2H);6.70(sbr, 1H);6.80 (mc, 2H);7.0-7.5(m, 6H)
450	OCH_2	3-CH_3-C_6H_4	CH_3	H	N-OCH_3	
451	OCH_2	4-CH_3-C_6H_4	CH_3	H	N-OCH_3	
452	OCH_2	2-OCH_3-C_{64}	CH_3	H	N-OCH_3	
453	OCH_2	3-OCH_3-C_6H_4	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
454	OCH_2	4-OCH_3-C_6H_4	CH_3	H	N-OCH_3	
455	OCH_2	2-CF_3-C_6H_4	CH_3	H	N-OCH_3	
456	OCH_2	3-CF_3-C_6H_4	CH_3	H	N-OCH_3	
457	OCH_2	4-CF_3-C_6H_4	CH_3	H	N-OCH_3	
458	OCH_2	2-NO_2-C_6H_4	CH_3	H	N-OCH_3	
459	OCH_2	4-NO_2-C_6H_4	CH_3	H	N-OCH_3	
460	OCH_2	2-CH_2Cl-C_6H_4	CH_3	H	N-OCH_3	
461	OCH_2	3-CH_2Cl-C_6H_4	CH_3	H	N-OCH_3	
462	OCH_2	4-CH_2Cl-C_6H_4	CH_3	H	N-OCH_3	
463	OCH_2	2-C_2H_5-C_6H_4	CH_3	H	N-OCH_3	
464	OCH_2	3-C_2H_5-C_6H_4	CH_3	H	N-OCH_3	
465	OCH_2	4-C_2H_5-C_6H_4	CH_3	H	N-OCH_3	
466	OCH_2	3-i-C_3H_7-C_6H_4	CH_3	H	N-OCH_3	
467	OCH_2	4-i-C_3H_7-C_6H_4	CH_3	H	N-OCH_3	
468	OCH_2	3-t-C_4H_9-C_6H_4	CH_3	H	N-OCH_3	
469	OCH_2	4-t-C_4H_9-C_6H_4	CH_3	H	N-OCH_3	
470	OCH_2	3-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
471	OCH_2	4-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
472	OCH_2	4-i-C_3H_7O-C_6H_4	CH_3	H	N-OCH_3	
473	OCH_2	4-t-C_4H_9O-C_6H_4	CH_3	H	N-OCH_3	
474	OCH_2	3-C_6H_5O-C_6H_4	CH_3	H	N-OCH_3	
475	OCH_2	4-C_6H_5O-C_6H_4	CH_3	H	N-OCH_3	
476	OCH_2	3-$C_6H_5CH_2O$-C_6H_4	CH_3	H	N-OCH_3	
477	OCH_2	4-$C_6H_5CH_2O$-C_6H_4	CH_3	H	N-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
478	OCH_2	2,3-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
479	OCH_2	2,4-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
480	OCH_2	2,5-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
481	OCH_2	2,6-Cl_2-C_6H_3	CH_3	H	N-OCH_3	
482	OCH_2	2,3,4-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
483	OCH_2	2,3,5-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
484	OCH_2	2,3,6-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
485	OCH_2	3,4,5-Cl_3-C_6H_2	CH_3	H	N-OCH_3	
486	OCH_2	C_6Cl_5	CH_3	H	N-OCH_3	
487	OCH_2	C_6F_5	CH_3	H	N-OCH_3	
488	OCH_2	2-F, 4-Cl-C_6H_3	CH_3	H	N-OCH_3	
489	OCH_2	4-F, 2-Cl-C_6H_3	CH_3	H	N-OCH_3	
490	OCH_2	2-CH_3, 4-t-C_4H_9-C_6H_3	CH_3	H	N-OCH_3	
491	OCH_2	2-CH_3, 4-c-C_6H_{11}-C_6H_3	CH_3	H	N-OCH_3	
492	OCH_2	2-CH_3, 4-C_3H_7-C_6H_3	CH_3	H	N-OCH_3	
493	OCH_2	2,3-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
494	OCH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	M.p. 88-89°C; IR(KBr): 3411, 1660, 1512, 1226, 1036, 982, 798, 766
495	OCH_2	2,5-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
496	OCH_2	2,3,5-$(CH_3)_3$-C_6H_2	CH_3	H	N-OCH_3	
497	OCH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	N-OCH_3	
498	OCH_2	3,4-$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	
499	OCH_2	3,5$(CH_3)_2$-C_6H_3	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
500	OCH_2	3,5$(C_2H_5)_2$-C_6H_3	CH_3	H	N-OCH_3	
501	OCH_2	4-Cyclohexyl-C_6H_4	CH_3	H	N-OCH_3	
502	OCH_2	CH_2-CH=CH_2	CH_3	H	N-OCH_3	
503	OCH_2	CH_2-CH=$CHCH_3$	CH_3	H	N-OCH_3	
504	OCH_2	CH_2-CH=$C(CH_3)_2$	CH_3	H	N-OCH_3	
505	OCH_2	CH_2-$C(CH_3)$=CH_2	CH_3	H	N-OCH_3	
506	OCH_2	CH_2-C_6H_5	CH_3	H	N-OCH_3	
507	OCH_2	Cyclohexyl	CH_3	H	N-OCH_3	
508	OCH_2	CH_2-C=CH	CH_3	H	N-OCH_3	
509	OCH_2	CH_2CH=CH-C_6H_5	CH_3	H	N-OCH_3	
510	OCH_2	CH_2CH_2-O-C_6H_5	CH_3	H	N-OCH_3	
511	O	H	CH_3	H	N-OCH_3	
512	O	C_6H_5	CH_3	H	N-OCH_3	
513	O	3-C_6H_5-C_6H_4	CH_3	H	N-OCH_3	
514	O	3-n-C_3H_7O-C_6H_4	CH_3	H	N-OCH_3	
515	O	Pyridin-2-yl	CH_3	H	N-OCH_3	
516	O	6-C_6H_5-Pyridin-2-yl	CH_3	H	N-OCH_3	
