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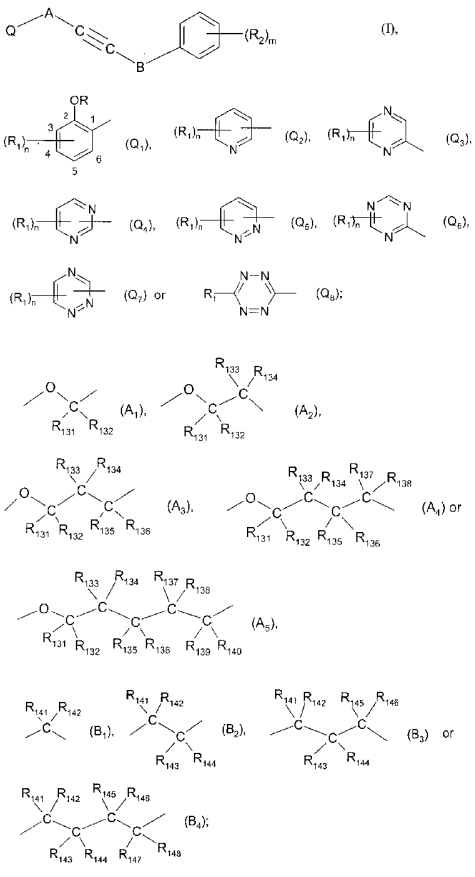
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[Continued on next page]

(54) Title: NOVEL HERBICIDES



(57) Abstract: Compounds of formula (I), wherein Q is a group Q_1, Q_2, Q_3, Q_4, Q_5, Q_6, Q_7 or Q_8; A is a bridging member A_1, A_2, A_3, A_4 or A_5 wherein the bridging members A_1 to A_5 are linked to the group Q at the end carrying the oxygen atom; B either is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring or is a bridging menber B_1, B_2, B_3 or B_4; R, R_1, R_2, R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140}, R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} and the suffixes n and m are as defined in claim 1, and also the N-oxides of the groups Q_2, Q_3, Q_4, Q_5, Q_6, Q_7 and Q_8, the agrochemically acceptable salts and all stereoisomers and tautomers of the compounds of formula (I), with the proviso that, when B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring, the bridging member A is other than A_1, are suitable for use as herbicides.

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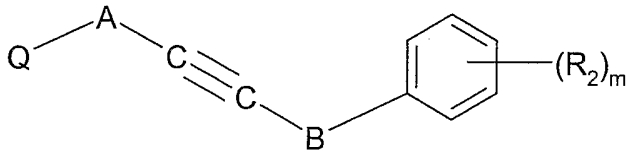
NOVEL HERBICIDES

The present invention relates to novel, herbicidally active phenyl-alkynes, to processes for their preparation, to compositions comprising those compounds, and to their use in controlling weeds, especially in crops of useful plants, or in inhibiting plant growth.

Phenyl-alkynes having herbicidal action are described, for example, in JP-A-11 147 866, WO 01/55066 and WO 02/28182.

Novel phenyl-alkynes that have herbicidal and growth-inhibiting properties have now been found.

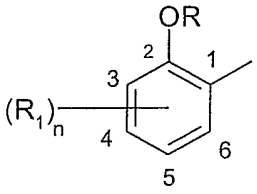
The present invention accordingly relates to compounds of formula I



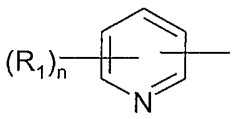
(I),

wherein

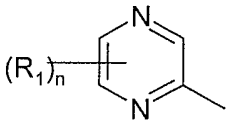
Q is a group



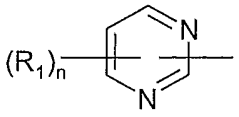
(Q_1),



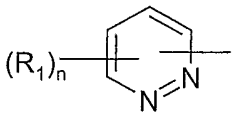
(Q_2),



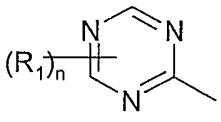
(Q_3),



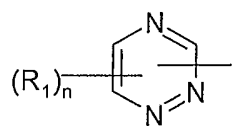
(Q_4),



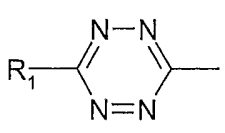
(Q_5),



(Q_6),



(Q_7) or



(Q_8);

n is 0, 1, 2, 3 or 4;

R is hydrogen, COR_{12}, $-S(O)_qC_1$-C_8alkyl, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl or C_3-C_6cycloalkyl; or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN, $-S(O)_qC_1$-C_8alkyl and phenyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$ and $-S(O)_qC_1$-C_8alkyl, or

R is C_3-C_6cycloalkyl substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN and phenyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN, $-NO_2$ and $-S(O)_qC_1$-C_8alkyl, or

R is phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and methyl and/or once, twice or three times by substituents selected from $-CF_3$, $-OCH_3$, -CN, $-NO_2$ and $-S(O)_qC_1$-C_4alkyl; or,

when n is 0, 1, 2 or 3,

R forms a C_1-C_6alkylene or C_2-C_6alkenylene bridge attached to the phenyl ring in the 3-position, which bridge may be interrupted by an oxygen atom and/or may be substituted by C_1-C_6alkyl, an oxygen-oxygen bond being excluded and the total number of ring atoms being at least 5 and at most 9;

each R_1 independently of any other(s) may be halogen, -CN, -SCN, $-SF_5$, $-NO_2$, $-NR_5R_6$, $-CO_2R_7$, $-CONR_8R_9$, $-C(R_{10})=NOR_{11}$, $-COR_{12}$, $-OR_{13}$, $-SR_{14}$, $-SOR_{15}$, $-SO_2R_{16}$, $-OSO_2R_{17}$, C_1-C_8alkyl, C_2-C_8alkenyl, C_2-C_8alkynyl or C_3-C_6cycloalkyl; or is C_1-C_8alkyl, C_2-C_8alkenyl or C_2-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-NO_2$, $-NR_{18}R_{19}$, $-CO_2R_{20}$, $-CONR_{21}R_{22}$, $-COR_{23}$, $-C(R_{24})=NOR_{25}$, $-C(S)NR_{26}R_{27}$, $-C(C_1$-C_4alkylthio$)=NR_{28}$, $-OR_{29}$, $-SR_{30}$, $-SOR_{31}$, $-SO_2R_{32}$ and C_3-C_6cycloalkyl; and/or

each R_1 independently of any other(s) may be C_3-C_6cycloalkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-NO_2$, $-NR_{18}R_{19}$, $-CO_2R_{20}$, $-CONR_{21}R_{22}$, $-COR_{23}$, $-C(R_{24})=NOR_{25}$, $-C(S)NR_{26}R_{27}$, $-C(C_1$-C_4alkylthio$)=NR_{28}$, $-OR_{29}$, $-SR_{30}$, $-SOR_{31}$, $-SO_2R_{32}$ and C_3-C_6cycloalkyl; and/or

each R_1 independently of any other(s) may be phenyl which may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or,

when Q is a group Q_1, Q_2, Q_3, Q_4, Q_5 or Q_7, two adjacent R_1 radicals may together form a C_1-C_7alkylene or C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9;

R_5 is hydrogen or C_1-C_8alkyl;

R_6 is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl, or

R_6 is C_1-C_8alkylcarbonyl, wherein the C_1-C_8alkyl chain may in turn be substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy; or

R_5 and R_6 together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_7 is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_8 and R_9 are each independently of the other hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_8 and R_9 are each independently of the other C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by

substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_8 and R_9 together are C_2-C_5alkylene;

R_{10} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{11} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{12} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{13} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl; or

R_{13} is phenyl or phenyl-C_1-C_6alkyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl; or

R_{13} is C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy, or

R_{13} is C_1-C_8alkylcarbonyl, wherein the C_1-C_8alkyl chain may in turn be substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{14} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{15}, R_{16} and R_{17} are each independently of the others C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{18} is hydrogen or C_1-C_8alkyl;

R_{19} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{18} and R_{19} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{20} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{21} is hydrogen or C_1-C_8alkyl;

R_{22} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{22} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{21} and R_{22} together are C_2-C_5alkylene;

R_{23} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{24} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{25} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{26} is hydrogen or C_1-C_8alkyl;

R_{27} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{27} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{26} and R_{27} together are C_2-C_5alkylene;

R_{28} is hydrogen or C_1-C_8alkyl;

R_{29} and R_{30} are each independently of the other hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{31} and R_{32} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

m is 0, 1, 2, 3, 4 or 5;

each R_2 independently of any other(s) may be halogen, -CN, -SCN, -OCN, $-N_3$, $-SF_5$, $-NO_2$, $-NR_{33}R_{34}$, $-CO_2R_{35}$, $-CONR_{36}R_{37}$, $-C(R_{38})=NOR_{39}$, $-COR_{40}$, $-OR_{41}$, $-SR_{42}$, $-SOR_{43}$, $-SO_2R_{44}$, $-OSO_2R_{45}$, $-N([CO]_pR_{46})COR_{47}$, $-N(OR_{54})COR_{55}$, $-N(R_{56})SO_2R_{57}$, $-N(SO_2R_{58})SO_2R_{59}$, $-N=C(OR_{60})R_{61}$, $-CR_{62}(OR_{63})OR_{64}$, $-OC(O)NR_{65}R_{66}$, $-SC(O)NR_{67}R_{68}$, $-OC(S)NR_{69}R_{70}$ or -N-phthalimide; and/or

R_2 may be a 5- to 7-membered heterocyclic ring system which may be aromatic or partially or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur, which heterocyclic ring system may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, hydroxy-C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, -CN, $-NO_2$, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl and C_1-C_6alkylsulfonyl;

R_{33} is hydrogen or C_1-C_8alkyl; and

R_{34} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl, or

R_{34} is C_1-C_8alkylcarbonyl unsubstituted or substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy; or

R_{33} and R_{34} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{35} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{36} is hydrogen or C_1-C_8alkyl;

R_{37} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{37} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{36} and R_{37} together are C_3-C_5alkylene;

R_{38} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{39} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{40} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_8alkylthio, -C(O)-C(O)OC_1-C_4alkyl or C_3-C_6cycloalkyl;

R_{41} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_6alkoxy-C_1-C_6alkyl, C_1-C_8alkylcarbonyl, C_1-C_8haloalkylcarbonyl, C_1-C_8alkoxycarbonyl, C_3-C_8alkenyloxycarbonyl, C_1-C_6alkoxy-C_1-C_6alkoxycarbonyl, C_1-C_6alkylthio-C_1-C_6alkyl, C_1-C_6alkylsulfinyl-C_1-C_6alkyl or C_1-C_6alkylsulfonyl-C_1-C_6alkyl; or

R_{41} is phenyl or phenyl-C_1-C_6alkyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$ and -S(O)$_2$$C_1$-$C_8$alkyl, or

R_{41} is C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and -CN;

R_{42} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{43} and R_{44} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{45} is C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy, or

R_{45} is phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, NO_2, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{46} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl or C_1-C_4haloalkyl;

R_{47} is hydrogen, C_1-C_8alkyl, C_1-C_4alkoxy, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, C_1-C_4alkoxy, C_1-C_8alkoxycarbonyl, $-NH_2$, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NR_{48}COR_{49}$, $-NR_{50}SO_2R_{51}$ and $-NR_{52}CO_2R_{53}$, or

R_{47} is phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

p is 0 or 1;

R_{48}, R_{49}, R_{50}, R_{51}, R_{52} and R_{53} are each independently of the others hydrogen, C_1-C_8alkyl, phenyl, benzyl or naphthyl, wherein the three last-mentioned aromatic radicals may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_8alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{54} and R_{55} are each independently of the other hydrogen, C_1-C_8alkyl or phenyl which may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{56} is hydrogen, C_1-C_8alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy, C_3-C_8alkenyl, C_3-C_8alkynyl or benzyl, wherein benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{57} is C_1-C_8alkyl, C_1-C_4haloalkyl, phenyl, benzyl or naphthyl, wherein the latter three aromatic rings may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{58} and R_{59} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl, benzyl or naphthyl, wherein the latter three aromatic rings may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{60} and R_{61} are each independently of the other hydrogen or C_1-C_6alkyl;

R_{62}, R_{63} and R_{64} are each independently of the others hydrogen or C_1-C_8alkyl, or

R_{63} and R_{64} together form a C_2-C_5alkylene bridge;

R_{65}, R_{66}, R_{67}, R_{68}, R_{69} and R_{70} are each independently of the others hydrogen or C_1-C_8alkyl, or

R_{65} and R_{66}, or R_{67} and R_{68}, or R_{69} and R_{70} together in each case form a C_2-C_5alkylene bridge; and/or

each R_2 independently of any other(s) may be C_1-C_8alkyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-N_3$, -SCN, $-NO_2$, $-NR_{71}R_{72}$, $-CO_2R_{73}$, $-CONR_{74}R_{75}$, $-COR_{76}$, $-C(R_{77})=NOR_{78}$, $-C(S)NR_{79}R_{80}$, $-C(C_1$-C_4alkylthio$)=NR_{81}$, $-OR_{82}$, $-SR_{83}$, $-SOR_{84}$, $-SO_2R_{85}$, $-O(SO_2)R_{86}$, $-N(R_{87})CO_2R_{88}$, $-N(R_{89})COR_{90}$, $-S^+(R_{91})_2$, $-N^+(R_{92})_3$, $-Si(R_{93})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_1-C_8alkyl substituted by a 5- to 7-membered heterocyclic ring system which may be aromatic or partially or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur, wherein that heterocyclic ring system may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, hydroxy-C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, -CN, $-NO_2$, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl and C_1-C_6alkylsulfonyl; and/or

each R_2 independently of any other(s) may be C_2-C_8alkenyl, or C_2-C_8alkenyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NO_2, -CO_2R_{94}, -$CONR_{95}R_{96}$, -COR_{97}, -$C(R_{98})$=NOR_{99}, -$C(S)NR_{100}R_{101}$, -$C(C_1$-C_4alkylthio)=NR_{102}, -OR_{103}, -$Si(R_{104})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_2-C_8alkynyl, or C_2-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -CO_2R_{105}, -$CONR_{106}R_{107}$, -COR_{108}, -$C(R_{109})$=NOR_{110}, -$C(S)NR_{111}R_{112}$, -$C(C_1$-C_4alkylthio)=NR_{113}, -OR_{114}, -$Si(R_{115})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_3-C_6cycloalkyl, or C_3-C_6cycloalkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -CO_2R_{116}, -$CONR_{117}R_{118}$, -COR_{119}, -$C(R_{120})$=NOR_{121}, -$C(S)NR_{122}R_{123}$ and -$C(C_1$-C_4alkylthio)=NR_{124}; and/or

two adjacent R_2 radicals together may form a C_1-C_7alkylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9; and/or

two adjacent R_2 radicals together may form a C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9;

R_{71} is hydrogen or C_1-C_8alkyl;

R_{72} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{71} and R_{72} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{73} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{74} is hydrogen or C_1-C_8alkyl;

R_{75} is hydrogen, C_1-C_8alkyl or C_3-C_7cycloalkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl, C_1-C_6alkoxy and -CN; or

R_{75} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{74} and R_{75} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{76} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{77} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{78} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl; and

R_{79} is hydrogen or C_1-C_8alkyl;

R_{80} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{80} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{79} and R_{80} together are C_2-C_5alkylene;

R_{81} is hydrogen or C_1-C_8alkyl;

R_{82} is -Si(C_1-C_6alkyl)$_3$, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NH_2, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{83} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NH_2, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{84}, R_{85} and R_{86} are each independently of the others C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{87} and R_{89} are each independently of the other hydrogen, C_1-C_8alkyl or C_1-C_8alkoxy;

R_{88} is C_1-C_8alkyl;

R_{90} is hydrogen or C_1-C_8alkyl;

R_{91} is C_1-C_4alkyl;

R_{92} and R_{93} are each independently of the other C_1-C_6alkyl;

R_{94} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{95} is hydrogen or C_1-C_8alkyl;

R_{96} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{96} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{95} and R_{96} together are C_2-C_5alkylene;

R_{97} and R_{98} are each independently of the other hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{99} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{100} is hydrogen or C_1-C_8alkyl;

R_{101} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{101} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{100} and R_{101} together are C_2-C_5alkylene;

R_{102} is hydrogen or C_1-C_8alkyl;

R_{103} is hydrogen, C_1-C_8alkyl, -Si(C_1-C_6alkyl)$_3$, C_3-C_8alkenyl or C_3-C_8alkynyl;

R_{104} is C_1-C_6alkyl;

R_{105} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{106} is hydrogen or C_1-C_8alkyl;

R_{107} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{107} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{106} and R_{107} together are C_2-C_5alkylene;

R_{108} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{109} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{110} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{111} is hydrogen or C_1-C_8alkyl;

R_{112} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{112} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{111} and R_{112} together are C_2-C_5alkylene;

R_{113} is hydrogen or C_1-C_8alkyl;

R_{114} is hydrogen, C_1-C_8alkyl, $-Si(C_1$-C_6alkyl$)_3$, C_3-C_8alkenyl or C_3-C_8alkynyl;

R_{115} is C_1-C_6alkyl;

R_{116} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{117} is hydrogen or C_1-C_8alkyl;

R_{118} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{118} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{117} and R_{118} together are C_2-C_5alkylene;

R_{119} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{120} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{121} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{122} is hydrogen or C_1-C_8alkyl;

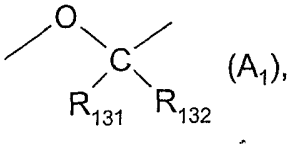
R_{123} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{123} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

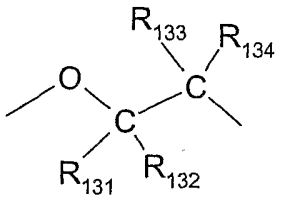
R_{122} and R_{123} together are C_2-C_5alkylene; and

R_{124} is hydrogen or C_1-C_8alkyl;

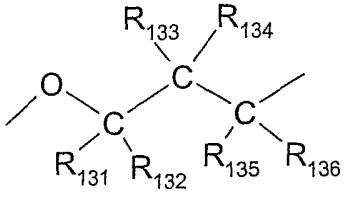
A is a bridging member A_1, A_2, A_3, A_4 or A_5



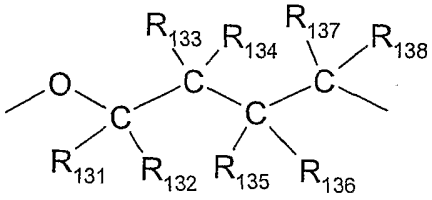
(A_1),



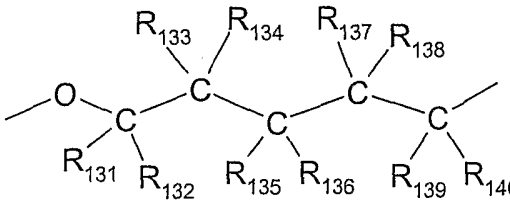
(A_2),



(A_3),



(A_4) or



(A_5),

wherein the bridging members A_1 to A_5 are linked to the group Q at the end carrying the oxygen atom;

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} are each independently of the others hydrogen, halogen, -CN, $-NO_2$, $-N(R_{200})R_{201}$, C_1-C_6alkyl, C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_3-C_6alkenyloxy, C_3-C_6haloalkenyloxy, C_3-C_6alkynyloxy, C_3-C_8cycloalkyl, C_3-C_8halocycloalkyl, $-C(O)OR_{202}$, $-C(O)NR_{203}R_{204}$, $-C(S)NR_{205}R_{206}$, $-COR_{207}$, $-CSR_{208}$, $-C(R_{209})=NOR_{210}$, $-OC(O)R_{211}$, $-OC(O)OR_{212}$, $-SC(O)R_{213}$, $-SC(O)OR_{214}$, $-OC(S)SR_{215}$, $-SC(S)SR_{216}$, $-OSO_2C_1$-C_6alkyl, $-OSO_2C_1$-C_6haloalkyl, -SH, $-S(O)_qC_1$-C_6alkyl or $-S(O)_qC_1$-C_6haloalkyl, and/or

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} may be each independently of the others C_1-C_6alkyl or C_1-C_6alkoxy each of which is substituted once, twice or three times by substituents selected from -CN, $C(O)OR_{217}$, -CHO, $-COR_{218}$, $-C(O)NR_{219}R_{220}$, $-C(S)NR_{221}R_{222}$, $-C(R_{223})=NOR_{224}$, $-N(R_{225})R_{226}$, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -SH, $-S(O)_qC_1$-C_6alkyl, $-S(O)_qC_1$-C_6haloalkyl, $-Si(C_1$-C_6alkyl$)_3$, $-Si(C_1$-C_6alkyl$)_r$(phenyl$)_s$ and phenyl, wherein each phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, $-COR_{227}$, $-COOR_{228}$, $-NO_2$, $-N(R_{229})R_{230}$, -SH, $-S(O)_qC_1$-C_6alkyl and $-S(O)_qC_1$-C_6haloalkyl; and/or

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} may be each independently of the others phenyl or phenyl substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, $-COR_{227}$, $-COOR_{228}$, $-NO_2$, $-N(R_{229})R_{230}$, -SH, $-S(O)_qC_1$-C_6alkyl and $-S(O)_qC_1$-C_6haloalkyl;

R_{200} and R_{201} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and $-COR_{227}$;

R_{202} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{203} and R_{204} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and $-COR_{227}$;

R_{205} and R_{206} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

R_{207} and R_{208} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{209} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{210} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{211} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{212} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected

from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{213} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{214}, R_{215} and R_{216} are each independently of the others hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{217} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{218} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{219} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{220} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from

C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{221} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{222} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{223} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{224} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{225} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{226} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from

C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{227} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{228} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{229} and R_{230} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

q is 0, 1 or 2;

r and s are 0, 1, 2 or 3, the sum of [r + s] being 3; or any one or more of those pairs of substituents R_{133} to R_{140} which are bonded to the same carbon atom together may form, each independently of any other(s), the function =O, =S, =NOR_{231} or =$NN(R_{232})R_{233}$;

R_{231} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{232} and R_{233} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or

three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}; or

R_{131} and R_{132} together, R_{133} and R_{134} together, R_{135} and R_{136} together, R_{137} and R_{138} together and/or R_{139} and R_{140} together, each independently of any other(s), may form a C_2-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

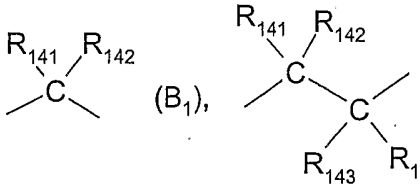
R_{131} and R_{133} together, R_{133} and R_{135} together, R_{135} and R_{137} together, and/or R_{137} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

R_{131} and R_{135} together, R_{133} and R_{137} together, and/or R_{135} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

R_{131} and R_{137} together, R_{133} and R_{139} together, and/or R_{131} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl,

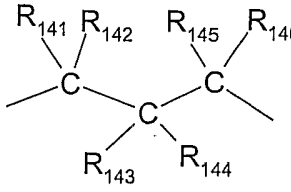
with the proviso that for R_{131} and R_{132} the meanings -OH, -SH and -$N(R_{200})R_{201}$ wherein R_{200} and R_{201} are hydrogen are excluded;

B either is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring or is a bridging member B_1, B_2, B_3 or B_4

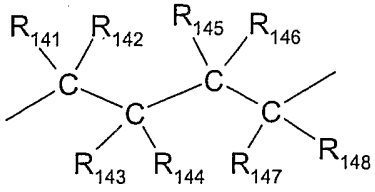


(B_1),

(B_2),



(B_3) or



(B_4);

R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} are each independently of the others hydrogen, halogen, -CN, -NO_2, -$N(R_{200})R_{201}$, C_1-C_6alkyl, C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_3-C_6alkenyloxy, C_3-C_6haloalkenyloxy, C_3-C_6alkynyloxy, C_3-C_8cycloalkyl, C_3-C_8halocycloalkyl, -$C(O)OR_{202}$, -$C(O)NR_{203}R_{204}$, -$C(S)NR_{205}R_{206}$, -COR_{207}, -CSR_{208}, -$C(R_{209})$=NOR_{210}, -$OC(O)R_{211}$, -$OC(O)OR_{212}$, -$SC(O)R_{213}$, -$SC(O)OR_{214}$, -$OC(S)SR_{215}$, -$SC(S)SR_{216}$, -OSO_2C_1-C_6alkyl, -OSO_2C_1-C_6haloalkyl, -SH, -$S(O)_qC_1$-C_6alkyl or -$S(O)_qC_1$-C_6haloalkyl, and/or

R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} may be each independently of the others C_1-C_6alkyl or C_1-C_6alkoxy each of which is substituted once, twice or three times by substituents selected from -CN, $C(O)OR_{217}$, -CHO, -COR_{218}, -$C(O)NR_{219}R_{220}$, -$C(S)NR_{221}R_{222}$, -$C(R_{223})$=NOR_{224}, -$N(R_{225})R_{226}$, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -SH, -$S(O)_qC_1$-C_6alkyl, -$S(O)_qC_1$-C_6haloalkyl, -$Si(C_1$-C_6alkyl$)_3$, -$Si(C_1$-C_6alkyl$)_r$(phenyl)$_s$ and phenyl, wherein each phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl, wherein R_{200} to R_{230}, q, r and s are as defined hereinbefore; and/or

R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} may be each independently of the others phenyl or phenyl substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl; or any one or more of those pairs of substituents R_{141} to R_{148} which are bonded to the same carbon atom together may form, each independently of any other(s), the function =O, =S, =NOR_{231} or =$NN(R_{232})R_{233}$, wherein R_{231} to R_{233} are as defined hereinbefore; and/or

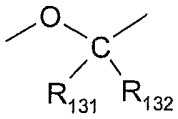
R_{141} and R_{142} together, R_{143} and R_{144} together, R_{145} and R_{146} together, and/or R_{147} and R_{148} together, each independently of any other(s), may form a C_2-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

R_{141} and R_{143} together, R_{143} and R_{145} together, and/or R_{145} and R_{147} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each

of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

R_{141} and R_{145} together, R_{143} and R_{147} together, and/or R_{141} and R_{147} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl,

and also to the compounds of formula I containing N-oxides of the groups Q_2, Q_3, Q_4, Q_5, Q_6, Q_7 and Q_8, the agrochemically acceptable salts and all stereoisomers and tautomers of the compounds of formula I, with the proviso that, when B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring, the bridging member A is other than



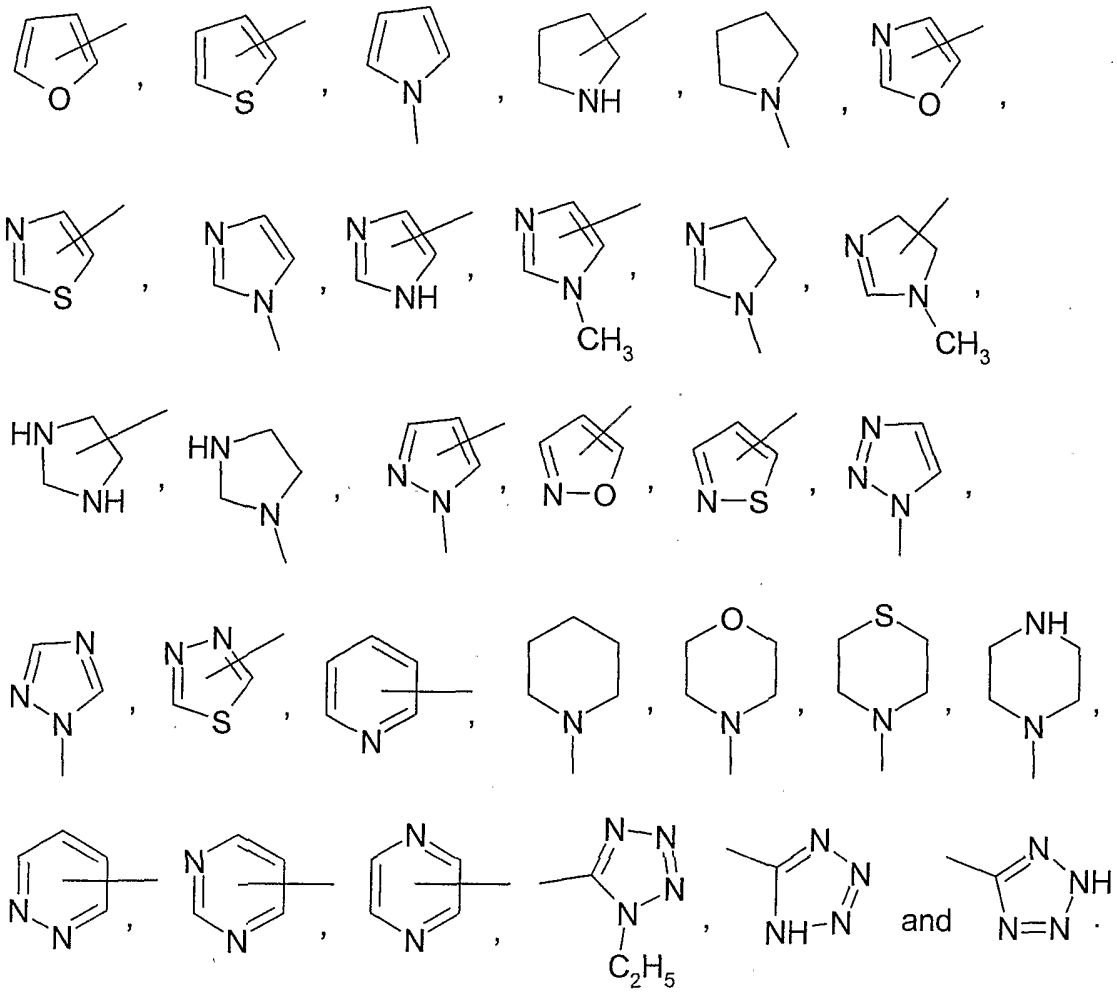
(A_1).

When n is 0, all free valencies on the aromatic and heteroaromatic groups Q_1 to Q_8 of the compounds of formula I are occupied by hydrogen.

When m is 0, all free valencies on the phenyl ring of the compounds of formula I are occupied by hydrogen.

Examples of substituents that are formed as a result of R_5 and R_6 together, or R_{18} and R_{19} together, or R_{33} and R_{34} together, or R_{71} and R_{72} together, or R_{74} and R_{75} together being a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom are piperidine, morpholine, thiomorpholine and pyrrolidine.

Examples of 5- to 7-membered heterocyclic ring systems which may be aromatic or partially or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur in the definition of R_2 are:



The alkyl groups appearing in the substituent definitions may be straight-chained or branched and are, for example, methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl and the pentyl, hexyl, heptyl and octyl isomers.
Preference is given to methyl, ethyl, n-propyl, isopropyl and n-butyl.

Halogen is fluorine, chlorine, bromine or iodine, preferably fluorine, chlorine or bromine.

Haloalkyl is, for example, fluoromethyl, difluoromethyl, trifluoromethyl, chloromethyl, dichloromethyl, trichloromethyl, 2,2,2-trifluoroethyl, 2-fluoroethyl, 2-chloroethyl, pentafluoroethyl, 1,1-difluoro-2,2,2-trichloroethyl, 2,2,3,3-tetrafluoroethyl or 2,2,2-trichloroethyl; preferably trichloromethyl, difluorochloromethyl, difluoromethyl, trifluoromethyl or dichlorofluoromethyl.
In general, in cases where halogen is fluorine it is intended that, in addition to the specific definition "alkyl substituted from one to five times by halogen", perfluorinated

alkyl groups are also included; for example, in the definitions of R_1 and R_2 "C_1-C_8alkyl substituted from one to five times by halogen" it is intended in addition that the perfluorinated alkyl groups are also included.

Where the number of halogen substituents on alkyl radicals is not specified, for example in the definitions of R_6, R_{13} and R_{34} "C_1-C_8alkylcarbonyl substituted by halogen" and in the definition of R_{41} "C_1-C_8haloalkylcarbonyl", when halogen is chlorine, bromine and/or iodine C_1-C_8alkylcarbonyl is substituted from one to five times but, when halogen is fluorine, it may be additionally substituted until perfluorinated.

The other substituents which are not halogen, such as, for example, -CN, C_1-C_6alkylamino or C_1-C_4alkoxy, may occur on alkyl radicals once, twice or three times.

As haloalkenyl, alkenyl groups substituted one or more times by halogen are suitable, halogen being in particular bromine, iodine or, especially, fluorine or chlorine, for example 2- and 3-fluoropropenyl, 2- and 3-chloropropenyl, 2- and 3-bromopropenyl, 2,3,3-trifluoropropenyl, 2,3,3-trichloropropenyl, 4,4,4-trifluorobut-2-en-1-yl and 4,4,4-trichlorobut-2-en-1-yl. Among the alkenyl radicals substituted once, twice or three times by halogen, preference is given to those which have a chain length of 3 or 4 carbon atoms. The alkenyl groups may be halo-substituted at saturated or unsaturated carbon atoms.

Alkoxy groups have a chain length of preferably from 1 to 6, especially from 1 to 4, carbon atoms. Alkoxy is, for example, methoxy, ethoxy, propoxy, isopropoxy, n-butoxy, isobutoxy, sec-butoxy or tert-butoxy, or the pentyloxy and hexyloxy isomers; preferably methoxy or ethoxy.

Alkoxy, alkenyl, alkynyl, alkoxyalkyl, alkylthio, alkylsulfonyl, alkylsulfinyl, alkylthio-alkyl, alkylsulfinyl-alkyl, alkylsulfonyl-alkyl, alkylaminoalkoxy, alkoxycarbonyl, alkoxy-alkoxycarbonyl, alkenyloxycarbonyl, alkylcarbonyloxy, alkenylthio, alkenylsulfonyl, alkenylsulfinyl, alkynylsulfonyl, alkynylthio and alkynylsulfinyl groups are derived from the mentioned alkyl radicals. The alkenyl and alkynyl groups may be straight-chained or branched and mono- or poly-unsaturated. Alkenyl is, for example, vinyl, allyl, methallyl, 1-methylvinyl, but-2-en-1-yl, pentenyl or 2-hexenyl, preferably an alkenyl radical having a chain length of from 2 to 5 carbon atoms.

Alkynyl is, for example, ethynyl, propargyl, 1-methylpropargyl, 3-butynyl, but-2-yn-1-yl, 2-methylbutyn-2-yl or but-3-yn-2-yl, preferably an alkynyl radical having a chain length of 3 or 4 carbon atoms.

Alkylthio groups preferably have a chain length of from 1 to 4 carbon atoms. Alkylthio is, for example, methylthio, ethylthio, propylthio, isopropylthio, n-butylthio, isobutylthio, sec-butylthio or tert-butylthio, preferably methylthio or ethylthio. Alkylsulfinyl is, for example, methylsulfinyl, ethylsulfinyl, propylsulfinyl, isopropylsulfinyl, n-butylsulfinyl, isobutylsulfinyl, sec-butylsulfinyl or tert-butylsulfinyl; preferably methylsulfinyl or ethylsulfinyl. Alkylsulfonyl is, for example, methylsulfonyl, ethylsulfonyl, propylsulfonyl, isopropylsulfonyl, n-butylsulfonyl, isobutylsulfonyl, sec-butylsulfonyl or tert-butylsulfonyl; preferably methylsulfonyl or ethylsulfonyl.

Hydroxyalkyl is, for example, 2-hydroxyethyl, 3-hydroxypropyl or 2,3-dihydroxypropyl.

Haloalkoxy is, for example, fluoromethoxy, difluoromethoxy, trifluoromethoxy, 2,2,2-trifluoroethoxy, 1,1,2,2-tetrafluoroethoxy, 2-fluoroethoxy, 2-chloroethoxy or 2,2,2-trichloroethoxy.

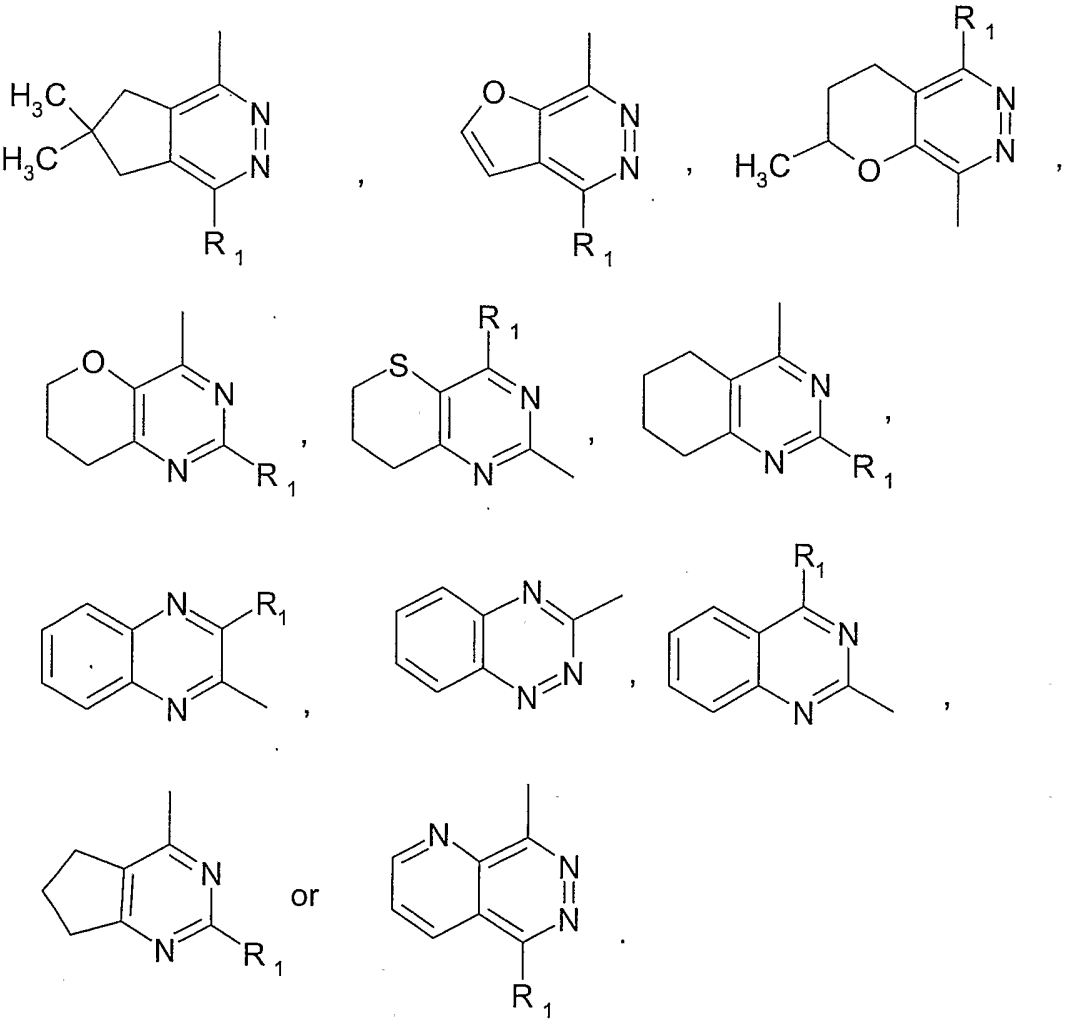
Alkoxyalkyl groups preferably have from 1 to 6 carbon atoms. Alkoxyalkyl is, for example, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, n-propoxymethyl, n-propoxyethyl, isopropoxymethyl or isopropoxyethyl.

Cycloalkyl radicals that are suitable as substituents are, for example, cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl.
The cycloalkyl groups may be unsubstituted or substituted a number of times by halogen, especially from once to four times by fluorine, chlorine and/or bromine, for example, difluorocyclopropyl, dichlorocyclopropyl, dibromocyclopropyl, 2,2,3,3-tetrafluorocyclobutyl and 2,2-difluoro-3,3-dichlorocyclobutyl.

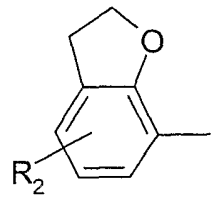
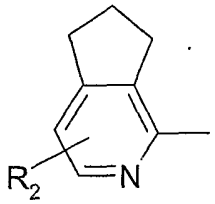
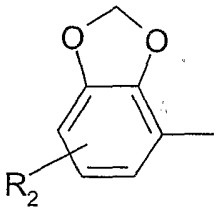
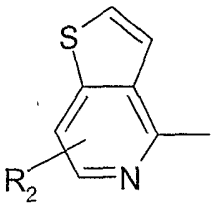
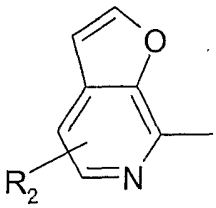
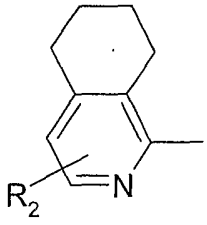
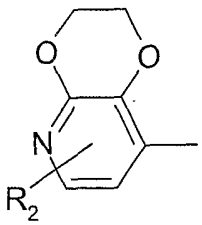
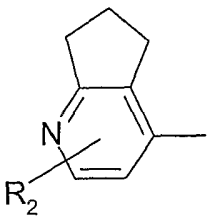
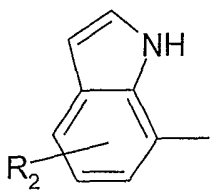
Alkylamino is, for example, methylamino, ethylamino, n-propylamino, isopropylamino or the butylamino isomers.

Dialkylamino is, for example, dimethylamino, diethylamino or the dipropyl- or dibutylamino isomers.

Substituents where two adjacent R_1 substituents (on the group Q_1, Q_2, Q_3, Q_4, Q_5 or Q_7) together form a C_1-C_7alkylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or which may be substituted from one to five times by halogen and/or by C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9, or where two adjacent R_1 substituents together form a C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or which may be substituted from one to five times by halogen and/or by C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9, have, for example, the following structures:



Substituents where two adjacent R_2 substituents together form a C_1-C_7alkylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9, or where two adjacent R_2 substituents together form a C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9, have, for example, the following structures:


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or

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Meanings corresponding to those indicated above may also be given to the substituents in combined definitions, for example alkoxycarbonyl, alkoxy-alkoxycarbonyl, alkylsulfonyl-alkyl, $-N(R_{56})SO_2R_{57}$, $-OC(S)NR_{69}R_{70}$, $-C(R_{38})=NOR_{39}$, $-NR_{50}SO_2R_{51}$ and $-NR_{52}CO_2R_{53}$.

In the definitions for alkylcarbonyl, alkoxycarbonyl and alkenyloxycarbonyl, the carbon atom of the carbonyl is not included in the lower and upper limits given for the number of carbons in each particular case.

The invention relates also to the salts which the compounds of formula I are able to form preferably with amines, alkali metal and alkaline earth metal bases or quaternary ammonium bases. Suitable salt formers are described, for example, in WO 98/41089.

Among the alkali metal and alkaline earth metal hydroxides as salt formers, special mention should be made of the hydroxides of lithium, sodium, potassium, magnesium and calcium, but especially the hydroxides of sodium and potassium.

