

Title (en)
4-AMINO-1,2,3- BENZOXATHIAZINE DERIVATIVES AS PESTICIDES

Title (de)
4-AMINO-1,2,3- BENZOXATHIAZIN- DERIVATE ALS PESTIZIDE

Title (fr)
DÉRIVÉS DE 4-AMINO-1,2,3- BENZOXATHIAZINE COMME PESTICIDES

Publication
EP 2376465 A1 20111019 (DE)

Application
EP 09767967 A 20091202

Priority

- EP 2009008581 W 20091202
- EP 08171681 A 20081215
- EP 09767967 A 20091202

Abstract (en)

[origin: EP2196461A1] 4-Amino-1,2,3-benzoxathiazine compounds (I) and their salts, are new. 4-Amino-1,2,3-benzoxathiazine compounds of formula (I) and their salts are new. R1-R4 : H, halo, carbamoyl, thiocarbamoyl, nitro, cyano, hydroxy, SF 5 , 1-6C-alkyl, 2-6C-alkenyl, 2-6C-alkynyl, 3-6C-cycloalkyl, 3-6C-cycloalkyl-1-4C-alkyl, 1-4C-alkylthio, 1-4C-alkylsulfinyl, 1-4C-alkylsulfonyl, 1-4C-alkylcarbonyl, 1-6C-alkoxy, 1-6C-alkoxycarbonyl, 3-6C-alkenyloxy, 3-6C-cycloalkyloxy, 3-6C-cycloalkyloxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, aryloxy, hetaryloxy, aryl-1-4C-alkyloxy, hetaryl-1-4C-alkyloxy, O-acetyl, (1-4C-alkyl)amino, di-(1-4C-alkyl)amino, 3-6C-trialkylsilyl, aryl, hetaryl, aryl-1-6C-alkyl or hetaryl-1-6C-alkyl, where R1-R4 is unsubstituted or one or more times substituted by T; R5 : H, (1-6C-alkyl)carbonyl, (1-6C-alkoxy)carbonyl, (1-6C-alkylthio)carbonyl, (1-6C-alkyl)thiocarbonyl, (1-6C-alkoxy)thiocarbonyl, (1-6C-alkylthio)thiocarbonyl, 1-8C-alkyl, 3-6C-cycloalkyl, 2-6C-alkenyl, 1-4C-alkoxy, 1-4C-alkylthio, 1-4C-alkylsulfinyl, 1-4C-alkylsulfonyl, aryl, hetaryl, aryl-1-6C-alkyl, hetaryl-1-6C-alkyl or -(C=X)NR7R7a; R6 : H, (1-6C-alkyl)carbonyl, (1-6C-alkoxy)carbonyl, (1-6C-alkylthio)carbonyl, (1-6C-alkyl)thiocarbonyl, (1-6C-alkoxy)thiocarbonyl, (1-6C-alkylthio)thiocarbonyl, 1-8C-alkyl, 3-6C-cycloalkyl, 2-6C-alkenyl, 1-4C-alkylsulfinyl, 1-4C-alkylsulfonyl, aryl, hetaryl, aryl-1-6C-alkyl, hetaryl-1-6C-alkyl or -(C=X)NR7R7a, where R5 and R6 are unsubstituted or one or more times substituted by T; T : halo, cyano, 1-6C-alkyl, 3-8C-cycloalkyl, 1-4C-alkoxy, 1-4C-alkylthio, 1-4C-alkylsulfinyl, 1-4C-alkylsulfonyl, 1-4C-haloalkyl, 1-4C-haloalkoxy, 1-4C-haloalkylthio, (1-4C-alkyl)amino, di-(1-4C-alkyl)amino, aryl or hetaryl; R7 : 1-6C-alkyl, 3-6C-cycloalkyl, 1-6C-alkoxy, 1-6C-haloalkyl, 1-6C-haloalkoxy, aryl or hetaryl (all unsubstituted or one or more times substituted by halo, cyano, nitro, 1-6C-alkyl, 3-6C-cycloalkyl, 1-6C-alkoxy, 1-6C-haloalkyl or 1-6C-haloalkoxy); R7a : H or R7; and X : O or S. Where: R5, R6 together are not for phenylbutyl and hydrogen, if R1 is methoxy; and R1-R4 are not simultaneously hydrogen, if R5 and R6 are hydrogen. Independent claims are included for: (1) composition comprising (I) and nitrogen- or phosphorus-containing salt compound of formula (((R11-D1 +>(R8)(R10)-R9) m) (R12(m-))) (IX) and/or at least one penetration promoter comprising alkoxy compound of formula (R-O-(-AO) v-R1a) (X); and (2) the preparation of (I). D1 : N or P; R8-R11 : H, 1-8C-alkyl (optionally substituted by halo, nitro or cyano) or 1-8C-alkylene (one or more times unsaturated, optionally substituted by halo, nitro or cyano); R12 : inorganic or organic anion; m : 1-4; R : 4-20C-alkyl; R1a : H, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, tert-butyl, n-pentyl or n-hexyl; AO : ethylene oxide, propylene oxide and/or butylene oxide; and v : 2-30. [Image] ACTIVITY : Insecticide; Acaricide; Arachnicide; Anthelmintic; Nematocide; Molluscicide. MECHANISM OF ACTION : None given.

IPC 8 full level
C07D 291/08 (2006.01); **A01N 43/88** (2006.01); **C07D 419/08** (2006.01)

CPC (source: EP KR US)
A01N 37/50 (2013.01 - EP US); **A01N 43/88** (2013.01 - EP KR US); **A61P 33/14** (2018.01 - EP); **C07D 291/08** (2013.01 - EP KR US); **C07D 419/04** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2196461 A1 20100616; BR PI0922927 A2 20150825; CN 102317271 A 20120111; EP 2376465 A1 20111019; JP 2012512141 A 20120531; KR 20110095417 A 20110824; MX 2011006143 A 20110627; US 2010267703 A1 20101021; US 2011118240 A2 20110519; US 8173641 B2 20120508; WO 2010072310 A1 20100701

DOCDB simple family (application)
EP 08171681 A 20081215; BR PI0922927 A 20091202; CN 200980156841 A 20091202; EP 09767967 A 20091202; EP 2009008581 W 20091202; JP 2011539931 A 20091202; KR 20117016371 A 20091202; MX 2011006143 A 20091202; US 65417709 A 20091211