517	O	CH_2-CH=CH_2	CH_3	H	N-OCH_3	
518	O	3-C_6H_5O-C_6H_4	CH_3	H	N-OCH_3	
519	O	3-C_6H_5-S-C_6H_4	CH_3	H	N-OCH_3	
520	O	3-$C_6H_5CH_2O$-C_6H_4	CH_3	H	N-OCH_3	
521	O	4-C_6H_5O-C_6H_4	CH_3	H	N-OCH_3	
522	O	4-$C_6H_5OCH_2$-C_6H_4	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
523	C≡C	CH_3	CH_3	H	N-OCH_3	
524	C≡C	C_6H_5	CH_3	H	N-OCH_3	
525	S	C_6H_5	CH_3	H	N-OCH_3	
526	S	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
527	SCH_2	C_6H_5	CH_3	H	N-OCH_3	
528	SCH_2	2-Cl-C_6H_4	CH_3	H	N-OCH_3	
529	SCH_2	4-Cl-C_6H_4	CH_3	H	N-OCH_3	
530	SCH_2	4-F-C_6H_4	CH_3	H	N-OCH_3	
531	SCH_2	4-CH_3-C_6H_4	CH_3	H	N-OCH_3	
532	SCH_2	4-CH_3-Pyridin-2-yl	CH_3	H	N-OCH_3	
533	SCH_2	6-Cl-Pyridin-2-yl	CH_3	H	N-OCH_3	
534	SCH_2	Benzothiazol-2-yl	CH_3	H	N-OCH_3	
535	SCH_2	5-Cl-Benzothiazol-2-yl	CH_3	H	N-OCH_3	
536	OCH_2	6-Cl-Benzothiazol-2-yl	CH_3	H	N-OCH_3	
537	OCH_2	4,8-$(CH_3)_2$-Chinolin-2-yl	CH_3	H	N-OCH_3	
538	CO-O	CH_3	CH_3	H	N-OCH_3	
539	CO-O	C_6H_5	CH_3	H	N-OCH_3	
540	O-CO	CH_3	CH_3	H	N-OCH_3	
541	O-CO	C_6H_5	CH_3	H	N-OCH_3	
542	O-CO	C_6H_5-CH_2	CH_3	H	N-OCH_3	
543	O-CO	H	CH_3	H	N-OCH_3	
544	CO-CH_2	H	CH_3	H	N-OCH_3	
545	CO-CH_2	CH_3	CH_3	H	N-OCH_3	
546	CO-CH_2	C_6H_5	CH_3	H	N-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
547	$CO-CH_2$	$2-CH_3-C_6H_4$	CH_3	H	$N-OCH_3$	
548	$CO-CH_2$	$2,4-(CH_3)_2-C_6H_3$	CH_3	H	$N-OCH_3$	
549	$CO-CH_2$	$2-Cl-C_6H_4$	CH_3	H	$N-OCH_3$	
550	CH_2-CO	H	CH_3	H	$N-OCH_3$	
551	CH_2-CO	C_6H_5	CH_3	H	$N-OCH_3$	
552	N=N	C_6H_5	CH_3	H	$N-OCH_3$	
553	$CO-OCH_2$	CH_3	CH_3	H	$N-OCH_3$	
554	$CO-OCH_2$	tert.-C_4H_9	CH_3	H	$N-OCH_3$	
555	$CO-OCH_2$	3-Heptyl	CH_3	H	$N-OCH_3$	
556	$CO-OCH_2$	Cyclopropyl	CH_3	H	$N-OCH_3$	
557	$CO-OCH_2$	1-Methylcyclopropyl	CH_3	H	$N-OCH_3$	
558	$CO-OCH_2$	2-Methylcyclopropyl	CH_3	H	$N-OCH_3$	
559	$CO-OCH_2$	2,2-Dimethylcycloprppyl	CH_3	H	$N-OCH_3$	
560	$CO-OCH_2$	2,2- Dichlorocyclopropyl	CH_3	H	$N-OCH_3$	
561	$CO-OCH_2$	2,2-Dimethyl-3-(2 ,2 -Dichloro-vinyl)cyclopropyl	CH_3	H	$N-OCH_3$	
562	$CO-OCH_2$	1-Phenylcyclopropyl	CH_3	H	$N-OCH_3$	
563	$CO-OCH_2$	1-(2-Fluorophenyl)cyclopropyl	CH_3	H	$N-OCH_3$	
564	$CO-OCH_2$	1-(2-Chlorophenyl)cyclopropyl	CH_3	H	N OCH_3	
565	$CO-OCH_2$	1-(2 ,6-Difluorophenyl)-cyclopropyl	CH_3	H	$N-OCH_3$	
566	$CO-OCH_2$	1-(2 ,4-Dichlorophenyl)-cyclopropyl	CH_3	H	$N-OCH_3$	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
567	$CO-OCH_2$	1-(4-Chlorophenyl)cyclopropyl	CH_3	H	$N-OCH_3$	
568	$CO-OCH_2$	1-(4 -Methoxyphenyl)cyclopropyl	CH_3	H	$N-OCH_3$	
569	CH_2	H	C_2H_5	H	$N-OCH_3$	
570	CHCl	H	C_2H_5	H	$N-OCH_3$	
571	CHBr	H	C_2H_5	H	$N-OCH_3$	
572	CH_2CH_2	C_6H_5	C_2H_5	H	$N-OCH_3$	
573	CH=CH	C_6H_5	C_2H_5	H	$N-OCH_3$	
574	OCH_2	C_6H_5	C_2H_5	H	$N-OCH_3$	
575	CH_2O	C_6H_5	C_2H_5	H	$N-OCH_3$	
576	O	C_6H_5	C_2H_5	H	$N-OCH_3$	
577	OCH_2	C_6H_5	OCH_3	H	$N-OCH_3$	
578	CH=CH	C_6H_5	OCH_3	H	$N-OCH_3$	
579	CH_2	H	OCH_3	H	$N-OCH_3$	
580	CHCl	H	OCH_3	H	$N-OCH_3$	
581	CHBr	H	OCH_3	H	$N-OCH_3$	
582	CH_2	H	OCH_3	CH_3	$N-OCH_3$	
583	OCH_2	C_6H_5	OCH_3	CH_3	$N-OCH_3$	
584	OCH_2	C_6H_5	OC_2H_5	H	$N-OCH_3$	
585	OCH_2	$2,4-(CH_3)_2-C_6H_3$	OCH_3	CH_3	$N-OCH_3$	oil;1H-NMR($CDCl_3$): δ=2.24, 2.28(2s, 6H);3.21(s, 3H);3.52(br, 3H);3.98(s, 3H);5.05(s, 2H);6..75 (d, 1H);6.83(m, 2H), 7.40(mc, 3H);7.64(d, 1H)
586	OCH_2	$2-CH_3-C_6H_4$	OCH_3	CH_3	$N-OCH_3$	M.p. 55°C;1H-NMR ($CDCl_3$) δ-2.30(s, 3H);3.20, 3.48(2s, 6H);3.98(s, 3t);5.08(s, 2H);6.85(t, 2H); 7.10(m, 2H);7.40(mc, 3H);7.65(d, 1H)