Examples of amines suitable for ammonium salt formation include ammonia as well as primary, secondary and tertiary C_1-C_{18}alkylamines, C_1-C_4hydroxyalkylamines and C_2-C_4alkoxyalkylamines, for example methylamine, ethylamine, n-propylamine, isopropylamine, the four butylamine isomers, n-amylamine, isoamylamine, hexylamine, heptylamine, octylamine, nonylamine, decylamine, pentadecylamine, hexadecylamine, heptadecylamine, octadecylamine, methyl-ethylamine, methyl-isopropylamine, methyl-hexylamine, methyl-nonylamine, methyl-pentadecylamine, methyl-octadecylamine, ethyl-butylamine, ethyl-heptylamine, ethyl-octylamine, hexyl-heptylamine, hexyl-octylamine, dimethylamine, diethylamine, di-n-propylamine, diisopropylamine, di-n-butylamine, di-n-amylamine, diisoamylamine, dihexylamine, diheptylamine, dioctylamine, ethanolamine, n-propanolamine, isopropanolamine, N,N-diethanolamine, N-ethylpropanolamine, N-butylethanolamine, allylamine, n-butenyl-2-amine, n-pentenyl-2-amine, 2,3-dimethylbutenyl-2-amine, dibutenyl-2-amine, n-hexenyl-2-amine, propylenediamine, trimethylamine, triethylamine, tri-n-propylamine, triisopropylamine, tri-n-butylamine, triisobutylamine, tri-sec-butylamine, tri-n-amylamine, methoxyethylamine and ethoxyethylamine; heterocyclic amines, for example pyridine, quinoline, isoquinoline, morpholine, piperidine, pyrrolidine, indoline, quinuclidine and azepine; primary arylamines, for example anilines, methoxyanilines, ethoxyanilines, o-, m- and p-toluidines, phenylenediamines, benzidines, naphthylamines and o-, m- and p-chloroanilines; but especially triethylamine, isopropylamine and diisopropylamine.

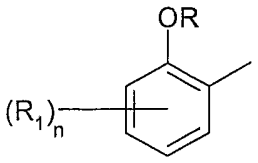
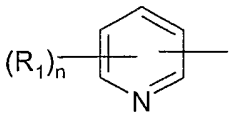
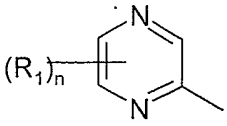
Preferred quaternary ammonium bases suitable for salt formation correspond, for example, to the formula $[N(R_aR_bR_cR_d)]OH$ wherein R_a, R_b, R_c and R_d are each independently of the others C_1-C_4alkyl. Other suitable tetraalkylammonium bases with other anions can be obtained, for example, by anion exchange reactions.

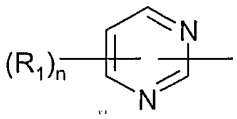
In addition to the formation of salts of compounds of formula I having acid hydrogen, especially of the derivatives having carboxylic acid groups (e.g. carboxyl-substituted alkyl, cycloalkyl, alkenyl and alkynyl groups for R_1, or aromatic or heteroaromatic rings substituted by R_1 ($-CO_2R_7$) or aromatic rings substituted by R_2 ($-CO_2R_{35}$), wherein R_7 and R_{35} are hydrogen), or HON=CH- or mercapto-substituted phenyl rings (R_2 is $-C(R_{38})=NOR_{39}$ or $-SR_{42}$, wherein R_{39} and R_{42} are hydrogen), salts of the compounds of formula I having basic groups are also possible, especially having basic pyridyl, pyrimidyl, pyrazinyl and pyridazinyl rings (Q_2 to Q_8) or having amino or hydrazino groups as in, for example, the definition of R_1 and R_2, and R_{133} to R_{140} and R_{141} to R_{148} ($=NN(R_{232})R_{233}$). Such salts are, for example, salts with inorganic and organic acids such as, for example, hydrohalic acids, e.g. hydrofluoric acid, hydrochloric acid, hydrobromic acid or hydriodic acid, and sulfuric acid, phosphoric acid and nitric acid, and organic acids such as acetic acid, trifluoroacetic acid, trichloroacetic acid, propionic acid, glycolic acid, thiocyanic acid, citric acid, benzoic acid, oxalic acid, formic acid, benzenesulfonic acid, p-toluenesulfonic acid and methanesulfonic acid.

The presence of an asymmetric carbon atom or of a sulfinyl group in the compounds of formula I, for example when the substituent R_1 or R_2 is a branched alkyl, alkenyl or haloalkyl group or alkylsulfinyl, means that the compounds may occur either in the form of optically active single isomers or in the form of racemic mixtures. In the present invention, the compounds of formula I are understood to include both the pure optical antipodes and the racemates and diastereoisomers.

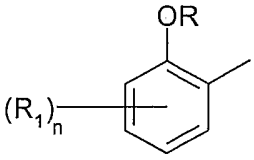
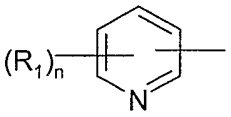
When an aliphatic C=C double bond or a HON=CH group is present, e.g. $-C(R_{24})=NOR_{25}$ wherein R_{24} and R_{25} are hydrogen, geometric isomerism may occur. Such isomers are also included in the present invention.

Preference is given to compounds of formula I wherein Q is a group Q_1, Q_2, Q_3 or Q_4

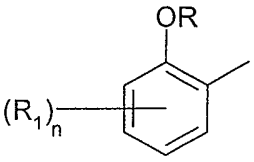

(Q_1),

(Q_2),

(Q_3) or


(Q_4).

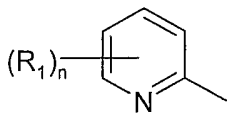
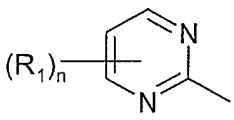
Amongst those compounds, special preference is given to those wherein Q is a group Q_1 or Q_2


(Q_1) or

(Q_2),

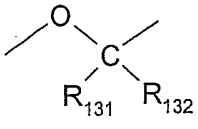
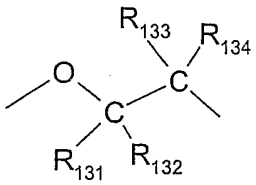
especially wherein Q is a group Q_1

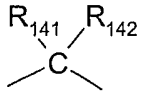

(Q_1).

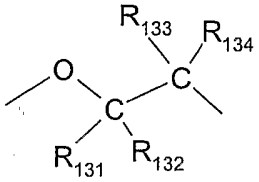
Special preference is likewise given to compounds of formula I wherein Q is a group Q_{2a} or Q_{4a}

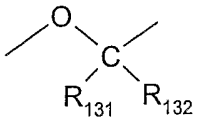
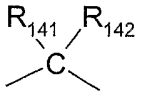

(Q_{2a}) or

(Q_{4a}).

Preference is given to those compounds of formula I wherein A is a bridging member A_1 or A_2

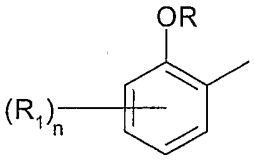
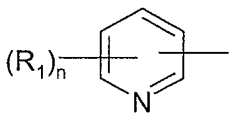
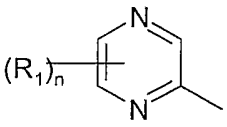

(A_1) or

(A_2).

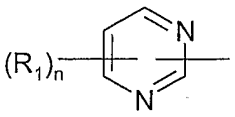
Preference is also given to those compounds of formula I wherein B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring or is the bridging member B_1  (B_1).

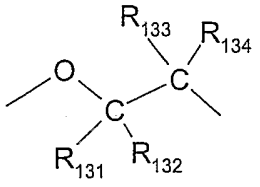
Preference is furthermore given to those compounds of formula I wherein A is a bridging member A_2  (A_2) and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

Of importance are those compounds of formula I wherein A is the bridging member A_1  (A_1), and B is the bridging member B_1  (B_1).

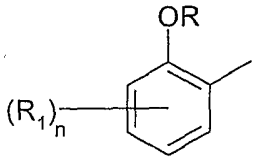
Likewise of importance are those compounds of formula I wherein Q is a group Q_1, Q_2, Q_3 or Q_4

 (Q_1),  (Q_2),  (Q_3) or

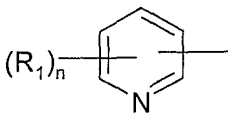
 (Q_4),

A is the bridging member A_2  (A_2), and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

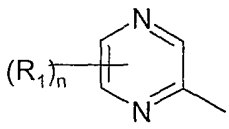
Important compounds of formula I are also those wherein Q is a group Q_1, Q_2, Q_3 or Q_4



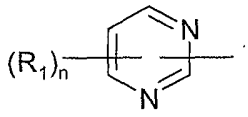
(Q_1),



(Q_2),

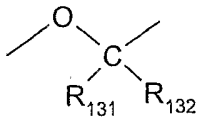


(Q_3) or



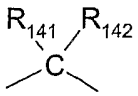
(Q_4),

A is the bridging member A_1



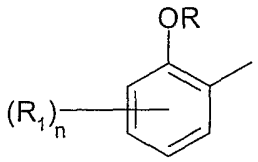
(A_1),

and B is the bridging member B_1

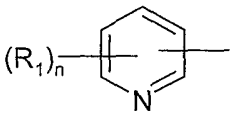


(B_1).

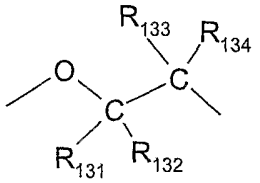
Also of importance are compounds of formula I wherein Q is a group Q_1 or Q_2



(Q_1) or



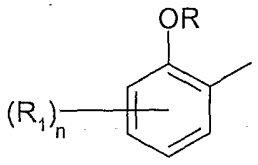
(Q_2),



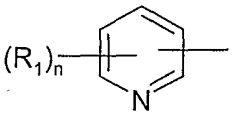
(A_2),

A is the bridging member A_2 and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

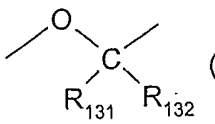
Important compounds of formula I are those wherein Q is a group Q_1 or Q_2



(Q_1) or

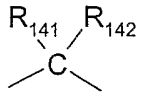


(Q_2),



(A_1),

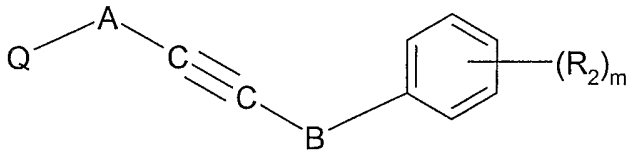
A is the bridging member A_1

and B is the bridging member B_1  (B_1).

Likewise of importance are those compounds of formula I wherein each R_1, independently of any other(s), is halogen, -CN, $-NO_2$, $-C(R_{10})=NOR_{11}$, $-OR_{13}$, $-SO_2R_{16}$, $-OSO_2R_{17}$, C_1-C_8alkyl or C_2-C_8alkenyl, or C_1-C_8alkyl substituted once, twice or three times by halogen and/or by -CN; R_{10} is hydrogen or C_1-C_4alkyl; R_{11} is C_1-C_8alkyl, and n is 0, 1, 2 or 3.

Especially important compounds of formula I are those wherein each R_2, independently of any other(s), is halogen, -CN, -SCN, -OCN, $-N_3$, $-NO_2$, $-NR_{33}R_{34}$, $-CO_2R_{35}$, $-CONR_{36}R_{37}$, $-C(R_{38})=NOR_{39}$, $-COR_{40}$, $-OR_{41}$, $-SO_2R_{44}$, $-OSO_2R_{45}$, $-N([CO]_pR_{46})COR_{47}$, $-N(R_{56})SO_2R_{57}$, $-N(SO_2R_{58})SO_2R_{59}$, $-N=C(OR_{60})R_{61}$ or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by halogen, -CN, $-N_3$, -SCN, $-CO_2R_{73}$, $-CONR_{74}R_{75}$, $-COR_{76}$, $-C(R_{77})=NOR_{78}$, $-C(S)NR_{79}R_{80}$, $-OR_{82}$, $-SOR_{84}$, $-SO_2R_{85}$ and/or by $-N(R_{89})COR_{90}$, and m is 0, 1, 2, 3 or 4.

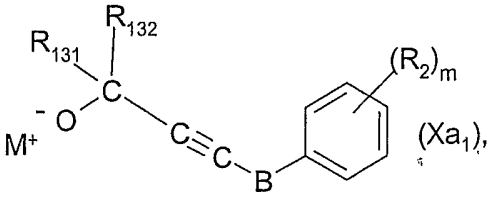
The compounds of formula I

 (I),

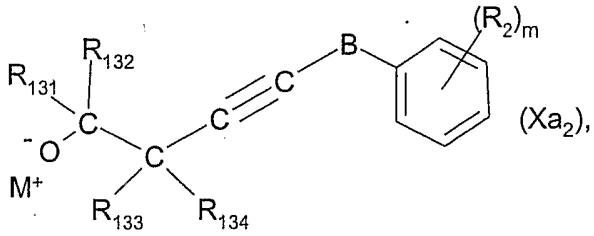
wherein Q, A, B, R_2 and m are as defined hereinbefore, may be prepared by various known processes. The groups Q_1 to Q_8, the phenyl ring, and their substituents R_1 (on groups Q_1 to Q_8) and R_2 (on the phenyl ring), and also the substituents of the bridging members A (R_{131} to R_{140}) and B (R_{141} to R_{148}) do not restrict those processes; on the contrary, they can be taken into account in synthesis planning so that particular procedures can be used preferentially and carried out selectively and with a high yield. This will be the case, for example, when the substituents R_1 and/or R_2 have an activating and/or directing influence, by way of electron-withdrawing or -releasing effects or steric effects, such as, for example, in the nucleophilic aromatic substitution reaction of compounds of formula VII_1

$$Q\text{-}L_1 \qquad (VII_1)$$

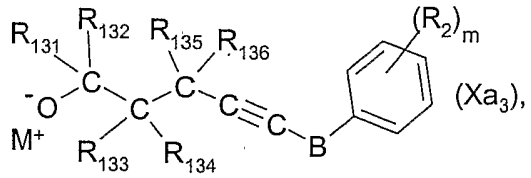
with an alcoholate of formula Xa_1, Xa_2, Xa_3, Xa_4 or Xa_5



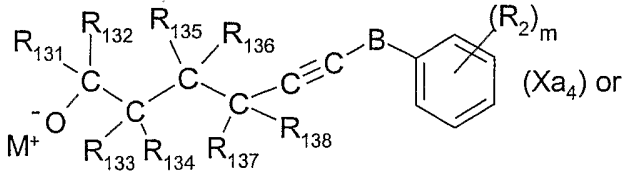
(Xa_1),



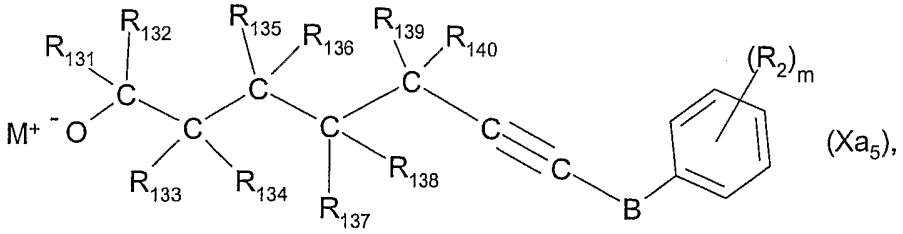
(Xa_2),



(Xa_3),

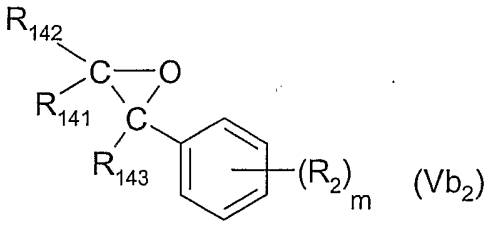


(Xa_4) or



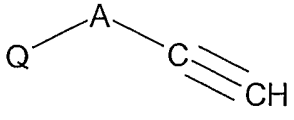
(Xa_5),

or in the nucleophilic ring opening of the epoxide of formula Vb_2



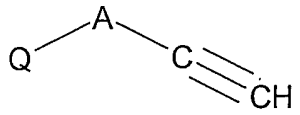
(Vb_2)

by the acetylide of the compound of formula IIa



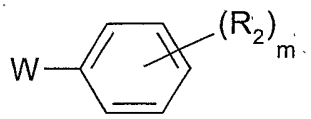
(IIa).

In general, the substituents R_1 and/or R_2, and also the substituents of the bridging members A and B (R_{131} to R_{140}, and R_{141} to R_{148}) have little influence, for example, on the palladium-catalysed cross-coupling of propargyl derivatives of formula IIa



(IIa),

wherein Q and A are as defined for formula I, with substituted phenyl derivatives of formula III



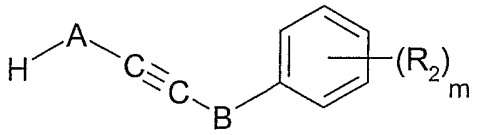
(III),

wherein R_2 and m are as defined for formula I and W is halogen or a sulfonate, for example trifluoromethanesulfonate, in accordance with K. Sonogashira,

or in the Mitsunobu reaction of the compound of formula VII

Q-OH (VII),

wherein Q is as defined for formula I, with the alkynyl-alcohol of formula VIII

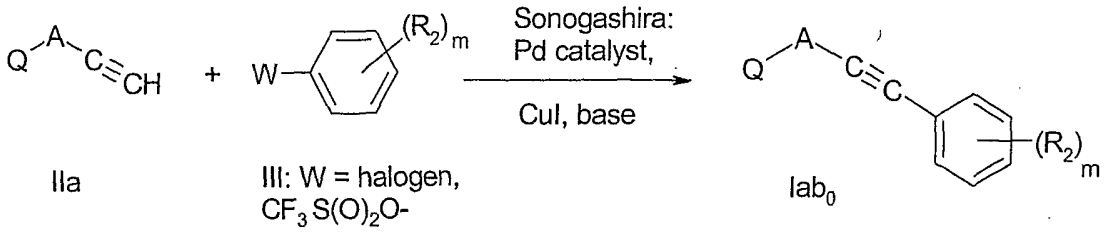


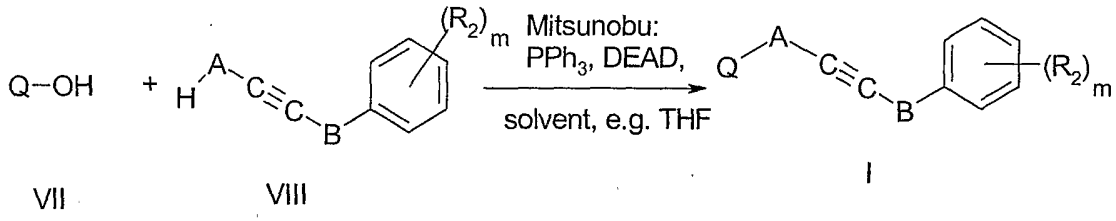
(VIII),

wherein A, B, R_2 and m are as defined for formula I, in the presence of azodicarboxylic acid diethyl ester (DEAD) or N,N,N',N'-tetramethylazodicarboxamide (TMAD) and triphenylphosphine.

Those two important coupling reactions are illustrated in Reaction Scheme 1.

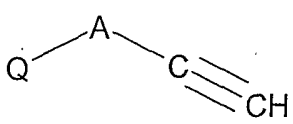
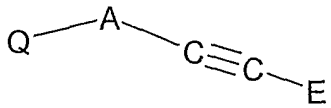
Reaction Scheme 1: Sonogashira and Mitsunobu coupling reactions





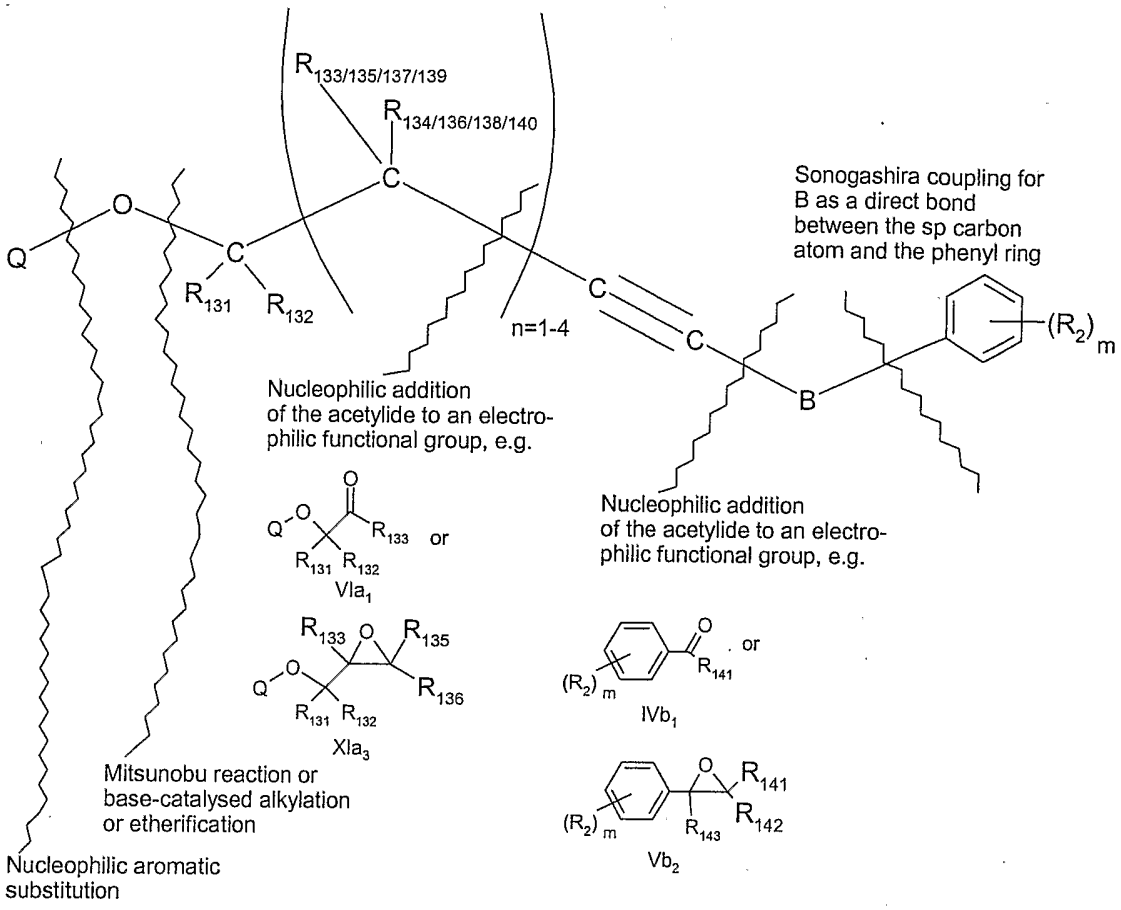
The substituents R_1 and/or R_2, for example in compounds of formulae IIa, IIb, III, IVb_1 to IVb_4, Vb_2 to Vb_4, VIa_1 to VIa_4, VII, VII_1, VIII, IXa_1 to IXa_5, Xa_1 to Xa_5, XIa_3 to XIa_5, XV, $XIXa_1b_0$ to $XIXa_5b_0$, $XXIa_3b$ to $XXIa_5b$, $XXIIIab_1$ to $XXIIIab_4$ or $XXVa_2b$ to $XXVa_5b$ can already be present at the outset or, however, they may be successively introduced only later in the reaction sequence, for example by means of nucleophilic or electrophilic aromatic substitution.

For preparation of the compound of formula I and the corresponding intermediates, for example of formulae IIa and XV


(IIa) and

(XV),

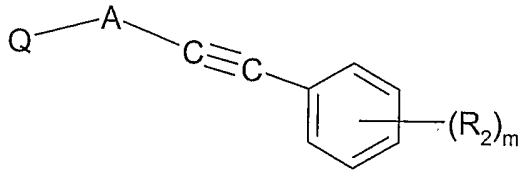
wherein A and Q are as defined for formula I and E is an electrophilic functional group, the following bonds shown in Scheme 2, for example, are suitable retrosynthetically as attachment sites:

Scheme 2: Retrosynthesis of compounds of formula I and their intermediates



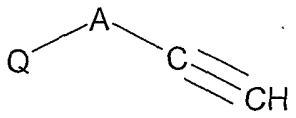
The attachment sites shown retrosynthetically in Scheme 2 in general terms for the synthesis of the compounds of formula I and the intermediates of formulae IIa, XV, $XIXa_1b_0$ to $XIXa_5b_0$, $XXIa_3b$ to $XXIa_5b$, $XXIIIab_2$ to $XXIIIab_4$ and $XXVa_2b$ to $XXVa_5b$ are described in detail below.

In accordance with Reaction Scheme 1, the compounds of formula Iab_0

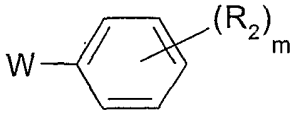


(Iab_0),

wherein A, Q, R_2 and m are as defined for formula I, may be prepared analogously to known processes described, for example, in K. Sonogashira, Comprehensive Organic Synthesis 1991, Vol. 3, page 521 ff.; WO 01/55066; WO 02/28182 and WO 03/013247, by, for example, coupling a compound of formula IIa


(IIa),

wherein A and Q are as defined, with a compound of formula III


(III),

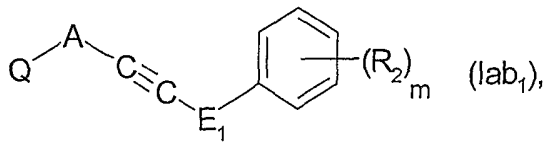
wherein R_2 and m are as defined and W is a leaving group such as, for example, halogen, e.g. iodine, or sulfonate, e.g. trifluoromethanesulfonate, in the presence of a palladium catalyst under Sonogashira reaction conditions (Reaction Scheme 1).

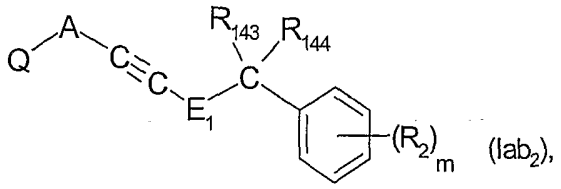
Suitable catalyst mixtures are, for example, tetrakis(triphenylphosphine)palladium or bis(triphenylphosphine)palladium dichloride together with copper iodide.

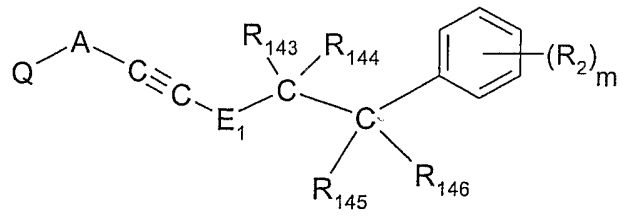
As bases for reductive elimination, amines, e.g. triethylamine, diethylamine or diisopropylethylamine, are preferably used.

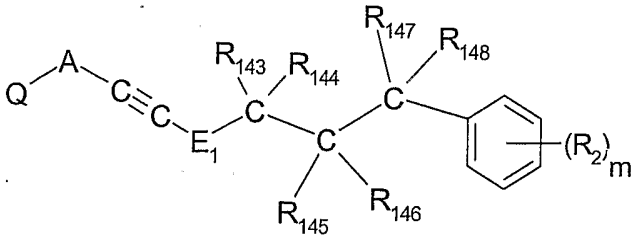
The aryls of formula III preferably carry a leaving group W wherein W is, for example, halogen (N. Krause *et al.*, J. Org. Chem. 1998, 63, page 8551; and H. Nakamura *et al.*, Tetrahedron Lett. 2000, 41, page 2185) or trifluoromethanesulfonate (K. Ritter, Synthesis 1993, page 735). As solvents there are usually used ethers, e.g. tetrahydrofuran or dioxane, chlorinated hydrocarbons, e.g. chloroform, or dipolar aprotic solvents, e.g. dimethylformamide or dimethyl sulfoxide, or also amines, e.g. triethylamine or piperidine.

The compounds of formula Iab_1, Iab_2, Iab_3 or Iab_4

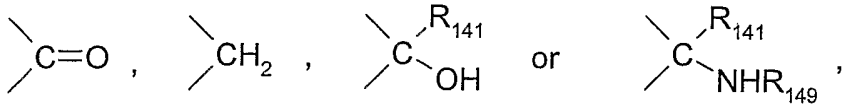

(Iab_1),


(Iab_2),

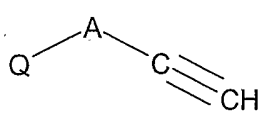

(lab$_3$) or


(lab$_4$),

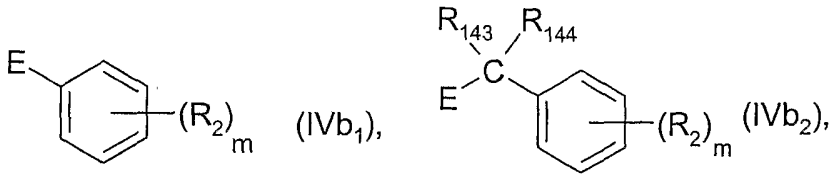
wherein A, Q, R_2, m and R_{143} to R_{148} are as defined for formula I and E_1 is a bridging member



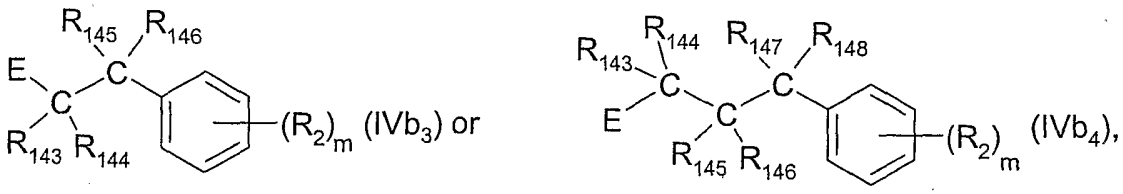
wherein R_{141} is as defined for formula I and R_{149} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, may be prepared analogously to known processes described, for example, in J. Org. Chem. 68(2), 348-354 (2003); Synth. Communic. 32(13), 1937-45 (2002); Tetrahedron: Asymmetry 12(1), 53-57 (2001); Organic Letters 3(6), 819-21 (2001); Tetrahedron Lett. 43(15), 2691-94 (2002); Acta Chemica Scandinavica 49(7), 543-45 (1995); Synlett (1), 66-68 (1989); and Helv. Chim. Acta 72(3), 447-56 (1989), by, for example, reacting a compound of formula IIa


(IIa),

wherein A and Q are as defined, with a compound of formula IVb$_1$, IVb$_2$, IVb$_3$ or IVb$_4$

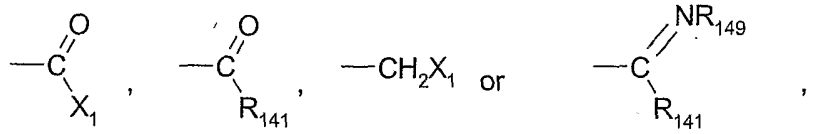


(IVb$_1$), (IVb$_2$),



(IVb$_3$) or (IVb$_4$),

wherein R_2, m and R_{143} to R_{148} are as defined and E is an electrophilic functional group



wherein R_{141} and R_{149} are as defined and X_1 is a leaving group, for example halogen, e.g. fluorine, chlorine, bromine or iodine, or sulfonate, e.g. para-toluenesulfonate (-OTs, tosylate), methanesulfonate (-OMs, mesylate) or trifluoromethanesulfonate (-OTf, triflate), $CH_3(CH_3O)N$-, imidazolyl, triazolyl, $-OR_4$, $-SR_4$ or $-N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl, in the presence either

a) of a strong base or

b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

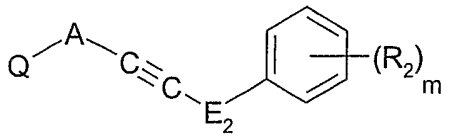
As a strong base for variant a) for the formation of the corresponding acetylide there are suitable, for example, organolithium compounds, e.g. n-butyllithium (n-BuLi), lithium diisopropylamide (LDA) or lithium bis(trimethylsilyl)amide ($[(CH_3)_3Si]_2NLi$), or a Grignard reagent, e.g. ethyl magnesium bromide.

Suitable inert organic solvents are, for example, ethers, e.g. diethyl ether, tetrahydrofuran, or hexane-ether mixtures, or chlorinated hydrocarbons, e.g. dichloromethane.

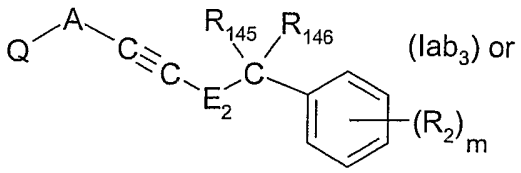
In accordance with variant b), the acetylene function in the compound of formula IIa is activated by means of zinc salts, e.g. zinc trifluoromethanesulfonate $(CF_3SO_3)_2Zn$, in the presence of a base, e.g. triethylamine or Hünig's base, in analogous manner to that

described in Tetrahedron Lett. 43(15), 2691-94 (2002); and J. Am. Chem. Soc. 121(48), 11245-246 (1999).

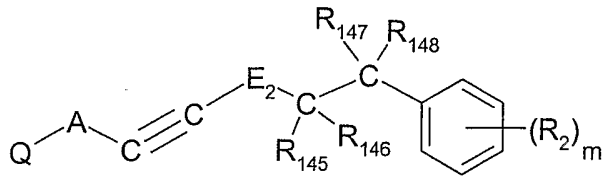
The compounds of formula Iab_2, Iab_3 or Iab_4



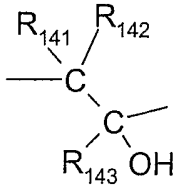
(Iab_2),



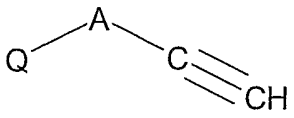
(Iab_3) or



(Iab_4),

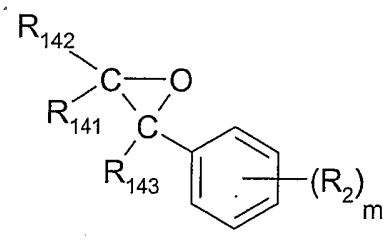
wherein A, Q, R_2, m and R_{145} to R_{148} are as defined for formula I and E_2 is a bridging member 

, wherein R_{141}, R_{142} and R_{143} are as defined for formula I, may be prepared analogously to known processes described, for example, in Organic Letters 4(25), 4427-29 (2002); Heterocycles 42(2), 745-74 (1996); and Tetrahedron Lett. 33(37), 5365-68 (1992) and also processes mentioned hereinbefore, by, for example, causing a compound of formula IIa

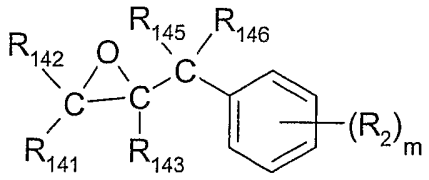


(IIa),

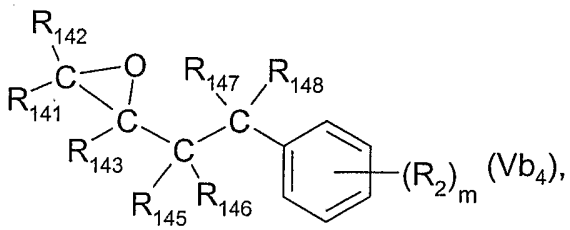
wherein A and Q are as defined, to react with a compound of formula Vb_2, Vb_3 or Vb_4



(Vb$_2$),



(Vb$_3$) or



(Vb$_4$),

wherein R_2, m, R_{141} to R_{143}, and R_{145} to R_{148} are as defined, in the presence

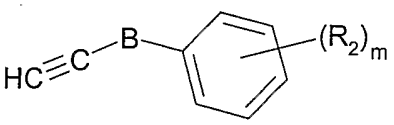
a) of a strong base or

b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

As a strong base for variant a) for the formation of the corresponding acetylide there are suitable, for example, organolithium compounds, e.g. n-butyllithium (n-BuLi). Suitable inert organic solvents are, for example, ethers, e.g. tetrahydrofuran, or chlorinated hydrocarbons, e.g. dichloromethane.

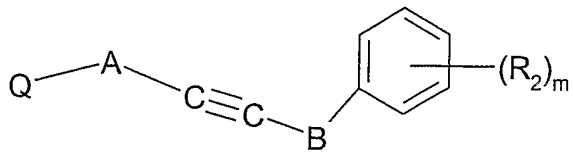
In the process, the epoxy functionality in the compound of formula Vb_2 to Vb_4 is a substitute for the electrophilic functional group E in the compound of formula IVb_1 to IVb_4, which reacts with the acetylide or the zinc-activated compound of formula IIb



(IIb)

The addition of the acetylides of compounds of formula IIa to the epoxides of formula Vb_2 to Vb_4, especially to the epoxide of formula Vb_2, may, depending on the substituents R_{141} to R_{143} and R_2 and on the reaction conditions, for example in the presence of Lewis acids, result in isomeric mixtures. Those isomeric mixtures can be resolved by customary methods, e.g. by means of column chromatography.

Compounds of formula I

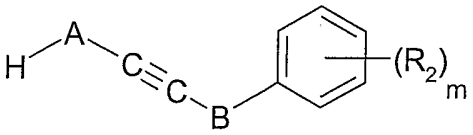


(I),

wherein A, Q, B, R_2 and m are as defined under formula I, may be prepared using the Mitsunobu reaction in the presence of azodicarboxylic acid diethyl ester (DEAD) and triphenylphosphine in a suitable solvent such as, for example, an ether, e.g. tetrahydrofuran (THF), in a manner analogous to that described, for example, in Synthetic Communic. 1989(19), 1255-59; or Synthesis 1981(1); or, using TMAD reagent as a substitute for DEAD in the two previous references, in a manner analogous to that described, for example, in Chem. Letters 1994, 539 (Reaction Scheme 1). That synthesis route uses, as intermediates, the compound of formula VII

Q-OH (VII)

and the alkynyl-alcohol of formula VIII

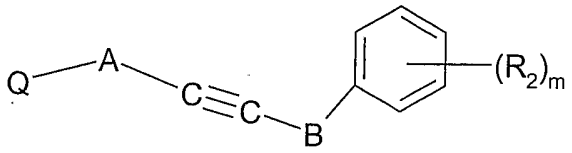


(VIII),

which are caused to react with one another under typical Mitsunobu reaction conditions, the radicals A, Q, B and R_2 and the suffix m in the compounds of formulae VII and VIII being as defined.

The Mitsunobu reaction is especially advantageous for those compounds of formula VII in which Q is a group Q_1 or a group Q_2, Q_4 or Q_5, the hydroxyl function in the latter three groups advantageously being in a position other than a position ortho to a ring nitrogen atom.

A further possibility for the preparation of compounds of formula I

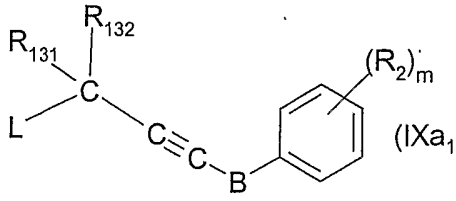


(I),

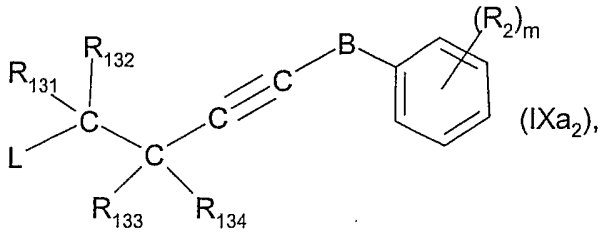
wherein A, Q, B, R_2 and m are as defined for formula I, is the base-catalysed alkylation or etherification of a compound of formula VII

Q-OH (VII)

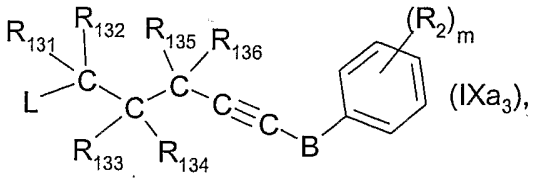
with a compound of formula IXa_1, IXa_2, IXa_3, IXa_4 or IXa_5



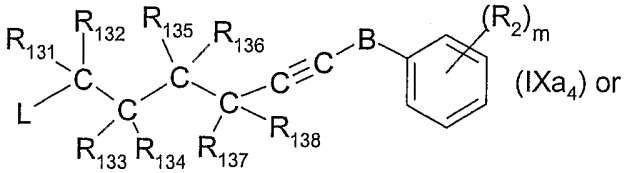
(IXa_1),



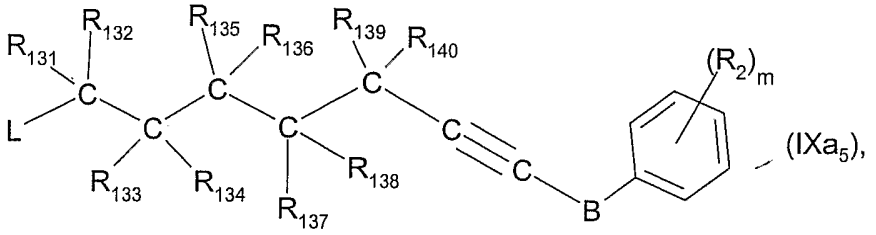
(IXa_2),



(IXa_3),



(IXa_4) or



(IXa_5), under reaction conditions typical therefor, the radicals Q, B and R_2 and the suffix m in the compounds of formulae VII and IXa_1 to IXa_5 being as defined, R_{131} to R_{140} being as defined for formula I and L being a leaving group such as, for example, halogen, e.g. chlorine, bromine or iodine, acetate, or sulfonate, e.g. mesylate, tosylate or triflate.

Suitable bases are, for example, hydrides such as, for example, alkali metal and alkaline earth metal hydrides, e.g. sodium or potassium hydride, hydroxides such as, for example, alkali metal hydroxides, e.g. sodium or potassium hydroxide, alcoholates, e.g. sodium methanolate, sodium ethanolate or potassium tert-butanolate, carbonates, e.g. potassium or calcium carbonate, amines, e.g. triethylamine, or also sodium bis(trimethylsilyl)amide ($NaN[(CH_3)_3Si]_2$), silver(I) oxide (Ag_2O) or $Ag(OH)_2$.

Suitable solvents are amides, e.g. N,N-dimethylformamide, or nitriles, e.g. acetonitrile.

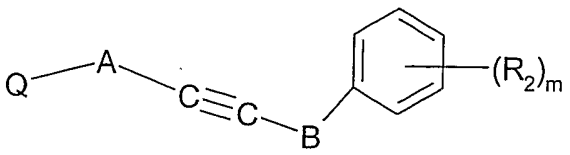
Such etherification procedures are standard processes and may be carried out, for example, in analogy to J. Chem. Soc., Perkin Trans I, 1979, 2756-61; Synth. Communic. 18, 1111-18 (1988); Chem. Communic. 1990, 297-300; J. Org. Chem. 61, 4258-61 (1996); Tetrahedron 1997(53), 12621-628; and Synth. Communic. 24, 1367-79 (1994). Selective O-alkylation procedures in the presence of a ring nitrogen atom may be carried out in a manner analogous to that described, for example, in Synth. Communic. 1994(24), 1367 and Heterocycles 1990(31), 819, and also in halogenated or aromatic hydrocarbons as solvent, e.g. chloroform or toluene, in the presence of silver carbonate as base.

The activation of the alcohol of formula VIII to form the compound of formula IXa_1 to IXa_5 is carried out, for example, by sulfonylation or halogenation.

Sulfonylation of the alcohol of formula VIII is a standard reaction and may be carried out, for example, using a sulfonic acid chloride, e.g. mesyl chloride or para-toluenesulfonic acid chloride (p-TosCl), in the presence of a tertiary amine, e.g. triethylamine, or of an aromatic amine, e.g. pyridine, in a solvent such as, for example, a chlorinated hydrocarbon, e.g. carbon tetrachloride or methylene chloride, or an amine, e.g. pyridine. Such reactions are generally known and described, for example, in J. Org. Chem. 1997 (62), 8987; J. Het. Chem. 1995 (32), 875-882; and also Tetrahedron Lett. 1997 (38), 8671-8674.

Halogenation of the alcohol of formula VIII may be carried out in analogy to standard processes. For example, bromination may be carried out using carbon tetrabromide in the presence of triphenylphosphine (Synthesis 1998, 1015-1018) in methylene chloride. Chlorination may be carried out using mineral acids, e.g. concentrated hydrochloric acid (J. Org. Chem. 1955 (20), 95), or using para-toluenesulfonic acid chloride in the presence of an amine, e.g. triethylamine, in a solvent, e.g. methylene chloride (Tetrahedron Lett. 1984 (25), 2295).

