Title (en)

THIAZOLYLOXYPHENYLAMIDINES OR THIADIAZOLYLOXYPHENYLAMIDINES AND THEIR USE AS FUNGICIDES

Title (de)

THIAZOLYLOXYPHENYLAMIDINE ODER THIADIAZOLYLOXYPHENYLAMIDINE UND DEREN VERWENDUNG ALS FUNGIZIDE

Title (fr)

THIAZOLYLOXYPHÉNYLAMIDINES OU THIADIAZOLYLOXYPHÉNYLAMIDINES ET LEUR UTILISATION EN TANT QUE FONGICIDE

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Application

EP 08868861 A 20081209

Priority

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- EP 08868861 A 20081209

Abstract (en)

[origin: EP2072506A1] Thiadiazolyloxyphenylamidine or thiazolyloxyphenylamidine compounds (I) are new. Thiadiazolyloxyphenylamidine or thiazolyloxyphenylamidine compounds of formula (I) are new. Y 1>CR 7>or N; either R 1>1-12C-alkyl, 2-12C-alkenyl, 2-12C-alkynyl, cyclic 3-12C-alkyl, 4-12C-alkenyl or 4-12C-alkynyl (where in the ring system of all cyclic groups, one or more C atoms are replaced by heteroatoms of N, O, P or S, and substituted by one or more R1a, X, OR1a, S(R1a) 2, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2), H, SH or SR2a; and R 2>, R 3>1-12C-alkyl, 2-12C-alkenyl, 2-12C-alkynyl, cyclic 3-12C-alkyl, 4-12C-alkenyl, 4-12C-alkynyl, 5-18C-aryl, 7-19C-aralkyl or 7-19C-alkaryl, where in the ring system of all cyclic groups, one or more C atoms are replaced by heteroatoms of N, O, P or S, and substituted by one or more groups of R1a, X, OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2; or R 2>R 3>, R 2>R 1>, R 1>R 3>4-7 membered ring containing heteroatoms of N, O, P or S, which is optionally replaced by one or more X, R1a, OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2; R 4>, R 5>H, X, CN, 1-12C-alkyl, 2-12C-alkenyl, 2-12C-alkynyl, cyclic 3-12C-alkyl, 4-12C-alkenyl, 4-12C-alkynyl, 5-18C-aryl, 7-19C-aralkyl or 7-19C-alkaryl, where in the ring system of all cyclic groups, one or more C atoms are replaced by heteroatoms of N, O, P or S, and substituted by one or more groups of R1a, X, OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2; R 6>X, CN, SH, SR2a, OR2a, (C=O)-R2a, 1-12C-alkyl, 2-12C-alkenyl, 2-12C-alkynyl, cyclic 3-12C-alkyl, 4-12C-alkenyl, 4-12C-alkynyl, 5-18C-aryl, 7-19C-aralkyl or 7-19C-alkaryl, where in the ring system of all cyclic groups, one or more C atoms are replaced by heteroatoms of N, O, P or S, and substituted by one or more groups of OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2; R 7>X, CN, SH, SR2a, OR2a, (C=O)-R2a, 1-12C-alkyl, 2-12C-alkenyl, 2-12C-alkynyl, cyclic 3-12C-alkyl, 4-12C-alkenyl, 4-12C-alkynyl, 5-18C-aryl, 7-19C-aralkyl or 7-19C-alkaryl, where in the ring system of all cyclic groups, one or more C atoms are replaced by heteroatoms of N, O, P or S, and substituted by one or more groups of R1a, X, OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2; n : 0-5; R1a : H or 1-12C-alkyl; and R2a : 1-12C-alkyl substituted by one or more groups from R1a, X, OR1a, SR1a, N(R1a) 2, Si(R1a) 3, COOR1a, CN or CON(R1a) 2. Independent claims are included for: (1) the preparation of (I); (2) a thiazolyl or thiadiazolylalcohol compound of formula (II); (3) a thiazolyl- or thiadiazolyl-derivative of formula (IV); (4) a thiazolyl- or thiadiazolylaminophenylether compound of formula (VIII); (5) a thiazolyl- or thiadiazolylaminophenylether compound of formula (VI); and (6) a process for the preparation of (II) or (IV) (in which Z is Cl and Y 1>is N) (preferred), comprising reacting cyclopropanecarboxamidine compound of formula (XX) with trichloromethyl thiohypochlorite. Z : a leaving group, preferably halo, triflate, mesylate, tosylate or SO 2Me. [Image] [Image] [Image] ACTIVITY : Antimicrobial; Fungicide; Antibacterial; Virucide; Herbicide; Antiparasitic. MECHANISM OF ACTION : None given.

IPC 8 full level

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