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
587	OCH_2	2-CH_3-C_6H_4	OCH_3	H	N-OCH_3	M.p. 89°C; 1H-NMR($CDCl_3$) δ=2.22(s, 3H); 3.75(s, 3H); 3.94(s, 3H); 4.98(s, 2H); 6.80(m, 2H); 7.13(m, 2H); 7.25(d, 1H); 7.40(mc, 2H); 7.55(d, 1H); 9.15(s, 1H)
588	OCH_2	2-CH_3-C_6H_4	C_2H_5	C_2H_5	N-OCH_3	oil; 1H-NMR($CDCl_3$) δ=1.18(t, 3H); 2.25(s, 3H); 3.45(d, 3H); 3.93(s, 3H); 5.09(s, 2H); 6.85(m, 2H) 7.10(mc, 2H); 7.4(m, 3H); 7.60(d, 1H)
589	CH_2	H	CH_3	H	CH-OCH_3	
590	CHCl	H	CH_3	H	CH-OCH_3	
591	CHBr	H	CH_3	H	CH-OCH_3	
592	CHI	H	CH_3	H	CH-OCH_3	
593	CH_2	OH	CH_3	H	CH-OCH_3	
594	CH_2-O-SO_2	CH_3	CH_3	H	CH-OCH_3	
595	CH_2-O-SO_2	C_6H_4-CH_3	CH_3	H	CH-OCH_3	
596	CH_2-CH_2	C_6H_5	CH_3	H	CH-OCH_3	
597	CH_2-CH_2	2-F-C_6H_4	CH_3	H	CH-OCH_3	
598	CH_2-CH_2	3-F-C_6H_4	CH_3	H	CH-OCH_3	
599	CH_2-CH_2	4-F-C_6H_4	CH_3	H	CH-OCH_3	
600	CH_2-CH_2	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
601	CH_2-CH_2	3-Cl-C_6H_4	CH_3	H	CH-OCH_3	
602	CH_2-CH_2	4-Cl-C_6H_4	CH_3	H	CH-OCH_3	
603	CH_2-CH_2	2-Br-C_6H_4	CH_3	H	CH-OCH_3	
604	CH_2-CH_2	3-Br-C_6H_4	CH_3	H	CH-OCH_3	
605	CH_2-CH_2	4-Br-C_6H_4	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
606	CH_2-CH_2	2-I-C_6H_4	CH_3	H	CH-OCH_3	
607	CH_2-CH_2	2-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
608	CH_2-CH_2	3-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
609	CH_2-CH_2	4-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
610	CH_2-CH_2	2-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
611	CH_2-CH_2	3-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
612	CH_2-CH_2	4-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
613	CH_2-CH_2	2-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
614	CH_2-CH_2	3-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
615	CH_2-CH_2	4-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
616	CH_2-CH_2	4-i-C_3H_7-C_6H_4	CH_3	H	CH-OCH_3	
617	CH_2-CH_2	4-t-C_4H_9-C_6H_4	CH_3	H	CH-OCH_3	
618	CH_2-CH_2	4-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
619	CH_2-CH_2	2,4-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
620	CH_2-CH_2	2,4-$(CH_3)_4$-C_6H_3	CH_3	H	CH-OCH_3	
621	CH_2-CH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	CH-OCH_3	
622	CH_2-CH_2	2,4,6-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
623	CH_2-CH_2	Pyridin-2-yl	CH_3	H	CH-OCH_3	
624	CH_2-CH_2	Pyridin-3-yl	CH_3	H	CH-OCH_3	
625	CH_2-CH_2	Furan-2-yl	CH_3	H	CH-OCH_3	
626	CH_2-CH_2	6-CH_3-Pyridin-2-yl	CH_3	H	CH-OCH_3	
627	CH_2-CH_2	6-Cl-Pyridin-2-yl	CH_3	H	CH-OCH_3	
628	CH_2-CH_2	Benzothiazol-2-yl	CH_3	H	CH-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
629	CH=CH	C_6H_5	CH_3	H	CH-OCH_3	
630	CH=CH	2-F-C_6H_4	CH_3	H	CH-OCH_3	
631	CH=CH	3-F-C_6H_4	CH_3	H	CH-OCH_3	
632	CH=CH	4-F-C_6H_4	CH_3	H	CH-OCH_3	
633	CH=CH	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
634	CH=CH	3-Cl-C_6H_4	CH_3	H	CH-OCH_3	
635	CH=CH	4-Cl-C_6H_4	CH_3	H	CH-OCH_3	
636	CH=CH	2-Br-C_6H_4	CH_3	H	CH-OCH_3	
637	CH=CH	3-Br-C_6H_4	CH_3	H	CH-OCH_3	
638	CH=CH	4-Br-C_6H_4	CH_3	H	CH-OCH_3	
639	CH=CH	2-I-C_6H_4	CH_3	H	CH-OCH_3	
640	CH=CH	2-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
641	CH=CH	3-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
642	CH=CH	4-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
643	CH=CH	2-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
644	CH=CH	3-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
645	CH=CH	4-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
646	CH=CH	2-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
647	CH=CH	3-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
648	CH=CH	4-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
649	CH=CH	4-i-C_3H_7-C_6H_4	CH_3	H	CH-OCH_3	
650	CH=CH	4-t-C_4H_9-C_6H_4	CH_3	H	CH-OCH_3	
651	CH=CH	4-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
652	CH=CH	2,4-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
653	CH=CH	2,4-$(CH_3)_4$-C_6H_3	CH_3	H	CH-OCH_3	
654	CH=CH	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	CH-OCH_3	
655	CH=CH	2,4,6-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
656	CH=CH	Pyridin-2-yl	CH_3	H	CH-OCH_3	
657	CH=CH	Pyridin-3-yl	CH_3	H	CH-OCH_3	
658	CH=CH	Furan-2-yl	CH_3	H	CH-OCH_3	
659	CH=CH	6-CH_3-Pyridin-2-yl	CH_3	H	CH-OCH_3	
660	CH=CH	6-Cl-Pyridin-2-yl	CH_3	H	CH-OCH_3	
661	CH=CH	Benzothiazol-2-yl	CH_3	H	CH-OCH_3	
662	CH_2O	C_6H_5	CH_3	H	CH-OCH_3	
663	CH_2O	2-F-C_6H_4	CH_3	H	CH-OCH_3	
664	CH_2O	3-F-C_6H_4	CH_3	H	CH-OCH_3	
665	CH_2O	4-F-C_6H_4	CH_3	H	CH-OCH_3	
666	CH_2O	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
667	CH_2O	3-Cl-C_6H_4	CH_3	H	CH-OCH_3	
668	CH_2O	4-Cl-C_6H_4	CH_3	H	CH-OCH_3	
669	CH_2O	2-Br-C_6H_4	CH_3	H	CH-OCH_3	
670	CH_2O	3-Br-C_6H_4	CH_3	H	CH-OCH_3	
671	CH_2O	4-Br-C_6H_4	CH_3	H	CH-OCH_3	
672	CH_2O	2-I-C_6H_4	CH_3	H	CH-OCH_3	
673	CH_2O	2-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
674	CH_2O	3-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
675	CH_2O	4-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
676	CH_2O	2-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
677	CH_2O	3-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
678	CH_2O	4-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
679	CH_2O	2-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
680	CH_2O	3-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
681	CH_2O	4-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
682	CH_2O	4-i-C_3H_7-C_6H_4	CH_3	H	CH-OCH_3	
683	CH_2O	4-t-C_4H_9-C_6H_4	CH_3	H	CH-OCH_3	