A further general method for the preparation of compounds of formula I

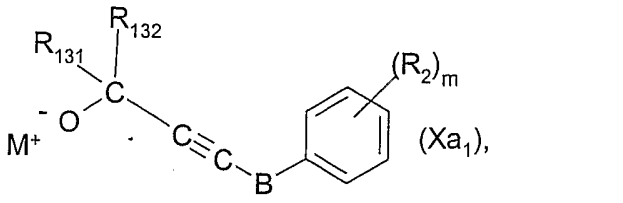


(I),

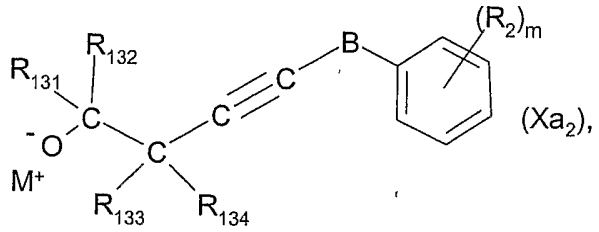
wherein A, Q, B, R_2 and m are as defined for formula I, comprises, by means of a nucleophilic aromatic substitution reaction, causing the compound of formula VII_1

$$Q\text{-}L_1 \qquad (VII_1)$$

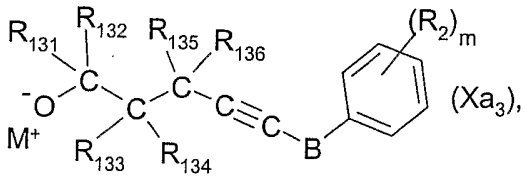
to react with an alcoholate of formula Xa_1, Xa_2, Xa_3, Xa_4 or Xa_5



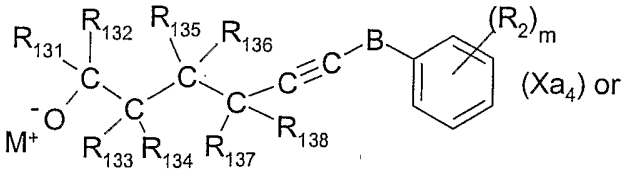
(Xa_1),



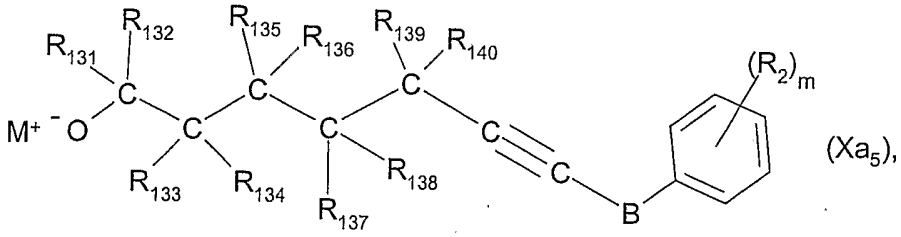
(Xa_2),



(Xa_3),



(Xa_4) or



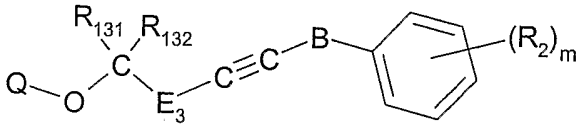
(Xa_5),

under typical substitution reaction conditions, the radicals Q, B and R_2 and the suffix m in the compounds of formulae VII_1 and Xa_1 to Xa_5 being as defined, R_{131} to R_{140} being as defined for formula I, L_1 being a leaving group such as, for example, halogen, e.g. fluorine (for Q = Q_2 to Q_8), chlorine, bromine or iodine, or a sulfonate, e.g. -OTosyl (-OTs) or -OMesyl (-OMs), an alkylsulfonyl (for Q = Q_2 to Q_8), e.g. CH_3SO_2-, imidazolyl, triazolyl, $-SCH_3$ or phenoxy, and M^+ being an alkali metal ion, e.g. Na^+. For compounds of formula VII_1 wherein Q is a group Q_1, the nucleophilic aromatic substitution reaction is facilitated if they are activated compounds. That is the case when

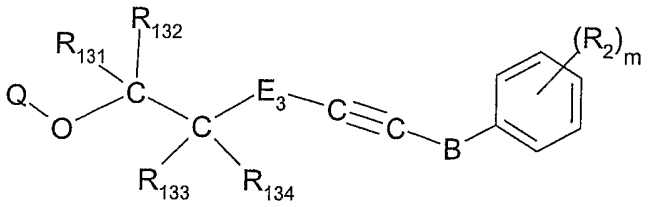
R_1 is, for example, a substituent having electron-withdrawing properties (-M and/or -I effect), for example -CN, $-NO_2$, $-CO_2R_7$ or COR_{12}, or when the leaving group L_1 in the groups Q_2 to Q_8 is in a position ortho to a ring nitrogen atom. Such substitution reactions with activated compounds of formula VII_1 wherein Q is a group Q_1 to Q_8 and R_1 is a substituent having an -M and/or -I effect within the framework of the definition of R_1 given for formula I, are standard methods and may be carried out, for example, in analogy to Synlett 2000, 874-876; ibid 1998, 794-796; or J. Org. Chem. 1998(63), 9594-96.

For non-activated compounds of formula VII_1, wherein Q is, for example, a group Q_1, and R_1 is, for example, a substituent without electron-withdrawing properties (+M and/or +I effect) such as, for example, $-NR_5R_6$ or $-OR_{13}$, a suitable alternative synthesis method is the above-mentioned base-catalysed alkylation or etherification of a compound of formula VII with a compound of formula IXa_1 to IXa_5.

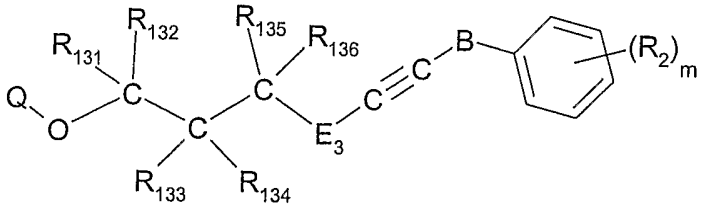
The compounds of formula Ia_2b, Ia_3b, Ia_4b or Ia_5b



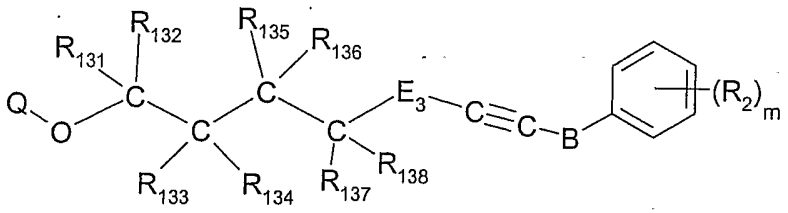
(Ia_2b),



(Ia_3b),

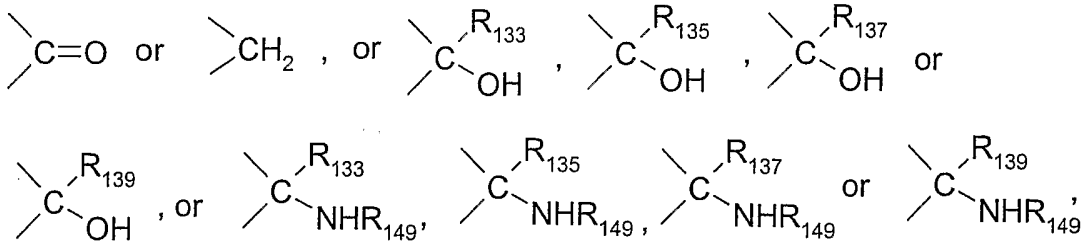


(Ia_4b) or

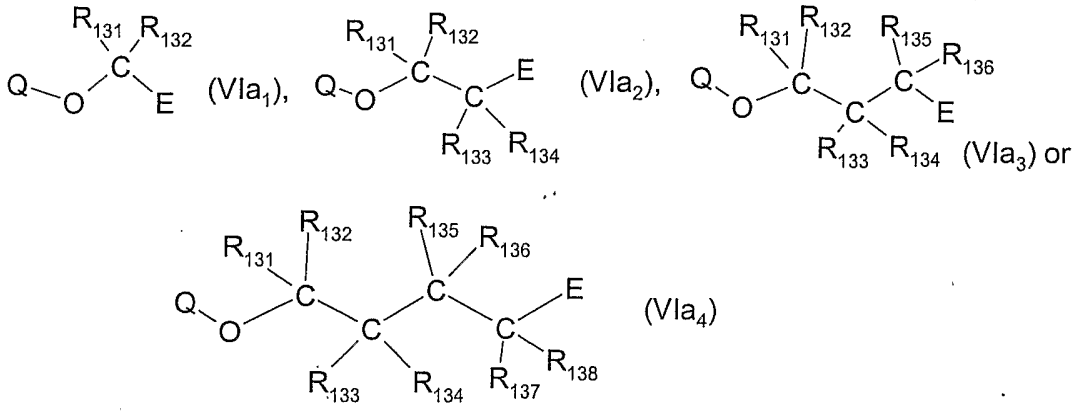


(Ia_5b),

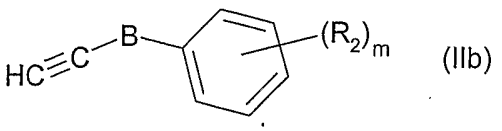
wherein Q, B, R_2, m and R_{131} to R_{138} are as defined for formula I and E_3 is a bridging member



wherein R_{133}, R_{135}, R_{137} and R_{139} are as defined for formula I and R_{149} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, may be prepared analogously to routes that are known and described hereinbefore for compounds of formula Iab_1, Iab_2, Iab_3 or Iab_4, by causing a compound of formula VIa_1, VIa_2, VIa_3 or VIa_4



to react with a compound of formula IIb



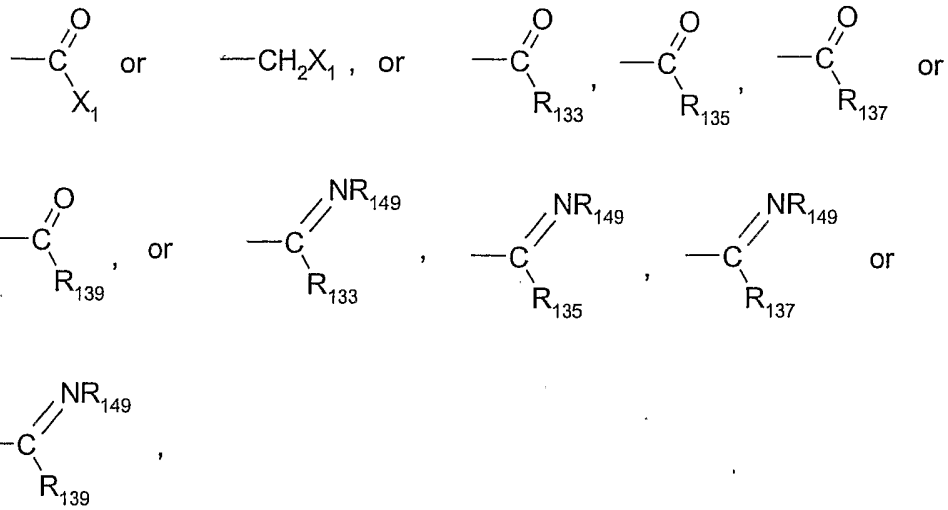
in the presence

a) of a strong base or

b) of zinc salts and a base

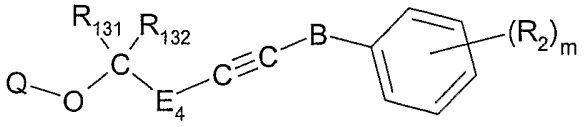
in an inert organic solvent at temperatures from –100° to 50°C, the radicals Q, B, R_2 and R_{131} to R_{138} and the suffix m in the compounds of formulae VIa_1 to VIa_4 and IIb being as

defined and E being an electrophilic functional group

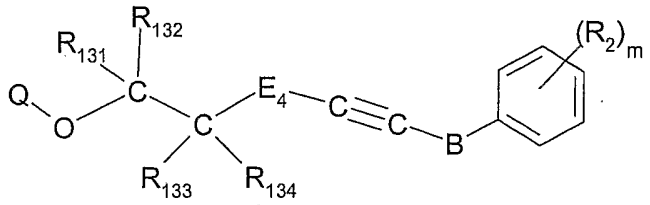


wherein R_{133}, R_{135}, R_{137}, R_{139} and R_{149} are as defined and X_1 is a leaving group such as, for example, halogen, e.g. fluorine, chlorine, bromine or iodine, or sulfonate, e.g. para-toluenesulfonate (-OTs, tosylate), methanesulfonate (-OMs, mesylate) or trifluoromethanesulfonate (-OTf, triflate), or $CH_3(CH_3O)N$-, imidazolyl, triazolyl, $-OR_4$, $-SR_4$ or $-N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl.

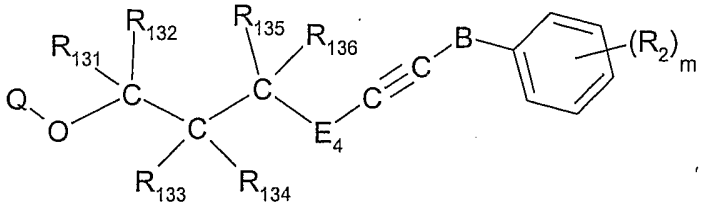
The compound of formula Ia_3b, Ia_4b or Ia_5b



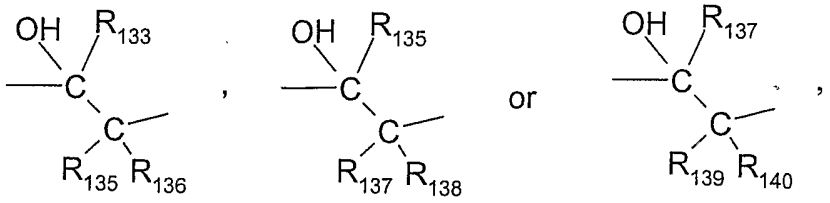
(Ia_3b),



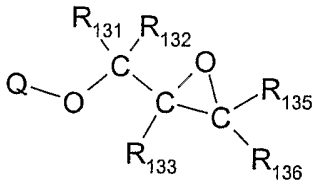
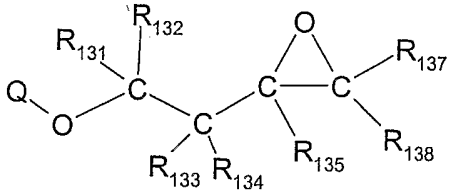
(Ia_4b) or

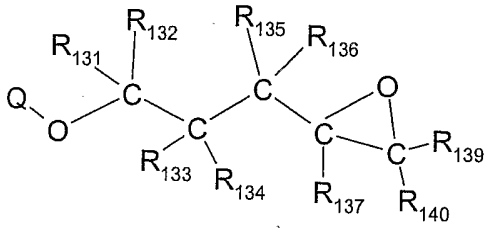


(Ia_5b),

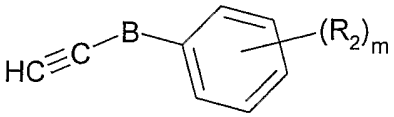
wherein Q, B, R_2, m and R_{131} to R_{136} are as defined for formula I and E_4 is a bridging member , , or ,

R_{133} and R_{135} to R_{140} being as defined for formula I, can also be prepared analogously to the above-described process. In accordance therewith, an epoxide derivative of formula XIa_3, XIa_4 or XIa_5

 (XIa_3),  (XIa_4) or

 (XIa_5)

is caused to react with a compound of formula IIb

 (IIb)

in the presence

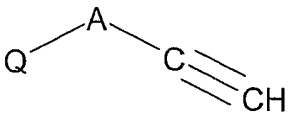
a) of a strong base or

b) of zinc salts and a base

in an inert organic solvent at temperatures from –100° to 50°C, the radicals Q, B, R_2 and R_{131} to R_{140} and the suffix m in the compounds of formulae XIa_3 to XIa_5 and IIb being as defined.

In the process, the epoxy functionality is a substitute for the electrophilic functional group E in the compounds of formulae VIa_1 to VIa_4 in the previous example, which reacts with the acetylide or the zinc-activated compound of formula IIb.

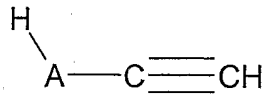
The intermediate of formula IIa


(IIa),

wherein A and Q are as defined for formula I, may be prepared by means of the Mitsunobu reaction already described in detail hereinbefore (Reaction Scheme 1) from the compound of formula VII

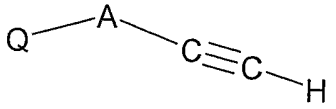
Q-OH (VII)

and the compound of formula XII


(XII),

the radicals A and Q in the compounds of formulae VII and XII being as defined.

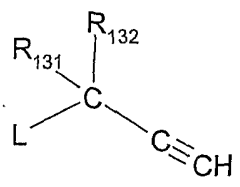
A further method for the preparation of the intermediate of formula IIa


(IIa),

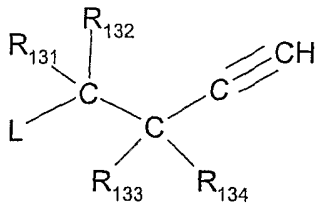
wherein A and Q are as defined for formula I, uses the compound of formula VII

Q-OH (VII),

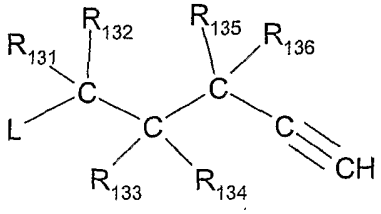
which is caused to react with a compound of formula $XIIIa_1$, $XIIIa_2$, $XIIIa_3$, $XIIIa_4$ or $XIIIa_5$



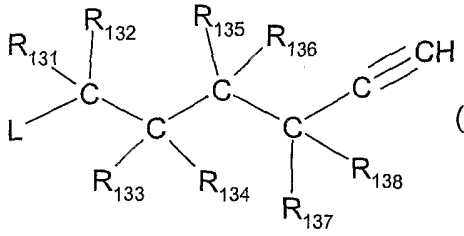
(XIIIa$_1$),



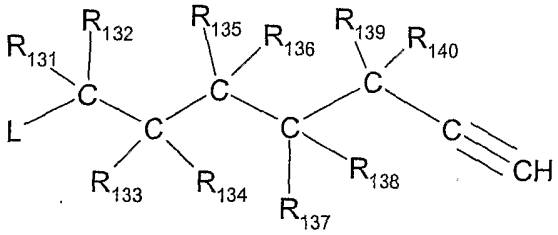
(XIIIa$_2$),



(XIIIa$_3$)



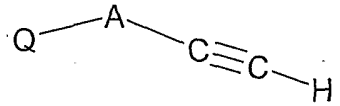
(XIIIa$_4$) or



(XIIIa$_5$)

under typical base-catalysed reaction conditions of alkylation or etherification, as described in detail hereinbefore for the preparation of the compound of formula I, the radicals Q and R_{131} to R_{140} in the compounds of formulae VII and XIIIa$_1$ to XIIIa$_5$ being as defined for formula I and L being a leaving group such as, for example, halogen, e.g. chlorine, bromine or iodine, acetate or sulfonate, e.g. mesylate or tosylate.

The process of the nucleophilic aromatic substitution reaction described in detail hereinbefore for the preparation of compounds of formula I is also suitable for the preparation of the intermediates of formula IIa

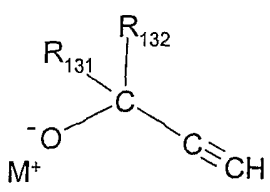


(IIa),

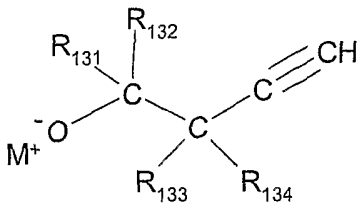
wherein A and Q are as defined for formula I, by causing a compound of formula VII$_1$

$$Q\text{-}L_1 \qquad (VII_1)$$

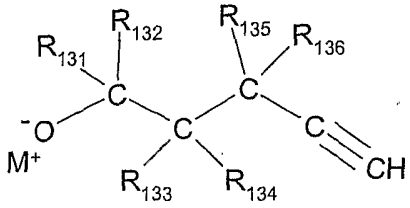
to react with a compound of formula XIVa$_1$, XIVa$_2$, XIVa$_3$, XIVa$_4$ or XIVa$_5$



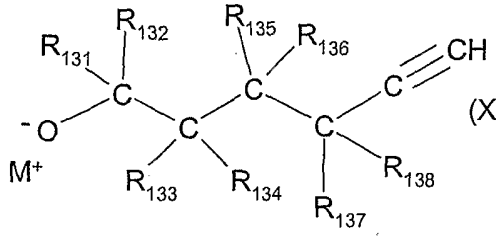
(XIVa$_1$),



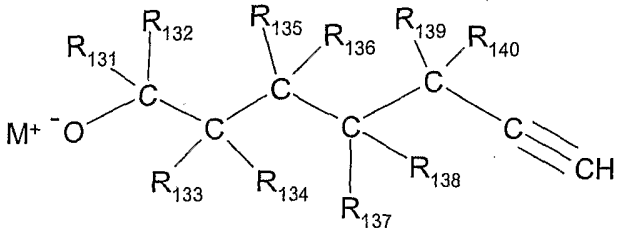
(XIVa$_2$),



(XIVa$_3$),



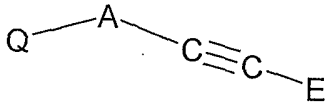
(XIVa$_4$) or



(XIVa$_5$)

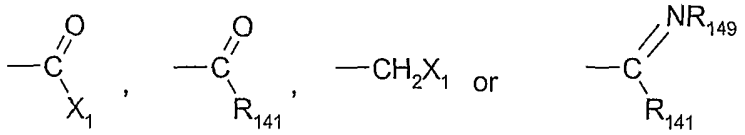
under typical reaction conditions of nucleophilic aromatic substitution, the radicals Q and R_{131} to R_{140} in the compounds of formulae VII$_1$ and XIVa$_1$ to XIVa$_5$ being as defined for formula I, L_1 being a leaving group such as, for example, halogen, e.g. fluorine (for Q = Q_2 to Q_8), chlorine, bromine or iodine, or a sulfonate, e.g. -OTosyl (-OTs) or -OMesyl (-OMs), an alkylsulfonyl (for Q = Q_2 to Q_8), e.g. CH_3SO_2-, imidazolyl, triazolyl, -SCH_3 or phenoxy, and M^+ being an alkali metal ion, e.g. Na^+.

The intermediate of formula XV



(XV),

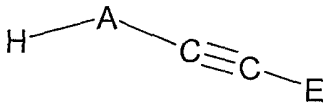
wherein A and Q are as defined for formula I and E is an electrophilic functional group



wherein R_{141} is as defined for formula I, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, and X_1 is a leaving group such as, for example, halogen, e.g. fluorine, chlorine, bromine or iodine, or a sulfonate, e.g. -OTosyl (-OTs), -OMesyl (-OMs) or -OTriflate (-OTf), $CH_3(CH_3O)N$-, imidazolyl, triazolyl, -OR_4, -SR_4 or -$N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl, may be obtained by means of the Mitsunobu reaction (Reaction Scheme 1) from a compound of formula VII

Q-OH (VII)

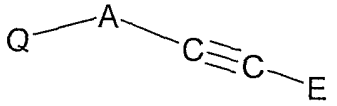
and a compound of formula XVI



(XVI),

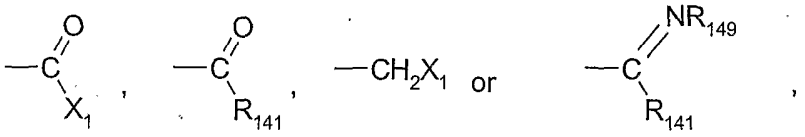
the radicals A, Q and E in the compounds of formulae VII and XVI being as defined.

The intermediate of formula XV



(XV),

wherein A and Q are as defined for formula I and E is an electrophilic functional group

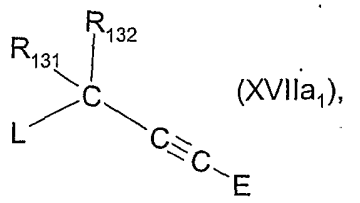


wherein R_{141} is as defined for formula I, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, and X_1 is a leaving group such as, for example, halogen, e.g. fluorine, chlorine, bromine or iodine, or a sulfonate, e.g. -OTosyl (-OTs), -OMesyl (-OMs) or -OTriflate (-OTf), $CH_3(CH_3O)N$-,

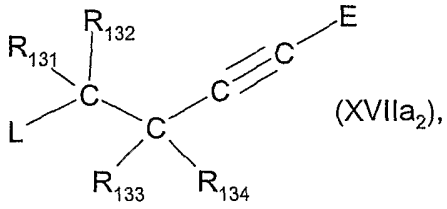
imidazolyl, triazolyl, -OR_4, -SR_4 or -$N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl, may also be prepared by means of base-catalysed alkylation or etherification of a compound of formula VII

Q-OH (VII)

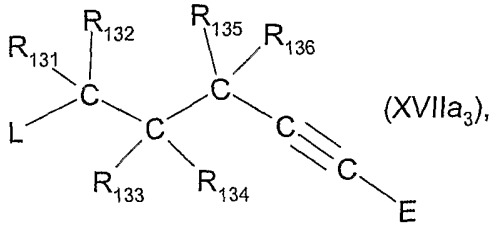
with a compound of formula $XVIIa_1$, $XVIIa_2$, $XVIIa_3$, $XVIIa_4$ or $XVIIa_5$



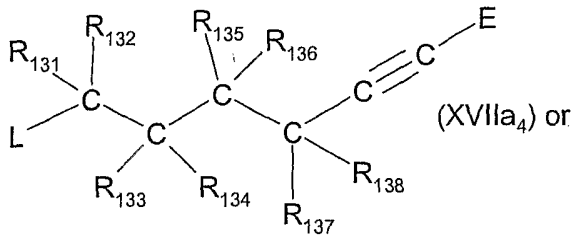
($XVIIa_1$),



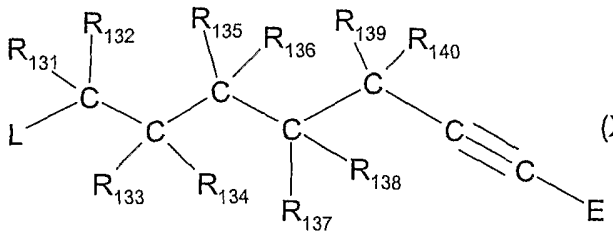
($XVIIa_2$),



($XVIIa_3$),



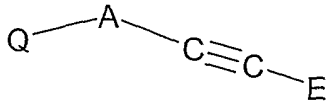
($XVIIa_4$) or



($XVIIa_5$),

the radicals Q and E in the compounds of formulae VII and $XVIIa_1$ to $XVIIa_5$ being as defined, R_{131} to R_{140} being as defined for formula I and L being a leaving group such as, for example, halogen, e.g. chlorine, bromine or iodine, acetate or sulfonate, e.g. mesylate (-OMs) or tosylate (-OTs).

A further possible method of preparing the desired intermediates of formula XV

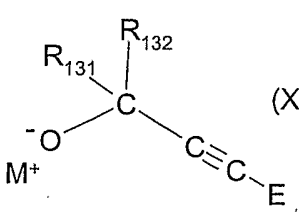


(XV),

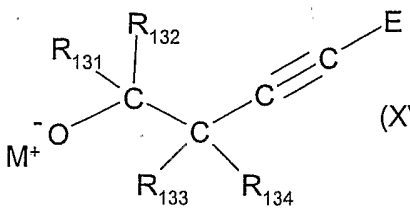
wherein A and Q are as defined for formula I and E is an electrophilic functional group as already defined hereinbefore, is provided by the reaction of the compound of formula VII_1

$$Q\text{-}L_1 \qquad (VII_1)$$

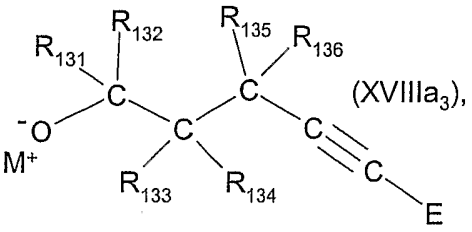
with a compound of formula $XVIIIa_1$, $XVIIIa_2$, $XVIIIa_3$, $XVIIIa_4$ or $XVIIIa_5$



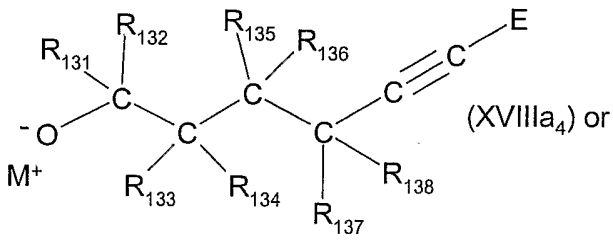
$(XVIIIa_1)$,



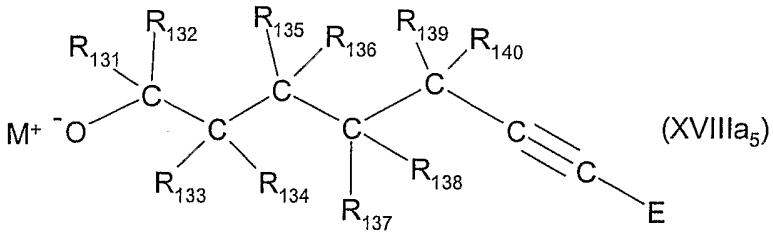
$(XVIIIa_2)$,



$(XVIIIa_3)$,

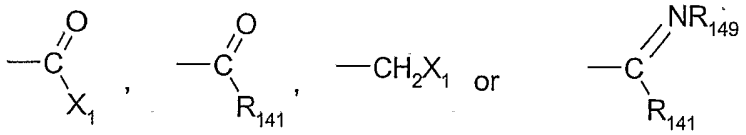


$(XVIIIa_4)$ or



$(XVIIIa_5)$

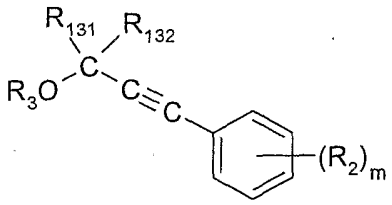
under the above-described reaction conditions of the nucleophilic aromatic substitution reaction, the radicals Q and R_{131} to R_{140} in the compounds of formulae VII_1 and $XVIIIa_1$ to $XVIIIa_5$ being as defined for formula I and E being an electrophilic functional group

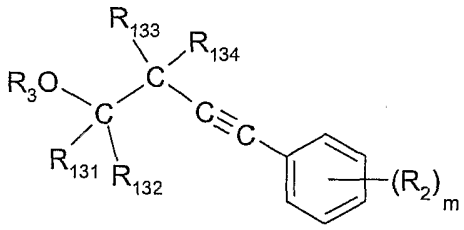


wherein R_{141} is as defined for formula I, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or

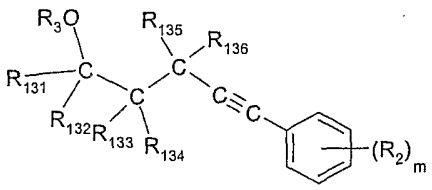
three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, L_1 is a leaving group such as, for example, halogen, e.g. fluorine (for Q = Q_2 to Q_8), chlorine, bromine or iodine, or a sulfonate, e.g. -OTs or -OMs, an alkylsulfonyl (for Q = Q_2 to Q_8), e.g. CH_3SO_2-, imidazolyl, triazolyl, -SCH_3 or phenoxy, and M^+ is an alkali metal ion, e.g. Na^+.

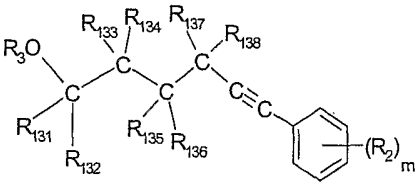
The intermediates of formula $XIXa_1b_0$, $XIXa_2b_0$, $XIXa_3b_0$, $XIXa_4b_0$ or $XIXa_5b_0$





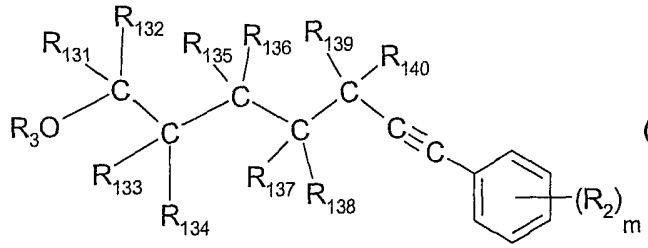
($XIXa_1b_0$),





($XIXa_2b_0$),

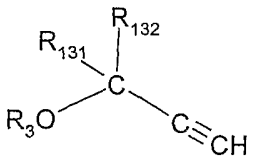
($XIXa_3b_0$),



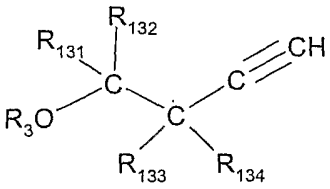
($XIXa_4b_0$) or

($XIXa_5b_0$),

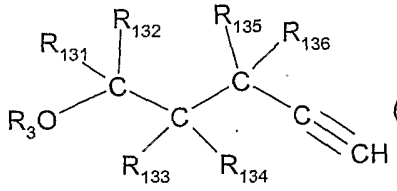
wherein R_2, m and R_{131} to R_{140} are as defined for formula I and R_3 is hydrogen or a protecting group for the alcohol function such as, for example, methoxymethyl (MOM), benzyl, benzoyl, acetyl, allyl, tetrahydropyranyl, tert-butyloxycarbonyl (BOC), benzyloxycarbonyl, trialkylsilyl, phenyl-dialkylsilyl or di-phenyl-alkylsilyl (T. W. Greene and P. G. M. Wuts, Protective Groups in Organic Chemistry, Wiley 1999), may be prepared, for example, by coupling a compound of formula XXa_1, XXa_2, XXa_3, XXa_4 or XXa_5



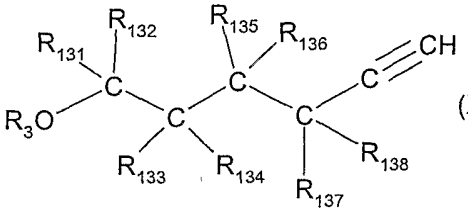
(XXa$_1$),



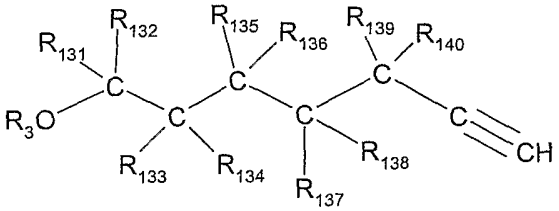
(XXa$_2$),



(XXa$_3$),

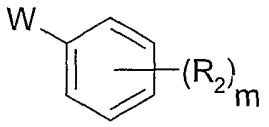


(XXa$_4$) or



(XXa$_5$),

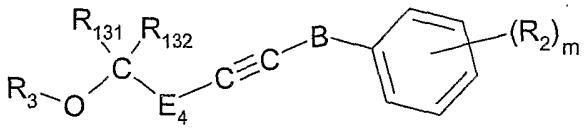
wherein R_3 and R_{131} to R_{140} are as defined, with a compound of formula III



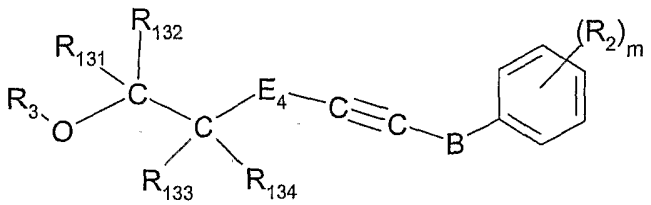
(III),

wherein R_2 and m are as defined and W is a leaving group such as, for example, halogen or trifluoromethanesulfonate (-OTf), in the presence of a palladium catalyst under Sonogashira reaction conditions (Reaction Scheme 1). The Sonogashira reaction has already been described in detail hereinbefore.

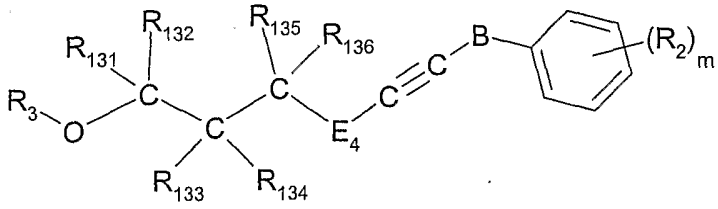
The intermediates of formula $XXIa_3b$, $XXIa_4b$ or $XXIa_5b$



$(XXIa_3b)$,

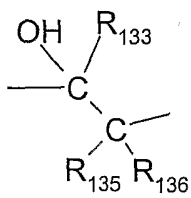


$(XXIa_4b)$ or

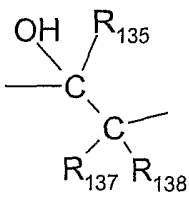


$(XXIa_5b)$,

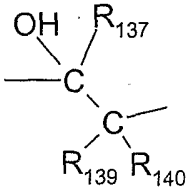
wherein B, R_2, m and R_{131} to R_{136} are as defined for formula I, R_3 is hydrogen or a protecting group for the alcohol function as defined hereinbefore and E_4 is a bridging member



;

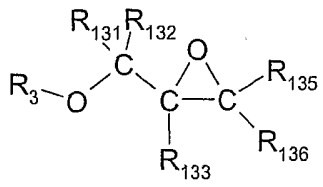


or

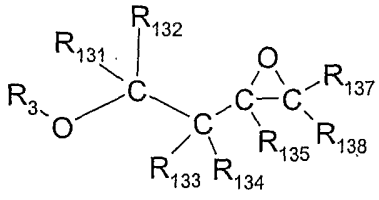


,

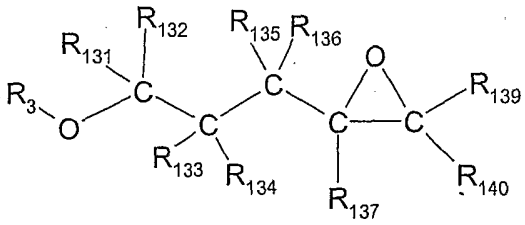
wherein R_{133} and R_{135} to R_{140} are as defined for formula I, may be prepared, for example, by causing a compound of formula $XXIIa_3$, $XXIIa_4$ or $XXIIa_5$



$(XXIIa_3)$,

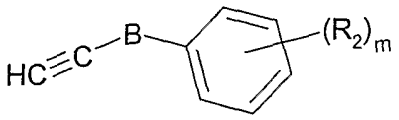


$(XXIIa_4)$ or



$(XXIIa_5)$,

wherein R_{131} to R_{140} and R_3 are as defined, to react with a compound of formula IIb


(IIb),

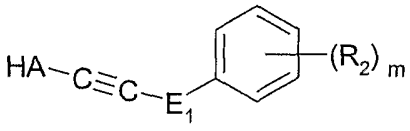
wherein B, R_2 and m are as defined, in the presence

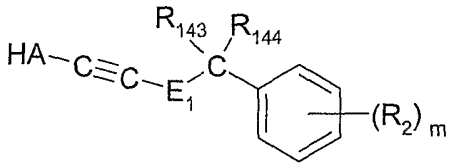
a) of a strong base or

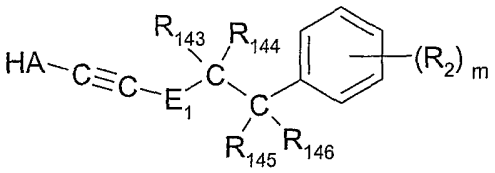
b) of zinc salts and a base

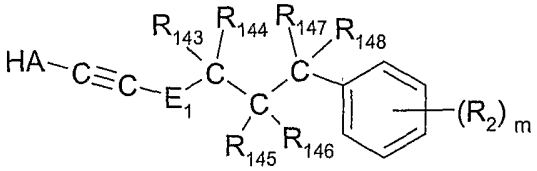
in an inert organic solvent at temperatures from –100° to 50°C. That reaction has also been described in detail hereinbefore.

The intermediates of formula $XXIIIab_1$, $XXIIIab_2$, $XXIIIab_3$ or $XXIIIab_4$

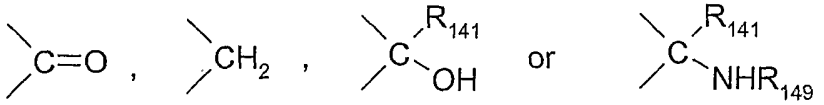

($XXIIIab_1$),


($XXIIIab_2$),

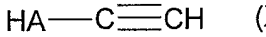

($XXIIIab_3$) or


($XXIIIab_4$),

wherein A, R_2, m and R_{143} to R_{148} are as defined for formula I, it being possible for the alcohol function in group A to be protected by a protecting group for alcohols such as, for example, MOM, benzyl, benzoyl, acetyl, allyl, tetrahydropyranyl, tert-butyloxycarbonyl (BOC), benzyloxycarbonyl, trialkylsilyl, phenyl-dialkylsilyl or di-phenyl-alkylsilyl, and E_1 is a bridging member

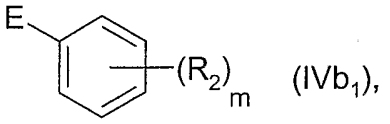


wherein R_{141} is as defined for formula I and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, may be prepared by causing a compound of formula XII

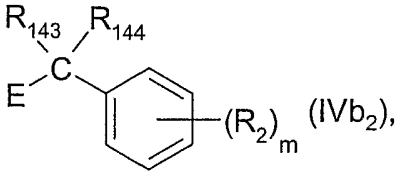


HA—C≡CH (XII),

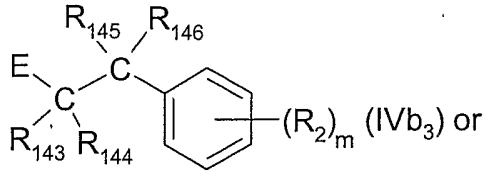
wherein A is as defined, to react with a compound of formula IVb_1, IVb_2, IVb_3 or IVb_4



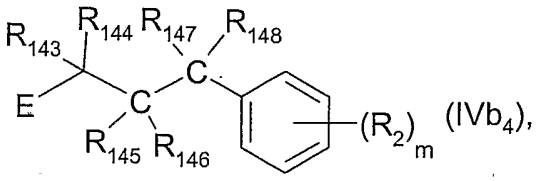
(IVb_1),



(IVb_2),

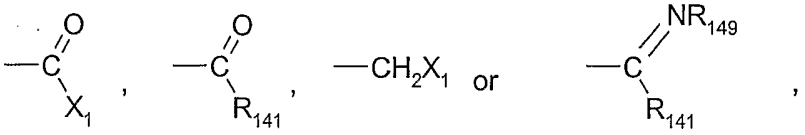


(IVb_3) or



(IVb_4),

wherein R_2, m and R_{143} to R_{148} are as defined and E is an electrophilic functional group



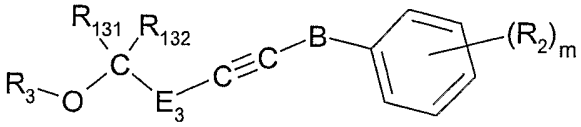
wherein R_{141} and R_{149} are as defined and X_1 is a leaving group such as, for example, halogen, e.g. fluorine, chlorine, bromine or iodine, or a sulfonate, e.g. -OTosyl (-OTs), -OMesyl (-OMs) or triflate (-OTf), $CH_3(CH_3O)N$-, imidazolyl, triazolyl, -OR_4, -SR_4 or -$N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl, in the presence

a) of a strong base or

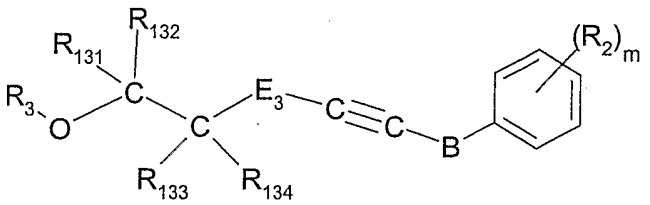
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C, it being possible for the alcohol-protecting group to be removed and for the exposed hydroxyl function to be used for further reactions, e.g. nucleophilic aromatic substitution.

