

Title (en)
METHOD FOR PRODUCING 4-CYANO-2-AMINOMETHYLTHIAZOL

Title (de)
VERFAHREN ZUR HERSTELLUNG VON 4-CYANO-2-AMINOMETHYLTHIAZOL

Title (fr)
PROCEDE DE PRODUCTION DE 4-CYANO-2-AMINOMETHYLTHIAZOL

Publication
EP 1196402 A1 20020417 (DE)

Application
EP 00954468 A 20000711

Priority

- DE 19934066 A 19990723
- EP 0006563 W 20000711

Abstract (en)
[origin: US6639081B1] The invention relates to processes for preparing 2-aminomethyl-4-cyanothiazole and its salts of the formulae Ia and Ib in which n=1 or 2 and for n=1, X is chloride, bromide, triflate and hydrogen sulfate and for n=2, X is sulfate, which comprises the process step where the aminonitrile of the formula II is stirred with a cysteine ester of the formula III, in which R<1> is branched or linear C1-10-alkyl or where n=0, 1 or 2 and R<2> is branched or linear C1-C10-alkyl or C1-C4-alkoxy or C1-C4-dialkylamino in an inert solvent in the presence of a base at from 0° C. to 80° C. until the reaction has essentially proceeded to completion, and to the compounds of the formulae Ia and Ib.

IPC 1-7
C07D 277/56

IPC 8 full level
C07D 277/56 (2006.01); **C07D 277/20** (2006.01)

CPC (source: EP US)
C07D 277/56 (2013.01 - EP US)

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)
US 6639081 B1 20031028; AU 6691600 A 20010213; BG 106332 A 20020830; BR 0012710 A 20020409; CA 2380169 A1 20010201; CA 2380169 C 20070109; CN 1364164 A 20020814; DE 19934066 A1 20010125; EP 1196402 A1 20020417; HK 1047931 A1 20030314; HU P0201977 A2 20020928; IL 147804 A0 20020814; IL 147804 A 20081103; JP 2003532624 A 20031105; JP 4027093 B2 20071226; KR 20020028214 A 20020416; MX PA02000773 A 20020722; NO 20020328 D0 20020122; NO 20020328 L 20020131; NZ 516807 A 20041224; PL 355111 A1 20040405; SK 1062002 A3 20020702; TR 200200181 T2 20020821; WO 0107426 A1 20010201; ZA 200200459 B 20040526

DOCDB simple family (application)
US 3170302 A 20020430; AU 6691600 A 20000711; BG 10633202 A 20020121; BR 0012710 A 20000711; CA 2380169 A 20000711; CN 00810619 A 20000711; DE 19934066 A 19990723; EP 0006563 W 20000711; EP 00954468 A 20000711; HK 03100002 A 20030102; HU P0201977 A 20000711; IL 14780400 A 20000711; IL 14780402 A 20020123; JP 2001512511 A 20000711; KR 20027000960 A 20020123; MX PA02000773 A 20000711; NO 20020328 A 20020122; NZ 51680700 A 20000711; PL 35511100 A 20000711; SK 1062002 A 20000711; TR 200200181 T 20000711; ZA 200200459 A 20020118