684	CH_2O	4-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
685	CH_2O	2,4-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
686	CH_2O	2,4-$(CH_3)_4$-C_6H_3	CH_3	H	CH-OCH_3	
687	CH_2O	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	CH-OCH_3	
688	CH_2O	2,4,6-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
689	CH_2O	Pyridin-2-yl	CH_3	H	CH-OCH_3	
690	CH_2O	Pyridin-3-yl	CH_3	H	CH-OCH_3	
691	CH_2O	Furan-2-yl	CH_3	H	CH-OCH_3	
692	CH_2O	6-CH_3-Pyridin-2-yl	CH_3	H	CH-OCH_3	
693	CH_2O	6-Cl-Pyridin-2-yl	CH_3	H	CH-OCH_3	
694	CH_2O	Benzothiazol-2-yl	CH_3	H	CH-OCH_3	
695	OCH_2	H	CH_3	H	CH-OCH_3	
696	OCH_2	C_6H_5	CH_3	H	CH-OCH_3	
697	OCH_2	2-F-C_6H_4	CH_3	H	CH-OCH_3	
698	OCH_2	3-F-C_6H_4	CH_3	H	CH-OCH_3	
699	OCH_2	4-F-C_6H_4	CH_3	H	CH-OCH_3	
700	OCH_2	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
701	OCH_2	3-Cl-C_6H_4	CH_3	H	CH-OCH_3	
702	OCH_2	4-Cl-C_6H_4	CH_3	H	CH-OCH_3	
703	OCH_2	2-Br-C_6H_4	CH_3	H	CH-OCH_3	
704	OCH_2	3-Br-C_6H_4	CH_3	H	CH-OCH_3	
705	OCH_2	4-Br-C_6H_4	CH_3	H	CH-OCH_3	
706	OCH_2	2-I-C_6H_4	CH_3	H	CH-OCH_3	
707	OCH_2	2-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
708	OCH_2	3-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
709	OCH_2	4-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
710	OCH_2	2-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
711	OCH_2	3-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
712	OCH_2	4-OCH_3-C_6H_4	CH_3	H	CH-OCH_3	
713	OCH_2	2-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
714	OCH_2	3-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
715	OCH_2	4-CF_3-C_6H_4	CH_3	H	CH-OCH_3	
716	OCH_2	2-NO_2-C_6H_4	CH_3	H	CH-OCH_3	
717	OCH_2	4-NO_2-C_6H_4	CH_3	H	CH-OCH_3	
718	OCH_2	2-CH_2Cl-C_6H_4	CH_3	H	CH-OCH_3	
719	OCH_2	3-CH_2Cl-C_6H_4	CH_3	H	CH-OCH_3	
720	OCH_2	4-CH_2Cl-C_6H_4	CH_3	H	CH-OCH_3	
721	OCH_2	2-C_2H_5-C_6H_4	CH_3	H	CH-OCH_3	
722	OCH_2	3-C_2H_5-C_6H_4	CH_3	H	CH-OCH_3	
723	OCH_2	4-C_2H_5-C_6H_4	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
724	OCH_2	3-i-C_3H_7-C_6H_4	CH_3	H	CH-OCH_3	
725	OCH_2	4-i-C_3H_7-C_6H_4	CH_3	H	CH-OCH_3	
726	OCH_2	3-t-C_4H_9-C_6H_4	CH_3	H	CH-OCH_3	
727	OCH_2	4-t-C_4H_9-C_6H_4	CH_3	H	CH-OCH_3	
728	OCH_2	3-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
729	OCH_2	4-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
730	OCH_2	4-i-C_3H_7O-C_6H_4	CH_3	H	CH-OCH_3	
731	OCH_2	4-t-C_4H_9O-C_6H_4	CH_3	H	CH-OCH_3	
732	OCH_2	3-C_6H_5O-C_6H_4	CH_3	H	CH-OCH_3	
733	OCH_2	4-C_6H_5O-C_6H_4	CH_3	H	CH-OCH_3	
734	OCH_2	3-$C_6H_5CH_2O$-C_6H_4	CH_3	H	CH-OCH_3	
735	OCH_2	4-$C_6H_5CH_2O$-C_6H_4	CH_3	H	CH-OCH_3	
736	OCH_2	2,3-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
737	OCH_2	2,4-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
738	OCH_2	2,5-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
739	OCH_2	2,6-Cl_2-C_6H_3	CH_3	H	CH-OCH_3	
740	OCH_2	2,3,4-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
741	OCH_2	2,3,5-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
742	OCH_2	2,3,6-Cl_3-C_6H_2	CH_3	H	CH-OCH_3	
743	OCH_2	C_6Cl_5	CH_3	H	CH-OCH_3	
744	OCH_2	C_6F_5	CH_3	H	CH-OCH_3	
745	OCH_2	2-F, 4-Cl-C_6H_3	CH_3	H	CH-OCH_3	
746	OCH_2	4-F, 2-Cl-C_6H_3	CH_3	H	CH-OCH_3	
747	OCH_2	2-CH_3, 4-t-C_4H_9-C_6H_3	CH_3	H	CH-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
748	OCH_2	2-CH_3, 4-Cyclohexyl-C_6H_3	CH_3	H	CH-OCH_3	
749	OCH_2	2-CH_2, 4-i-C_3H_7,-C_6H_3	CH_3	H	CH-OCH_3	
750	OCH_2	2,3-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
761	OCH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
762	OCH_2	2,5-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
763	OCH_2	2,3,5-$(CH_3)_3$-C_6H_2	CH_3	H	CH-OCH_3	
764	OCH_2	2,4,6-$(CH_3)_3$-C_6H_2	CH_3	H	CH-OCH_3	
765	OCH_2	3,4-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
766	OCH_2	3,5-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
767	OCH_2	3,5-$(C_2H_5)_2$-C_6H_3	CH_3	H	CH-OCH_3	
768	OCH_2	4-Cyclohexyl-C_6H_4	CH_3	H	CH-OCH_3	
769	OCH_2	$CH_2CH=CH_2$	CH_3	H	CH-OCH_3	
770	OCH_2	CH_2-CH=$CHCH_3$	CH_3	H	CH-OCH_3	
771	OCH_2	CH_2=CH=$C(CH_3)_2$	CH_3	H	CH-OCH_3	
772	OCH_2	CH_2-$C(CH_3)$=CH_2	CH_3	H	CH-OCH_3	
773	OCH_2	CH_2-C_6H_5	CH_3	H	CH-OCH_3	
774	OCH_2	Cyclohexyl	CH_3	H	CH-OCH_3	
775	OCH_2	CH_2-C=CH	CH_3	H	CH-OCH_3	
776	OCH_2	$CH_2CH=CH-C_6H_5$	CH_3	H	CH-OCH_3	
777	OCH_2	CH_2CH_2-O-C_6H_5	CH_3	H	CH-OCH_3	
778	O	H	CH_3	H	CH-OCH_3	
779	O	C_6H_5	CH_3	H	CH-OCH_3	
780	O	3-C_6H_5-C_6H_4	CH_3	H	CH-OCH_3	
781	O	3-n-C_3H_7O-C_6H_4	CH_3	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
782	O	Pyridin-2-yl	CH_3	H	CH-OCH_3	
783	O	6-C_6H_5-Pyridin-2-yl	CH_3	H	CH-OCH_3	
784	O	CH_2-CH=CH_2	CH_3	H	CH-OCH_3	
785	O	3-C_6H_5O-C_6H_4	CH_3	H	CH-OCH_3	
786	O	3-C_6H_5-S-C_6H_4	CH_3	H	CH-OCH_3	
787	O	3-C_6H_5-CH_2O-C_6H_4	CH_3	H	CH-OCH_3	
788	O	4-C_6H_5O-C_6H_4	CH_3	H	CH-OCH_3	
789	O	4-$C_6H_5OCH_2$-C_6H_4	CH_3	H	CH-OCH_3	
790	C=C	CH_3	CH_3	H	CH-OCH_3	
791	C=C	C_6H_5	CH_3	H	CH-OCH_3	
792	S	C_6H_5	CH_3	H	CH-OCH_3	
793	S	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
794	SCH_2	C_6H_5	CH_3	H	CH-OCH_3	
795	SCH_2	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
796	SCH_2	4-Cl-C_6H_4	CH_3	H	CH-OCH_3	
797	SCH_2	4-F-C_6H_4	CH_3	H	CH-OCH_3	
798	SCH_2	4-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
799	SCH_2	6-CH_3-Pyridin-2-yl	CH_3	H	CH-OCH_3	
800	SCH_2	6-Cl-Pyridin-2-yl	CH_3	H	CH-OCH_3	
801	SCH_2	Benzothiazol-2-yl	CH_3	H	CH-OCH_3	
802	SCH_2	5-Cl-Benzothiazol-2-yl	CH_3	H	CH-OCH_3	
803	SCH_2	6-Cl-Benzothiazol-2-yl	CH_3	H	CH-OCH_3	
804	SCH_2	4,8-$(CH_3)_2$-quinolin-2-yl	CH_3	H	CH-OCH_3	

Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
805	CO-O	CH_3	CH_3	H	CH-OCH_3	
806	CO-O	C_6H_5	CH_3	H	CH-OCH_3	
807	O-CO	CH_3	CH_3	H	CH-OCH_3	
808	O-CO	C_6H_5	CH_3	H	CH-OCH_3	
809	O-CO	$CH_2C_6H_5$	CH_3	H	CH-OCH_3	
810	O-CO	H	CH_3	H	CH-OCH_3	
811	CO-CH_2	H	CH_3	H	CH-OCH_3	
812	CO-CH_2	CH_3	CH_3	H	CH-OCH_3	
813	CO-CH_2	C_6H_5	CH_3	H	CH-OCH_3	
814	CO-CH_2	2-CH_3-C_6H_4	CH_3	H	CH-OCH_3	
815	CO-CH_2	2,4-$(CH_3)_2$-C_6H_3	CH_3	H	CH-OCH_3	
816	CO-CH_2	2-Cl-C_6H_4	CH_3	H	CH-OCH_3	
817	CH_2-CO	H	CH_3	H	CH-OCH_3	
818	CH_2-CO	C_6H_5	CH_3	H	CH-OCH_3	
819	N=N	C_6H_5	CH_3	H	CH-OCH_3	
820	CO-OCH_2	CH_3	CH_3	H	CH-OCH_3	
821	CO-OCH_2	tert.-C_4H_9	CH_3	H	CH-OCH_3	
822	CO-OCH_2	1-Methyl-cyclopropyl	CH_3	H	CH-OCH_3	
823	CO-OCH_2	2,2- Dichlorocyclopropyl	CH_3	H	CH-OCH_3	
824	CO-OCH_2	2-Phenylcyclopropyl	CH_3	H	CH-OCH_3	
825	CO-OCH_2	1-(2-Chlorophenyl) cyclopropyl	CH_3	H	CH-OCH_3	
826	CH_2	H	C_2H_5	H	CH-OCH_3	
827	CHCl	H	C_2H_5	H	CH-OCH_3	
828	CHBr	H	C_2H_5	H	CH-OCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
829	CH_2CH_2	C_6H_5	C_2H_5	H	CH-OCH_3	
830	CH=CH	C_6H_5	C_2H_5	H	CH-OCH_3	
831	OCH_2	C_6H_5	C_2H_5	H	CH-OCH_3	
832	CH_2O	C_6H_5	C_2H_5	H	CH-OCH_3	
833	O	C_6H_5	C_2H_5	H	CH-OCH_3	
834	OCH_2	C_6H_5	OCH_3	H	CH-OCH_3	
835	CH=CH	C_6H_5	OCH_3	H	CH-OCH_3	
836	CH_2	H	OCH_3	H	CH-OCH_3	
837	CHCl	H	OCH_3	H	CH-OCH_3	
838	CHBr	H	OCH_3	H	CH-OCH_3	
839	CH_2	H	OCH_3	CH_3	CH-OCH_3	
840	OCH_2	C_6H_5	OCH_3	CH_3	CH-OCH_3	
841	OCH_2	C_6H_5	OC_2H_5	H	CH-OCH_3	
842	CH_2CH_2	C_6H_5	H	H	CH-OMe	
843	CH=CH	C_6H_5	H	H	CH-OMe	
844	CH_2	C_6H_5	H	H	CH-OMe	
845	OCH_2	C_6H_5	H	H	CH-OMe	
846	O	C_6H_5	H	H	CH-OMe	
847	C=C	C_6H_5	H	H	CH-OMe	
848	S	C_6H_5	H	H	CH-OMe	
849	SCH_2	C_6H_5	H	H	CH-OMe	
850	CO-O	C_6H_5	H	H	CH-OMe	
851	O-CO	C_6H_5	H	H	CH-OMe	
852	CO-CH_2	C_6H_5	H	H	CH-OMe	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
853	CH_2-CO	C_6H_5	H	H	CH-OMe	
854	CH_2CH_2	C_6H_5	CH_3	CH_3	CH-OMe	
855	CH=CH	C_6H_5	CH_3	CH_3	CH-OMe	
856	CH_2O	C_6H_5	CH_3	CH_3	CH-OMe	
857	OCH_2	C_6H_5	CH_3	CH_3	CH-OMe	
858	O	C_6H_5	CH_3	CH_3	CH-OMe	
859	C≡C	C_6H_5	CH_3	CH_3	CH-OMe	
860	S	C_6H_5	CH_3	CH_3	CH-OMe	
861	SCH_2	C_6H_5	CH_3	CH_3	CH-OMe	
862	CO-O	C_6H_5	CH_3	CH_3	CH-OMe	
863	O-CO	C_6H_5	CH_3	CH_3	CH-OMe	
864	CO-CH_2	C_6H_5	CH_3	CH_3	CH-OMe	
865	CH_2-CO	C_6H_5	CH_3	CH_3	CH-OMe	
866	OCH_2	C_6H_5	C_2H_5	CH_3	CH-OMe	
867	OCH_2	C_6H_5	C_3H_7	CH_3	CH-OMe	
868	CH_2CH_2	C_6H_5	H	H	CH-SCH_3	
869	CH=CH	C_6H_5	H	H	CH-SCH_3	
870	CH_2O	C_6H_5	H	H	CH-SCH_3	
871	OCH_2	C_6H_5	H	H	CH-SCH_3	
872	O	C_6H_5	H	H	CH-SCH_3	
873	CH_2CH_2	C_6H_5	CH_3	CH_3	CH-SCH_3	
874	CH=CH	C_6H_5	CH_3	CH_3	CH-SCH_3	
875	CH_2O	C_6H_5	CH_3	CH_3	CH-SCH_3	
876	OCH_2	C_6H_5	CH_3	CH_3	CH-SCH_3	