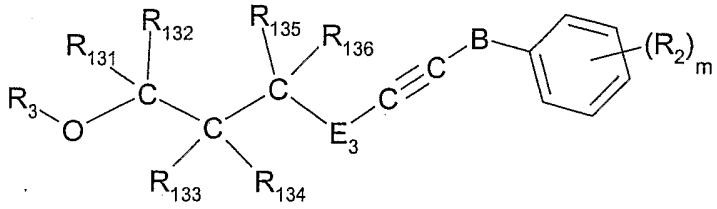
The intermediates of formula $XXVa_2b$, $XXVa_3b$, $XXVa_4b$ or $XXVa_5b$



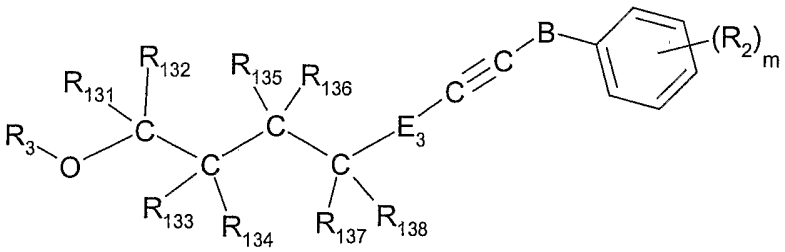
($XXVa_2b$),



($XXVa_3b$),

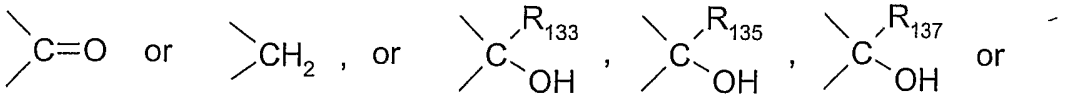


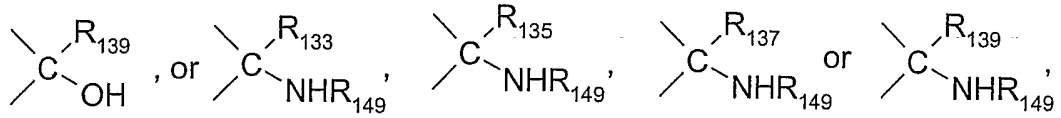
($XXVa_4b$) or



($XXVa_5b$),

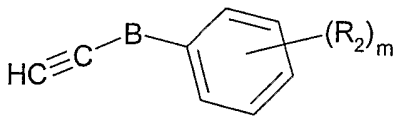
wherein R_2, B, R_{131} to R_{138} and m are as defined for formula I, R_3 is hydrogen or a protecting group for the alcohol function, e.g. MOM, benzyl, benzoyl, acetyl, allyl, tetrahydropyranyl, BOC or benzyloxycarbonyl, and E_3 is a bridging member



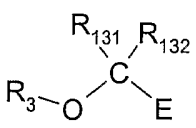
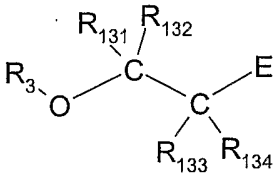


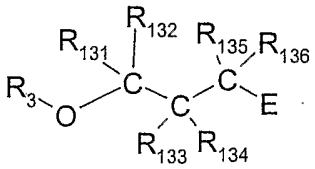
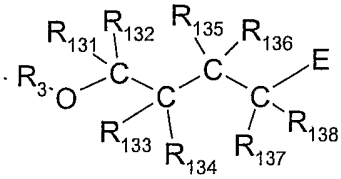
wherein R_{133}, R_{135}, R_{137} and R_{139} are as defined for formula I and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl

rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined for formula I, may be prepared by causing a compound of formula IIb

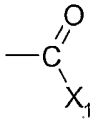

(IIb),

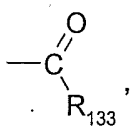
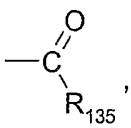
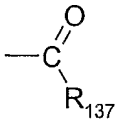
wherein R_2, B and m are as defined, to react with a compound of formula $XXIVa_2$, $XXIVa_3$, $XXIVa_4$ or $XXIVa_5$

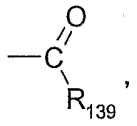
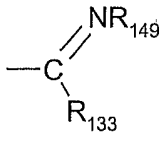
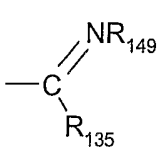
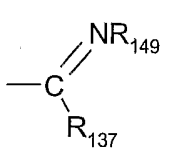

($XXIVa_2$),

($XXIVa_3$),

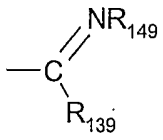

($XXIVa_4$) or

($XXIVa_5$),

wherein R_3 and R_{131} to R_{138} are as defined and E is an electrophilic functional group


or

, or

,

,

or


, or

,

,

or


,

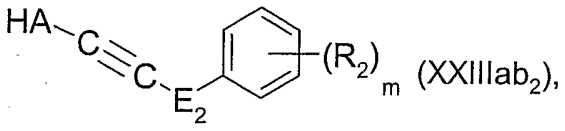
wherein R_{133}, R_{135}, R_{137}, R_{139} and R_{149} are as defined and X_1 is a leaving group such as, for example, halogen, e.g. fluorine, chlorine, bromine or iodine, or sulfonate, e.g. para-toluenesulfonate (-OTs, tosylate), methanesulfonate (-OMs, mesylate) or trifluoromethanesulfonate (-OTf, triflate), or $CH_3(CH_3O)N$-, imidazolyl, triazolyl, -OR_4, -SR_4 or -$N(R_4)_2$, wherein R_4 is C_1-C_6alkyl, C_1-C_6haloalkyl or phenyl, in the presence

a) of a strong base or

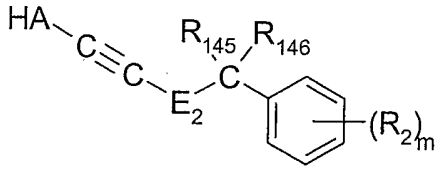
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

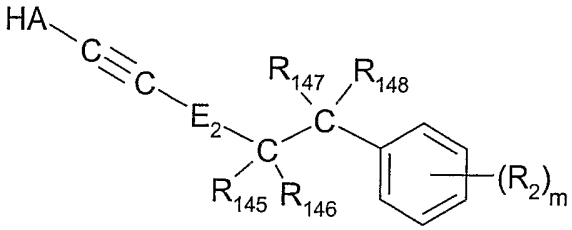
The intermediates of formula $XXIIIab_2$, $XXIIIab_3$ or $XXIIIab_4$



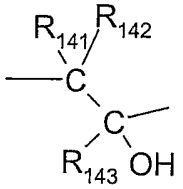
($XXIIIab_2$),



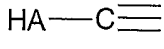
($XXIIIab_3$) or



($XXIIIab_4$),

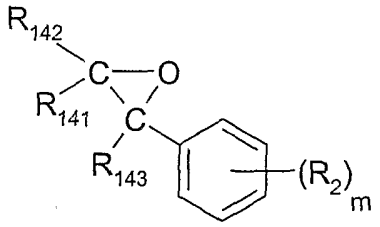
wherein A, R_2, R_{145} to R_{148} and m are as defined for formula I, it being possible for the alcohol function in group A to be protected by a protecting group for alcohols such as, for example, MOM, benzyl, benzoyl, acetyl, allyl, tetrahydropyranyl, tert-butyloxycarbonyl (BOC), benzyloxycarbonyl, trialkylsilyl, phenyl-dialkylsilyl or di-phenyl-alkylsilyl, and E_2 is a bridging member 

, wherein R_{141}, R_{142} and R_{143} are as defined for formula I, may be prepared by causing a compound of formula XII

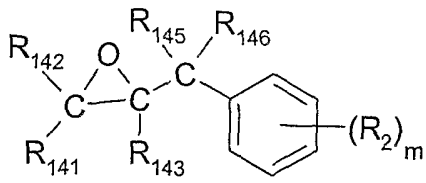


(XII),

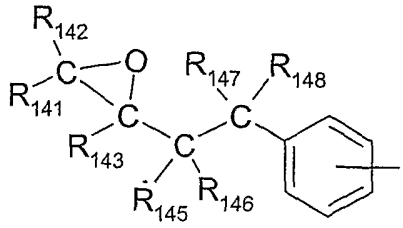
wherein A is as defined, to react with a compound of formula Vb_2, Vb_3 or Vb_4



(Vb$_2$),



(Vb$_3$) or



(Vb$_4$),

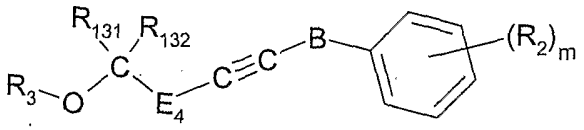
wherein R_2, m, R_{141} to R_{143}, and R_{145} to R_{148} are as defined, in the presence

a) of a strong base or

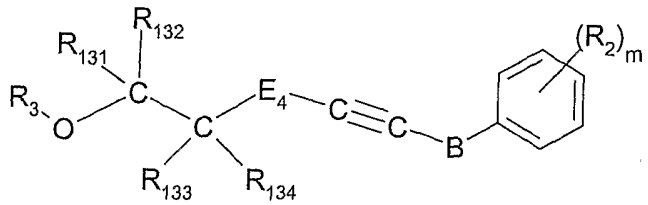
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C, it being possible for the alcohol-protecting group to be removed by means of suitable treatment and for the exposed hydroxyl function to be used for further reactions.

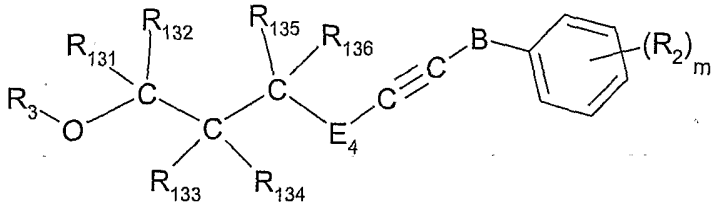
The intermediates of formula XXVa$_3$b, XXVa$_4$b or XXVa$_5$b



(XXVa$_3$b),

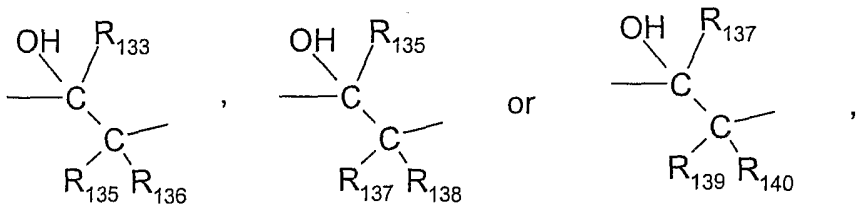


(XXVa$_4$b) or

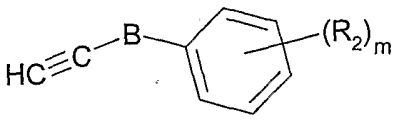


(XXVa$_5$b),

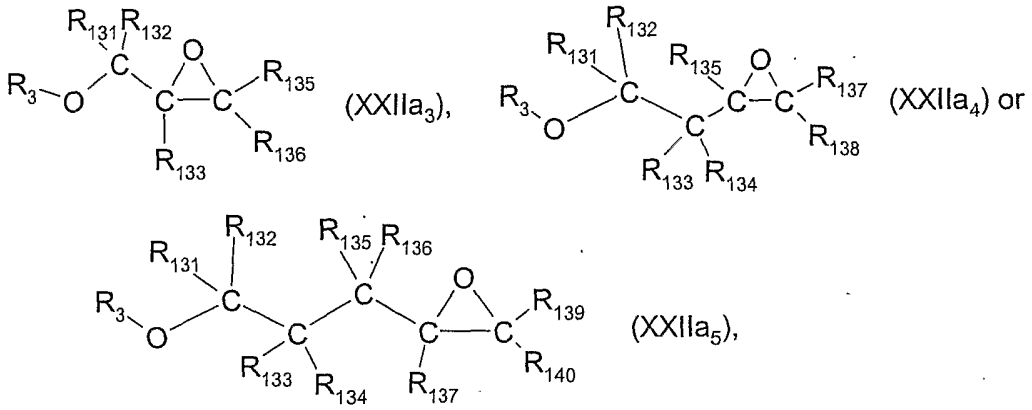
wherein R_2, B, R_{131} to R_{136} and m are as defined for formula I, R_3 is hydrogen or a protecting group for the alcohol function such as, for example, MOM, benzyl, benzoyl, acetyl, allyl, tetrahydropyranyl, tert-butyloxycarbonyl (BOC), benzyloxycarbonyl, trialkylsilyl, phenyl-dialkylsilyl or di-phenyl-alkylsilyl, and E_4 is a bridging member



wherein R_{133} and R_{135} to R_{140} are as defined for formula I, may be prepared by causing a compound of formula IIb



wherein R_2, B and m are as defined, to react with a compound of formula $XXIIa_3$, $XXIIa_4$ or $XXIIa_5$



wherein R_{131} to R_{140} and R_3 are as defined, in the presence

a) of a strong base or

b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

The following applies to the individual reaction steps:

The reactions resulting in the compounds of formula I, Iab_0, Iab_1 to Iab_4 or Ia_2b to Ia_5b are advantageously carried out in aprotic, inert solvents. Such solvents are hydrocarbons, e.g. benzene, toluene, xylene or cyclohexane, chlorinated hydrocarbons, e.g. dichloromethane, trichloromethane, tetrachloromethane or chlorobenzene, ethers, e.g. diethyl ether, ethylene glycol dimethyl ether, diethylene glycol dimethyl ether, tetrahydrofuran or dioxane, nitriles, e.g. acetonitrile or propionitrile, and amides, e.g. N,N-dimethylformamide, diethylformamide or N-methylpyrrolidinone. The reaction temperatures are preferably from -20°C to +120°C. The reactions are generally slightly

exothermic and may usually be carried out at room temperature. In order to shorten the reaction time or else to initiate the reaction, brief heating up to the boiling point of the reaction mixture may be carried out, where appropriate. The reaction times may also be reduced by adding a few drops of base as reaction catalyst. Especially suitable bases are tertiary amines, e.g. trimethylamine, triethylamine, quinuclidine, 1,4-diazabicyclo[2.2.2]octane, 1,5-diazabicyclo[4.3.0]non-5-ene or 1,5-diazabicyclo[5.4.0]-undec-7-ene. It is, however, also possible for inorganic bases such as hydrides, e.g. sodium or calcium hydride, hydroxides, e.g. sodium or potassium hydroxide, carbonates, e.g. sodium or potassium carbonate, or hydrogen carbonates, e.g. potassium or sodium hydrogen carbonate, to be used as bases.

The compounds of formula I, Iab_0, Iab_1 to Iab_4 or Ia_2b to Ia_5b may be isolated in conventional manner by concentration and/or evaporation of the solvent and purified by recrystallisation or trituration of the solid residue in solvents in which they are not readily soluble, such as ethers, aromatic hydrocarbons or chlorinated hydrocarbons.

The starting compounds of formulae IIb, III, IVb_1 to IVb_4, Vb_2 to Vb_4, VIa_1 to VIa_4, VII_1, VIII, IXa_1 to IXa_5, Xa_1 to Xa_5, XIa_3 to XIa_5, $XIIIa_1$ to $XIIIa_5$, $XIVa_1$ to $XIVa_5$, XVI, $XVIIa_1$ to $XVIIa_5$, $XVIIIa_1$ to $XVIIIa_5$, XXa_1 to XXa_5, $XXIIa_3$ to $XXIIa_5$ and $XXIVa_2$ to $XXIVa_5$ used for preparation of the compounds of formula I, Iab_0, Iab_1 to Iab_4 or Ia_2b to Ia_5b are for the most part known or they may be prepared in analogy to known methods. The starting compounds of formulae VII and XII are likewise known and in some cases are commercially available, or they can be prepared in analogy to known methods.

For the use according to the invention of the compounds of formula I, or of compositions comprising them, there come into consideration all methods of application customary in agriculture, for example pre-emergence application, post-emergence application and seed dressing, and also various methods and techniques such as, for example, the controlled release of active ingredient. For that purpose a solution of the active ingredient is applied to mineral granule carriers or polymerised granules (urea/formaldehyde) and dried. If required, it is also possible to apply a coating (coated granules), which allows the active ingredient to be released in metered amounts over a specific period of time.

The compounds of formula I may be used as herbicides in their unmodified form, that is to say as obtained in the synthesis, but they are preferably formulated in customary manner together with the adjuvants conventionally employed in formulation technology, for example into emulsifiable concentrates, directly sprayable or dilutable solutions, dilute emulsions, wettable powders, soluble powders, dusts, granules or microcapsules. Such formulations are described, for example, on pages 9 to 13 of WO 97/34485. As with the nature of the compositions, the methods of application, such as spraying, atomising, dusting, wetting, scattering or pouring, are chosen in accordance with the intended objectives and the prevailing circumstances.

The formulations, that is to say the compositions, preparations or mixtures comprising the compound (active ingredient) of formula I, or at least one compound of formula I, and, usually, one or more solid or liquid formulation adjuvants, are prepared in known manner, e.g. by homogeneously mixing and/or grinding the active ingredient(s) with the formulation adjuvants, for example solvents or solid carriers. Surface-active compounds (surfactants) may also be used in addition in the preparation of the formulations. Examples of solvents and solid carriers are given, for example, on page 6 of WO 97/34485.

Depending upon the nature of the compound of formula I to be formulated, suitable surface-active compounds are non-ionic, cationic and/or anionic surfactants and surfactant mixtures having good emulsifying, dispersing and wetting properties. Examples of suitable anionic, non-ionic and cationic surfactants are listed, for example, on pages 7 and 8 of WO 97/34485. In addition, the surfactants conventionally employed in formulation technology, which are described, *inter alia*, in "McCutcheon's Detergents and Emulsifiers Annual" MC Publishing Corp., Ridgewood New Jersey, 1981, Stache, H., "Tensid-Taschenbuch", Carl Hanser Verlag, Munich/Vienna, 1981, and M. and J. Ash, "Encyclopedia of Surfactants", Vol. I-III, Chemical Publishing Co., New York, 1980-81, are also suitable for the preparation of the herbicidal compositions according to the invention.

The herbicidal formulations generally contain from 0.1 to 99 % by weight, especially from 0.1 to 95 % by weight, of herbicide, from 1 to 99.9 % by weight, especially from 5

to 99.8 % by weight, of a solid or liquid formulation adjuvant, and from 0 to 25 % by weight, especially from 0.1 to 25 % by weight, of a surfactant. Whereas commercial products will preferably be in the form of concentrates, the end user will normally employ dilute formulations. The compositions may also comprise further ingredients, such as stabilisers, for example vegetable oils or epoxidised vegetable oils (epoxidised coconut oil, rapeseed oil or soybean oil), anti-foams, for example silicone oil, preservatives, viscosity regulators, binders, tackifiers, and also fertilisers or other active ingredients.

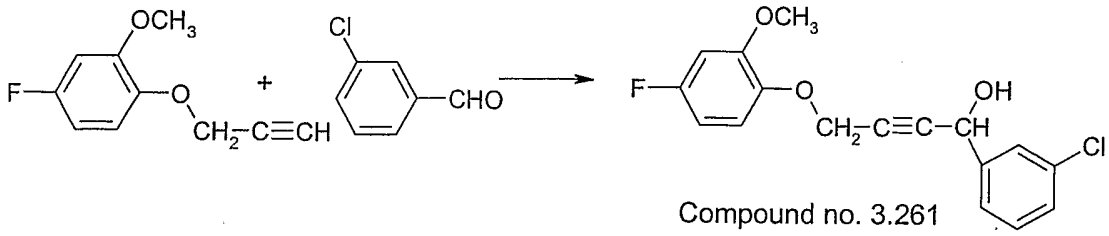
The compounds of formula I are generally applied to the plant or the locus thereof at rates of application of from 0.001 to 4 kg/ha, especially from 0.005 to 2 kg/ha. The concentration required to achieve the desired effect can be determined by experiment. It is dependent on the nature of the action, the stage of development of the cultivated plant and of the weed and on the application (place, time, method) and may vary within wide limits as a function of those parameters.

The compounds of formula I are distinguished by herbicidal and growth-inhibiting properties, allowing them to be used in crops of useful plants, especially cereals, cotton, soybeans, sugar beet, sugar cane, plantation crops, rape, maize and rice, and also for non-selective weed control. The term "crops" is to be understood as including also crops that have been made tolerant to herbicides or classes of herbicides as a result of conventional methods of breeding or genetic engineering techniques. The weeds to be controlled may be either monocotyledonous or dicotyledonous weeds, such as, for example, Stellaria, Nasturtium, Agrostis, Digitaria, Avena, Setaria, Panicum, Sinapis, Lolium, Solanum, Echinochloa, Scirpus, Euphorbia, Monochoria, Sagittaria, Bromus, Alopecurus, Sorghum halepense, Rottboellia, Cyperus, Abutilon, Sida, Xanthium, Amaranthus, Chenopodium, Ipomoea, Chrysanthemum, Galium, Viola and Veronica.

The following Examples further illustrate the invention.

Preparation Examples:

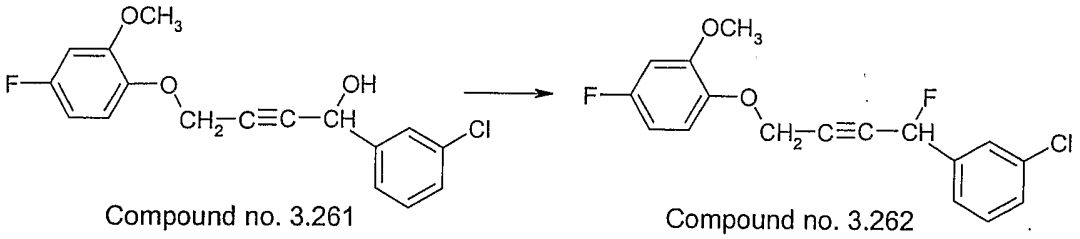
Example P1: Preparation of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-chlorophenyl)-1-hydroxy-but-2-yne



Compound no. 3.261

7.11 g (39.46 mmol) of 4-fluoro-2-methoxy-O-propargyl-phenol ether are dissolved in 70 ml of THF. 43.4 ml of lithium bis(trimethylsilyl)amide (1.1 equivalents) in hexane (1M solution) are then added dropwise at –65° to –70°C over the course of 10 minutes and stirring is carried out for a further 30 minutes at –70°C. With the aid of a syringe, 6.29 ml of 3-chlorobenzaldehyde (1.1 equivalents) are slowly added at –63°C and further stirring is carried out while the coolant becomes warmer. After 4 hours, aqueous ammonium chloride solution is added to the reaction mixture at –45°C and the resulting mixture is partitioned between diethyl ether and ice-water. The organic phase that is separated off is washed with dilute brine solution and dried over sodium sulfate. After filtering, concentration under reduced pressure is carried out and the resulting residue is subjected to flash chromatography on a silica gel column (eluant: ethyl acetate/hexane 1/3). The desired title compound is obtained in a yield of 7.88 g (62.3 % of theory) in the form of brown-yellow crystals.

Example P2: Preparation of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-chlorophenyl)-1-fluoro-but-2-yne

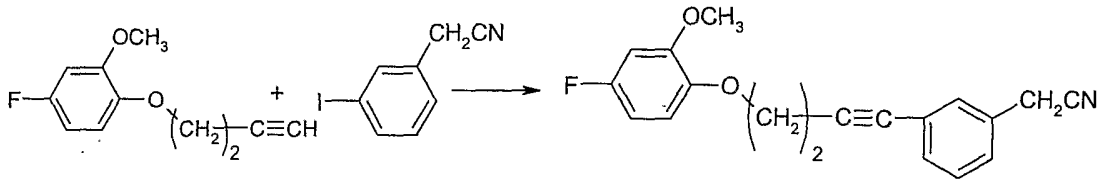


Compound no. 3.261 Compound no. 3.262

0.59 g (1.839 mmol) of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-chlorophenyl)-1-hydroxy-but-2-yne (Example P1) is dissolved in 15 ml of dichloromethane and, at –65° to –70°C, 0.30 ml of diethylaminosulfur trifluoride ($(C_2H_5)_2NSF_3$, DAST, 95 %) is added. The reaction mixture is stirred for a further 45 minutes at –70°C, then ice-water is added and extraction with diethyl ether is carried out. The organic phase that is separated off is washed with dilute brine solution and dried over sodium sulfate; the desiccant is filtered

off and the solvent is evaporated off under reduced pressure. The residue obtained is subjected to flash chromatography (eluant: ethyl acetate/hexane 1/8). The desired title compound is obtained in a yield of 0.12 g (20.3 % of theory) in the form of a yellow oil.

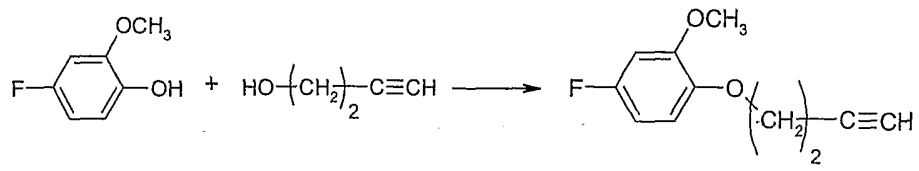
Example P3: Preparation of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-phenyl-acetonitrile)-but-1-yne



Compound no. 1.013

509.2 mg (2.1 mmol) of 3-iodo-1-phenylacetonitrile are introduced into piperidine under an argon atmosphere and stirred for 30 minutes. Then 117.95 mg (0.102 mmol) of tetrakis(triphenylphosphine)palladium ($Pd[(C_6H_5)_3P]_4$) are added and stirred for 1 hour until a clear solution is formed. Then 400 mg (2.083 mmol) of 4-fluoro-2-methoxy-O-4-(but-1-ynyl)-phenol ether (Example P4) are dissolved in piperidine and, immediately afterwards, 34.10 mg (0.179 mmol) of copper(I) iodide are added in one portion. Stirring is carried out for a further 2.5 hours at 25°C. The reaction mixture is poured into 150 ml of ammonium chloride solution, stirred well and extracted three times with diethyl ether. The combined organic phases are washed with 2 portions each of ammonium chloride solution, water and brine and concentrated by evaporation under reduced pressure. The yellow-brown oil obtained is purified by silica gel chromatography (eluant: ethyl acetate/hexane 1/4). The desired target compound is obtained in the form of a yellow powder in a yield of 230 mg (35.7 % of theory) with a melting point of 69-71°C.

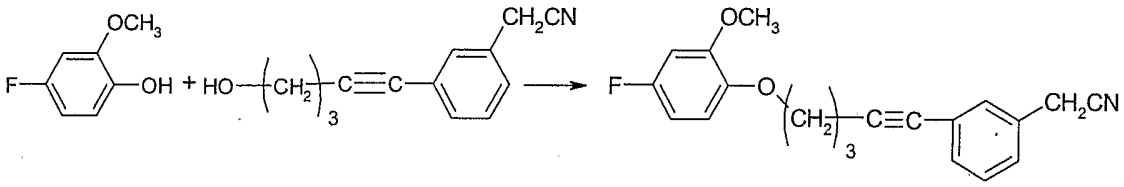
Example P4: Preparation of 4-fluoro-2-methoxy-O-4-(but-1-ynyl)-phenol ether



1.5 g (10.56 mmol) of 4-fluoro-2-methoxyphenol are introduced into 120 ml of dichloromethane and there are then added, with stirring, 4.5 g and 9.0 g (37.56 mmol) of polymer-bound triphenylphosphine (polymer-$C_6H_4P(C_6H_5)_2$, on copolymer of 98 % styrene and 2 % divinylbenzene) in 2 portions and then 1.4718 g (21 mmol) of 3-butyn-

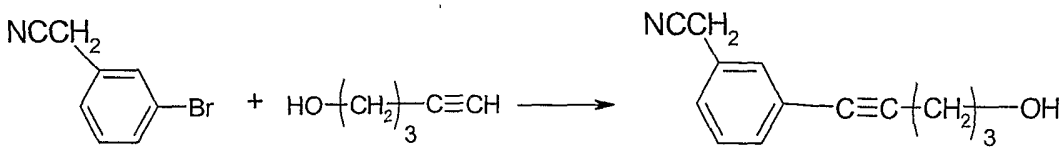
1-ol dissolved in a small amount of dichloromethane. Then 7.267 g (31.56 mmol) of azodicarboxylic acid diethyl ester (DEAD) are added in portions and the brown reaction mixture is stirred overnight at 25°C. GC analysis shows a conversion of more than 66 %. For working up, 60 ml of trifluoroacetic acid are added to the reaction mixture and the mixture is stirred at 25°C for 1.5 hours. The reaction mixture is poured into 300 ml of ammonium chloride solution, stirred well and extracted three times with diethyl ether. The combined organic phases are washed with 2 portions each of ammonium chloride solution, water and brine and concentrated by evaporation under reduced pressure. The desired title compound is obtained in the form of a viscous oil in a crude yield of 810 mg (40 % of theory).

Example P5: Preparation of 5-(4-fluoro-2-methoxy-phenoxy)-1-(3-phenylacetonitrile)-pent-1-yne



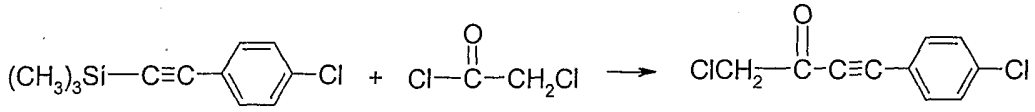
500 mg (3.52 mmol) of 4-fluoro-2-methoxyphenol are introduced into 40 ml of dichloromethane under a nitrogen atmosphere at 25°C and 300 mg (9.0 mmol) of polymer-bound triphenylphosphine are added. Then 1393 mg (7.0 mmol) of 5-(3-phenylacetonitrile)-pent-4-yn-1-ol (Example P6) dissolved in a small amount of dichloromethane are slowly added dropwise; then 1612 mg (7.0 mmol) of DEAD are added in portions and that reaction mixture is stirred overnight at 25°C. For working up of the reaction mixture, 20 ml of trifluoroacetic acid are added to the mixture, which is stirred for 1.5 hours at 25°C. The reaction mixture is poured into 150 ml of ammonium chloride solution, stirred well and extracted three times with diethyl ether. The combined organic phases are washed with 2 portions each of ammonium chloride solution, water and brine and concentrated by evaporation under reduced pressure. The target compound is obtained in the form of a brown oil in a crude yield of 1.67 g. Purification by means of HPLC column chromatography (eluant: ethyl acetate/hexane 1/3 and ethyl acetate as gradient mobile phase over 14 minutes) yields 370 mg of the desired target compound in the form of a yellow oil.

Example P6: Preparation of 5-(3-phenylacetonitrile)-pent-4-yn-1-ol



To a solvent mixture of 75 ml of toluene and 150 ml of n-butylamine under a nitrogen atmosphere there are added first 9.80 g (0.05 mol) of 3-bromo-phenylacetonitrile and then 701.9 mg (0.001 mol) of bis(triphenylphosphine)palladium dichloride ($PdCl_2(PPh_3)_2$) and 190.44 mg (0.001 mol) of copper(I) iodide at 20°C. Then, at 20°C, 8.42 g (0.10 mol) of 4-pentyn-1-ol, dissolved in a toluene/n-butylamine mixture, are slowly added dropwise, whereupon a yellow-brown clear solution is formed, which is heated at 100°C for 5 hours, with stirring. The reaction mixture is then concentrated completely under reduced pressure, the residue obtained is stirred in a mixture of 100 ml each of ethyl acetate and of water and the two phase-separated solvents are separated off from one another. The aqueous phase is extracted three times with ethyl acetate and the combined organic phases are dried over magnesium sulfate, filtered and concentrated by evaporation *in vacuo*. A brown oil is obtained in a crude yield of 14.01 g, which is purified by means of column chromatography (eluant: ethyl acetate/hexane 1/4 to 1/1 as gradient mobile phase). The desired title compound is obtained in the form of a brown oil in a yield of 5.95 g.

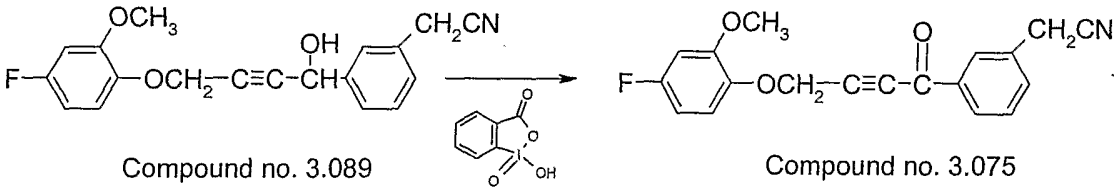
Example P7: Preparation of 1-chloro-4-(4-chlorophenyl)-but-3-yn-2-one (Helv. Chim. Acta 85, 3052-3077 (2002)



To 1.26 g (1.3 equivalents) of aluminium trichloride ($AlCl_3$), for the most part dissolved in 20 ml of dichloromethane there are added dropwise, at –10°C, with cooling in an ice/ethanol mixture, a solution of 1.50 g (1 equivalent, 7.185 mmol) of 1-(4-chlorophenyl)-2-(trimethylsilyl)acetylene, 0.58 ml (1 equivalent) of chloroacetyl chloride and 10 ml of dichloromethane over 20 minutes, the reaction mixture becoming a violet-brown colour. Further stirring is then carried out while the coolant mixture slowly warms up to –2°C (internal temperature), that is to say until TLC monitoring indicates that conversion is complete (about 45 minutes). Then the reaction mixture, having warmed up

to –2°C, is cautiously quenched by adding small pieces of ice, and partitioning between diethyl ether and aqueous solution is carried out. The separated organic phase is washed with brine and dried over sodium sulfate. After evaporating off the solvent under reduced pressure, 2.97 g of a solid brown residue are obtained. Purification of that residue is carried out by means of silica gel chromatography (eluant: ethyl acetate/hexane 1:10). The desired title compound is obtained in a yield of 1.1 g (71.9 % of theory) in the form of a yellow-brown solid having a purity of > 95 %.

Example P8: Preparation of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-cyanomethylphenyl)but-2-yn-1-one (compound no. 3.075)



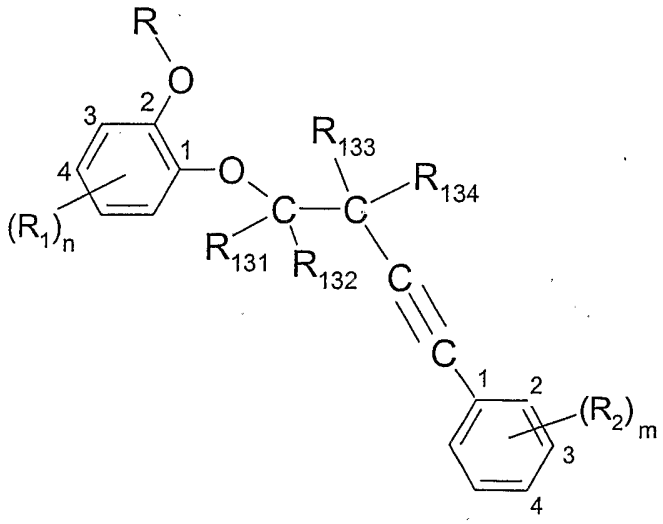
Compound no. 3.089 Compound no. 3.075

To a solution of 0.32 g (0.915 mmol) of 4-(4-fluoro-2-methoxy-phenoxy)-1-(3-cyanomethylphenyl)-1-hydroxy-but-2-yne (compound no. 3.089) in 15 ml of ethyl acetate there is added 0.77 g (3 equivalents) of o-iodoxybenzoic acid (IBX; see Organic Letters 4(17), 3001-3003 (2002)) and stirring is carried out for 3.5 hours at 90°C. TLC monitoring shows conversion is complete. The reaction mixture is cooled in an ice bath and the precipitated solid is filtered off. The filtrate is washed with dilute sodium hydrogen carbonate solution and then with brine, dried over sodium sulfate and concentrated under reduced pressure. 0.31 g of a brown-yellow resin is obtained as the crude product, which is purified by means of silica gel chromatography (eluant: ethyl acetate/hexane 1/4). 0.20 g (67.6 % of theory) of the desired title compound is obtained in the form of a yellow oil.

MS (ESI): m/z = 322 $[M-H]^-$.

It is also possible for the preferred compounds listed in the following Tables to be obtained in a manner analogous to that described in Examples P1 to P8 or by the methods described in the references indicated. In the Table A the compounds prepared from Table 1-3 are compiled with physico-chemical data and technical aspects, respectively.

