

Title (en)
HERBICIDES 3-(BENZAZOL-4-YL)PYRIMIDINE-DIONE-DERIVATIVES

Title (de)
HERBIZIDE 3-(BENZAZOL-4-YL)PYRIMIDINDION-DERIVATE

Title (fr)
DERIVES DE 3-(BENZAZOL-4-YLE)DIONE DE PYRIMIDINE HERBICIDES

Publication
EP 1047693 A1 20001102 (DE)

Application
EP 98963564 A 19981211

Priority
• DE 19755926 A 19971217
• EP 9808098 W 19981211

Abstract (en)
[origin: WO9931091A1] The invention relates to 3-(benzazol-4-yl)pyrimidine-dione-derivatives of formula (I) and the salts thereof, whereby X = O, S; R<1> = H, NH₂, C1-C6-alkyl, C1-C6-alkyl halide; R<2> = H, halogen, C1-C6-alkyl, C1-C6-alkyl halide, C1-C6-alkylthio, C1-C6-alkylsulfinyl, C1-C6-alkylsulfonyl; R<3> = H, halogen, C1-C6-alkyl; R<4> = H, halogen; R<5> = CN, halogen, C1-C6-alkyl, C1-C6-alkyl halide, C1-C6-alkoxyl, C1-C6-alkoxyl halide; =Y- = a group =N-N(R<6>)-, =C(ZR<7>)-N(R<6>)-, =C(ZR<7>)-O-, =C(ZR<7>)-S-; R<6> = C1-C6-alkyl, C1-C4-alkyl halide, C3-C6-cycloalkyl, C3-C6-alkenyl, C3-C6-alkynyl, C1-C6-alkyl-SO₂, C1-C6-alkyl-CO, C1-C6-alkyl halide-CO, C1-C6-alkyl-CS, C1-C6-alkoxyl-CO, C1-C6-alkoxyl-CS or optionally substituted C1-C6-alkyl; Z = chemical bond, O, S, -S(O)-, -SO₂-, -NH-, -N(R<8>)-; R<7>, R<8> = C1-C6-alkyl, C1-C6-alkyl halide, hydroxy-C1-C4-alkyl, cyano-C1-C4-alkyl, C1-C4-alkoxyl-C1-C4-alkyl, C1-C4-alkoxyl halide-C1-C4-alkyl, C3-C4-alkenyloxy-C1-C4-alkyl, C3-C4-alkynyloxy-C1-C4-alkyl, C3-C8-cycloalkoxyl-C1-C4-alkyl, amino-C1-C4-alkyl, C1-C4-alkylamino-C1-C4-alkyl, di(C1-C4-alkyl)amino-C1-C4-alkyl, C1-C4-alkylthio-C1-C4-alkyl, C1-C4-alkylthio halide-C1-C4-alkyl, C3-C4-alkenylthio-C1-C4-alkyl, C3-C4-alkynylthio-C1-C4-alkyl, C1-C4-alkylsulfinyl-C1-C4-alkyl, C1-C4-alkylsulfinyl halide-C1-C4-alkyl, C3-C4-alkenylsulfinyl-C1-C4-alkyl, C3-C4-alkynylsulfinyl-C1-C4-alkyl, C3-C6-alkenyl, cyano-C3-C6-alkenyl, C3-C6-alkenyl halide, C3-C6-alkynyl, cyano-C3-C6-alkynyl, C3-C6-alkynyl halide, HO-CO-C1-C4-alkyl, (C1-C4-alkoxyl)CO-C1-C4-alkyl, (C1-C4-alkyl)CS-C1-C4-alkyl, H₂N-CO-C1-C4-alkyl, C1-C4-alkyl-NHCO-C1-C4-alkyl, di(C1-C4-alkyl)NCO-C1-C4-alkyl, di(C1-C4-alkyl)phosphonyl-C1-C4-alkyl, optionally substituted C3-C8-cycloalkyl, C3-C8-cycloalkyl-C1-C4-alkyl, phenyl, phenyl-C1-C4-alkyl, 3- to 7-linked heterocyclyl or heterocyclyl-C1-C4-alkyl, whereby each heterocyclyl ring can contain a CO-ring link or CS-ring link, or provided that Z = chemical bond, R<7> also H, OH, CN, SH, NH₂, halogen, -CH(OH)-CH₂-R<9>, -CH(halogen)-CH₂-R<9>, -CH₂-CH(halogen)-R<9>, -CH=CH-R<9> or -CH=C(halogen)-R<9>, whereby R<9> = COOH, (C1-C4-alkoxyl)carbonyl, (C1-C4-alkylthio)carbonyl, CONH₂, C1-C4-alkyl-NHCO or di(C1-C4-alkyl)NCO, or R<7> + R<8> = an optionally substituted 1,3-propylene-, tetramethylene-, pentamethylene- or ethylene oxyethylene-chain.

IPC 1-7
C07D 413/04; **C07D 417/04**; **C07D 403/04**; **A01N 43/78**; **A01N 43/76**; **A01N 43/707**; **C07D 239/54**

IPC 8 full level
C07D 239/54 (2006.01); **A01N 43/54** (2006.01); **A01N 43/647** (2006.01); **A01N 43/707** (2006.01); **A01N 43/74** (2006.01); **A01N 43/76** (2006.01); **A01N 43/78** (2006.01); **C07D 403/04** (2006.01); **C07D 413/04** (2006.01); **C07D 417/04** (2006.01); **C07F 9/6558** (2006.01)

CPC (source: EP KR)
A01N 43/54 (2013.01 - EP KR); **A01N 43/647** (2013.01 - EP KR); **A01N 43/74** (2013.01 - EP KR); **C07D 403/04** (2013.01 - EP KR); **C07D 413/04** (2013.01 - EP KR); **C07D 417/04** (2013.01 - EP KR); **C07F 9/65583** (2013.01 - EP KR)

Citation (search report)
See references of WO 9931091A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9931091 A1 19990624; AR 017885 A1 20011024; AU 1878599 A 19990705; BG 104546 A 20010831; BR 9813613 A 20001010; CA 2312703 A1 19990624; CN 1282331 A 20010131; DE 19755926 A1 19990624; EP 1047693 A1 20001102; IL 136309 A0 20010520; JP 2002508369 A 20020319; KR 20010033195 A 20010425; PL 341306 A1 20010409; SK 7502000 A3 20010118; ZA 9811490 B 20000615

DOCDB simple family (application)
EP 9808098 W 19981211; AR P980106442 A 19981217; AU 1878599 A 19981211; BG 10454600 A 20000619; BR 9813613 A 19981211; CA 2312703 A 19981211; CN 98812332 A 19981211; DE 19755926 A 19971217; EP 98963564 A 19981211; IL 13630998 A 19981112; JP 2000539015 A 19981211; KR 20007006580 A 20000616; PL 34130698 A 19981211; SK 7502000 A 19981211; ZA 9811490 A 19981215