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Table (continuation)

No.	Y	R^1	R^4	R^5	W	Physical data
877	O	C_6H_5	CH_3	CH_3	CH-SCH_3	
878	CH_2CH_2	C_6H_5	CH_3	H	CH-SCH_3	
879	CH=CH	C_6H_5	CH_3	H	CH-SCH_3	
880	CH_2O	C_6H_5	CH_3	H	CH-SCH_3	
881	OCH_2	C_6H_5	CH_3	H	CH-SCH_3	
882	O	C_6H_5	CH_3	H	CH-SCH_3	
883	CO-OCH_2	1-Methylcyclopropyl	CH_3	H	CH-SCH_3	
884	C≡C	C_6H_5	CH_3	H	CH-SCH_3	
885	S	C_6H_5	CH_3	H	CH-SCH_3	
886	S-CH_2	C_6H_5	CH_3	H	CH-SCH_3	
887	CO-O	C_6H_5	CH_3	H	CH-SCH_3	
888	O-CO	C_6H_5	CH_3	H	CH-SCH_3	
889	CO-CH_2	C_6H_5	CH_3	H	CH-SCH_3	
890	CH_2-CO	C_6H_5	CH_3	H	CH-SCH_3	
891	O-CH_2	C_6H_5	OCH_3	H	CH-SCH_3	
892	O-CH_2	C_6H_5	OCH_3	CH_3	CH-SCH_3	