Table 1: Compounds of formula $Ia_2b_0Q_1$:



($Ia_2b_0Q_1$)

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.001	CH_3	H (n=0)	H (m=0)	H	H	H	H
1.002	CH_3	4-F	H (m=0)	H	H	H	H
1.003	CH_3	4-Cl	H (m=0)	H	H	H	H
1.004	CH_3	4-Br	H (m=0)	H	H	H	H
1.005	CH_3	4-I	H (m=0)	H	H	H	H
1.006	CH_3	4-CF_3	H (m=0)	H	H	H	H
1.007	CH_3	4-CN	H (m=0)	H	H	H	H
1.008	CH_3	4-CHO	H (m=0)	H	H	H	H
1.009	CH_3	4-CH=$NOCH_3$	H (m=0)	H	H	H	H
1.010	CH_3	4-CH_3	H (m=0)	H	H	H	H
1.011	CH_3	4-CH=CCl_2	H (m=0)	H	H	H	H
1.012	CH_3	H (n=0)	3-CH_2CN	H	H	H	H
1.013	CH_3	4-F	3-CH_2CN	H	H	H	H
1.014	CH_3	4-Cl	3-CH_2CN	H	H	H	H
1.015	CH_3	4-Br	3-CH_2CN	H	H	H	H
1.016	CH_3	4-I	3-CH_2CN	H	H	H	H
1.017	CH_3	4-CF_3	3-CH_2CN	H	H	H	H
1.018	CH_3	4-CN	3-CH_2CN	H	H	H	H
1.019	CH_3	4-CHO	3-CH_2CN	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.020	CH_3	4-CH=NOCH$_3$	3-CH_2CN	H	H	H	H
1.021	CH_3	4-CH_3	3-CH_2CN	H	H	H	H
1.022	CH_3	4-CH=CCl_2	3-CH_2CN	H	H	H	H
1.023	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	H	H
1.024	CH_3	4-F	3-CH_2CN, 4-F	H	H	H	H
1.025	CH_3	4-Br	3-CH_2CN, 4-F	H	H	H	H
1.026	CH_3	4-CN	3-CH_2CN, 4-F	H	H	H	H
1.027	CH_3	4-CF_3	3-CH_2CN, 4-F	H	H	H	H
1.028	CH_3	4-CH=NOCH$_3$	3-CH_2CN, 4-F	H	H	H	H
1.029	CH_3	H (n=0)	3-CH_2CN, 6-F	H	H	H	H
1.030	CH_3	4-F	3-CH_2CN, 6-F	H	H	H	H
1.031	CH_3	4-Br	3-CH_2CN, 6-F	H	H	H	H
1.032	CH_3	4-CN	3-CH_2CN, 6-F	H	H	H	H
1.033	CH_3	4-CF_3	3-CH_2CN, 6-F	H	H	H	H
1.034	CH_3	4-CH=NOCH$_3$	3-CH_2CN, 6-F	H	H	H	H
1.035	CH_3	H (n=0)	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.036	CH_3	4-F	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.037	CH_3	4-Br	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.038	CH_3	4-CN	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.039	CH_3	4-CF_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.040	CH_3	4-CH=NOCH$_3$	3-CH_2CN, 4-F, 6-F	H	H	H	H
1.041	CH_3	4-F	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
1.042	CH_3	4-I	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
1.043	CH_3	4-CN	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
1.044	CH_3	4-CF_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
1.045	CH_3	4-CH=NOCH$_3$	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
1.046	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	H	H
1.047	CH_3	4-F	3-$CH(CH_3)CN$	H	H	H	H
1.048	CH_3	4-Cl	3-$CH(CH_3)CN$	H	H	H	H
1.049	CH_3	4-Br	3-$CH(CH_3)CN$	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.050	CH_3	4-I	3-$CH(CH_3)CN$	H	H	H	H
1.051	CH_3	4-CF_3	3-$CH(CH_3)CN$	H	H	H	H
1.052	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	H	H
1.053	CH_3	4-CHO	3-$CH(CH_3)CN$	H	H	H	H
1.054	CH_3	4-$CH=NOCH_3$	3-$CH(CH_3)CN$	H	H	H	H
1.055	CH_3	4-CH_3	3-$CH(CH_3)CN$	H	H	H	H
1.056	CH_3	4-$CH=CCl_2$	3-$CH(CH_3)CN$	H	H	H	H
1.057	CH_3	H (n=0)	3-CHF_2	H	H	H	H
1.058	CH_3	4-F	3-CHF_2	H	H	H	H
1.059	CH_3	4-Cl	3-CHF_2	H	H	H	H
1.060	CH_3	4-Br	3-CHF_2	H	H	H	H
1.061	CH_3	4-I	3-CHF_2	H	H	H	H
1.062	CH_3	4-CF_3	3-CHF_2	H	H	H	H
1.063	CH_3	4-CN	3-CHF_2	H	H	H	H
1.064	CH_3	4-CHO	3-CHF_2	H	H	H	H
1.065	CH_3	4-$CH=NOCH_3$	3-CHF_2	H	H	H	H
1.066	CH_3	4-CH_3	3-CHF_2	H	H	H	H
1.067	CH_3	4-$CH=CCl_2$	3-CHF_2	H	H	H	H
1.068	CH_3	H (n=0)	3-CHF_2, 4-F	H	H	H	H
1.069	CH_3	4-F	3-CHF_2, 4-F	H	H	H	H
1.070	CH_3	4-Br	3-CHF_2, 4-F	H	H	H	H
1.071	CH_3	4-CN	3-CHF_2, 4-F	H	H	H	H
1.072	CH_3	4-CF_3	3-CHF_2, 4-F	H	H	H	H
1.073	CH_3	4-$CH=NOCH_3$	3-CHF_2, 4-F	H	H	H	H
1.074	CH_3	H (n=0)	3-CH_2CN	H	H	=O	
1.075	CH_3	4-F	3-CH_2CN	H	H	=O	
1.076	CH_3	4-Br	3-CH_2CN	H	H	=O	
1.077	CH_3	4-CH_3	3-CH_2CN	H	H	=O	
1.078	CH_3	4-CN	3-CH_2CN	H	H	=O	
1.079	CH_3	4-CF_3	3-CH_2CN	H	H	=O	

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.080	CH_3	4-CH=NOCH$_3$	3-CH_2CN	H	H	=O	
1.081	CH_3	H (n=0)	3-CHF_2	H	H	=O	
1.082	CH_3	4-F	3-CHF_2	H	H	=O	
1.083	CH_3	4-Br	3-CHF_2	H	H	=O	
1.084	CH_3	4-CH_3	3-CHF_2	H	H	=O	
1.085	CH_3	4-CN	3-CHF_2	H	H	=O	
1.086	CH_3	4-CF_3	3-CHF_2	H	H	=O	
1.087	CH_3	4-CH=NOCH$_3$	3-CHF_2	H	H	=O	
1.088	CH_3	H (n=0)	3-CH_2CN	H	H	OH	H
1.089	CH_3	4-F	3-CH_2CN	H	H	OH	H
1.090	CH_3	4-Br	3-CH_2CN	H	H	OH	H
1.091	CH_3	4-CH_3	3-CH_2CN	H	H	OH	H
1.092	CH_3	4-CN	3-CH_2CN	H	H	OH	H
1.093	CH_3	4-CF_3	3-CH_2CN	H	H	OH	H
1.094	CH_3	4-CH=NOCH$_3$	3-CH_2CN	H	H	OH	H
1.095	CH_3	H (n=0)	3-CH_2CN	H	H	F	H
1.096	CH_3	4-F	3-CH_2CN	H	H	F	H
1.097	CH_3	4-Br	3-CH_2CN	H	H	F	H
1.098	CH_3	4-CH_3	3-CH_2CN	H	H	F	H
1.099	CH_3	4-CN	3-CH_2CN	H	H	F	H
1.100	CH_3	4-CF_3	3-CH_2CN	H	H	F	H
1.101	CH_3	4-CH=NOCH$_3$	3-CH_2CN	H	H	F	H
1.102	CH_3	4-CN	3-CH_2CN	H	H	F	H
1.103	CH_3	H (n=0)	3-CH_2CN	H	H	F	F
1.104	CH_3	4-F	3-CH_2CN	H	H	F	F
1.105	CH_3	4-Br	3-CH_2CN	H	H	F	F
1.106	CH_3	4-CH_3	3-CH_2CN	H	H	F	F
1.107	CH_3	4-CN	3-CH_2CN	H	H	F	F
1.108	CH_3	4-CF_3	3-CH_2CN	H	H	F	F
1.109	CH_3	4-CH=NOCH$_3$	3-CH_2CN	H	H	F	F

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.110	CH_3	H (n=0)	3-CH_2CN	H	H	OCH_3	H
1.111	CH_3	4-F	3-CH_2CN	H	H	OCH_3	H
1.112	CH_3	4-Br	3-CH_2CN	H	H	OCH_3	H
1.113	CH_3	4-CH_3	3-CH_2CN	H	H	OCH_3	H
1.114	CH_3	4-CN	3-CH_2CN	H	H	OCH_3	H
1.115	CH_3	4-CF_3	3-CH_2CN	H	H	OCH_3	H
1.116	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	OCH_3	H
1.117	CH_3	H (n=0)	3-CH_2CN	H	H	CH_3	H
1.118	CH_3	4-F	3-CH_2CN	H	H	CH_3	H
1.119	CH_3	4-Br	3-CH_2CN	H	H	CH_3	H
1.120	CH_3	4-CH_3	3-CH_2CN	H	H	CH_3	H
1.121	CH_3	4-CN	3-CH_2CN	H	H	CH_3	H
1.122	CH_3	4-CF_3	3-CH_2CN	H	H	CH_3	H
1.123	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	CH_3	H
1.124	CH_3	H (n=0)	3-CH_2CN	H	H	CH_3	CH_3
1.125	CH_3	4-F	3-CH_2CN	H	H	CH_3	CH_3
1.126	CH_3	4-Br	3-CH_2CN	H	H	CH_3	CH_3
1.127	CH_3	4-CH_3	3-CH_2CN	H	H	CH_3	CH_3
1.128	CH_3	4-CN	3-CH_2CN	H	H	CH_3	CH_3
1.129	CH_3	4-CF_3	3-CH_2CN	H	H	CH_3	CH_3
1.130	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	CH_3	CH_3
1.131	CH_3	H (n=0)	3-CH_2CN	H	H	C_2alkylene	
1.132	CH_3	4-F	3-CH_2CN	H	H	C_2alkylene	
1.133	CH_3	4-Br	3-CH_2CN	H	H	C_2alkylene	
1.134	CH_3	4-CH_3	3-CH_2CN	H	H	C_2alkylene	
1.135	CH_3	4-CN	3-CH_2CN	H	H	C_2alkylene	
1.136	CH_3	4-CF_3	3-CH_2CN	H	H	C_2alkylene	
1.137	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	C_2alkylene	
1.138	CH_3	H (n=0)	3-CHF_2	H	H	OH	H
1.139	CH_3	4-F	3-CHF_2	H	H	OH	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.140	CH_3	4-CN	3-CHF_2	H	H	OH	H
1.141	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	OH	H
1.142	CH_3	4-F	3-$CH(CH_3)CN$	H	H	OH	H
1.143	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	OH	H
1.144	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	OH	H
1.145	CH_3	4-F	3-CH_2CN, 4-F	H	H	OH	H
1.146	CH_3	4-CN	3-CH_2CN, 4-F	H	H	OH	H
1.147	CH_3	H (n=0)	3-CHF_2	H	H	F	H
1.148	CH_3	4-F	3-CHF_2	H	H	F	H
1.149	CH_3	4-CN	3-CHF_2	H	H	F	H
1.150	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	F	H
1.151	CH_3	4-F	3-$CH(CH_3)CN$	H	H	F	H
1.152	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	F	H
1.153	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	F	H
1.154	CH_3	4-F	3-CH_2CN, 4-F	H	H	F	H
1.155	CH_3	4-CN	3-CH_2CN, 4-F	H	H	F	H
1.156	CH_3	H (n=0)	3-CHF_2	H	H	F	F
1.157	CH_3	4-F	3-CHF_2	H	H	F	F
1.158	CH_3	4-CN	3-CHF_2	H	H	F	F
1.159	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	F	F
1.160	CH_3	4-F	3-$CH(CH_3)CN$	H	H	F	F
1.161	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	F	F
1.162	CH_3	4-$CH=NOCH_3$	3-$CH(CH_3)CN$	H	H	F	F
1.163	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	F	F
1.164	CH_3	4-F	3-CH_2CN, 4-F	H	H	F	F
1.165	CH_3	4-CN	3-CH_2CN; 4-F	H	H	F	F
1.166	CH_3	H (n=0)	3-CHF_2	H	H	CH_3	F
1.167	CH_3	4-F	3-CHF_2	H	H	CH_3	F
1.168	CH_3	4-CN	3-CHF_2	H	H	CH_3	F
1.169	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	CH_3	F

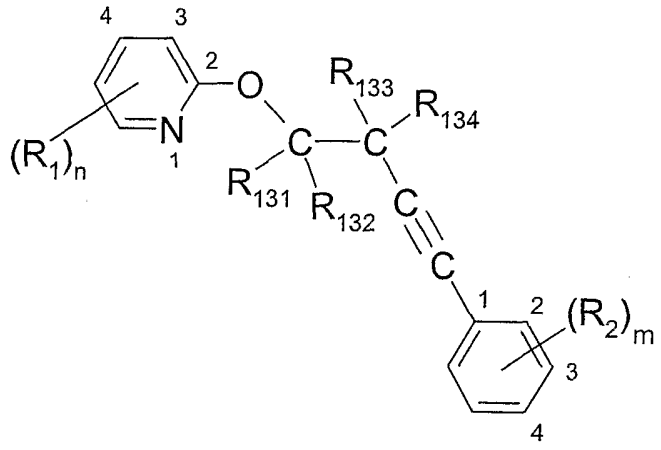
Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.170	CH_3	4-F	3-CH(CH_3)CN	H	H	CH_3	F
1.171	CH_3	4-CN	3-CH(CH_3)CN	H	H	CH_3	F
1.172	CH_3	4-CH=NOCH_3	3-CH(CH_3)CN	H	H	CH_3	F
1.173	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	CH_3	F
1.174	CH_3	4-F	3-CH_2CN, 4-F	H	H	CH_3	F
1.175	CH_3	4-CN	3-CH_2CN, 4-F	H	H	CH_3	F
1.176	CH_3	H (n=0)	3-CHF_2	H	H	CH_3	CH_3
1.177	CH_3	4-F	3-CHF_2	H	H	CH_3	CH_3
1.178	CH_3	4-CN	3-CHF_2	H	H	CH_3	CH_3
1.179	CH_3	H (n=0)	3-CH(CH_3)CN	H	H	CH_3	CH_3
1.180	CH_3	4-F	3-CH(CH_3)CN	H	H	CH_3	CH_3
1.181	CH_3	4-CN	3-CH(CH_3)CN	H	H	CH_3	CH_3
1.182	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	CH_3	CH_3
1.183	CH_3	4-F	3-CH_2CN, 4-F	H	H	CH_3	CH_3
1.184	CH_3	4-CN	3-CH_2CN, 4-F	H	H	CH_3	CH_3
1.185	CH_3	H (n=0)	3-CHF_2	H	H	OCH_3	H
1.186	CH_3	4-F	3-CHF_2	H	H	OCH_3	H
1.187	CH_3	4-CN	3-CHF_2	H	H	OCH_3	H
1.188	CH_3	H (n=0)	3-CH(CH_3)CN	H	H	OCH_3	H
1.189	CH_3	4-F	3-CH(CH_3)CN	H	H	OCH_3	H
1.190	CH_3	4-CN	3-CH(CH_3)CN	H	H	OCH_3	H
1.191	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	OCH_3	H
1.192	CH_3	4-F	3-CH_2CN, 4-F	H	H	OCH_3	H
1.193	CH_3	4-CN	3-CH_2CN, 4-F	H	H	OCH_3	H
1.194	CH_3	H (n=0)	3-CH_2CN	H	CH_3	H	H
1.195	CH_3	4-F	3-CH_2CN	H	CH_3	H	H
1.196	CH_3	4-Br	3-CH_2CN	H	CH_3	H	H
1.197	CH_3	4-CH_3	3-CH_2CN	H	CH_3	H	H
1.198	CH_3	4-CN	3-CH_2CN	H	CH_3	H	H
1.199	CH_3	4-CF_3	3-CH_2CN	H	CH_3	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.200	CH_3	4-CH=NOCH$_3$	3-CH$_2$CN	H	CH_3	H	H
1.201	CH_3	H (n=0)	3-CH$_2$CN	H	CH_3	CH_3	H
1.202	CH_3	4-F	3-CH$_2$CN	H	CH_3	CH_3	H
1.203	CH_3	4-Br	3-CH$_2$CN	H	CH_3	CH_3	H
1.204	CH_3	4-CH_3	3-CH$_2$CN	H	CH_3	CH_3	H
1.205	CH_3	4-CN	3-CH$_2$CN	H	CH_3	CH_3	H
1.206	CH_3	4-CF_3	3-CH$_2$CN	H	CH_3	CH_3	H
1.207	CH_3	4-CH=NOCH$_3$	3-CH$_2$CN	H	CH_3	CH_3	H
1.208	CH_3	H (n=0)	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.209	CH_3	4-F	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.210	CH_3	4-Br	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.211	CH_3	4-CH_3	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.212	CH_3	4-CN	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.213	CH_3	4-CF_3	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.214	CH_3	4-CH=NOCH$_3$	3-CH$_2$CN	H	CH_3	CH_3	CH_3
1.215	CH_3	H (n=0)	3-CH$_2$CN	H	CH_3	F	F
1.216	CH_3	4-F	3-CH$_2$CN	H	CH_3	F	F
1.217	CH_3	4-Br	3-CH$_2$CN	H	CH_3	F	F
1.218	CH_3	4-CH_3	3-CH$_2$CN	H	CH_3	F	F
1.219	CH_3	4-CN	3-CH$_2$CN	H	CH_3	F	F
1.220	CH_3	4-CF_3	3-CH$_2$CN	H	CH_3	F	F
1.221	CH_3	4-CH=NOCH$_3$	3-CH$_2$CN	H	CH_3	F	F
1.222	CH_3	H (n=0)	3-Cl	H	H	H	H
1.223	CH_3	4-F	3-Cl	H	H	H	H
1.224	CH_3	4-I	3-Cl	H	H	H	H
1.225	CH_3	4-CF_3	3-Cl	H	H	H	H
1.226	CH_3	4-CN	3-Cl	H	H	H	H
1.227	CH_3	4-CH_3	3-Cl	H	H	H	H
1.228	CH_3	H (n=0)	4-Cl	H	H	H	H
1.229	CH_3	4-F	4-Cl	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.230	CH_3	4-I	4-Cl	H	H	H	H
1.231	CH_3	4-CF_3	4-Cl	H	H	H	H
1.232	CH_3	4-CN	4-Cl	H	H	H	H
1.233	CH_3	4-CH_3	4-Cl	H	H	H	H
1.234	CH_3	4-F	3-NH_2	H	H	H	H
1.235	CH_3	4-I	3-NH_2	H	H	H	H
1.236	CH_3	4-CF_3	3-NH_2	H	H	H	H
1.237	CH_3	4-CN	3-NH_2	H	H	H	H
1.238	CH_3	4-CH_3	3-NH_2	H	H	H	H
1.239	CH_3	4-F	3-NH-$COCH_3$	H	H	H	H
1.240	CH_3	4-I	3-NH-$COCH_3$	H	H	H	H
1.241	CH_3	4-CF_3	3-NH-$COCH_3$	H	H	H	H
1.242	CH_3	4-CN	3-NH-$COCH_3$	H	H	H	H
1.243	CH_3	4-CH_3	3-NH-$COCH_3$	H	H	H	H
1.244	H	H (n=0)	3-CH_2CN	H	H	H	H
1.245	H	4-F	3-CH_2CN	H	H	H	H
1.246	H	4-Cl	3-CH_2CN	H	H	H	H
1.247	H	4-Br	3-CH_2CN	H	H	H	H
1.248	H	4-I	3-CH_2CN	H	H	H	H
1.249	H	4-CF_3	3-CH_2CN	H	H	H	H
1.250	H	4-CN	3-CH_2CN	H	H	H	H
1.251	H	4-CHO	3-CH_2CN	H	H	H	H
1.252	H	4-CH=$NOCH_3$	3-CH_2CN	H	H	H	H
1.253	H	4-CH_3	3-CH_2CN	H	H	H	H
1.254	H	4-CH=CCl_2	3-CH_2CN	H	H	H	H
1.255	H	H (n=0)	3-CHF_2	H	H	H	H
1.256	H	4-F	3-CHF_2	H	H	H	H
1.257	H	4-CN	3-CHF_2	H	H	H	H
1.258	H	H (n=0)	3-CH_2CN	H	H	CH_3	H
1.259	H	4-F	3-CH_2CN	H	H	CH_3	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.260	H	4-CN	3-CH_2CN	H	H	CH_3	H
1.261	CH_3	4-F	4-Cl	H	H	=O	
1.262	CH_3	4-F	3-$CH_2OC(O)C(CH_3)_3$	H	H	=O	
1.263	CH_3	4-F	3-CH_2CN	H	H	OCH_3	CH_3
1.264	CH_3	4-F	3-CH_2CN	H	H	H	OC(O)C(CH$_3$)$_3$

Table 2: Compounds of formula $Ia_2b_0Q_2$:



($Ia_2b_0Q_2$)

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.001	H (n=0)	H (m=0)	H	H	H	H
2.002	3-F	H (m=0)	H	H	H	H
2.003	3-Cl	H (m=0)	H	H	H	H
2.004	3-F, 5-F	H (m=0)	H	H	H	H
2.005	3-F, 5-Cl	H (m=0)	H	H	H	H
2.006	3-CF_3	H (m=0)	H	H	H	H
2.007	3-F, 5-CF_3	H (m=0)	H	H	H	H
2.008	3-Cl, 5-CF_3	H (m=0)	H	H	H	H
2.009	5-CN	H (m=0)	H	H	H	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.010	3-F, 5-CN	H (m=0)	H	H	H	H
2.011	3-OCH_3	H (m=0)	H	H	H	H
2.012	3-OCH_3, 5-F	H (m=0)	H	H	H	H
2.013	3-OCH_3, 5-Cl	H (m=0)	H	H	H	H
2.014	3-OCH_3, 5-CF_3	H (m=0)	H	H	H	H
2.015	3-OCH_3, 5-CN	H (m=0)	H	H	H	H
2.016	5-NO_2	H (m=0)	H	H	H	H
2.017	3-Cl, 5-NO_2	H (m=0)	H	H	H	H
2.018	H (n=0)	3-CH_2CN	H	H	H	H
2.019	3-F	3-CH_2CN	H	H	H	H
2.020	3-Cl	3-CH_2CN	H	H	H	H
2.021	3-F, 5-F	3-CH_2CN	H	H	H	H
2.022	3-F, 5-Cl	3-CH_2CN	H	H	H	H
2.023	5-CF_3	3-CH_2CN	H	H	H	H
2.024	3-F, 5-CF_3	3-CH_2CN	H	H	H	H
2.025	3-Cl, 5-CF_3	3-CH_2CN	H	H	H	H
2.026	5-CN	3-CH_2CN	H	H	H	H
2.027	3-F, 5-CN	3-CH_2CN	H	H	H	H
2.028	3-OCH_3	3-CH_2CN	H	H	H	H
2.029	3-OCH_3, 5-F	3-CH_2CN	H	H	H	H
2.030	3-OCH_3, 5-Cl	3-CH_2CN	H	H	H	H
2.031	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	H	H
2.032	3-OCH_3, 5-CN	3-CH_2CN	H	H	H	H
2.033	5-NO_2	3-CH_2CN	H	H	H	H
2.034	3-Cl, 5-NO_2	3-CH_2CN	H	H	H	H
2.035	3-Cl, 5-NH_2	3-CH_2CN	H	H	H	H
2.036	H (n=0)	3-CH_2CN, 4-F	H	H	H	H
2.037	3-F	3-CH_2CN, 4-F	H	H	H	H
2.038	3-Cl	3-CH_2CN, 4-F	H	H	H	H
2.039	3-F, 5-F	3-CH_2CN, 4-F	H	H	H	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.040	3-F, 5-Cl	3-CH_2CN, 4-F	H	H	H	H
2.041	5-CF_3	3-CH_2CN, 4-F	H	H	H	H
2.042	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	H	H
2.043	3-Cl, 5-CF_3	3-CH_2CN, 4-F	H	H	H	H
2.044	5-CN	3-CH_2CN, 4-F	H	H	H	H
2.045	3-F, 5-CN	3-CH_2CN, 4-F	H	H	H	H
2.046	3-OCH_3	3-CH_2CN, 4-F	H	H	H	H
2.047	3-OCH_3, 5-F	3-CH_2CN, 4-F	H	H	H	H
2.048	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	H	H
2.049	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	H	H
2.050	3-OCH_3, 5-CN	3-CH_2CN, 4-F	H	H	H	H
2.051	5-NO_2	3-CH_2CN, 4-F	H	H	H	H
2.052	3-Cl, 5-NO_2	3-CH_2CN, 4-F	H	H	H	H
2.053	3-F	3-CH_2CN, 6-F	H	H	H	H
2.054	3-F, 5-F	3-CH_2CN, 6-F	H	H	H	H
2.055	3-F, 5-Cl	3-CH_2CN, 6-F	H	H	H	H
2.056	5-CF_3	3-CH_2CN, 6-F	H	H	H	H
2.057	3-F, 5-CF_3	3-CH_2CN, 6-F	H	H	H	H
2.058	5-CN	3-CH_2CN, 6-F	H	H	H	H
2.059	3-OCH_3	3-CH_2CN, 6-F	H	H	H	H
2.060	3-OCH_3, 5-F	3-CH_2CN, 6-F	H	H	H	H
2.061	3-OCH_3, 5-Cl	3-CH_2CN, 6-F	H	H	H	H
2.062	3-OCH_3, 5-CF_3	3-CH_2CN, 6-F	H	H	H	H
2.063	3-OCH_3, 5-CN	3-CH_2CN, 6-F	H	H	H	H
2.064	3-F	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.065	3-F, 5-F	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.066	3-F, 5-Cl	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.067	5-CF_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.068	3-F, 5-CF_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.069	5-CN	3-CH_2CN, 4-F, 6-F	H	H	H	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.070	3-OCH_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.071	3-OCH_3, 5-F	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.072	3-OCH_3, 5-Cl	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.073	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.074	3-OCH_3, 5-CN	3-CH_2CN, 4-F, 6-F	H	H	H	H
2.075	3-F	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.076	3-F, 5-F	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.077	3-F, 5-Cl	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.078	5-CF_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.079	3-F, 5-CF_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.080	5-CN	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.081	3-OCH_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.082	3-OCH_3, 5-F	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.083	3-OCH_3, 5-Cl	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.084	3-OCH_3, 5-CF_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.085	3-OCH_3, 5-CN	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
2.086	3-F	3-$CH(CH_3)CN$	H	H	H	H
2.087	3-F, 5-F	3-$CH(CH_3)CN$	H	H	H	H
2.088	3-F, 5-Cl	3-$CH(CH_3)CN$	H	H	H	H
2.089	5-CF_3	3-$CH(CH_3)CN$	H	H	H	H
2.090	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	H	H
2.091	5-CN	3-$CH(CH_3)CN$	H	H	H	H
2.092	3-OCH_3	3-$CH(CH_3)CN$	H	H	H	H
2.093	3-OCH_3, 5-F	3-$CH(CH_3)CN$	H	H	H	H
2.094	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	H	H
2.095	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	H	H
2.096	3-OCH_3, 5-CN	3-$CH(CH_3)CN$	H	H	H	H
2.097	3-F	3-CHF_2	H	H	H	H
2.098	3-F, 5-F	3-CHF_2	H	H	H	H
2.099	3-F, 5-Cl	3-CHF_2	H	H	H	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.100	5-CF_3	3-CHF_2	H	H	H	H
2.101	3-F, 5-CF_3	3-CHF_2	H	H	H	H
2.102	5-CN	3-CHF_2	H	H	H	H
2.103	3-OCH_3	3-CHF_2	H	H	H	H
2.104	3-OCH_3, 5-F	3-CHF_2	H	H	H	H
2.105	3-OCH_3, 5-Cl	3-CHF_2	H	H	H	H
2.106	3-OCH_3, 5-CF_3	3-CHF_2	H	H	H	H
2.107	3-OCH_3, 5-CN	3-CHF_2	H	H	H	H
2.108	3-F, 5-F	3-CHF_2, 4-F	H	H	H	H
2.109	5-CF_3	3-CHF_2, 4-F	H	H	H	H
2.110	3-F, 5-CF_3	3-CHF_2, 4-F	H	H	H	H
2.111	3-OCH_3	3-CHF_2, 4-F	H	H	H	H
2.112	3-OCH_3, 5-Cl	3-CHF_2, 4-F	H	H	H	H
2.113	3-OCH_3, 5-CF_3	3-CHF_2, 4-F	H	H	H	H
2.114	3-F	3-CH_2CN	H	H	=O	
2.115	3-F, 5-F	3-CH_2CN	H	H	=O	
2.116	3-F, 5-Cl	3-CH_2CN	H	H	=O	
2.117	5-CF_3	3-CH_2CN	H	H	=O	
2.118	3-F, 5-CF_3	3-CH_2CN	H	H	=O	
2.119	5-CN	3-CH_2CN	H	H	=O	
2.120	3-OCH_3	3-CH_2CN	H	H	=O	
2.121	3-OCH_3, 5-F	3-CH_2CN	H	H	=O	
2.122	3-OCH_3, 5-Cl	3-CH_2CN	H	H	=O	
2.123	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	=O	
2.124	3-OCH_3, 5-CN	3-CH_2CN	H	H	=O	
2.125	3-F	3-CHF_2	H	H	=O	
2.126	3-F, 5-F	3-CHF_2	H	H	=O	
2.127	3-F, 5-Cl	3-CHF_2	H	H	=O	
2.128	5-CF_3	3-CHF_2	H	H	=O	
2.129	3-F, 5-CF_3	3-CHF_2	H	H	=O	

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.130	5-CN	3-CHF_2	H	H	=O	
2.131	3-OCH_3	3-CHF_2	H	H	=O	
2.132	3-OCH_3, 5-F	3-CHF_2	H	H	=O	
2.133	3-OCH_3, 5-Cl	3-CHF_2	H	H	=O	
2.134	3-OCH_3, 5-CF_3	3-CHF_2	H	H	=O	
2.135	3-OCH_3, 5-CN	3-CHF_2	H	H	=O	
2.136	3-F	3-CH_2CN	H	H	OH	H
2.137	3-F, 5-F	3-CH_2CN	H	H	OH	H
2.138	3-F, 5-Cl	3-CH_2CN	H	H	OH	H
2.139	5-CF_3	3-CH_2CN	H	H	OH	H
2.140	3-F, 5-CF_3	3-CH_2CN	H	H	OH	H
2.141	5-CN	3-CH_2CN	H	H	OH	H
2.142	3-OCH_3	3-CH_2CN	H	H	OH	H
2.143	3-OCH_3, 5-F	3-CH_2CN	H	H	OH	H
2.144	3-OCH_3, 5-Cl	3-CH_2CN	H	H	OH	H
2.145	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	OH	H
2.146	3-OCH_3, 5-CN	3-CH_2CN	H	H	OH	H
2.147	3-F	3-CH_2CN	H	H	F	H
2.148	3-F, 5-F	3-CH_2CN	H	H	F	H
2.149	3-F, 5-Cl	3-CH_2CN	H	H	F	H
2.150	5-CF_3	3-CH_2CN	H	H	F	H
2.151	3-F, 5-CF_3	3-CH_2CN	H	H	F	H
2.152	5-CN	3-CH_2CN	H	H	F	H
2.153	3-OCH_3	3-CH_2CN	H	H	F	H
2.154	3-OCH_3, 5-F	3-CH_2CN	H	H	F	H
2.155	3-OCH_3, 5-Cl	3-CH_2CN	H	H	F	H
2.156	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	F	H
2.157	3-OCH_3, 5-CN	3-CH_2CN	H	H	F	H
2.158	3-F	3-CH_2CN	H	H	F	F
2.159	3-F, 5-F	3-CH_2CN	H	H	F	F

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.160	3-F, 5-Cl	3-CH_2CN	H	H	F	F
2.161	5-CF_3	3-CH_2CN	H	H	F	F
2.162	3-F, 5-CF_3	3-CH_2CN	H	H	F	F
2.163	5-CN	3-CH_2CN	H	H	F	F
2.164	3-OCH_3	3-CH_2CN	H	H	F	F
2.165	3-OCH_3, 5-F	3-CH_2CN	H	H	F	F
2.166	3-OCH_3, 5-Cl	3-CH_2CN	H	H	F	F
2.167	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	F	F
2.168	3-OCH_3, 5-CN	3-CH_2CN	H	H	F	F
2.169	3-F, 5-F	3-CH_2CN	H	H	OCH_3	H
2.170	5-CF_3	3-CH_2CN	H	H	OCH_3	H
2.171	3-F, 5-CF_3	3-CH_2CN	H	H	OCH_3	H
2.172	3-OCH_3	3-CH_2CN	H	H	OCH_3	H
2.173	3-OCH_3, 5-Cl	3-CH_2CN	H	H	OCH_3	H
2.174	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	OCH_3	H
2.175	3-F	3-CH_2CN	H	H	CH_3	H
2.176	3-F, 5-F	3-CH_2CN	H	H	CH_3	H
2.177	3-F, 5-Cl	3-CH_2CN	H	H	CH_3	H
2.178	5-CF_3	3-CH_2CN	H	H	CH_3	H
2.179	3-F, 5-CF_3	3-CH_2CN	H	H	CH_3	H
2.180	5-CN	3-CH_2CN	H	H	CH_3	H
2.181	3-OCH_3	3-CH_2CN	H	H	CH_3	H
2.182	3-OCH_3, 5-F	3-CH_2CN	H	H	CH_3	H
2.183	3-OCH_3, 5-Cl	3-CH_2CN	H	H	CH_3	H
2.184	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	CH_3	H
2.185	3-OCH_3, 5-CN	3-CH_2CN	H	H	CH_3	H
2.186	3-F	3-CH_2CN	H	H	CH_3	CH_3
2.187	3-F, 5-F	3-CH_2CN	H	H	CH_3	CH_3
2.188	3-F, 5-Cl	3-CH_2CN	H	H	CH_3	CH_3
2.189	5-CF_3	3-CH_2CN	H	H	CH_3	CH_3

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.190	3-F, 5-CF_3	3-CH_2CN	H	H	CH_3	CH_3
2.191	5-CN	3-CH_2CN	H	H	CH_3	CH_3
2.192	3-OCH_3	3-CH_2CN	H	H	CH_3	CH_3
2.193	3-OCH_3, 5-F	3-CH_2CN	H	H	CH_3	CH_3
2.194	3-OCH_3, 5-Cl	3-CH_2CN	H	H	CH_3	CH_3
2.195	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	CH_3	CH_3
2.196	3-OCH_3, 5-CN	3-CH_2CN	H	H	CH_3	CH_3
2.197	3-F	3-CH_2CN	H	H	C_2alkylene	
2.198	3-F, 5-F	3-CH_2CN	H	H	C_2alkylene	
2.199	3-F, 5-Cl	3-CH_2CN	H	H	C_2alkylene	
2.200	5-CF_3	3-CH_2CN	H	H	C_2alkylene	
2.201	3-F, 5-CF_3	3-CH_2CN	H	H	C_2alkylene	
2.202	5-CN	3-CH_2CN	H	H	C_2alkylene	
2.203	3-OCH_3	3-CH_2CN	H	H	C_2alkylene	
2.204	3-OCH_3, 5-F	3-CH_2CN	H	H	C_2alkylene	
2.205	3-OCH_3, 5-Cl	3-CH_2CN	H	H	C_2alkylene	
2.206	3-OCH_3, 5-CF_3	3-CH_2CN	H	H	C_2alkylene	
2.207	3-OCH_3, 5-CN	3-CH_2CN	H	H	C_2alkylene	
2.208	3-F, 5-F	3-CHF_2	H	H	OH	H
2.209	5-CF_3	3-CHF_2	H	H	OH	H
2.210	3-F, 5-CF_3	3-CHF_2	H	H	OH	H
2.211	3-OCH_3	3-CHF_2	H	H	OH	H
2.212	3-OCH_3, 5-Cl	3-CHF_2	H	H	OH	H
2.213	3-OCH_3, 5-CF_3	3-CHF_2	H	H	OH	H
2.214	3-F, 5-F	3-$CH(CH_3)CN$	H	H	OH	H
2.215	5-CF_3	3-$CH(CH_3)CN$	H	H	OH	H
2.216	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	OH	H
2.217	3-OCH_3	3-$CH(CH_3)CN$	H	H	OH	H
2.218	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	OH	H
2.219	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	OH	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
1.220	5-CN	3-$CH(CH_3)CN$	H	H	OH	H
2.221	3-F, 5-F	3-CHF_2	H	H	F	H
2.222	5-CF_3	3-CHF_2	H	H	F	H
2.223	3-F, 5-CF_3	3-CHF_2	H	H	F	H
2.224	3-OCH_3	3-CHF_2	H	H	F	H
2.225	3-OCH_3, 5-Cl	3-CHF_2	H	H	F	H
2.226	3-OCH_3, 5-CF_3	3-CHF_2	H	H	F	H
1.227	5-CN	3-CHF_2	H	H	F	H
2.228	3-F, 5-F	3-$CH(CH_3)CN$	H	H	F	H
2.229	5-CF_3	3-$CH(CH_3)CN$	H	H	F	H
2.230	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	F	H
2.231	3-OCH_3	3-$CH(CH_3)CN$	H	H	F	H
2.232	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	F	H
2.233	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	F	H
2.234	3-F, 5-F	3-CH_2CN, 4-F	H	H	F	H
2.235	5-CF_3	3-CH_2CN, 4-F	H	H	F	H
2.236	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	F	H
2.237	3-OCH_3	3-CH_2CN, 4-F	H	H	F	H
2.238	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	F	H
2.239	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	F	H
2.240	3-F, 5-F	3-CHF_2	H	H	F	F
2.241	5-CF_3	3-CHF_2	H	H	F	F
2.242	3-F, 5-CF_3	3-CHF_2	H	H	F	F
2.243	3-OCH_3	3-CHF_2	H	H	F	F
2.244	3-OCH_3, 5-Cl	3-CHF_2	H	H	F	F
2.245	3-OCH_3, 5-CF_3	3-CHF_2	H	H	F	F
2.246	5-CN	3-CHF_2	H	H	F	F
2.247	3-F, 5-F	3-$CH(CH_3)CN$	H	H	F	F
2.248	5-CF_3	3-$CH(CH_3)CN$	H	H	F	F
2.249	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	F	F

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.250	3-OCH_3	3-$CH(CH_3)CN$	H	H	F	F
2.251	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	F	F
2.252	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	F	F
2.253	5-CN	3-$CH(CH_3)CN$	H	H	F	F
2.254	3-F, 5-F	3-CH_2CN, 4-F	H	H	F	F
2.255	5-CF_3	3-CH_2CN, 4-F	H	H	F	F
2.256	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	F	F
2.257	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	F	F
2.258	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	F	F
2.259	3-F, 5-F	3-CHF_2	H	H	CH_3	F
2.260	5-CF_3	3-CHF_2	H	H	CH_3	F
2.261	3-F, 5-CF_3	3-CHF_2	H	H	CH_3	F
2.262	3-OCH_3, 5-Cl	3-CHF_2	H	H	CH_3	F
2.263	3-OCH_3, 5-CF_3	3-CHF_2	H	H	CH_3	F
2.264	3-F, 5-F	3-$CH(CH_3)CN$	H	H	CH_3	F
2.265	5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	F
2.266	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	F
2.267	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	CH_3	F
2.268	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	F
2.269	3-F, 5-F	3-CH_2CN, 4-F	H	H	CH_3	F
2.270	5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	F
2.271	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	F
2.272	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	CH_3	F
2.273	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	F
2.274	3-F, 5-F	3-CHF_2	H	H	CH_3	CH_3
2.275	5-CF_3	3-CHF_2	H	H	CH_3	CH_3
2.276	3-F, 5-CF_3	3-CHF_2	H	H	CH_3	CH_3
2.277	3-OCH_3, 5-Cl	3-CHF_2	H	H	CH_3	CH_3
2.278	3-OCH_3, 5-CF_3	3-CHF_2	H	H	CH_3	CH_3
2.279	3-F, 5-F	3-$CH(CH_3)CN$	H	H	CH_3	CH_3

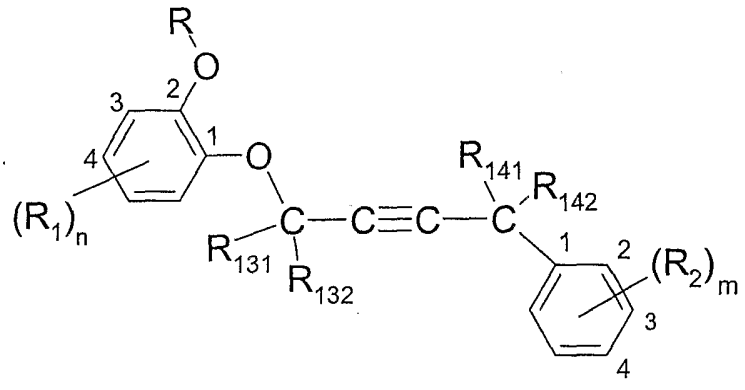
Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.280	5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
2.281	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
2.282	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
2.283	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
2.284	3-F, 5-F	3-CH_2CN, 4-F	H	H	CH_3	CH_3
2.285	5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	CH_3
2.286	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	CH_3
2.287	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	CH_3	CH_3
2.288	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	CH_3	CH_3
2.289	3-F, 5-F	3-CHF_2	H	H	OCH_3	H
2.290	5-CF_3	3-CHF_2	H	H	OCH_3	H
2.291	3-F, 5-CF_3	3-CHF_2	H	H	OCH_3	H
2.292	3-OCH_3, 5-Cl	3-CHF_2	H	H	OCH_3	H
2.293	3-OCH_3, 5-CF_3	3-CHF_2	H	H	OCH_3	H
2.294	3-F, 5-F	3-$CH(CH_3)CN$	H	H	OCH_3	H
2.295	5-CF_3	3-$CH(CH_3)CN$	H	H	OCH_3	H
2.296	3-F, 5-CF_3	3-$CH(CH_3)CN$	H	H	OCH_3	H
2.297	3-OCH_3, 5-Cl	3-$CH(CH_3)CN$	H	H	OCH_3	H
2.298	3-OCH_3, 5-CF_3	3-$CH(CH_3)CN$	H	H	OCH_3	H
2.299	3-F, 5-F	3-CH_2CN, 4-F	H	H	OCH_3	H
2.300	5-CF_3	3-CH_2CN, 4-F	H	H	OCH_3	H
2.301	3-F, 5-CF_3	3-CH_2CN, 4-F	H	H	OCH_3	H
2.302	3-OCH_3, 5-Cl	3-CH_2CN, 4-F	H	H	OCH_3	H
2.303	3-OCH_3, 5-CF_3	3-CH_2CN, 4-F	H	H	OCH_3	H
2.304	3-F	3-CH_2CN	H	CH_3	H	H
2.305	3-F, 5-F	3-CH_2CN	H	CH_3	H	H
2.306	3-F, 5-Cl	3-CH_2CN	H	CH_3	H	H
2.307	5-CF_3	3-CH_2CN	H	CH_3	H	H
2.308	3-F, 5-CF_3	3-CH_2CN	H	CH_3	H	H
2.309	5-CN	3-CH_2CN	H	CH_3	H	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.310	3-OCH_3	3-CH_2CN	H	CH_3	H	H
2.311	3-OCH_3, 5-F	3-CH_2CN	H	CH_3	H	H
2.312	3-OCH_3, 5-Cl	3-CH_2CN	H	CH_3	H	H
2.313	3-OCH_3, 5-CF_3	3-CH_2CN	H	CH_3	H	H
2.314	3-OCH_3, 5-CN	3-CH_2CN	H	CH_3	H	H
2.315	3-F	3-CH_2CN	H	CH_3	CH_3	H
2.316	3-F, 5-F	3-CH_2CN	H	CH_3	CH_3	H
2.317	3-F, 5-Cl	3-CH_2CN	H	CH_3	CH_3	H
2.318	5-CF_3	3-CH_2CN	H	CH_3	CH_3	H
2.319	3-F, 5-CF_3	3-CH_2CN	H	CH_3	CH_3	H
2.320	5-CN	3-CH_2CN	H	CH_3	CH_3	H
2.321	3-OCH_3	3-CH_2CN	H	CH_3	CH_3	H
2.322	3-OCH_3, 5-F	3-CH_2CN	H	CH_3	CH_3	H
2.323	3-OCH_3, 5-Cl	3-CH_2CN	H	CH_3	CH_3	H
2.324	3-OCH_3, 5-CF_3	3-CH_2CN	H	CH_3	CH_3	H
2.325	3-OCH_3, 5-CN	3-CH_2CN	H	CH_3	CH_3	H
2.326	3-F	3-CH_2CN	H	CH_3	CH_3	CH_3
2.327	3-F, 5-F	3-CH_2CN	H	CH_3	CH_3	CH_3
2.328	3-F, 5-Cl	3-CH_2CN	H	CH_3	CH_3	CH_3
2.329	5-CF_3	3-CH_2CN	H	CH_3	CH_3	CH_3
2.330	3-F, 5-CF_3	3-CH_2CN	H	CH_3	CH_3	CH_3
2.331	5-CN	3-CH_2CN	H	CH_3	CH_3	CH_3
2.332	3-OCH_3	3-CH_2CN	H	CH_3	CH_3	CH_3
2.333	3-OCH_3, 5-F	3-CH_2CN	H	CH_3	CH_3	CH_3
2.334	3-OCH_3, 5-Cl	3-CH_2CN	H	CH_3	CH_3	CH_3
2.335	3-OCH_3, 5-CF_3	3-CH_2CN	H	CH_3	CH_3	CH_3
2.336	3-OCH_3, 5-CN	3-CH_2CN	H	CH_3	CH_3	CH_3
2.337	3-F	3-CH_2CN	H	CH_3	F	F
2.338	3-F, 5-F	3-CH_2CN	H	CH_3	F	F
2.339	3-F, 5-Cl	3-CH_2CN	H	CH_3	F	F

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.340	5-CF_3	3-CH_2CN	H	CH_3	F	F
2.341	3-F, 5-CF_3	3-CH_2CN	H	CH_3	F	F
2.342	5-CN	3-CH_2CN	H	CH_3	F	F
2.343	3-OCH_3	3-CH_2CN	H	CH_3	F	F
2.344	3-OCH_3, 5-F	3-CH_2CN	H	CH_3	F	F
2.345	3-OCH_3, 5-Cl	3-CH_2CN	H	CH_3	F	F
2.346	3-OCH_3, 5-CF_3	3-CH_2CN	H	CH_3	F	F
2.347	3-OCH_3, 5-CN	3-CH_2CN	H	CH_3	F	F
2.348	3-F	3-Cl	H	H	H	H
2.349	3-F, 5-F	3-Cl	H	H	H	H
2.350	3-F, 5-Cl	3-Cl	H	H	H	H
2.351	5-CF_3	3-Cl	H	H	H	H
2.352	3-F, 5-CF_3	3-Cl	H	H	H	H
2.353	5-CN	3-Cl	H	H	H	H
2.354	3-OCH_3	3-Cl	H	H	H	H
2.355	3-OCH_3, 5-F	3-Cl	H	H	H	H
2.356	3-OCH_3, 5-Cl	3-Cl	H	H	H	H
2.357	3-OCH_3, 5-CF_3	3-Cl	H	H	H	H
2.358	3-OCH_3, 5-CN	3-Cl	H	H	H	H
2.359	H (n=0)	4-Cl	H	H	F	H
2.360	3-F	4-Cl	H	H	F	H
2.361	3-F, 5-F	4-Cl	H	H	F	H
2.362	3-F, 5-Cl	4-Cl	H	H	F	H
2.363	5-CF_3	4-Cl	H	H	F	H
2.364	3-F, 5-CF_3	4-Cl	H	H	F	H
2.365	5-CN	4-Cl	H	H	F	H
2.366	3-OCH_3	4-Cl	H	H	F	H
2.367	3-OCH_3, 5-F	4-Cl	H	H	F	H
2.368	3-OCH_3, 5-Cl	4-Cl	H	H	F	H
2.369	3-OCH_3, 5-CF_3	4-Cl	H	H	F	H

Cmp. no.	R_1	R_2	R_{131}	R_{132}	R_{133}	R_{134}
2.370	3-OCH_3, 5-CN	4-Cl	H	H	F	H
2.371	3-F, 5-F	3-NH_2	H	H	H	H
2.372	5-CF_3	3-NH_2	H	H	H	H
2.373	3-F, 5-CF_3	3-NH_2	H	H	H	H
2.374	3-OCH_3, 5-Cl	3-NH_2	H	H	H	H
2.375	3-OCH_3, 5-CF_3	3-NH_2	H	H	H	H
2.376	3-F, 5-F	3-NH-$COCH_3$	H	H	H	H
2.377	5-CF_3	3-NH-$COCH_3$	H	H	H	H
2.378	3-F, 5-CF_3	3-NH-$COCH_3$	H	H	H	H
2.379	3-OCH_3, 5-Cl	3-NH-$COCH_3$	H	H	H	H
2.380	3-OCH_3, 5-CF_3	3-NH-$COCH_3$	H	H	H	H
2.381	3-Cl, 5-Cl	3-CH_2CN	H	H	H	H

Table 3: Compounds of formula $Ia_1b_1Q_1$:



($Ia_1b_1Q_1$)

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.001	CH_3	H (n=0)	H (m=0)	H	H	H	H
3.002	CH_3	4-F	H (m=0)	H	H	H	H
3.003	CH_3	4-Cl	H (m=0)	H	H	H	H
3.004	CH_3	4-Br	H (m=0)	H	H	H	H
3.005	CH_3	4-I	H (m=0)	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.006	CH_3	4-CF_3	H (m=0)	H	H	H	H
3.007	CH_3	4-CN	H (m=0)	H	H	H	H
3.008	CH_3	4-CHO	H (m=0)	H	H	H	H
3.009	CH_3	4-CH=$NOCH_3$	H (m=0)	H	H	H	H
3.010	CH_3	4-CH_3	H (m=0)	H	H	H	H
3.011	CH_3	4-CH=CCl_2	H (m=0)	H	H	H	H
3.012	CH_3	H (n=0)	3-CH_2CN	H	H	H	H
3.013	CH_3	4-F	3-CH_2CN	H	H	H	H
3.014	CH_3	4-Cl	3-CH_2CN	H	H	H	H
3.015	CH_3	4-Br	3-CH_2CN	H	H	H	H
3.016	CH_3	4-I	3-CH_2CN	H	H	H	H
3.017	CH_3	4-CF_3	3-CH_2CN	H	H	H	H
3.018	CH_3	4-CN	3-CH_2CN	H	H	H	H
3.019	CH_3	4-CHO	3-CH_2CN	H	H	H	H
3.020	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	H	H
3.021	CH_3	4-CH_3	3-CH_2CN	H	H	H	H
3.022	CH_3	4-CH=CCl_2	3-CH_2CN	H	H	H	H
3.023	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	H	H
3.024	CH_3	4-F	3-CH_2CN, 4-F	H	H	H	H
3.025	CH_3	4-Br	3-CH_2CN, 4-F	H	H	H	H
3.026	CH_3	4-CN	3-CH_2CN, 4-F	H	H	H	H
3.027	CH_3	4-CF_3	3-CH_2CN, 4-F	H	H	H	H
3.028	CH_3	4-CH=$NOCH_3$	3-CH_2CN, 4-F	H	H	H	H
3.029	CH_3	H (n=0)	3-CH_2CN, 6-F	H	H	H	H
3.030	CH_3	4-F	3-CH_2CN, 6-F	H	H	H	H
3.031	CH_3	4-Br	3-CH_2CN, 6-F	H	H	H	H
3.032	CH_3	4-CN	3-CH_2CN, 6-F	H	H	H	H
3.033	CH_3	4-CF_3	3-CH_2CN, 6-F	H	H	H	H
3.034	CH_3	4-CH=$NOCH_3$	3-CH_2CN, 6-F	H	H	H	H
3.035	CH_3	H (n=0)	3-CH_2CN, 4-F, 6-F	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.036	CH_3	4-F	3-CH_2CN, 4-F, 6-F	H	H	H	H
3.037	CH_3	4-Br	3-CH_2CN, 4-F, 6-F	H	H	H	H
3.038	CH_3	4-CN	3-CH_2CN, 4-F, 6-F	H	H	H	H
3.039	CH_3	4-CF_3	3-CH_2CN, 4-F, 6-F	H	H	H	H
3.040	CH_3	4-CH=$NOCH_3$	3-CH_2CN, 4-F, 6-F	H	H	H	H
3.041	CH_3	4-F	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
3.042	CH_3	4-I	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
3.043	CH_3	4-CN	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
3.044	CH_3	4-CF_3	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
3.045	CH_3	4-CH=$NOCH_3$	3-CH_2CN, 4-Cl, 6-F	H	H	H	H
3.046	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	H	H
3.047	CH_3	4-F	3-$CH(CH_3)CN$	H	H	H	H
3.048	CH_3	4-Cl	3-$CH(CH_3)CN$	H	H	H	H
3.049	CH_3	4-Br	3-$CH(CH_3)CN$	H	H	H	H
3.050	CH_3	4-I	3-$CH(CH_3)CN$	H	H	H	H
3.051	CH_3	4-CF_3	3-$CH(CH_3)CN$	H	H	H	H
3.052	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	H	H
3.053	CH_3	4-CHO	3-$CH(CH_3)CN$	H	H	H	H
3.054	CH_3	4-CH=$NOCH_3$	3-$CH(CH_3)CN$	H	H	H	H
3.055	CH_3	4-CH_3	3-$CH(CH_3)CN$	H	H	H	H
3.056	CH_3	4-CH=CCl_2	3-$CH(CH_3)CN$	H	H	H	H
3.057	CH_3	H (n=0)	3-CHF_2	H	H	H	H
3.058	CH_3	4-F	3-CHF_2	H	H	H	H
3.059	CH_3	4-Cl	3-CHF_2	H	H	H	H
3.060	CH_3	4-Br	3-CHF_2	H	H	H	H
3.061	CH_3	4-I	3-CHF_2	H	H	H	H
3.062	CH_3	4-CF_3	3-CHF_2	H	H	H	H
3.063	CH_3	4-CN	3-CHF_2	H	H	H	H
3.064	CH_3	4-CHO	3-CHF_2	H	H	H	H
3.065	CH_3	4-CH=$NOCH_3$	3-CHF_2	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.066	CH_3	4-CH_3	3-CHF_2	H	H	H	H
3.067	CH_3	4-CH=CCl_2	3-CHF_2	H	H	H	H
3.068	CH_3	H (n=0)	3-CHF_2, 4-F	H	H	H	H
3.069	CH_3	4-F	3-CHF_2, 4-F	H	H	H	H
3.070	CH_3	4-Br	3-CHF_2, 4-F	H	H	H	H
3.071	CH_3	4-CN	3-CHF_2, 4-F	H	H	H	H
3.072	CH_3	4-CF_3	3-CHF_2, 4-F	H	H	H	H
3.073	CH_3	4-CH=$NOCH_3$	3-CHF_2, 4-F	H	H	H	H
3.074	CH_3	H (n=0)	3-CH_2CN	H	H	=O	
3.075	CH_3	4-F	3-CH_2CN	H	H	=O	
3.076	CH_3	4-Br	3-CH_2CN	H	H	=O	
3.077	CH_3	4-CH_3	3-CH_2CN	H	H	=O	
3.078	CH_3	4-CN	3-CH_2CN	H	H	=O	
3.079	CH_3	4-CF_3	3-CH_2CN	H	H	=O	
3.080	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	=O	
3.081	CH_3	H (n=0)	3-CHF_2	H	H	=O	
3.082	CH_3	4-F	3-CHF_2	H	H	=O	
3.083	CH_3	4-Br	3-CHF_2	H	H	=O	
3.084	CH_3	4-CH_3	3-CHF_2	H	H	=O	
3.085	CH_3	4-CN	3-CHF_2	H	H	=O	
3.086	CH_3	4-CF_3	3-CHF_2	H	H	=O	
3.087	CH_3	4-CH=$NOCH_3$	3-CHF_2	H	H	=O	
3.088	CH_3	H (n=0)	3-CH_2CN	H	H	OH	H
3.089	CH_3	4-F	3-CH_2CN	H	H	OH	H
3.090	CH_3	4-Br	3-CH_2CN	H	H	OH	H
3.091	CH_3	4-CH_3	3-CH_2CN	H	H	OH	H
3.092	CH_3	4-CN	3-CH_2CN	H	H	OH	H
3.093	CH_3	4-CF_3	3-CH_2CN	H	H	OH	H
3.094	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	OH	H
3.095	CH_3	H (n=0)	3-CH_2CN	H	H	F	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.096	CH_3	4-F	3-CH_2CN	H	H	F	H
3.097	CH_3	4-Br	3-CH_2CN	H	H	F	H
3.098	CH_3	4-CH_3	3-CH_2CN	H	H	F	H
3.099	CH_3	4-CN	3-CH_2CN	H	H	F	H
3.100	CH_3	4-CF_3	3-CH_2CN	H	H	F	H
3.101	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	F	H
3.102	CH_3	4-CN	3-CH_2CN	H	H	F	H
3.103	CH_3	H (n=0)	3-CH_2CN	H	H	Cl	H
3.104	CH_3	4-F	3-CH_2CN	H	H	Cl	H
3.105	CH_3	4-Br	3-CH_2CN	H	H	Cl	H
3.106	CH_3	4-CH_3	3-CH_2CN	H	H	Cl	H
3.107	CH_3	4-CN	3-CH_2CN	H	H	Cl	H
3.108	CH_3	4-CF_3	3-CH_2CN	H	H	Cl	H
3.109	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	Cl	H
3.110	CH_3	H (n=0)	3-CH_2CN	H	H	OCH_3	H
3.111	CH_3	4-F	3-CH_2CN	H	H	OCH_3	H
3.112	CH_3	4-Br	3-CH_2CN	H	H	OCH_3	H
3.113	CH_3	4-CH_3	3-CH_2CN	H	H	OCH_3	H
3.114	CH_3	4-CN	3-CH_2CN	H	H	OCH_3	H
3.115	CH_3	4-CF_3	3-CH_2CN	H	H	OCH_3	H
3.116	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	OCH_3	H
3.117	CH_3	H (n=0)	3-CH_2CN	H	H	CH_3	H
3.118	CH_3	4-F	3-CH_2CN	H	H	CH_3	H
3.119	CH_3	4-Br	3-CH_2CN	H	H	CH_3	H
3.120	CH_3	4-CH_3	3-CH_2CN	H	H	CH_3	H
3.121	CH_3	4-CN	3-CH_2CN	H	H	CH_3	H
3.122	CH_3	4-CF_3	3-CH_2CN	H	H	CH_3	H
3.123	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	CH_3	H
3.124	CH_3	H (n=0)	3-CH_2CN	H	H	CH_3	CH_3
3.125	CH_3	4-F	3-CH_2CN	H	H	CH_3	CH_3

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.126	CH_3	4-Br	3-CH_2CN	H	H	CH_3	CH_3
3.127	CH_3	4-CH_3	3-CH_2CN	H	H	CH_3	CH_3
3.128	CH_3	4-CN	3-CH_2CN	H	H	CH_3	CH_3
3.129	CH_3	4-CF_3	3-CH_2CN	H	H	CH_3	CH_3
3.130	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	CH_3	CH_3
3.131	CH_3	H (n=0)	3-CH_2CN	H	H	C_2alkylene	
3.132	CH_3	4-F	3-CH_2CN	H	H	C_2alkylene	
3.133	CH_3	4-Br	3-CH_2CN	H	H	C_2alkylene	
3.134	CH_3	4-CH_3	3-CH_2CN	H	H	C_2alkylene	
3.135	CH_3	4-CN	3-CH_2CN	H	H	C_2alkylene	
3.136	CH_3	4-CF_3	3-CH_2CN	H	H	C_2alkylene	
3.137	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	H	C_2alkylene	
3.138	CH_3	H (n=0)	3-CHF_2	H	H	OH	H
3.139	CH_3	4-F	3-CHF_2	H	H	OH	H
3.140	CH_3	4-CN	3-CHF_2	H	H	OH	H
3.141	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	OH	H
3.142	CH_3	4-F	3-$CH(CH_3)CN$	H	H	OH	H
3.143	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	OH	H
3.144	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	OH	H
3.145	CH_3	4-F	3-CH_2CN, 4-F	H	H	OH	H
3.146	CH_3	4-CN	3-CH_2CN, 4-F	H	H	OH	H
3.147	CH_3	H (n=0)	3-CHF_2	H	H	F	H
3.148	CH_3	4-F	3-CHF_2	H	H	F	H
3.149	CH_3	4-CN	3-CHF_2	H	H	F	H
3.150	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	F	H
3.151	CH_3	4-F	3-$CH(CH_3)CN$	H	H	F	H
3.152	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	F	H
3.153	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	F	H
3.154	CH_3	4-F	3-CH_2CN, 4-F	H	H	F	H
3.155	CH_3	4-CN	3-CH_2CN, 4-F	H	H	F	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.156	CH_3	H (n=0)	3-CHF_2	H	H	Cl	H
3.157	CH_3	4-F	3-CHF_2	H	H	Cl	H
3.158	CH_3	4-CN	3-CHF_2	H	H	Cl	H
3.159	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	Cl	H
3.160	CH_3	4-F	3-$CH(CH_3)CN$	H	H	Cl	H
3.161	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	Cl	H
3.162	CH_3	4-$CH=NOCH_3$	3-$CH(CH_3)CN$	H	H	Cl	H
3.163	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	Cl	H
3.164	CH_3	4-F	3-CH_2CN, 4-F	H	H	Cl	H
3.165	CH_3	4-CN	3-CH_2CN, 4-F	H	H	Cl	H
3.166	CH_3	H (n=0)	3-CHF_2	H	H	CH_3	OH
3.167	CH_3	4-F	3-CHF_2	H	H	CH_3	OH
3.168	CH_3	4-CN	3-CHF_2	H	H	CH_3	OH
3.169	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	CH_3	OH
3.170	CH_3	4-F	3-$CH(CH_3)CN$	H	H	CH_3	OH
3.171	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	CH_3	OH
3.172	CH_3	4-$CH=NOCH_3$	3-$CH(CH_3)CN$	H	H	CH_3	OH
3.173	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	CH_3	OH
3.174	CH_3	4-F	3-CH_2CN, 4-F	H	H	CH_3	OH
3.175	CH_3	4-CN	3-CH_2CN, 4-F	H	H	CH_3	OH
3.176	CH_3	H (n=0)	3-CHF_2	H	H	CH_3	CH_3
3.177	CH_3	4-F	3-CHF_2	H	H	CH_3	CH_3
3.178	CH_3	4-CN	3-CHF_2	H	H	CH_3	CH_3
3.179	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
3.180	CH_3	4-F	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
3.181	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	CH_3	CH_3
3.182	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	CH_3	CH_3
3.183	CH_3	4-F	3-CH_2CN, 4-F	H	H	CH_3	CH_3
3.184	CH_3	4-CN	3-CH_2CN, 4-F	H	H	CH_3	CH_3
3.185	CH_3	H (n=0)	3-CHF_2	H	H	OCH_3	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.186	CH_3	4-F	3-CHF_2	H	H	OCH_3	H
3.187	CH_3	4-CN	3-CHF_2	H	H	OCH_3	H
3.188	CH_3	H (n=0)	3-$CH(CH_3)CN$	H	H	OCH_3	H
3.189	CH_3	4-F	3-$CH(CH_3)CN$	H	H	OCH_3	H
3.190	CH_3	4-CN	3-$CH(CH_3)CN$	H	H	OCH_3	H
3.191	CH_3	H (n=0)	3-CH_2CN, 4-F	H	H	OCH_3	H
3.192	CH_3	4-F	3-CH_2CN, 4-F	H	H	OCH_3	H
3.193	CH_3	4-CN	3-CH_2CN, 4-F	H	H	OCH_3	H
3.194	CH_3	H (n=0)	3-CH_2CN	H	CH_3	H	H
3.195	CH_3	4-F	3-CH_2CN	H	CH_3	H	H
3.196	CH_3	4-Br	3-CH_2CN	H	CH_3	H	H
3.197	CH_3	4-CH_3	3-CH_2CN	H	CH_3	H	H
3.198	CH_3	4-CN	3-CH_2CN	H	CH_3	H	H
3.199	CH_3	4-CF_3	3-CH_2CN	H	CH_3	H	H
3.200	CH_3	4-$CH=NOCH_3$	3-CH_2CN	H	CH_3	H	H
3.201	CH_3	H (n=0)	3-CH_2CN	H	CH_3	CH_3	H
3.202	CH_3	4-F	3-CH_2CN	H	CH_3	CH_3	H
3.203	CH_3	4-Br	3-CH_2CN	H	CH_3	CH_3	H
3.204	CH_3	4-CH_3	3-CH_2CN	H	CH_3	CH_3	H
3.205	CH_3	4-CN	3-CH_2CN	H	CH_3	CH_3	H
3.206	CH_3	4-CF_3	3-CH_2CN	H	CH_3	CH_3	H
3.207	CH_3	4-$CH=NOCH_3$	3-CH_2CN	H	CH_3	CH_3	H
3.208	CH_3	H (n=0)	3-CH_2CN	H	CH_3	CH_3	CH_3
3.209	CH_3	4-F	3-CH_2CN	H	CH_3	CH_3	CH_3
3.210	CH_3	4-Br	3-CH_2CN	H	CH_3	CH_3	CH_3
3.211	CH_3	4-CH_3	3-CH_2CN	H	CH_3	CH_3	CH_3
3.212	CH_3	4-CN	3-CH_2CN	H	CH_3	CH_3	CH_3
3.213	CH_3	4-CF_3	3-CH_2CN	H	CH_3	CH_3	CH_3
3.214	CH_3	4-$CH=NOCH_3$	3-CH_2CN	H	CH_3	CH_3	CH_3
3.215	CH_3	H (n=0)	3-CH_2CN	H	CH_3	F	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.216	CH_3	4-F	3-CH_2CN	H	CH_3	F	H
3.217	CH_3	4-Br	3-CH_2CN	H	CH_3	F	H
3.218	CH_3	4-CH_3	3-CH_2CN	H	CH_3	F	H
3.219	CH_3	4-CN	3-CH_2CN	H	CH_3	F	H
3.220	CH_3	4-CF_3	3-CH_2CN	H	CH_3	F	H
3.221	CH_3	4-CH=$NOCH_3$	3-CH_2CN	H	CH_3	F	H
3.222	CH_3	H (n=0)	3-Cl	H	H	H	H
3.223	CH_3	4-F	3-Cl	H	H	H	H
3.224	CH_3	4-I	3-Cl	H	H	H	H
3.225	CH_3	4-CF_3	3-Cl	H	H	H	H
3.226	CH_3	4-CN	3-Cl	H	H	H	H
3.227	CH_3	4-CH_3	3-Cl	H	H	H	H
3.228	CH_3	H (n=0)	4-Cl	H	H	H	H
3.229	CH_3	4-F	4-Cl	H	H	H	H
3.230	CH_3	4-I	4-Cl	H	H	H	H
3.231	CH_3	4-CF_3	4-Cl	H	H	H	H
3.232	CH_3	4-CN	4-Cl	H	H	H	H
3.233	CH_3	4-CH_3	4-Cl	H	H	H	H
3.234	CH_3	4-F	3-NH_2	H	H	H	H
3.235	CH_3	4-I	3-NH_2	H	H	H	H
3.236	CH_3	4-CF_3	3-NH_2	H	H	H	H
3.237	CH_3	4-CN	3-NH_2	H	H	H	H
3.238	CH_3	4-CH_3	3-NH_2	H	H	H	H
3.239	CH_3	4-F	3-NH-$COCH_3$	H	H	H	H
3.240	CH_3	4-I	3-NH-$COCH_3$	H	H	H	H
3.241	CH_3	4-CF_3	3-NH-$COCH_3$	H	H	H	H
3.242	CH_3	4-CN	3-NH-$COCH_3$	H	H	H	H
3.243	CH_3	4-CH_3	3-NH-$COCH_3$	H	H	H	H
3.244	H	H (n=0)	3-CH_2CN	H	H	H	H
3.245	H	4-F	3-CH_2CN	H	H	H	H

Cmp. no.	R	R_1	R_2	R_{131}	R_{132}	R_{141}	R_{142}
3.246	H	4-Cl	3-CH_2CN	H	H	H	H
3.247	H	4-Br	3-CH_2CN	H	H	H	H
3.248	H	4-I	3-CH_2CN	H	H	H	H
3.249	H	4-CF_3	3-CH_2CN	H	H	H	H
3.250	H	4-CN	3-CH_2CN	H	H	H	H
3.251	H	4-CHO	3-CH_2CN	H	H	H	H
3.252	H	4-CH=$NOCH_3$	3-CH_2CN	H	H	H	H
3.253	H	4-CH_3	3-CH_2CN	H	H	H	H
3.254	H	4-CH=CCl_2	3-CH_2CN	H	H	H	H
3.255	H	H (n=0)	3-CHF_2	H	H	H	H
3.256	H	4-F	3-CHF_2	H	H	H	H
3.257	H	4-CN	3-CHF_2	H	H	H	H
3.258	H	H (n=0)	3-CH_2CN	H	H	CH_3	H
3.259	H	4-F	3-CH_2CN	H	H	CH_3	H
3.260	H	4-CN	3-CH_2CN	H	H	CH_3	H
3.261	CH_3	4-F	3-Cl	H	H	OH	H
3.262	CH_3	4-F	3-Cl	H	H	F	H
3.263	CH_3	4-CN	H	H	H	OH	H
3.264	CH_3	H	3-Cl	H	H	=O	
3.265	CH_3	H	2-Cl	H	H	=O	
3.266	CH_3	H	3-CF_3	H	H	=O	
3.267	CH_3	H	2-Cl, 4-Cl	H	H	=O	
3.268	CH_3	H	2-CH_3	H	H	=O	
3.269	CH_3	H	4-CH_3	H	H	=O	
3.270	CH_3	H	3-CH_3,5-CH_3	H	H	=O	
3.271	CH_3	H	3-CN	H	H	=O	
3.272	CH_3	H	3-CN	H	H	OH	H

Table A: Compounds prepared, from Tables 1-3 above

Compound no.	Phys.-chem. data
1.013	solid
1.104	resin
1.223	solid
1.261	solid
1.263	resin
1.264	resin
2.021	solid
2.022	resin
2.350	solid
2.381	resin
3.074	oil
3.075	resin
3.088	oil
3.089	resin
3.261	solid
3.262	resin
3.263	resin
3.264	oil
3.265	oil
3.266	oil
3.267	oil
3.268	oil
3.269	oil
3.270	oil
3.271	solid
3.272	oil

Biological Examples

Example B1: Herbicidal action prior to emergence of the plants (pre-emergence action)

Monocotyledonous and dicotyledonous test plants are sown in standard soil in pots. Immediately after sowing, the test compounds, in the form of an aqueous suspension (prepared from a wettable powder (Example F3, b) according to WO 97/34485) or in the form of an emulsion (prepared from an emulsifiable concentrate (Example F1, c) according to WO 97/34485), are applied by spraying, in an optimum concentration (500 litres of water per ha). The test plants are then grown in a greenhouse under optimum conditions.

After a test duration of 4 weeks, the test is evaluated in accordance with a scale of eleven ratings (10 = total damage, 0 = no action). Ratings of from 7 to 10 (especially from 8 to 10) indicate good to very good herbicidal action.

In this test, the compounds of formula I exhibit strong herbicidal action.

The same results are obtained when the compounds of formula I are formulated analogously to the other Examples of WO 97/34485.

Example B2: Post-emergence herbicidal action

Monocotyledonous and dicotyledonous test plants are sown in standard soil in pots. When the test plants are at the 2- to 3-leaf stage, the test compounds, in the form of an aqueous suspension (prepared from a wettable powder (Example F3, b) according to WO 97/34485) or in the form of an emulsion (prepared from an emulsifiable concentrate (Example F1, c) according to WO 97/34485), are applied by spraying, in an optimum concentration (500 litres of water per ha). The test plants are then grown on in a greenhouse under optimum conditions.

After a test duration of 2 to 3 weeks, the test is evaluated in accordance with a scale of eleven ratings (10 = total damage, 0 = no action). Ratings of from 7 to 10 (especially from 8 to 10) indicate good to very good herbicidal action.

Test plants: Sida, Abutilon, Amaranthus, Chenopodium, Stellaria, Panicum, Euphorbia, Galium, Veronica, Kochia.

Table B2: Concentration: 1000 g of active substance per ha

Test plant: Cmp. no.	Sida	Abutilon	Amaranthus	Chenopodium	Stellaria
1.000	8	9	9	9	10
1.001	6	9	9	6	9

Table B2a: Concentration: 1000 g of active substance per ha

Test plant: Cmp. no.	Panicum	Euphor-bia	Sida	Amaran-thus	Stellaria	Galium	Veronica
1.013	5	6	6	9	9	6	4
1.263	0	7	0	0	5	3	5
2.021	9	8	6	5	6	5	5
2.022	0	8	4	4	5	9	6
2.350	2	0	4	5	1	0	1
2.381	8	6	6	4	0	4	5
3.088	8	5	0	8	2	0	2
3.263	8	5	0	5	0	0	0

Table B2b: Concentration: 1000 g of active substance per ha

Test plant: Cmp. no.	Kochia	Chenopodium
1.013	6	6
1.223	5	6
2.022	2	5
3.088	3	6

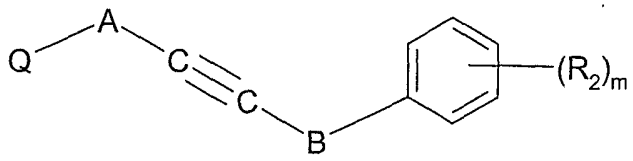
The same results are obtained when the compounds of formula I are formulated analogously to the other Examples of WO 97/34485.

The compounds of formula I according to the invention may also be used in admixture with known herbicides as co-herbicides for controlling weeds, for example as ready-for-use formulations or in the form of a 'tank-mix'. As mixing partners for the compounds of formula I, there are suitable, for example, the following co-herbicides: compound of formula I + triasulfuron; compound of formula I + prosulfuron; compound of formula I + clodinafop; compound of formula I + terbutryn; compound of formula I + dicamba; compound of formula I + cloquintocet-mexyl; compound of formula I + fenoxaprop-P-ethyl; compound of formula I + diclofop-methyl; compound of formula I + tralkoxydim; compound of formula I + amidosulfuron; compound of formula I + chlorsulfuron; compound of formula I + ethoxysulfuron; compound of formula I + flupyrsulfuron; compound of formula I + flupyrsulfuron-methyl-sodium; compound of formula I + metsulfuron-methyl; compound of formula I + sulfosulfuron; compound of formula I + thifensulfuron-methyl; compound of formula I + tribenuron-methyl; compound of formula I + imazamethabenz-methyl; compound of formula I + flucarbazone; compound of formula I + iodosulfuron; compound of formula I + florasulam; compound of formula I + flumetsulam; compound of formula I + metosulam; compound of formula I + chlorotoluron; compound of formula I + isoproturon; compound of formula I + methabenzthiazuron; compound of formula I + bromoxynil; compound of formula I + ioxynil; compound of formula I + pyridate; compound of formula I + bifenox; compound of formula I + fluoroglycofen-ethyl; compound of formula I + carfentrazone; compound of formula I + JV485 (MON48500); compound of formula I + diflufenican; compound of formula I + flurtamone; compound of formula I + glyphosate; compound of formula I + sulfosate; compound of formula I + glufosinate; compound of formula I + S-glufosinate; compound of formula I + bialaphos; compound of formula I + ethalfluralin; compound of formula I + pendimethalin; compound of formula I + trifluralin; compound of formula I + fluthiamid; compound of formula I + isoxaben; compound of formula I + prosulfocarb; compound of formula I + triallate; compound of formula I + 2,4-D; compound of formula I + 2,4-DB; compound of formula I + dichlorprop (2,4-DP); compound of formula I + MCPA; compound of formula I + MCPB; compound of formula I + mecoprop (MCPP); compound of formula I + mecoprop-P; compound of formula I + clopyralid; compound of formula I + fluroxypyr; compound of formula I + quinmerac; compound of formula I + benazolin-ethyl; compound of formula I + difenzoquat; compound of formula I + cyhalofop-butyl; compound of formula I + cinosulfuron; compound of formula I +

fenclorim; compound of formula I + butafenacil; compound of formula I + clodinafop-propargyl; compound of formula I + metolachlor; compound of formula I + S-metolachlor; compound of formula I + bensulfuron; compound of formula I + imazosulfuron; compound of formula I + pyrazosulfuron; compound of formula I + metsulfuron; compound of formula I + azimsulfuron; compound of formula I + AC014; compound of formula I + esprocarb; compound of formula I + mefenacet; compound of formula I + molinate; compound of formula I + propanil; compound of formula I + pyrazolate; compound of formula I + fenoxaprop-ethyl; compound of formula I + bispyribac; compound of formula I + bispyribac-sodium; compound of formula I + pyriminobac-methyl; compound of formula I + cafenstrole; compound of formula I + MY-100; compound of formula I + dymron; compound of formula I + NB061; compound of formula I + MK243; compound of formula I + HW-52; compound of formula I + oxadiargyl; compound of formula I + halosulfuron-methyl; compound of formula I + clomazone; compound of formula I + oxadiazon; compound of formula I + SAN1315; compound of formula I + mefenpyr; compound of formula I + chlormequat chloride; compound of formula I + clofencet; compound of formula I + cyclanilide; compound of formula I + ethephon; compound of formula I + flurprimidol; compound of formula I + gibberellic acid; compound of formula I + inabenfide; compound of formula I + maleic acid hydrazide; compound of formula I + mefluidide; compound of formula I + mepiquat chloride; compound of formula I + paclobutrazol; compound of formula I + prohexadione calcium; compound of formula I + uniconazole; compound of formula I + thidiazuron; compound of formula I + azimsulfuron; compound of formula I + cyclosulfamuron; compound of formula I + fentrazamide; compound of formula I + flazasulfuron; compound of formula I + fluazolate; compound of formula I + flufenacet; compound of formula I + indanofan; compound of formula I + benfuresate; compound of formula I + bentazone; compound of formula I + bromobutide; compound of formula I + dichlorprop-P; compound of formula I + dithiopyr; compound of formula I + ethametsulfuron; compound of formula I + flamprop-M; compound of formula I + methyldymron; compound of formula I + quinclorac; compound of formula I + thiazopyr; compound of formula I + paraquat, and also esters and salts of those mixing partners of the compound of formula I, which are mentioned, for example, in 'The Pesticide Manual', Eleventh Edition, 1997, BCPC.

What is claimed is:

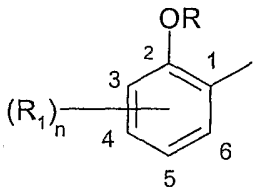
1. A compound of formula I



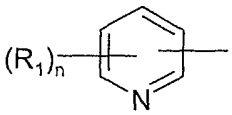
(I),

wherein

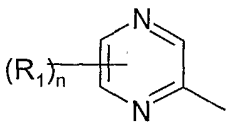
Q is a group



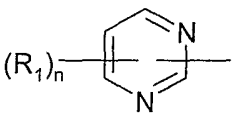
(Q_1),



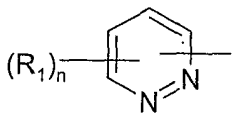
(Q_2),



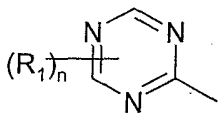
(Q_3),



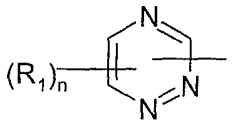
(Q_4),



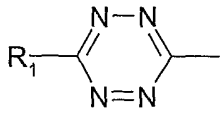
(Q_5),



(Q_6),



(Q_7) or



(Q_8);

n is 0, 1, 2, 3 or 4;

R is hydrogen, COR_{12}, $-S(O)_qC_1$-C_8alkyl, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl or C_3-C_6cycloalkyl; or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN, $-S(O)_qC_1$-C_8alkyl and phenyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$ and $-S(O)_qC_1$-C_8alkyl, or

R is C_3-C_6cycloalkyl substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN and phenyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or

once, twice or three times by substituents selected from C_1-C_4alkoxy, -CN, -NO_2 and -$S(O)_qC_1$-C_8alkyl, or

R is phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and methyl and/or once, twice or three times by substituents selected from -CF_3, -OCH_3, -CN, -NO_2 and -$S(O)_qC_1$-C_4alkyl; or,

when n is 0, 1, 2 or 3,

R forms a C_1-C_6alkylene or C_2-C_6alkenylene bridge attached to the phenyl ring in the 3-position, which bridge may be interrupted by an oxygen atom and/or may be substituted by C_1-C_6alkyl, an oxygen-oxygen bond being excluded and the total number of ring atoms being at least 5 and at most 9;

each R_1 independently of any other(s) may be halogen, -CN, -SCN, -SF_5, -NO_2, -NR_5R_6, -CO_2R_7, -$CONR_8R_9$, -$C(R_{10})$=NOR_{11}, -COR_{12}, -OR_{13}, -SR_{14}, -SOR_{15}, -SO_2R_{16}, -OSO_2R_{17}, C_1-C_8alkyl, C_2-C_8alkenyl, C_2-C_8alkynyl or C_3-C_6cycloalkyl; or is C_1-C_8alkyl, C_2-C_8alkenyl or C_2-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NO_2, -$NR_{18}R_{19}$, -CO_2R_{20}, -$CONR_{21}R_{22}$, -COR_{23}, -$C(R_{24})$=NOR_{25}, -$C(S)NR_{26}R_{27}$, -$C(C_1$-C_4alkylthio)=NR_{28}, -OR_{29}, -SR_{30}, -SOR_{31}, -SO_2R_{32} and C_3-C_6cycloalkyl; and/or each R_1 independently of any other(s) may be C_3-C_6cycloalkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NO_2, -$NR_{18}R_{19}$, -CO_2R_{20}, -$CONR_{21}R_{22}$, -COR_{23}, -$C(R_{24})$=NOR_{25}, -$C(S)NR_{26}R_{27}$, -$C(C_1$-C_4alkylthio)=NR_{28}, -OR_{29}, -SR_{30}, -SOR_{31}, -SO_2R_{32} and C_3-C_6cycloalkyl; and/or

each R_1 independently of any other(s) may be phenyl which may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or,

when Q is a group Q_1, Q_2, Q_3, Q_4, Q_5 or Q_7, two adjacent R_1 radicals may together form a C_1-C_7alkylene or C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9;

R_5 is hydrogen or C_1-C_8alkyl;

R_6 is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl, or

R_6 is C_1-C_8alkylcarbonyl, wherein the C_1-C_8alkyl chain may in turn be substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy; or

R_5 and R_6 together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_7 is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_8 and R_9 are each independently of the other hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_8 and R_9 are each independently of the other C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_8 and R_9 together are C_2-C_5alkylene;

R_{10} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{11} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{12} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{13} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl; or

R_{13} is phenyl or phenyl-C_1-C_6alkyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or

once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl; or

R_{13} is C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, C_1-C_6alkylamino, di(C_1-C_6-alkyl)amino and C_1-C_4alkoxy, or

R_{13} is C_1-C_8alkylcarbonyl, wherein the C_1-C_8alkyl chain may in turn be substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{14} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{15}, R_{16} and R_{17} are each independently of the others C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{18} is hydrogen or C_1-C_8alkyl;

R_{19} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{18} and R_{19} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{20} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{21} is hydrogen or C_1-C_8alkyl;

R_{22} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{22} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from

C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{21} and R_{22} together are C_2-C_5alkylene;

R_{23} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{24} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{25} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{26} is hydrogen or C_1-C_8alkyl;

R_{27} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{27} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{26} and R_{27} together are C_2-C_5alkylene;

R_{28} is hydrogen or C_1-C_8alkyl;

R_{29} and R_{30} are each independently of the other hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{31} and R_{32} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

m is 0, 1, 2, 3, 4 or 5;

each R_2 independently of any other(s) may be halogen, -CN, -SCN, -OCN, -N_3, -SF_5, -NO_2, -$NR_{33}R_{34}$, -CO_2R_{35}, -$CONR_{36}R_{37}$, -$C(R_{38})$=NOR_{39}, -COR_{40}, -OR_{41}, -SR_{42}, -SOR_{43}, -SO_2R_{44}, -OSO_2R_{45}, -$N([CO]_pR_{46})COR_{47}$, -$N(OR_{54})COR_{55}$, -$N(R_{56})SO_2R_{57}$, -$N(SO_2R_{58})SO_2R_{59}$, -N=$C(OR_{60})R_{61}$, -$CR_{62}(OR_{63})OR_{64}$, -$OC(O)NR_{65}R_{66}$, -$SC(O)NR_{67}R_{68}$, -$OC(S)NR_{69}R_{70}$ or -N-phthalimide; and/or

R_2 may be a 5- to 7-membered heterocyclic ring system which may be aromatic or partially or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur, which heterocyclic ring system may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or

once, twice or three times by substituents selected from C_1-C_4haloalkyl, hydroxy-C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, -CN, -NO_2, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl and C_1-C_6alkylsulfonyl;

R_{33} is hydrogen or C_1-C_8alkyl; and

R_{34} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl, or

R_{34} is C_1-C_8alkylcarbonyl unsubstituted or substituted by substituents selected from halogen, -CN, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy; or

R_{33} and R_{34} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{35} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{36} is hydrogen or C_1-C_8alkyl;

R_{37} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{37} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{36} and R_{37} together are C_3-C_5alkylene;

R_{38} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{39} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{40} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl, C_1-C_8alkylthio, -C(O)-C(O)OC_1-C_4alkyl or C_3-C_6cycloalkyl;

R_{41} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_6alkoxy-C_1-C_6alkyl, C_1-C_8alkylcarbonyl, C_1-C_8haloalkylcarbonyl, C_1-C_8alkoxycarbonyl, C_3-C_8alkenyloxycarbonyl, C_1-C_6alkoxy-C_1-C_6alkoxycarbonyl, C_1-C_6alkylthio-C_1-C_6alkyl, C_1-C_6alkylsulfinyl-C_1-C_6alkyl or C_1-C_6alkylsulfonyl-C_1-C_6alkyl; or

R_{41} is phenyl or phenyl-C_1-C_6alkyl, wherein the phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$ and $-S(O)_2C_1$-C_8alkyl, or

R_{41} is C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and -CN;

R_{42} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{43} and R_{44} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{45} is C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy, or

R_{45} is phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, NO_2, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{46} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl or C_1-C_4haloalkyl;

R_{47} is hydrogen, C_1-C_8alkyl, C_1-C_4alkoxy, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, C_1-C_4alkoxy, C_1-C_8alkoxycarbonyl, $-NH_2$, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NR_{48}COR_{49}$, $-NR_{50}SO_2R_{51}$ and $-NR_{52}CO_2R_{53}$, or

R_{47} is phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

p is 0 or 1;

R_{48}, R_{49}, R_{50}, R_{51}, R_{52} and R_{53} are each independently of the others hydrogen, C_1-C_8alkyl, phenyl, benzyl or naphthyl, wherein the three last-mentioned aromatic radicals may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_8alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{54} and R_{55} are each independently of the other hydrogen, C_1-C_8alkyl or phenyl which may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{56} is hydrogen, C_1-C_8alkyl, C_1-C_4haloalkyl, C_1-C_4alkoxy, C_3-C_8alkenyl, C_3-C_8alkynyl or benzyl, wherein benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_8alkylthio, C_1-C_8alkylsulfinyl and C_1-C_8alkylsulfonyl;

R_{57} is C_1-C_8alkyl, C_1-C_4haloalkyl, phenyl, benzyl or naphthyl, wherein the latter three aromatic rings may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{58} and R_{59} are each independently of the other C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl, benzyl or naphthyl, wherein the latter three aromatic rings may be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, $-NH_2$, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{60} and R_{61} are each independently of the other hydrogen or C_1-C_6alkyl;

R_{62}, R_{63} and R_{64} are each independently of the others hydrogen or C_1-C_8alkyl, or R_{63} and R_{64} together form a C_2-C_5alkylene bridge;

R_{65}, R_{66}, R_{67}, R_{68}, R_{69} and R_{70} are each independently of the others hydrogen or C_1-C_8alkyl, or

R_{65} and R_{66}, or R_{67} and R_{68}, or R_{69} and R_{70} together in each case form a C_2-C_5alkylene bridge; and/or

each R_2 independently of any other(s) may be C_1-C_8alkyl, or C_1-C_8alkyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-N_3$, -SCN, $-NO_2$, $-NR_{71}R_{72}$, $-CO_2R_{73}$, $-CONR_{74}R_{75}$, $-COR_{76}$, $-C(R_{77})=NOR_{78}$, $-C(S)NR_{79}R_{80}$, $-C(C_1$-C_4alkylthio$)=NR_{81}$, $-OR_{82}$, $-SR_{83}$, $-SOR_{84}$, $-SO_2R_{85}$, $-O(SO_2)R_{86}$, $-N(R_{87})CO_2R_{88}$, $-N(R_{89})COR_{90}$, $-S^+(R_{91})_2$, $-N^+(R_{92})_3$, $-Si(R_{93})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_1-C_8alkyl substituted by a 5- to 7-membered heterocyclic ring system which may be aromatic or partially or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur, wherein that heterocyclic ring system may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, hydroxy-C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkoxy-C_1-C_4alkyl, -CN, $-NO_2$, C_1-C_6alkylthio, C_1-C_6alkylsulfinyl and C_1-C_6alkylsulfonyl; and/or

each R_2 independently of any other(s) may be C_2-C_8alkenyl, or C_2-C_8alkenyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-NO_2$, $-CO_2R_{94}$, $-CONR_{95}R_{96}$, $-COR_{97}$, $-C(R_{98})=NOR_{99}$, $-C(S)NR_{100}R_{101}$, $-C(C_1$-C_4alkylthio$)=NR_{102}$, $-OR_{103}$, $-Si(R_{104})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_2-C_8alkynyl, or C_2-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, $-CO_2R_{105}$, $-CONR_{106}R_{107}$, $-COR_{108}$, $-C(R_{109})=NOR_{110}$, $-C(S)NR_{111}R_{112}$, $-C(C_1$-C_4alkylthio$)=NR_{113}$, $-OR_{114}$, $-Si(R_{115})_3$ and C_3-C_6cycloalkyl; and/or

each R_2 independently of any other(s) may be C_3-C_6cycloalkyl, or C_3-C_6cycloalkyl substituted from one to five times by halogen and/or once, twice or three times by

substituents selected from -CN, $-CO_2R_{116}$, $-CONR_{117}R_{118}$, $-COR_{119}$, $-C(R_{120})=NOR_{121}$, $-C(S)NR_{122}R_{123}$ and $-C(C_1\text{-}C_4alkylthio)=NR_{124}$; and/or

two adjacent R_2 radicals together may form a C_1-C_7alkylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9; and/or

two adjacent R_2 radicals together may form a C_2-C_7alkenylene bridge which may be interrupted by from 1 to 3 hetero atoms selected from oxygen, nitrogen and sulfur and/or may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6alkoxy, the total number of ring atoms being at least 5 and at most 9;

R_{71} is hydrogen or C_1-C_8alkyl;

R_{72} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{71} and R_{72} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{73} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, $-NO_2$, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{74} is hydrogen or C_1-C_8alkyl;

R_{75} is hydrogen, C_1-C_8alkyl or C_3-C_7cycloalkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl, C_1-C_6alkoxy and -CN; or

R_{75} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and

C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{74} and R_{75} together are a C_2-C_5alkylene chain which may be interrupted by an oxygen or sulfur atom;

R_{76} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{77} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{78} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl; and

R_{79} is hydrogen or C_1-C_8alkyl;

R_{80} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{80} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{79} and R_{80} together are C_2-C_5alkylene;

R_{81} is hydrogen or C_1-C_8alkyl;

R_{82} is -Si(C_1-C_6alkyl)$_3$, C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NH_2, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{83} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN, -NH_2, C_1-C_6alkylamino, di(C_1-C_6alkyl)amino and C_1-C_4alkoxy;

R_{84}, R_{85} and R_{86} are each independently of the others C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl, or C_1-C_8alkyl which is substituted from one to five times by halogen and/or once, twice or three times by substituents selected from -CN and C_1-C_4alkoxy;

R_{87} and R_{89} are each independently of the other hydrogen, C_1-C_8alkyl or C_1-C_8alkoxy;

R_{88} is C_1-C_8alkyl;

R_{90} is hydrogen or C_1-C_8alkyl;

R_{91} is C_1-C_4alkyl;

R_{92} and R_{93} are each independently of the other C_1-C_6alkyl;

R_{94} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{95} is hydrogen or C_1-C_8alkyl;

R_{96} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{96} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{95} and R_{96} together are C_2-C_5alkylene;

R_{97} and R_{98} are each independently of the other hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{99} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{100} is hydrogen or C_1-C_8alkyl;

R_{101} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{101} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{100} and R_{101} together are C_2-C_5alkylene;

R_{102} is hydrogen or C_1-C_8alkyl;