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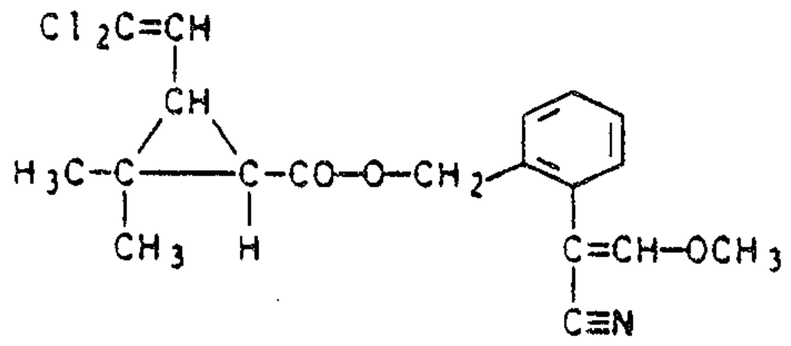
EXAMPLES OF USE

The comparison substance was



A

which is disclosed in EP-A 310 954 (compound No. 312; E/Z isomer mixture)

EXAMPLE 5

Activity against Plasmopara viticola

Leaves of potted vines of the Müller-Thurgau variety were sprayed with 0.025% by weight aqueous suspensions containing 80% by weight active ingredient (Examples 87, 89, 93, 96, 242, 252, 449, 494, 585 and 586 in the table) and 20% by weight emulsifier in dry matter. To assess the duration of action after the sprayed-on layer had dried, the plants were placed in a greenhouse for 8 days. The leaves were then infected with a suspension of Plasmopara viticola spores and the plants were placed in a chamber saturated with water vapor at 24°C for 48 hours. The vines were then grown in a greenhouse at from 20 to 30°C for 5 days and, to accelerate sporangiophore for discharge, again placed in the humidity chamber for 16 hours. The extent of the fungus attack was then assessed on the undersides of the leaves.

Compared with a control test (no treatment, 60% fungus attack) and the known comparison compound A (35% fungus attack) it was found that the fungus attack was only from 0 to 5% on the plants treated with active ingredients 87, 89, 93, 96, 242, 252, 449, 494, 585 and 586.

EXAMPLE 6

Activity against wheat mildew

Leaves of pot-grown wheat seedlings of the Frühgold variety were sprayed with 0.025% by weight

aqueous formulations which contained 80% by weight active ingredient (Examples 449 and 587 in the table) and 20% by weight emulsifier in dry matter, and, 24 hours after the sprayed-on layer had dried, dusted with spores of wheat mildew (Erysiphe graminis var. tritici). The test plants were then placed in a greenhouse at from 20 to 22°C and 75 to 80% relative humidity. The extent of mildew development was assessed after 7 days.

Compared with a control test (no treatment, 70% fungus attack) and the known comparison compound A (35% fungus attack) it was found that plants treated with active ingredients 449 and 587 had no fungus attack.

EXAMPLE 7

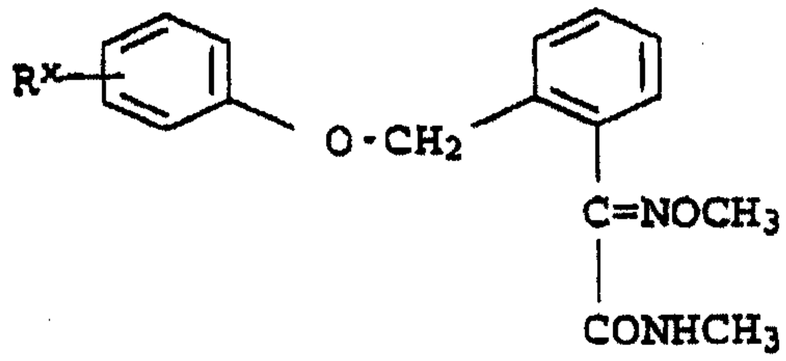
Activity against Pyricularia oryzae (preventive treatment)

Leaves of pot-grown rice seedlings of the Bahia variety were sprayed to run off with aqueous emulsions which contained 80% active ingredient and 20% emulsifier in dry matter and, 24 hours later, infected with an aqueous suspension of Pyricularia oryzae spores. The test plants were then placed in chambers at from 20 to 24°C and 95 to 99% relative humidity. The extent of fungus attack was determined after 6 days.

The result shows that active ingredients 242, 252, 449, 585 and 588 when used as 0.05% by weight aqueous formulation have a much better fungicidal action (93%) than the known comparison substance A (20%).