R_{103} is hydrogen, C_1-C_8alkyl, -Si(C_1-C_6alkyl)$_3$, C_3-C_8alkenyl or C_3-C_8alkynyl;

R_{104} is C_1-C_6alkyl;

R_{105} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{106} is hydrogen or C_1-C_8alkyl;

R_{107} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN, or

R_{107} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{106} and R_{107} together are C_2-C_5alkylene;

R_{108} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{109} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{110} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{111} is hydrogen or C_1-C_8alkyl;

R_{112} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{112} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{111} and R_{112} together are C_2-C_5alkylene;

R_{113} is hydrogen or C_1-C_8alkyl;

R_{114} is hydrogen, C_1-C_8alkyl, -Si(C_1-C_6alkyl)$_3$, C_3-C_8alkenyl or C_3-C_8alkynyl;

R_{115} is C_1-C_6alkyl;

R_{116} is hydrogen, or C_1-C_8alkyl, C_3-C_8alkenyl or C_3-C_8alkynyl each of which may be substituted from one to five times by halogen and/or once, twice or three times by substituents selected from C_1-C_4alkoxy and phenyl, wherein phenyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl;

R_{117} is hydrogen or C_1-C_8alkyl;

R_{118} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{118} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

R_{117} and R_{118} together are C_2-C_5alkylene;

R_{119} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{120} is hydrogen, C_1-C_4alkyl, C_1-C_4haloalkyl or C_3-C_6cycloalkyl;

R_{121} is hydrogen, C_1-C_8alkyl, C_3-C_8alkenyl, C_3-C_8alkynyl, C_1-C_4haloalkyl or C_3-C_6haloalkenyl;

R_{122} is hydrogen or C_1-C_8alkyl;

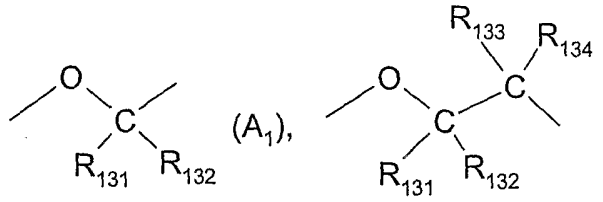
R_{123} is hydrogen or C_1-C_8alkyl, or C_1-C_8alkyl substituted once, twice or three times by substituents selected from -COOH, C_1-C_8alkoxycarbonyl and -CN; or

R_{123} is C_3-C_8alkenyl, C_3-C_8alkynyl, phenyl or benzyl, wherein phenyl and benzyl may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_4alkyl and/or once, twice or three times by substituents selected from C_1-C_4haloalkyl, C_1-C_4alkoxy, -CN, -NO_2, C_1-C_4alkylthio, C_1-C_4alkylsulfinyl and C_1-C_4alkylsulfonyl; or

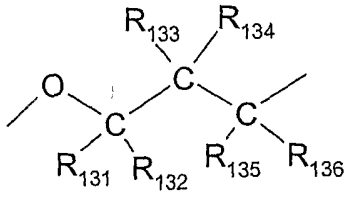
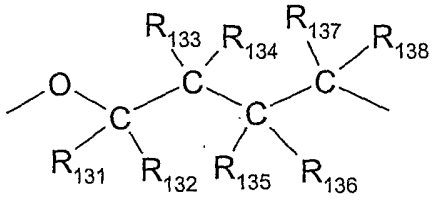
R_{122} and R_{123} together are C_2-C_5alkylene; and

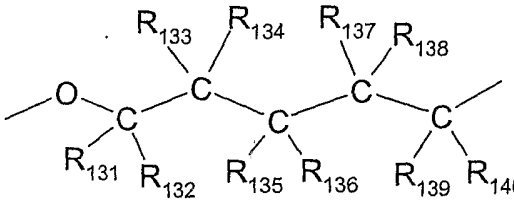
R_{124} is hydrogen or C_1-C_8alkyl;

A is a bridging member A_1, A_2, A_3, A_4 or A_5


(A1),

(A2),


(A3),

(A4) or


(A5),

wherein the bridging members A_1 to A_5 are linked to the group Q at the end carrying the oxygen atom;

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} are each independently of the others hydrogen, halogen, -CN, $-NO_2$, $-N(R_{200})R_{201}$, C_1-C_6alkyl, C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_3-C_6alkenyloxy, C_3-C_6haloalkenyloxy, C_3-C_6alkynyloxy, C_3-C_8cycloalkyl, C_3-C_8halocycloalkyl, $-C(O)OR_{202}$, $-C(O)NR_{203}R_{204}$, $-C(S)NR_{205}R_{206}$, $-COR_{207}$, $-CSR_{208}$, $-C(R_{209})=NOR_{210}$, $-OC(O)R_{211}$, $-OC(O)OR_{212}$, $-SC(O)R_{213}$, $-SC(O)OR_{214}$, $-OC(S)SR_{215}$, $-SC(S)SR_{216}$, $-OSO_2C_1$-C_6alkyl, $-OSO_2C_1$-C_6haloalkyl, -SH, $-S(O)_qC_1$-C_6alkyl or $-S(O)_qC_1$-C_6haloalkyl, and/or

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} may be each independently of the others C_1-C_6alkyl or C_1-C_6alkoxy each of which is substituted once, twice or three times by substituents selected from -CN, $C(O)OR_{217}$, -CHO, $-COR_{218}$, $-C(O)NR_{219}R_{220}$, $-C(S)NR_{221}R_{222}$, $-C(R_{223})=NOR_{224}$, $-N(R_{225})R_{226}$, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -SH, $-S(O)_qC_1$-C_6alkyl, $-S(O)_qC_1$-C_6haloalkyl, $-Si(C_1$-C_6alkyl$)_3$, $-Si(C_1$-C_6alkyl$)_r$(phenyl)$_s$ and phenyl, wherein each phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, $-COR_{227}$, $-COOR_{228}$, $-NO_2$, $-N(R_{229})R_{230}$, -SH, $-S(O)_qC_1$-C_6alkyl and $-S(O)_qC_1$-C_6haloalkyl; and/or

R_{131}, R_{132}, R_{133}, R_{134}, R_{135}, R_{136}, R_{137}, R_{138}, R_{139} and R_{140} may be each independently of the others phenyl or phenyl substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{200} and R_{201} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

R_{202} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{203} and R_{204} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

R_{205} and R_{206} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

R_{207} and R_{208} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy,

C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{209} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{210} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{211} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{212} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{213} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{214}, R_{215} and R_{216} are each independently of the others hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be

substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{217} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{218} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{219} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{220} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{221} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{222} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from

C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{223} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_1-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{224} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{225} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{226} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl or phenyl, wherein the phenyl ring may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -$N(R_{229})R_{230}$, -SH, -$S(O)_qC_1$-C_6alkyl and -$S(O)_qC_1$-C_6haloalkyl;

R_{227} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{228} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

R_{229} and R_{230} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227};

q is 0, 1 or 2;

r and s are 0, 1, 2 or 3, the sum of [r + s] being 3; or any one or more of those pairs of substituents R_{133} to R_{140} which are bonded to the same carbon atom together may form, each independently of any other(s), the function =O, =S, =NOR_{231} or =$NN(R_{232})R_{233}$;

R_{231} is hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_3-C_6alkenyl, C_3-C_6haloalkenyl, C_3-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy and C_1-C_6haloalkoxy;

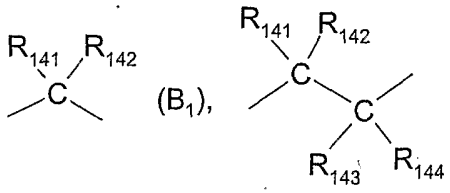
R_{232} and R_{233} are each independently of the other hydrogen, C_1-C_6alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}; or

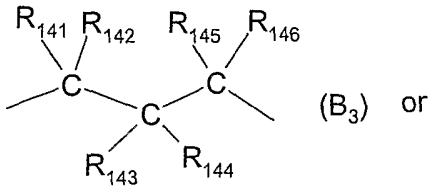
R_{131} and R_{132} together, R_{133} and R_{134} together, R_{135} and R_{136} together, R_{137} and R_{138} together and/or R_{139} and R_{140} together, each independently of any other(s), may form a C_2-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

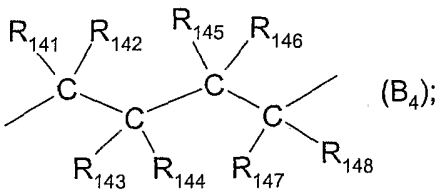
R_{131} and R_{133} together, R_{133} and R_{135} together, R_{135} and R_{137} together, and/or R_{137} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

R_{131} and R_{135} together, R_{133} and R_{137} together, and/or R_{135} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or R_{131} and R_{137} together, R_{133} and R_{139} together, and/or R_{131} and R_{139} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl, with the proviso that for R_{131} and R_{132} the meanings -OH, -SH and -N(R_{200})R_{201} wherein R_{200} and R_{201} are hydrogen are excluded;

B either is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring or is a bridging member B_1, B_2, B_3 or B_4







R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} are each independently of the others hydrogen, halogen, -CN, -NO_2, -N(R_{200})R_{201}, C_1-C_6alkyl, C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_3-C_6alkenyloxy, C_3-C_6haloalkenyloxy, C_3-C_6alkynyloxy, C_3-C_8cycloalkyl, C_3-C_8halocycloalkyl, -C(O)OR_{202}, -C(O)N$R_{203}R_{204}$, -C(S)N$R_{205}R_{206}$, -COR_{207}, -CSR_{208}, -C(R_{209})=NOR_{210}, -OC(O)R_{211}, -OC(O)OR_{212}, -SC(O)R_{213}, -SC(O)OR_{214}, -OC(S)SR_{215}, -SC(S)SR_{216}, -OSO_2C_1-C_6alkyl, -OSO_2C_1-C_6haloalkyl, -SH, -$S(O)_qC_1$-C_6alkyl or -$S(O)_qC_1$-C_6haloalkyl, and/or

R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} may be each independently of the others C_1-C_6alkyl or C_1-C_6alkoxy each of which is substituted once, twice or three times by substituents selected from -CN, C(O)OR_{217}, -CHO, -COR_{218}, -C(O)N$R_{219}R_{220}$, -C(S)N$R_{221}R_{222}$, -C(R_{223})=NOR_{224}, -N(R_{225})R_{226}, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -SH, -$S(O)_qC_1$-C_6alkyl, -$S(O)_qC_1$-C_6haloalkyl, -Si(C_1-C_6alkyl)$_3$,

-Si(C_1-C_6alkyl)$_r$(phenyl)$_s$ and phenyl, wherein each phenyl ring may in turn be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -N(R_{229})R_{230}, -SH, -S(O)$_q$$C_1$-$C_6$alkyl and -S(O)$_q$$C_1$-$C_6$haloalkyl, wherein R_{200} to R_{230}, q, r and s are as defined hereinbefore; and/or

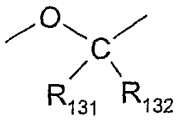
R_{141}, R_{142}, R_{143}, R_{144}, R_{145}, R_{146}, R_{147} and R_{148} may be each independently of the others phenyl or phenyl substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy, -CN, -COR_{227}, -$COOR_{228}$, -NO_2, -N(R_{229})R_{230}, -SH, -S(O)$_q$$C_1$-$C_6$alkyl and -S(O)$_q$$C_1$-$C_6$haloalkyl; or any one or more of those pairs of substituents R_{141} to R_{148} which are bonded to the same carbon atom together may form, each independently of any other(s), the function =O, =S, =NOR_{231} or =NN(R_{232})R_{233}, wherein R_{231} to R_{233} are as defined hereinbefore; and/or

R_{141} and R_{142} together, R_{143} and R_{144} together, R_{145} and R_{146} together, and/or R_{147} and R_{148} together, each independently of any other(s), may form a C_2-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

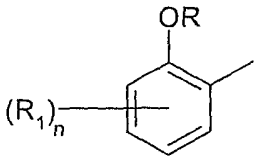
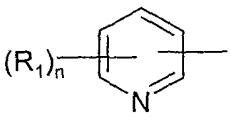
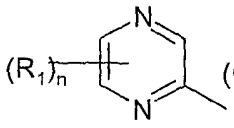
R_{141} and R_{143} together, R_{143} and R_{145} together, and/or R_{145} and R_{147} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl; and/or

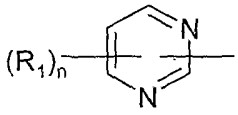
R_{141} and R_{145} together, R_{143} and R_{147} together, and/or R_{141} and R_{147} together, each independently of any other(s), may form a C_1-C_6alkylene or C_2-C_6alkenylene bridge each of which may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by C_1-C_6haloalkyl,

or compounds of the formula I containing an N-oxide of the groups Q_2, Q_3, Q_4, Q_5, Q_6, Q_7 or Q_8, or an agrochemically acceptable salt or any stereoisomer or tautomer of a compound of formula I with the proviso that, when B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring, the bridging member A is other than

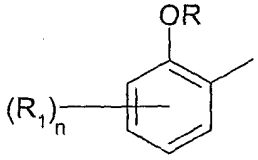
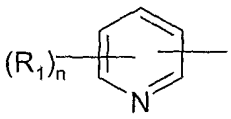

(A$_1$).

2. A compound according to claim 1, wherein Q is a group Q$_1$, Q$_2$, Q$_3$ or Q$_4$

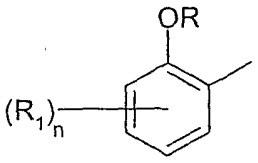

(Q$_1$),

(Q$_2$),

(Q$_3$) or


(Q$_4$).

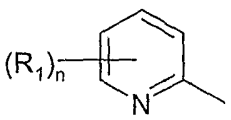
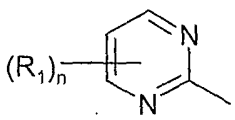
3. A compound according to claim 2, wherein Q is a group Q$_1$ or Q$_2$


(Q$_1$) or

(Q$_2$).

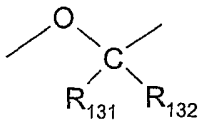
4. A compound according to claim 3, wherein Q is a group Q$_1$


(Q$_1$).

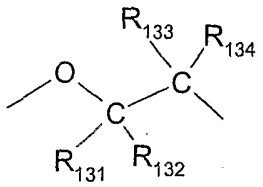
5. A compound according to claim 2, wherein Q is a group Q$_{2a}$ or Q$_{4a}$


(Q$_{2a}$) or

(Q$_{4a}$).

6. A compound according to claim 1, wherein A is a bridging member A_1 or A_2

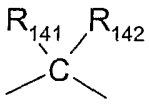


(A_1) or



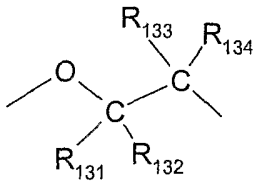
(A_2).

7. A compound according to claim 1, wherein B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring or is the bridging member B_1



(B_1).

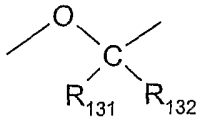
8. A compound according to claim 1, wherein A is a bridging member A_2



(A_2),

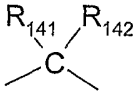
and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

9. A compound according to claim 1, wherein A is the bridging member A_1



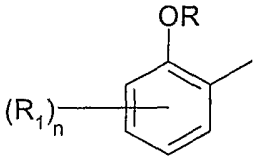
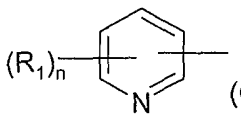
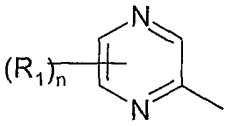
(A_1),

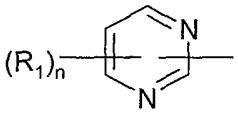
and B is the bridging member B_1



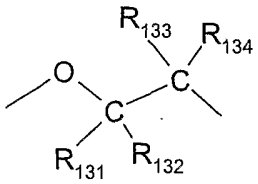
(B_1).

10. A compound according to claim 1, wherein Q is a group Q_1, Q_2, Q_3 or Q_4


(Q_1),

(Q_2),

(Q_3) or

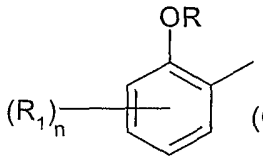
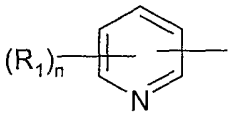
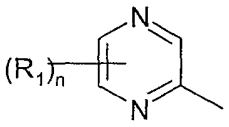

(Q_4),

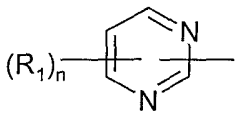
A is the bridging member A_2


(A_2),

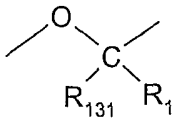
and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

11. A compound according to claim 1, wherein Q is a group Q_1, Q_2, Q_3 or Q_4

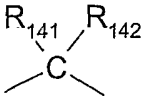

(Q_1),

(Q_2),

(Q_3) or


(Q_4),

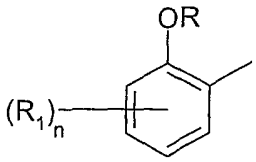
A is the bridging member A_1


(A_1),

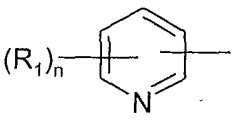
and B is the bridging member B_1


(B_1).

12. A compound according to claim 1, wherein Q is a group Q_1 or Q_2

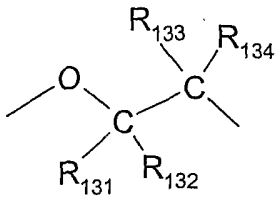


(Q_1) or



(Q_2),

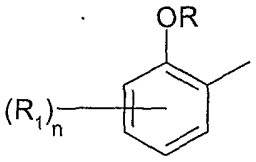
A is the bridging member A_2



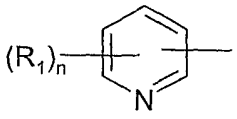
(A_2),

and B is a direct bond between the sp-hybridised carbon atom of the triple bond and the phenyl ring.

13. A compound according to claim 1, wherein Q is a group Q_1 or Q_2

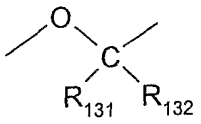


(Q_1) or



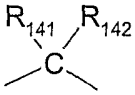
(Q_2),

A is the bridging member A_1



(A_1),

and B is the bridging member B_1



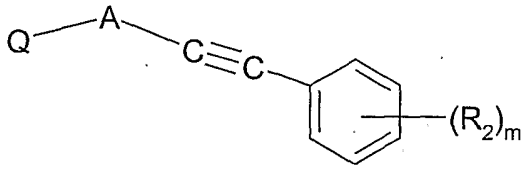
(B_1).

14. A compound according to claim 1, wherein each R_1, independently of any other(s), is halogen, -CN, $-NO_2$, $-C(R_{10})=NOR_{11}$, $-OR_{13}$, $-SO_2R_{16}$, $-OSO_2R_{17}$, C_1-C_8alkyl or C_2-C_8alkenyl, or C_1-C_8alkyl substituted once, twice or three times by halogen and/or by -CN; R_{10} is hydrogen or C_1-C_4alkyl; R_{11} is C_1-C_8alkyl, and n is 0, 1, 2 or 3.

15. A compound according to claim 2, wherein each R_2, independently of any other(s), is halogen, -CN, -SCN, -OCN, $-N_3$, $-NO_2$, $-NR_{33}R_{34}$, $-CO_2R_{35}$, $-CONR_{36}R_{37}$, $-C(R_{38})=NOR_{39}$, $-COR_{40}$, $-OR_{41}$, $-SO_2R_{44}$, $-OSO_2R_{45}$, $-N([CO]_pR_{46})COR_{47}$, $-N(R_{56})SO_2R_{57}$, $-N(SO_2R_{58})SO_2R_{59}$, $-N=C(OR_{60})R_{61}$ or C_1-C_8alkyl, or C_1-C_8alkyl

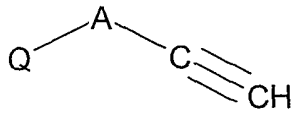
substituted once, twice or three times by halogen, -CN, -N_3, -SCN, -CO_2R_{73}, -$CONR_{74}R_{75}$, -COR_{76}, -$C(R_{77})$=NOR_{78}, -$C(S)NR_{79}R_{80}$, -OR_{82}, -SOR_{84}, -SO_2R_{85} and/or by -$N(R_{89})COR_{90}$, and m is 0, 1, 2, 3 or 4.

16. A process for the preparation of a compound of formula Iab_0



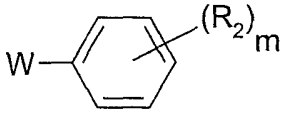
(Iab_0),

wherein A, Q, R_2 and m are as defined in claim 1, which comprises coupling a compound of formula IIa



(IIa),

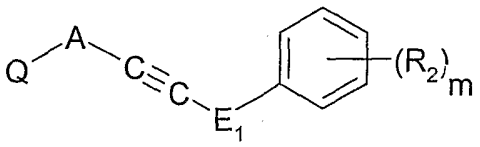
wherein A and Q are as defined, with a compound of formula III



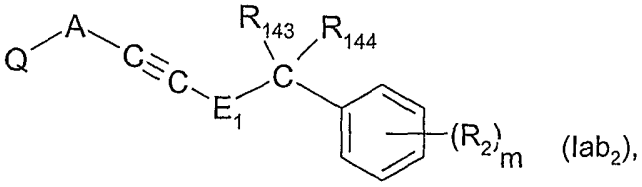
(III),

wherein R_2 and m are as defined and W is a leaving group, in the presence of a palladium catalyst under Sonogashira reaction conditions.

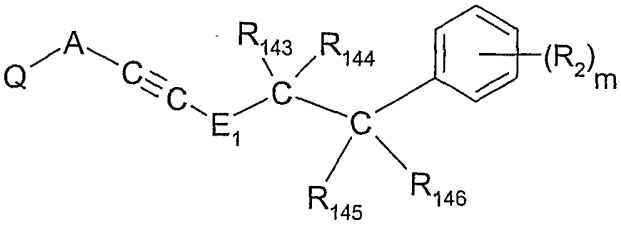
17. A process for the preparation of a compound of formula Iab_1, Iab_2, Iab_3 or Iab_4



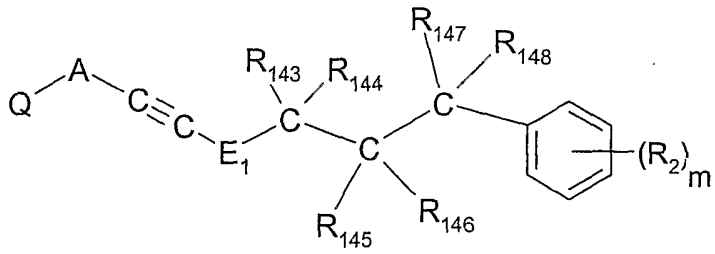
(Iab_1),



(Iab_2),

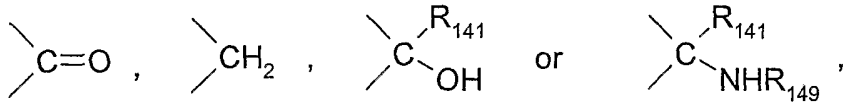


(Iab_3) or

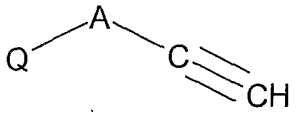


(Iab$_4$),

wherein A, Q, R_2, m and R_{143} to R_{148} are as defined in claim 1 and E_1 is a bridging member

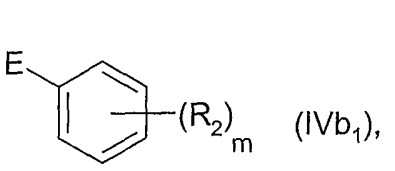


wherein R_{141} is as defined in claim 1 and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, which comprises causing a compound of formula IIa

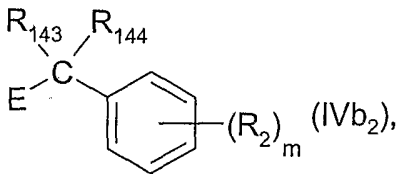


(IIa),

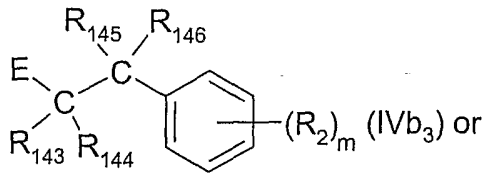
wherein A and Q are as defined, to react with a compound of formula IVb$_1$, IVb$_2$, IVb$_3$ or IVb$_4$



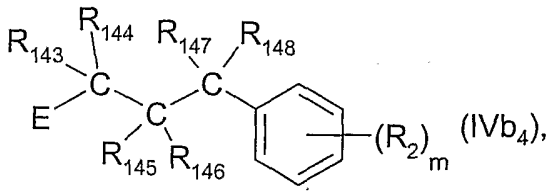
(IVb$_1$),



(IVb$_2$),

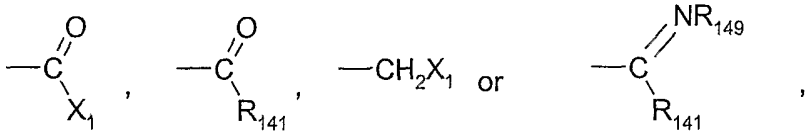


(IVb$_3$) or



(IVb$_4$),

wherein R_2, m and R_{143} to R_{148} are as defined and E is an electrophilic functional group



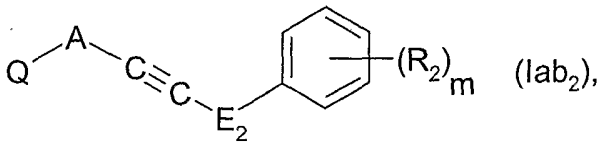
wherein R_{141} and R_{149} are as defined and X_1 is a leaving group, in the presence

a) of a strong base or

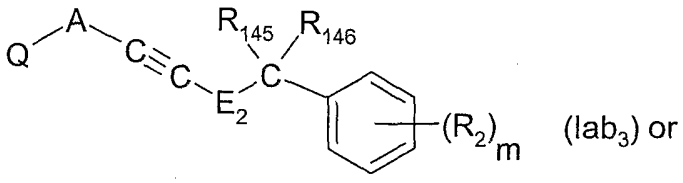
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

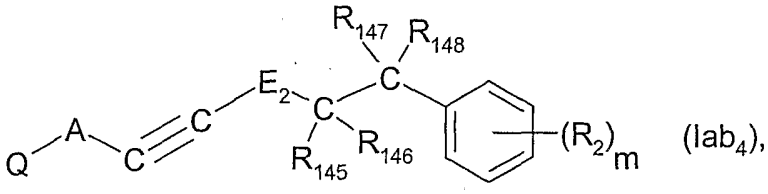
18. A process for the preparation of a compound of formula Iab_2, Iab_3 or Iab_4



(Iab_2),

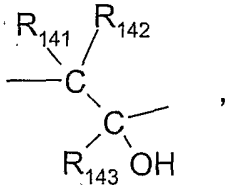


(Iab_3) or

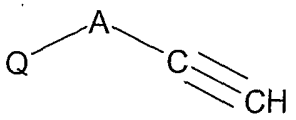


(Iab_4),

wherein A, Q, R_2, m and R_{145} to R_{148} are as defined in claim 1 and E_2 is a bridging member

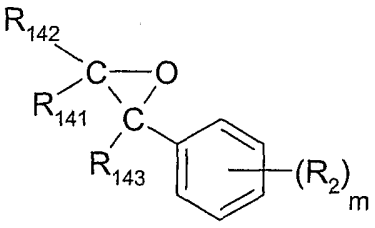


wherein R_{141}, R_{142} and R_{143} are as defined in claim 1, which comprises causing a compound of formula IIa

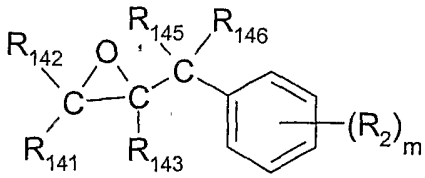


(IIa),

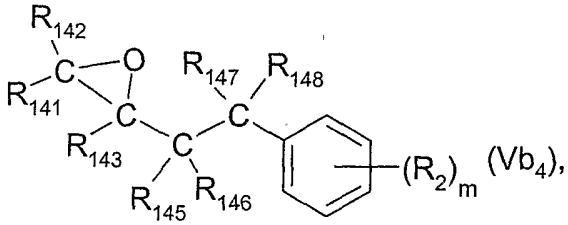
wherein A and Q are as defined, to react with a compound of formula Vb_2, Vb_3 or Vb_4



(Vb_2),



(Vb_3) or



(Vb_4),

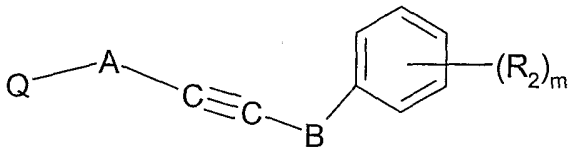
wherein R_2, m, R_{141} to R_{143}, and R_{145} to R_{148} are as defined, in the presence

a) of a strong base or

b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

19. A process for the preparation of a compound of formula I

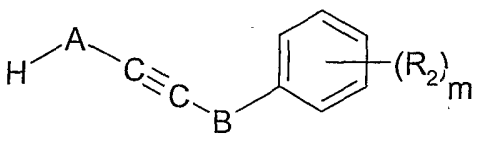


(I),

wherein A, Q, B, R_2 and m are as defined in claim 1, which comprises causing a compound of formula VII

Q-OH (VII)

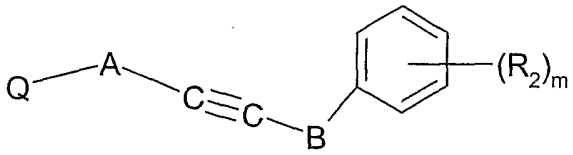
to react with a compound of formula VIII



(VIII)

under typical Mitsunobu reaction conditions, the radicals A, Q, B and R_2 and the suffix m in the compounds of formulae VII and VIII being as defined.

20. A process for the preparation of a compound of formula I

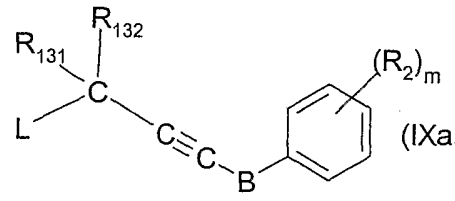


(I),

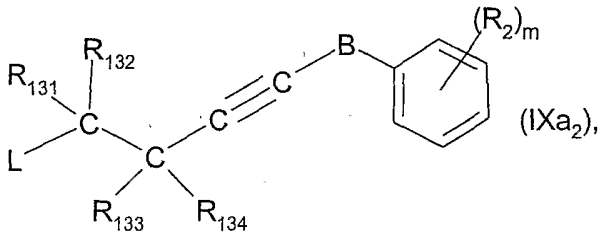
wherein A, Q, B, R_2 and m are as defined in claim 1, which comprises causing a compound of formula VII

Q-OH (VII)

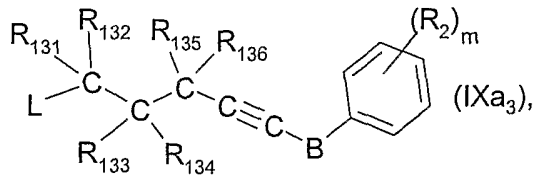
and a compound of formula IXa_1, IXa_2, IXa_3, IXa_4 or IXa_5



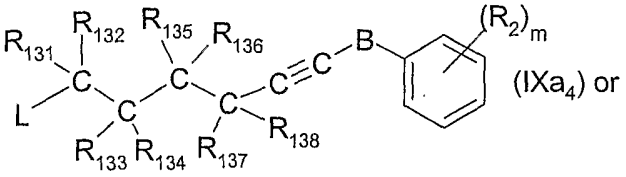
(IXa_1),



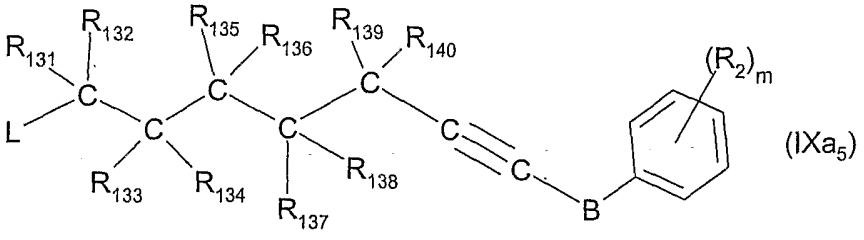
(IXa_2),



(IXa_3),



(IXa_4) or

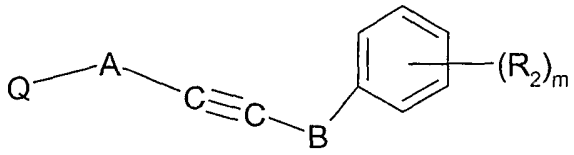


(IXa_5)

to react with one another under typical base-catalysed reaction conditions of alkylation, the radicals Q, B and R_2 and the suffix m in the compounds of formulae

VII and IXa$_1$ to IXa$_5$ being as defined, R_{131} to R_{140} being as defined in claim 1 and L being a leaving group.

21. A process for the preparation of a compound of formula I

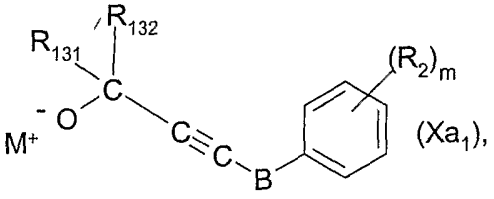


(I),

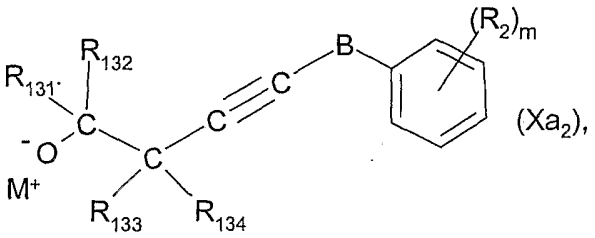
wherein A, Q, B, R_2 and m are as defined in claim 1, which comprises causing a compound of formula VII$_1$

$$Q\text{-}L_1 \qquad (VII_1)$$

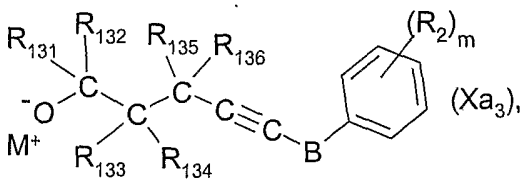
to react with a compound of formula Xa$_1$, Xa$_2$, Xa$_3$, Xa$_4$ or Xa$_5$



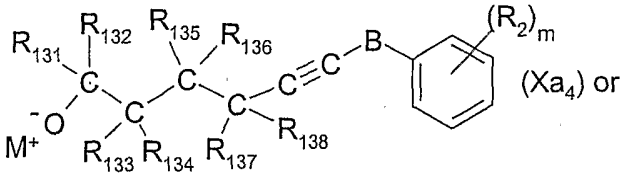
(Xa$_1$),



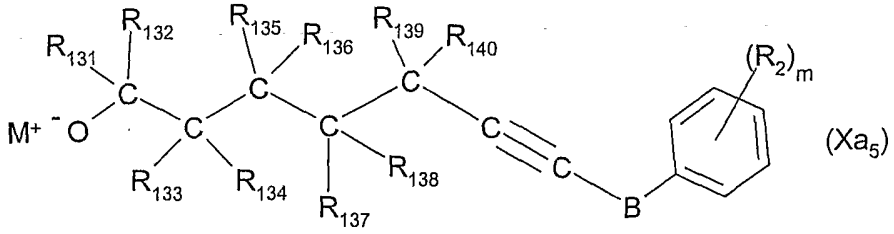
(Xa$_2$),



(Xa$_3$),



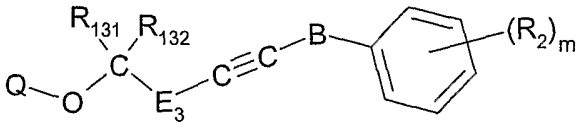
(Xa$_4$) or

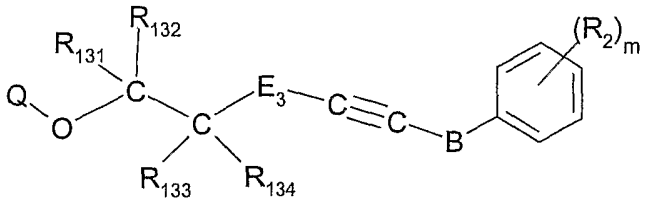


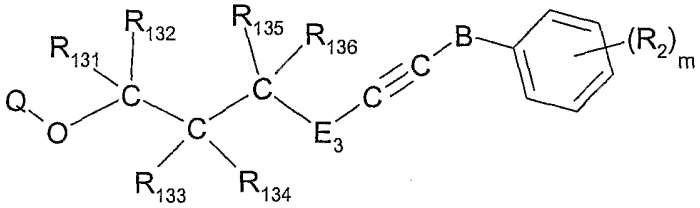
(Xa$_5$)

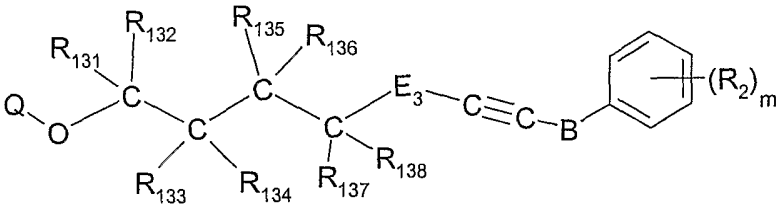
under typical nucleophilic aromatic substitution reaction conditions, the radicals Q, B and R_2 and the suffix m in the compounds of formulae VII_1 and Xa_1 to Xa_5 being as defined, R_{131} to R_{140} being as defined in claim 1, L_1 being a leaving group and M^+ being an alkali metal ion.

22. A process for the preparation of a compound of formula Ia_2b, Ia_3b, Ia_4b or Ia_5b

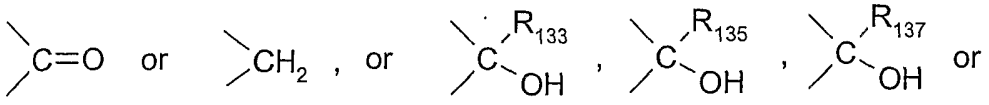

(Ia_2b),

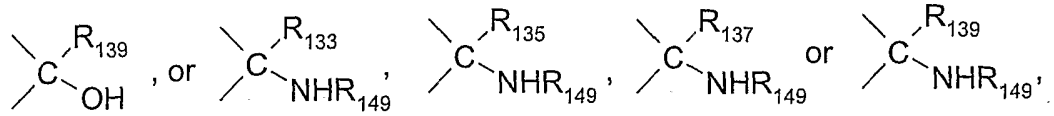

(Ia_3b),


(Ia_4b) or


(Ia_5b),

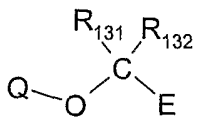
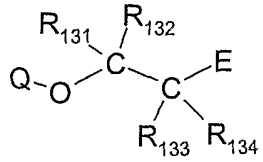
wherein Q, B, R_2, m and R_{131} to R_{138} are as defined in claim 1 and E_3 is a bridging member

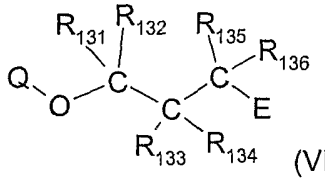
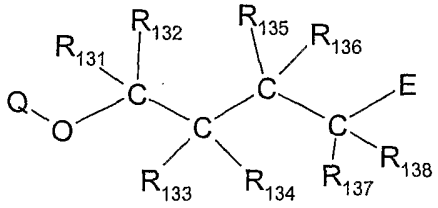

or


,

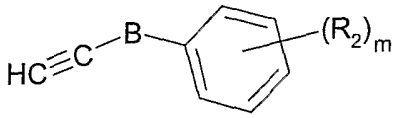
wherein R_{133}, R_{135}, R_{137} and R_{139} are as defined in claim 1 and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from

halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, which comprises causing a compound of formula VIa_1, VIa_2, VIa_3 or VIa_4


(VIa_1),

(VIa_2),


(VIa_3) or

(VIa_4)

to react with a compound of formula IIb

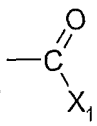
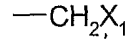
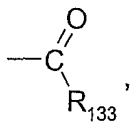
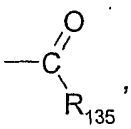
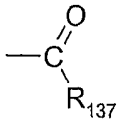

(IIb)

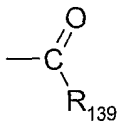
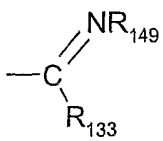
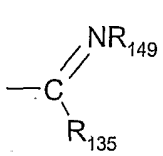
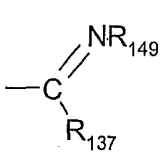
in the presence

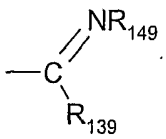
a) of a strong base or

b) of zinc salts and a base

in an inert organic solvent at temperatures from –100° to 50°C, the radicals Q, B, R_2 and R_{131} to R_{138} and the suffix m in the compounds of formulae VIa_1 to VIa_4 and IIb being as defined and E being an electrophilic functional group

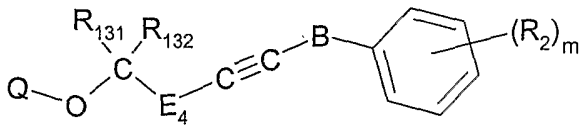

or

, or

,

,

or


, or

,

,

or

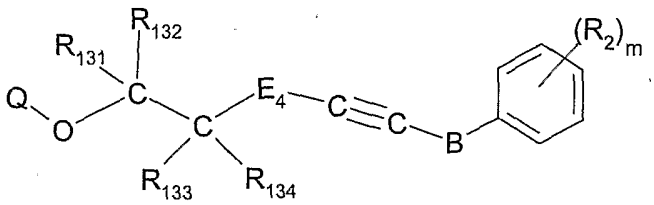

,

wherein R_{133}, R_{135}, R_{137}, R_{139} and R_{149} are as defined and X_1 is a leaving group.