CLAIMS

1. An ortho-substituted phenylacetamides of the formula (I.1):

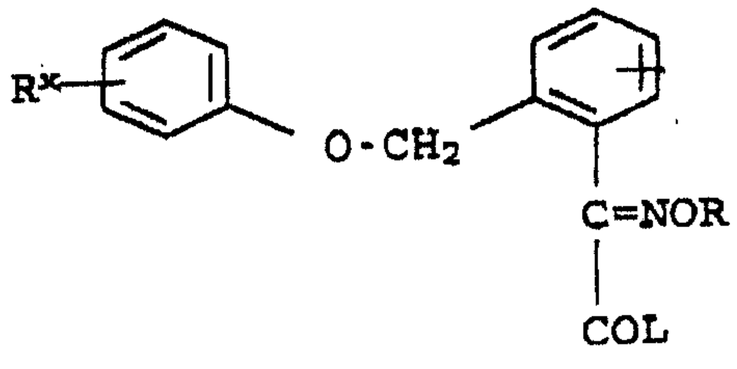


(I.1)

where R^x represents the following substituents or combinations of substituents:

2-fluoro, 3-fluoro, 2-bromo, 2-iodo, 2-methyl, 3-methyl, 2-methoxy, 2-trifluoromethyl, 4-trifluoro-methyl, 2-nitro, 4-nitro, 2-chloromethyl, 3-chloromethyl, 4-chloromethyl, 2-ethyl, 3-ethyl, 4-ethyl, 3-isopropyl, 4-isopropyl, 3-tert-butyl, 3-phenyl, 4-phenyl, 3,5-diethyl, 4-cyclohexyl, 4-iso-propyloxy, 4-tert-butyloxy, 4-phenoxy, 3-benzyloxy, 4-benzyloxy, 2,3-dichloro, 2,5-dichloro, 2,6-dichloro, 2,3,4-trichloro, 2,3,5-trichloro, 2,3,6-trichioro, 3,4,5-trichloro, pentachloro, pentafluoro, 2-fluoro-4-chloro, 4-fluoro-2-chloro, 2-methyl-4-tert-butyl, 2-methyl-4-cyclohexyl, 2-methyl-4-propyl, 2,3-dimethyl, 2,4-dimethyl, 2,5-dimethyl, 3,4-dimethyl, 3,5-dimethyl, 2,3,5-trimethyl or 2,4,6-trimethyl.

2. A process for preparing a compound of the formula (I.1) as defined in claim 1, which comprises reacting a phenylacetic acid derivative of the formula (II):

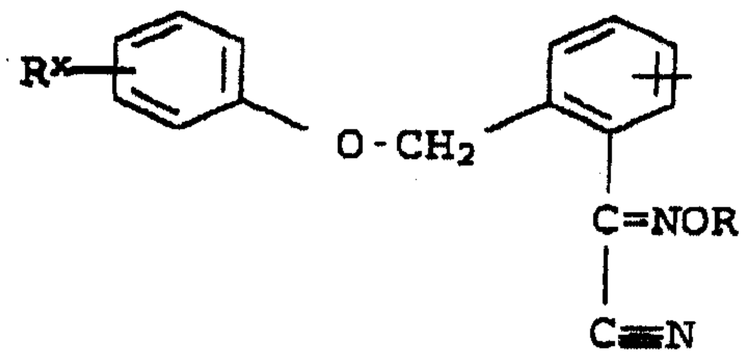


(II)

where L is halogen or C_1-C_4-alkoxy, R^x is defined as in claim 1 and R is methyl, with methylamine.

3. A process as claimed in claim 2, wherein the reaction is carried out in the presence of a base.

4. A process for preparing a compound of the formula (I.1) as defined in claim 1, which comprises hydrolyzing a phenylacetonitrile of the formula (IV):



(IV)

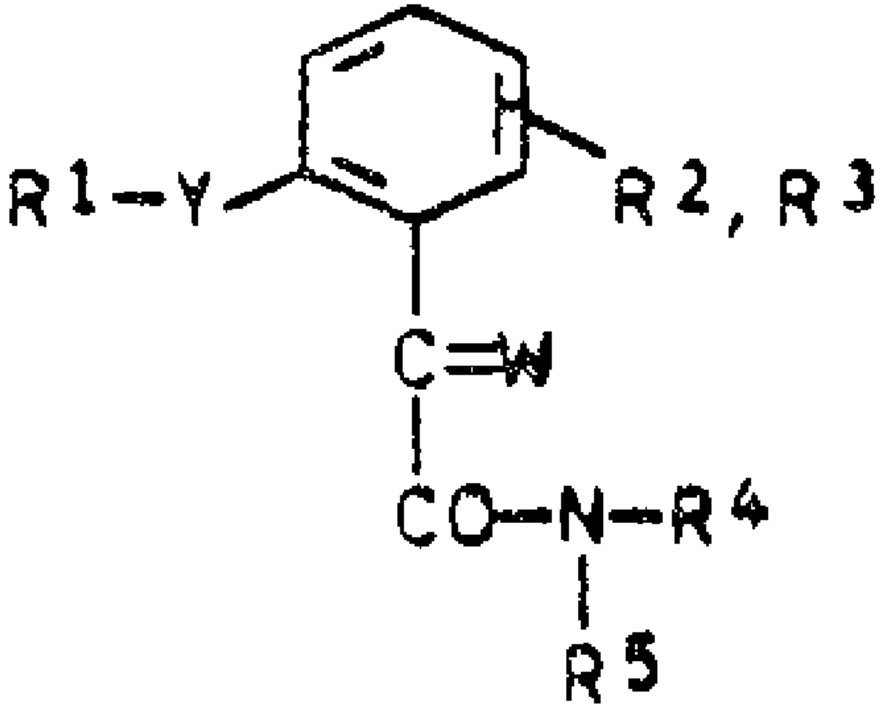
R^x is defined as in claim 1 and R is methyl,
in the presence of an acid or base, and alkylating the product once on the amide nitrogen.

5. A fungicidal composition containing a liquid or solid carrier and a fungicidally effective amount of at least one compound of the formula (I.1) as defined in claim 1.

6. A pesticidal composition containing an inert carrier and at least one compound of the formula (I.1) as defined in claim 1.

7. A method for controlling fungi, which comprises exposing the fungi, the plants threatened by fungal attack, their habitat or the seed of the threatened plants to a fungicidally effective amount of a compound of the formula (I.1) as defined in claim 1.

8. A phenylacetonitrile of the formula IV as set-forth in claim 4.



(I)