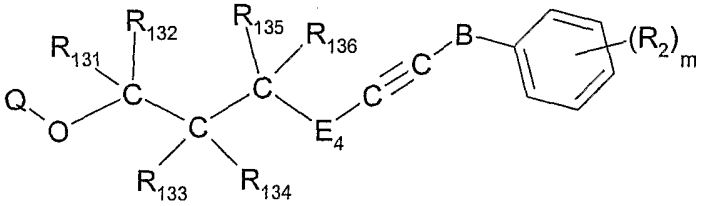
23. A process for the preparation of a compound of formula Ia_3b, Ia_4b or Ia_5b



(Ia_3b),

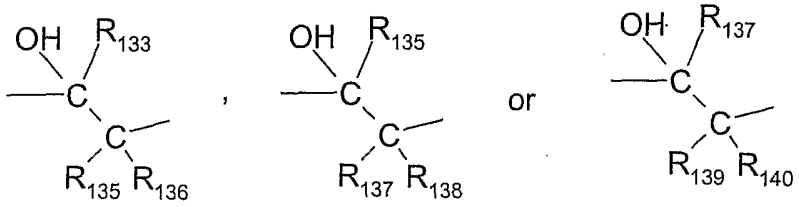


(Ia_4b) or

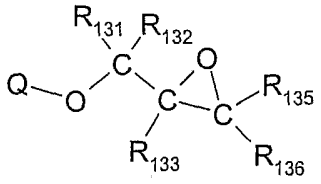


(Ia_5b),

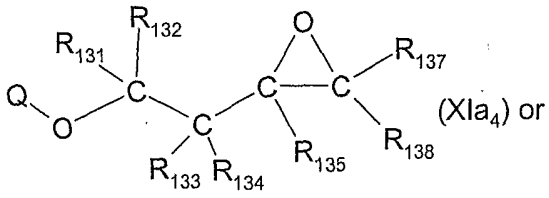
wherein Q, B, R_2, m and R_{131} to R_{136} are as defined in claim 1 and E_4 is a bridging member



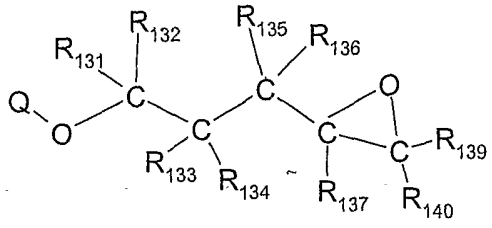
wherein R_{133} and R_{135} to R_{140} are as defined in claim 1, which comprises causing a compound of formula XIa_3, XIa_4 or XIa_5



(XIa_3),

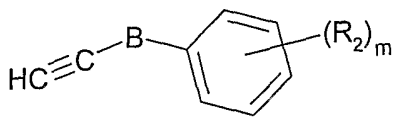


(XIa_4) or



(XIa_5)

to react with a compound of formula IIb



(IIb)

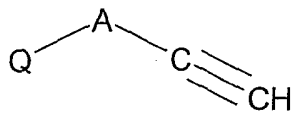
in the presence

a) of a strong base or

b) of zinc salts and a base

in an inert organic solvent at temperatures from –100° to 50°C, the radicals Q, B, R_2 and R_{131} to R_{140} and the suffix m in the compounds of formulae XIa_3 to XIa_5 and IIb being as defined.

24. A process for the preparation of a compound of formula IIa

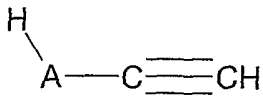


(IIa),

wherein A and Q are as defined in claim 1, which comprises coupling a compound of formula VII

Q-OH (VII)

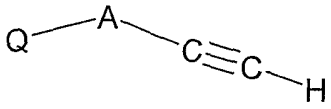
with a compound of formula XII



(XII),

wherein the radicals A and Q in the compounds of formulae VII and XII are as defined, under typical Mitsunobu reaction conditions.

25. A process for the preparation of a compound of formula IIa

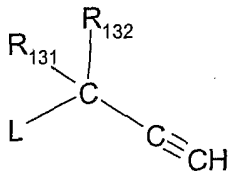


(IIa),

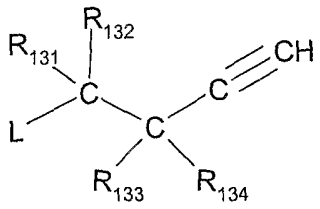
wherein A and Q are as defined in claim 1, which comprises causing a compound of formula VII

Q-OH (VII)

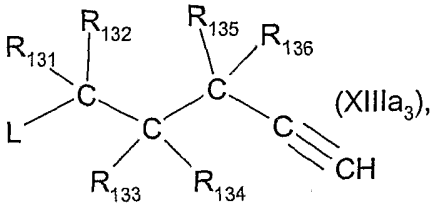
to react with a compound of formula $XIIIa_1$, $XIIIa_2$, $XIIIa_3$, $XIIIa_4$ or $XIIIa_5$



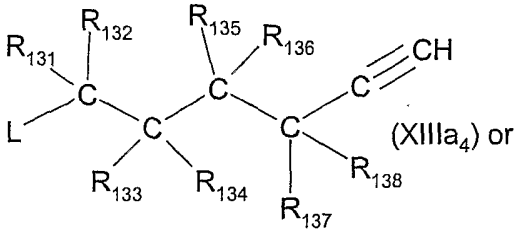
(XIIIa$_1$),



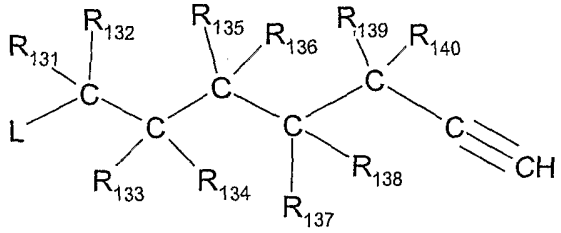
(XIIIa$_2$),



(XIIIa$_3$),



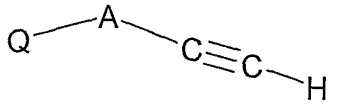
(XIIIa$_4$) or



(XIIIa$_5$)

under typical base-catalysed reaction conditions of alkylation, the radicals Q and R_{131} to R_{140} in the compounds of formulae VII and XIIIa$_1$ to XIIIa$_5$ being as defined in claim 1 and L being a leaving group.

26. A process for the preparation of a compound of formula IIa

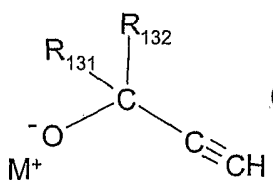


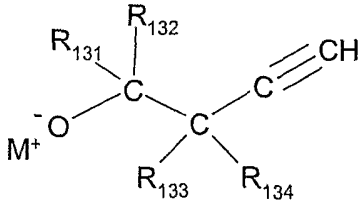
(IIa),

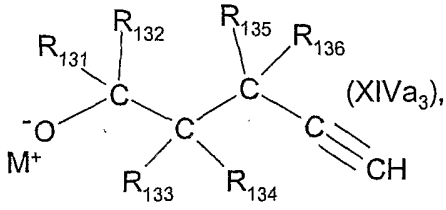
wherein A and Q are as defined in claim 1, which comprises causing a compound of formula VII$_1$

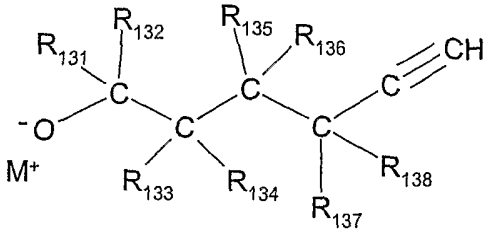
$$Q\text{-}L_1 \qquad (VII_1)$$

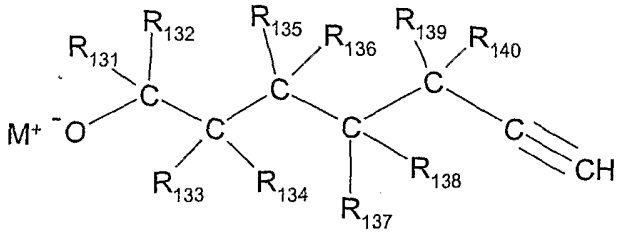
to react with a compound of formula XIVa$_1$, XIVa$_2$, XIVa$_3$, XIVa$_4$ or XIVa$_5$


(XIVa$_1$),


(XIVa$_2$),

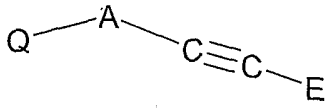

(XIVa$_3$),


(XIVa$_4$) or

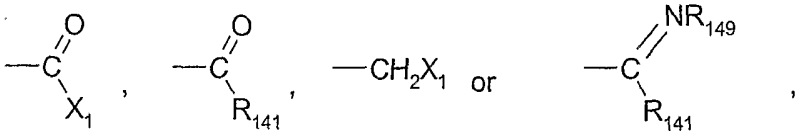

(XIVa$_5$),

under typical nucleophilic aromatic substitution reaction conditions, the radicals Q and R_{131} to R_{140} in the compounds of formulae VII_1 and $XIVa_1$ to $XIVa_5$ being as defined in claim 1, L_1 being a leaving group and M^+ being an alkali metal ion.

27. A process for the preparation of a compound of formula XV


(XV),

wherein A and Q are as defined in claim 1 and E is an electrophilic functional group

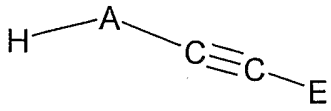


wherein R_{141} is as defined in claim 1, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH,

C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, and X_1 is a leaving group, which comprises coupling a compound of formula VII

Q-OH (VII)

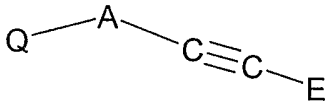
with a compound of formula XVI



(XVI)

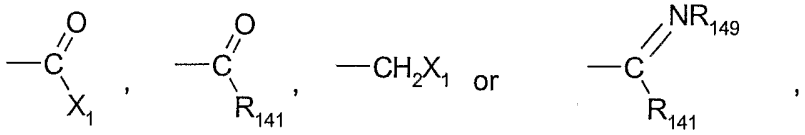
under typical Mitsunobu reaction conditions, the radicals A, Q and E in the compounds of formulae VII and XVI being as defined.

28. A process for the preparation of a compound of formula XV



(XV),

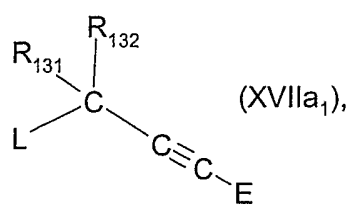
wherein A and Q are as defined in claim 1 and E is an electrophilic functional group

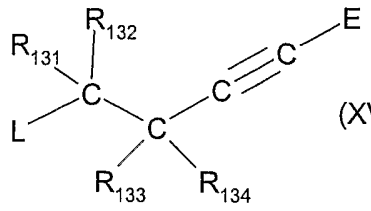


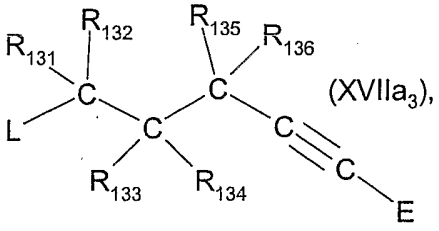
wherein R_{141} is as defined in claim 1, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, and X_1 is a leaving group, which comprises causing a compound of formula VII

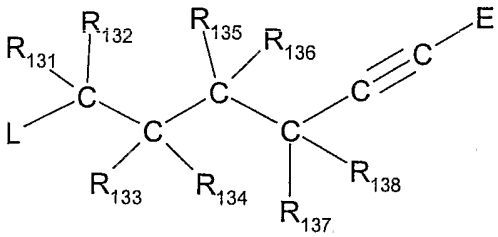
Q-OH (VII)

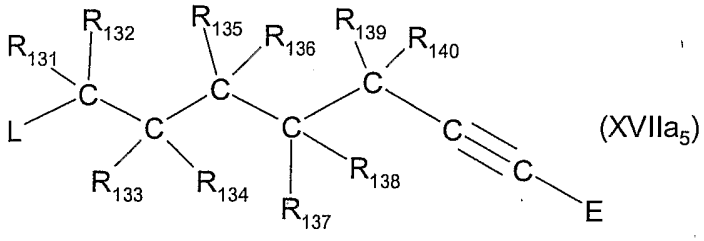
and a compound of formula $XVIIa_1$, $XVIIa_2$, $XVIIa_3$, $XVIIa_4$ or $XVIIa_5$


(XVIIa$_1$),


(XVIIa$_2$),

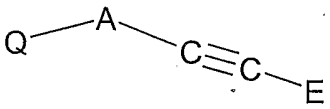

(XVIIa$_3$),


(XVIIa$_4$) or

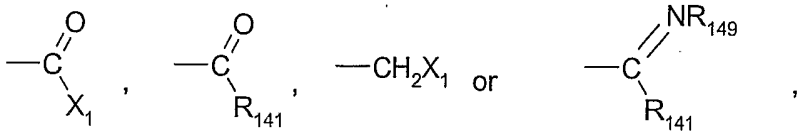

(XVIIa$_5$)

to react with one another under typical base-catalysed reaction conditions of alkylation, the radicals Q and E in the compounds of formulae VII and XVIIa$_1$ to XVIIa$_5$ being as defined, R_{131} to R_{140} being as defined in claim 1 and L being a leaving group.

29. A process for the preparation of a compound of formula XV


(XV),

wherein A and Q are as defined in claim 1 and E is an electrophilic functional group

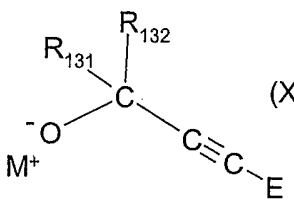


wherein R_{141} is as defined in claim 1, R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH,

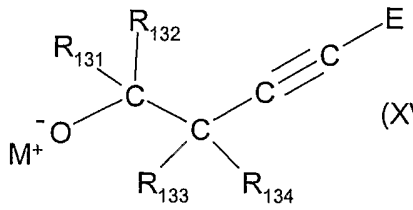
C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, and X_1 is a leaving group, which comprises causing a compound of formula VII_1

$$Q\text{-}L_1 \qquad (VII_1)$$

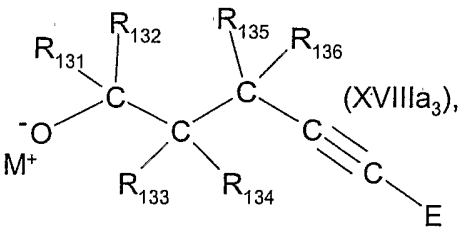
to react with a compound of formula $XVIIIa_1$, $XVIIIa_2$, $XVIIIa_3$, $XVIIIa_4$ or $XVIIIa_5$



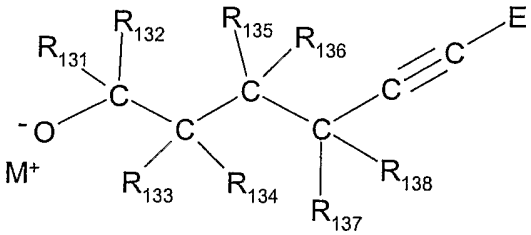
(XVIIIa$_1$),



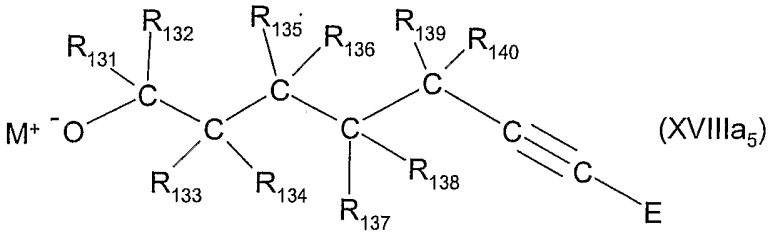
(XVIIIa$_2$),



(XVIIIa$_3$),



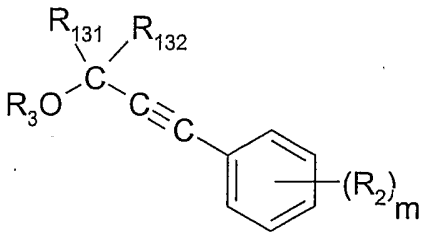
(XVIIIa$_4$) or



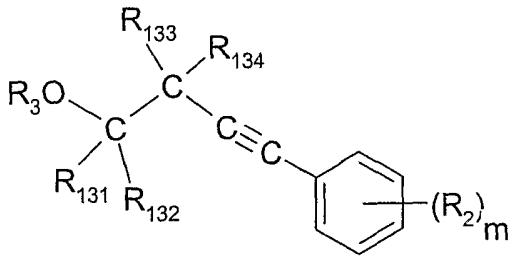
(XVIIIa$_5$)

under typical nucleophilic aromatic substitution reaction conditions, the radicals E, Q and R_{131} to R_{140} in the compounds of formulae VII_1 and $XVIIIa_1$ to $XVIIIa_5$ being as defined in claim 1, L_1 being a leaving group and M^+ being an alkali metal ion.

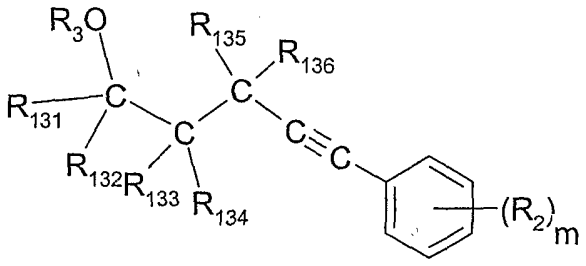
30. A process for the preparation of a compound of formula $XIXa_1b_0$, $XIXa_2b_0$, $XIXa_3b_0$, $XIXa_4b_0$ or $XIXa_5b_0$



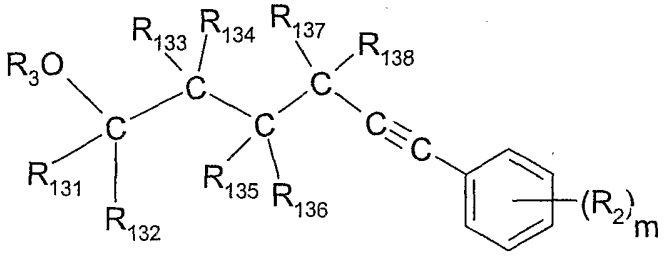
($XIXa_1b_0$),



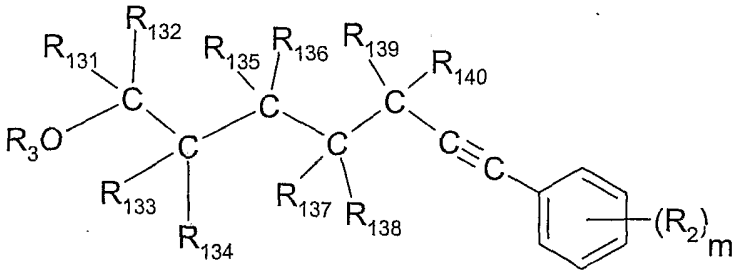
(XIXa$_2$b$_0$),



(XIXa$_3$b$_0$),

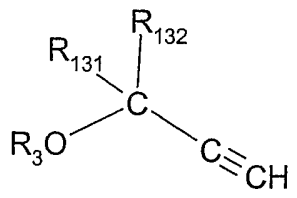


(XIXa$_4$b$_0$) or

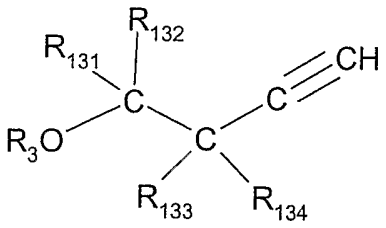


(XIXa$_5$b$_0$),

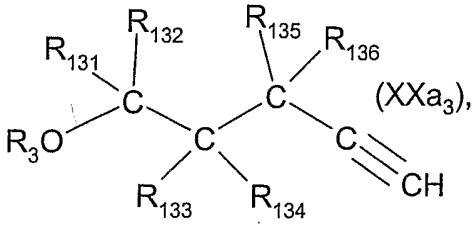
wherein R_2, m and R_{131} to R_{140} are as defined in claim 1 and R_3 is hydrogen or a protecting group, which comprises coupling a compound of formula XXa_1, XXa_2, XXa_3, XXa_4 or XXa_5



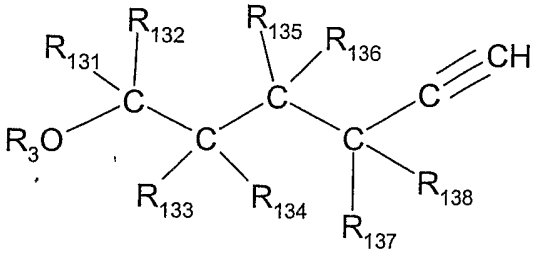
(XXa$_1$),



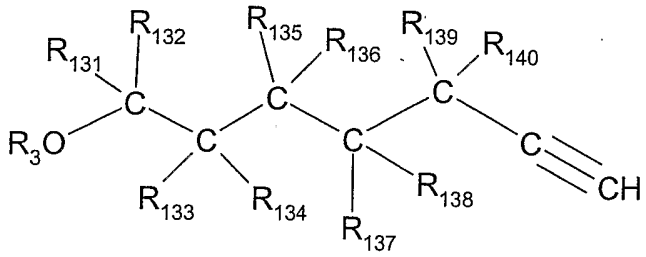
(XXa$_2$),



(XXa$_3$),

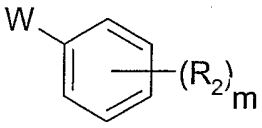


(XXa$_4$) or



(XXa$_5$),

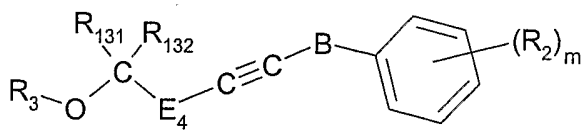
wherein R_3 and R_{131} to R_{140} are as defined, with a compound of formula III



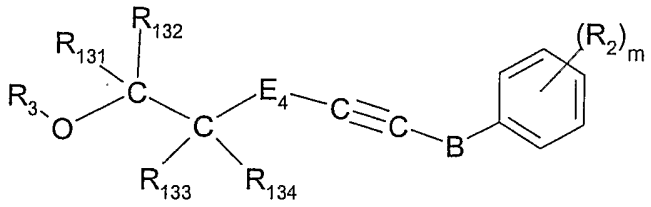
(III),

wherein R_2 and m are as defined and W is a leaving group, in the presence of a palladium catalyst under Sonogashira reaction conditions.

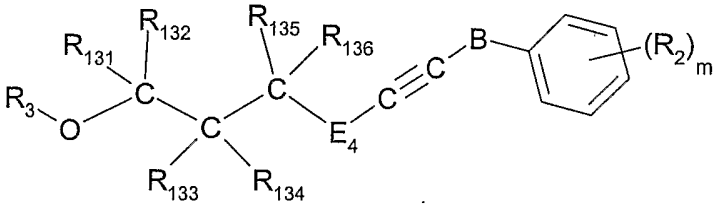
31. A process for the preparation of a compound of formula $XXIa_3b$, $XXIa_4b$ or $XXIa_5b$



($XXIa_3b$),

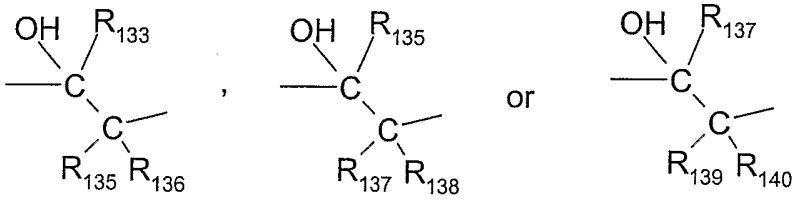


($XXIa_4b$) or

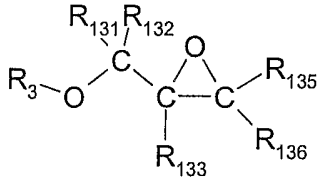


($XXIa_5b$),

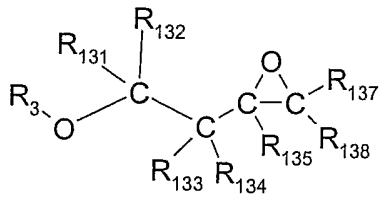
wherein B, R_2, m and R_{131} to R_{136} are as defined in claim 1, R_3 is hydrogen or a protecting group and E_4 is a bridging member



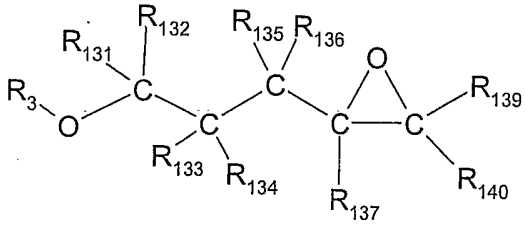
wherein R_{133} and R_{135} to R_{140} are as defined in claim 1, which comprises causing a compound of formula $XXIIa_3$, $XXIIa_4$ or $XXIIa_5$



($XXIIa_3$),

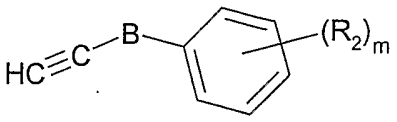


($XXIIa_4$) or



($XXIIa_5$),

wherein R_{131} to R_{140} and R_3 are as defined, to react with a compound of formula IIb



(IIb),

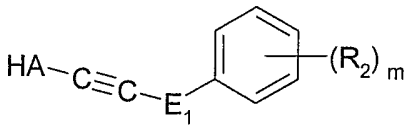
wherein B, R_2 and m are as defined, in the presence

a) of a strong base or

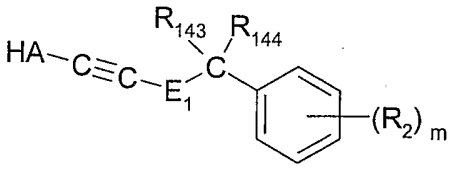
b) of zinc salts and a base

in an inert organic solvent at temperatures from –100° to 50°C.

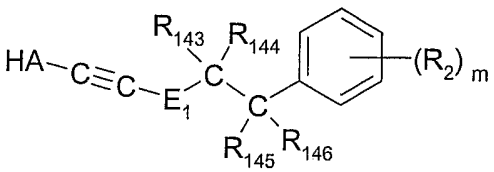
32. A process for the preparation of a compound of formula XXIIIab$_1$, XXIIIab$_2$, XXIIIab$_3$ or XXIIIab$_4$



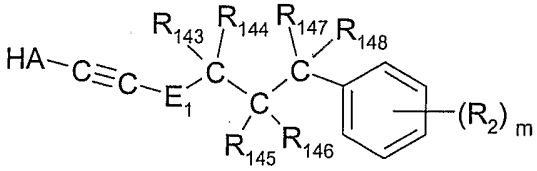
(XXIIIab$_1$),



(XXIIIab$_2$

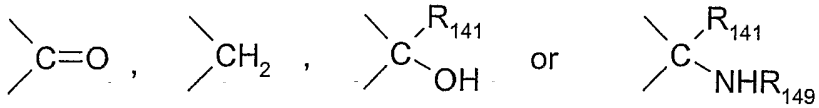


(XXIIIab$_3$) or



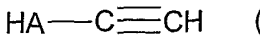
(XXIIIab$_4$),

wherein A, R_2, m and R_{143} to R_{148} are as defined in claim 1, it being possible for the alcohol function in group A to be protected by a protecting group for alcohols, and E_1 is a bridging member



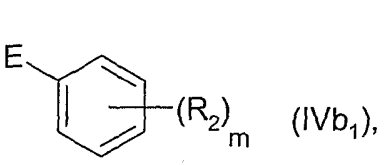
wherein R_{141} is as defined in claim 1 and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and

C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, which comprises causing a compound of formula XII

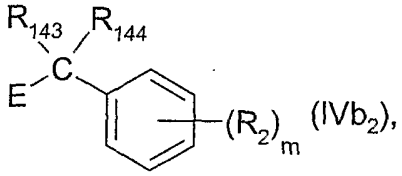


(XII),

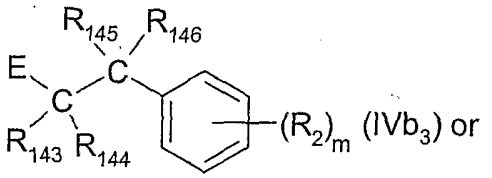
wherein A is as defined, to react with a compound of formula IVb_1, IVb_2, IVb_3 or IVb_4



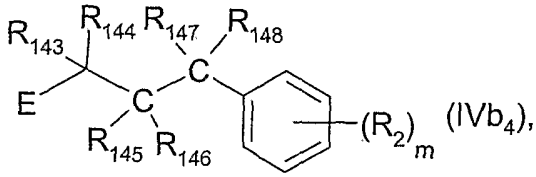
(IVb_1),



(IVb_2),

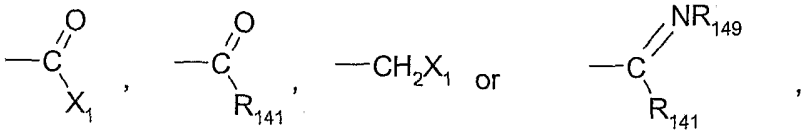


(IVb_3) or



(IVb_4),

wherein R_2, m and R_{143} to R_{148} are as defined and E is an electrophilic functional group



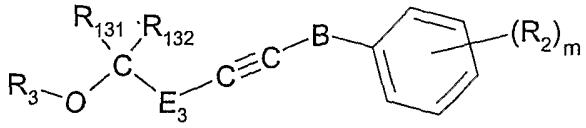
wherein R_{141} and R_{149} are as defined and X_1 is a leaving group, in the presence

a) of a strong base or

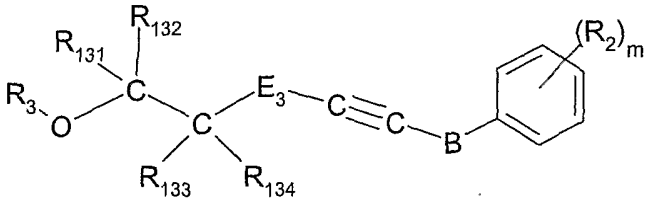
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C, it being possible for the alcohol-protecting group to be removed and for the exposed hydroxyl function to be used for further reactions.

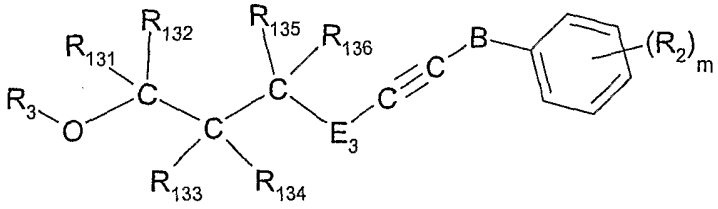
33. A process for the preparation of a compound of formula XXVa_2b, XXVa_3b, XXVa_4b or XXVa_5b



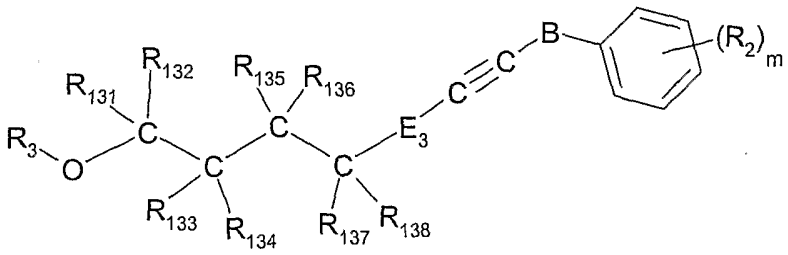
(XXVa_2b),



(XXVa_3b),

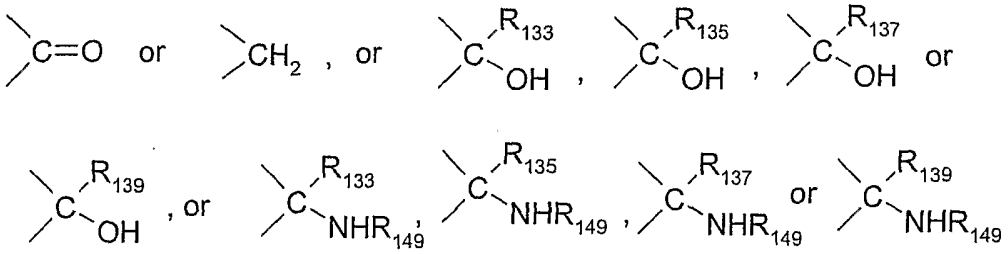


(XXVa_4b) or

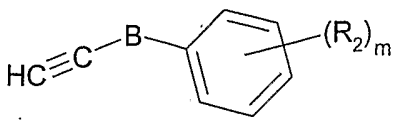


(XXVa_5b),

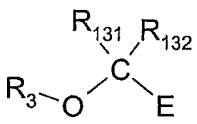
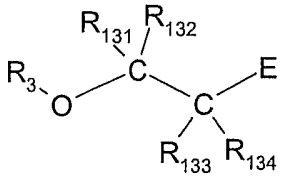
wherein R_2, B, R_{131} to R_{138} and m are as defined in claim 1, R_3 is hydrogen or a protecting group for the alcohol function and E_3 is a bridging member

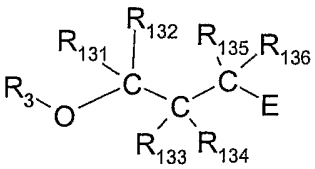
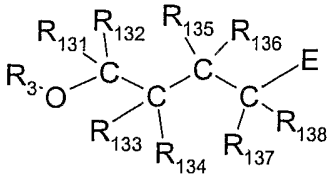


wherein R_{133}, R_{135}, R_{137} and R_{139} are as defined in claim 1 and R_{149} is hydrogen, C_1-C_4alkyl, C_1-C_6haloalkyl, C_2-C_6alkenyl, C_2-C_6haloalkenyl, C_2-C_6alkynyl, C_2-C_6hydroxyalkyl, C_1-C_6alkoxy-C_1-C_6alkyl, phenyl or benzyl, wherein the two phenyl rings may be substituted from one to five times by substituents selected from halogen and C_1-C_6alkyl and/or once, twice or three times by substituents selected from C_1-C_6haloalkyl, -OH, C_1-C_6alkoxy, C_1-C_6haloalkoxy and -COR_{227}, wherein R_{227} is as defined in claim 1, which comprises causing a compound of formula IIb

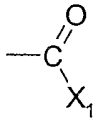
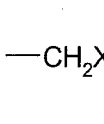
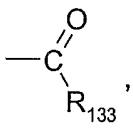
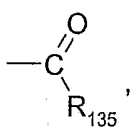
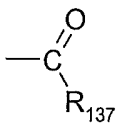

(IIb),

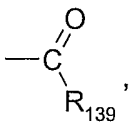
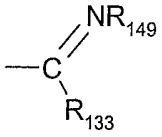
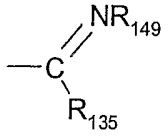
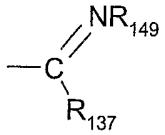
wherein R_2, B and m are as defined, to react with a compound of formula $XXIVa_2$, $XXIVa_3$, $XXIVa_4$ or $XXIVa_5$

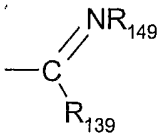

($XXIVa_2$),

($XXIVa_3$),


($XXIVa_4$) or

($XXIVa_5$),

wherein R_3 and R_{131} to R_{138} are as defined and E is an electrophilic functional group


or

or



or





or



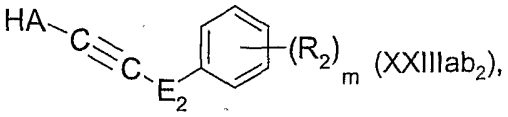
wherein R_{133}, R_{135}, R_{137}, R_{139} and R_{149} are as defined and X_1 is a leaving group, in the presence

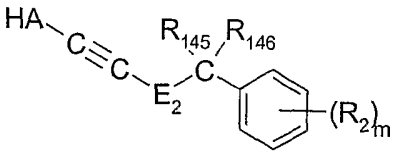
a) of a strong base or

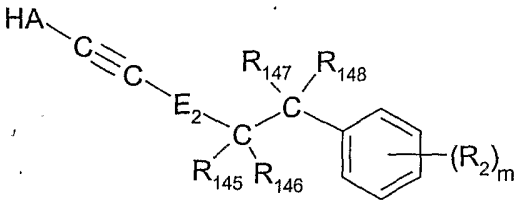
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

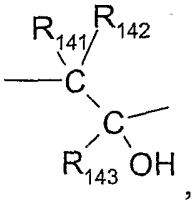
34. A process for the preparation of a compound of formula XXIIIab$_2$, XXIIIab$_3$ or XXIIIab$_4$


(XXIIIab$_2$),

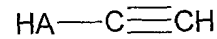

(XXIIIab$_3$) or


(XXIIIab$_4$),

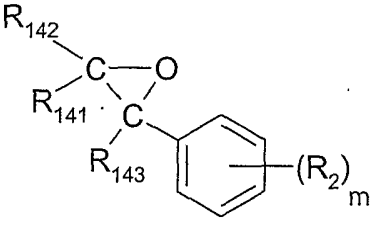
wherein A, R_2, R_{145} to R_{148} and m are as defined in claim 1, it being possible for the alcohol function in group A to be protected by a protecting group for alcohols, and E_2 is a bridging member

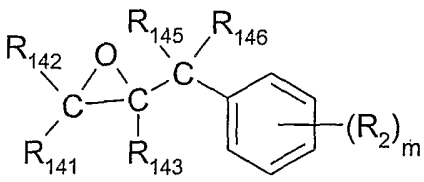

,

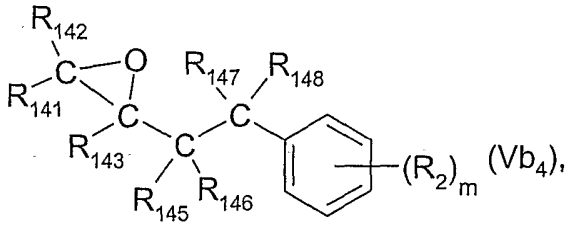
wherein R_{141}, R_{142} and R_{143} are as defined in claim 1, which comprises causing a compound of formula XII


(XII),

wherein A is as defined, to react with a compound of formula Vb$_2$, Vb$_3$ or Vb$_4$


(Vb$_2$),


(Vb$_3$) or


(Vb$_4$),

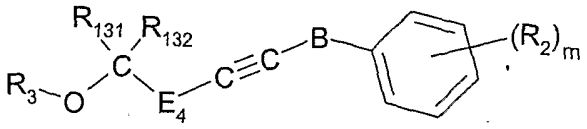
wherein R_2, m, R_{141} to R_{143}, and R_{145} to R_{148} are as defined, in the presence

a) of a strong base or

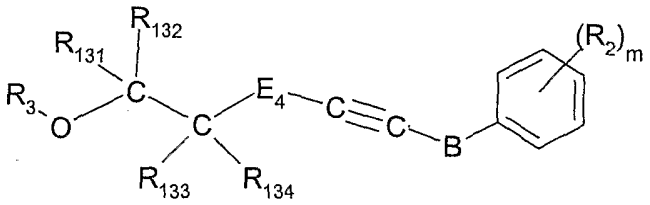
b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C, it being possible for the alcohol-protecting group to be removed and for the exposed hydroxyl function to be used for further reactions.

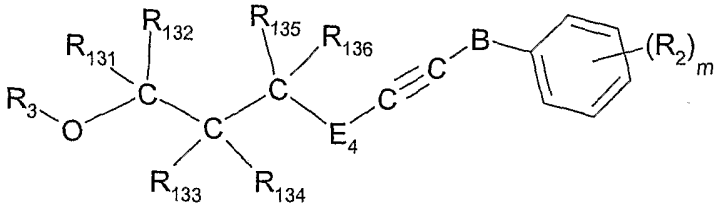
35. A process for the preparation of a compound of formula $XXVa_3b$, $XXVa_4b$ or $XXVa_5b$



$(XXVa_3b)$,

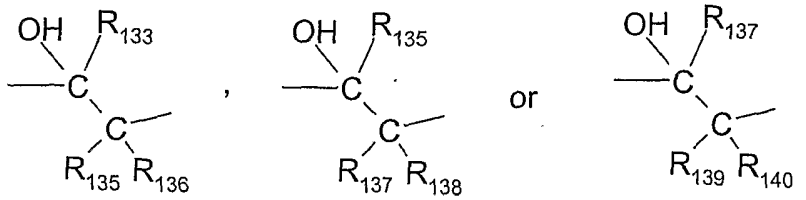


$(XXVa_4b)$ or

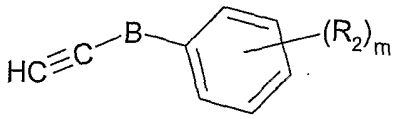


$(XXVa_5b)$,

wherein R_2, B, R_{131} to R_{136} and m are as defined in claim 1, R_3 is hydrogen or a protecting group for the alcohol function and E_4 is a bridging member

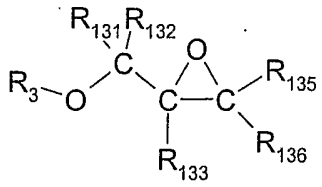
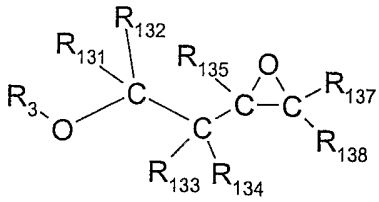
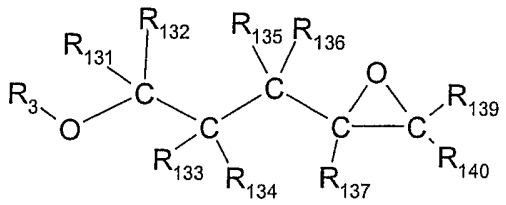


wherein R_{133} and R_{135} to R_{140} are as defined in claim 1, which comprises causing a compound of formula IIb



(IIb),

wherein R_2, B and m are as defined, to react with a compound of formula $XXIIa_3$, $XXIIa_4$ or $XXIIa_5$


(XXIIa$_3$),

(XXIIa$_4$) or

(XXIIa$_5$),

wherein R_{131} to R_{140} and R_3 are as defined, in the presence

a) of a strong base or

b) of zinc salts and a base

in an inert, organic solvent at temperatures from –100° to 50°C.

36. A herbicidal and plant-growth-inhibiting composition which comprises, on an inert carrier, a herbicidally effective amount of a compound of formula I.

37. A herbicidal and plant-growth-inhibiting composition according to claim 36, which comprises, as additional component, at least one further co-herbicide.

38. A method of controlling undesired plant growth, which comprises applying a herbicidally effective amount of a compound of formula I or of a composition comprising such a compound to the plants or to the locus thereof.

39. A method of inhibiting plant growth, which comprises applying a herbicidally effective amount of a compound of formula I or of a composition comprising such a compound to the plants or to the locus thereof.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/011477

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07C255/54 C07C251/48 C07C255/37 C07C43/215 C07C43/23
C07C49/84 C07C69/736 C07C205/35 C07C217/48 C07C217/76
C07C17/14 C07C43/225 C07C47/575 C07C69/734 C07C69/76

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07C C07D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92/05159 A (HOECHST AKTIENGESELLSCHAFT) 2 April 1992 (1992-04-02) page 39; compound 1.38 page 16; figure above page 10, last paragraph claims 6-8	1,2,5-8, 10,15, 16,21, 36-39
X	WO 01/55066 A (SYNGENTA PARTICIPATIONS AG; CRAIG, GERALD, WAYNE; EBERLE, MARTIN; ZELL) 2 August 2001 (2001-08-02) cited in the application	16,25,30
Y	page 8, scheme 1, steps 1 and 2; page 10, scheme 3, step 1	16-18, 22-35

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
17 February 2005	28/02/2005

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Fitz, W

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/28182 A (SYNGENTA PARTICIPATIONS AG; SCHAETZER, JUERGEN; RENOLD, PETER; CRAIG,) 11 April 2002 (2002-04-11) cited in the application	16,25,30
Y	page 16, scheme 1, second step	16-18, 22-35
X	YAMAGUCHI, MASAHIKO ET AL: "An efficient method for the alkynylation of oxiranes using alkynyl boranes" TETRAHEDRON LETTERS, 24(4), 391-4 CODEN: TELEAY; ISSN: 0040-4039, 1983, XP008042771	31
Y	page 392; table 1	16-18, 22-35
X	SUBRAMANIAN, R. SANKARA ET AL: "A facile synthesis of aryl ethers of ethynyl-carbinols using the Mitsunobu reaction" SYNTHETIC COMMUNICATIONS, 19(7-8), 1255-9 CODEN: SYNCAV; ISSN: 0039-7911, 1989, XP008042774	24
Y	the whole document	17,18, 22-35
A	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SANO, HIROKI ET AL: "Preparation of 4-aminophenol and 5-amino-2-hydroxypyridine derivatives as herbicides" XP002316833 retrieved from STN Database accession no. 1999:350532 cited in the application abstract -& JP 11 147866 A (SANKYO CO., LTD., JAPAN) 2 June 1999 (1999-06-02)	1,16-23, 36-39

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/011477

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JP 11147866 A	02-06-1999	NONE	