

Title (en)
METHOD FOR THE PRODUCTION OF 3-AMINO-5-(HYDROXYMETHYL)CYCLOPENTANE-1,2-DIOL DERIVATIVES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON 3-AMINO-5-(HYDROXYMETHYL)CYCLOPENTAN-1,2-DIOLDERIVATEN

Title (fr)
PROCEDE POUR PRODUIRE DES DERIVES DE 3-AMINO-5-(HYDROXYMETHYL)CYCLOPENTANE-1,2-DIOLS

Publication
EP 1771434 A2 20070411 (DE)

Application
EP 05706975 A 20050124

Priority

- EP 2005000643 W 20050124
- EP 04002055 A 20040130
- EP 05706975 A 20050124

Abstract (en)
[origin: WO2005073213A2] The invention relates to a method for the production of acetals and ketals of 3-amino-5-(hydroxymethyl)cyclopentane-1,2-diols of formula (I) (and/or the enantiomer), where R<1> = H, C1-6 alkyl, C3-8 cycloalkyl or benzyl and i) R<2> = methyl and R<3> = ethyl, ii) R<2> = H and R<3> = C1-6 alkyl or phenyl or iii) R<2> and R<3> together form a group of formula -(CH2)_n- with n = 4 to 6, present as free amines or as salts of di- or tri-basic organic acids, starting from 2-acetyl-2-aza-bicyclo[2.2.1]hept-5-en-3-one of formula (II) (and/or the enantiomer). The method is equally useful, depending on the starting material, for the production of enantiomerically-pure compounds, or mixtures with arbitrary enantiomeric content.

IPC 8 full level
C07D 317/44 (2006.01); **C07D 209/52** (2006.01); **C07D 491/08** (2006.01)

CPC (source: EP US)
C07D 209/52 (2013.01 - EP US); **C07D 317/44** (2013.01 - EP US); **C07D 419/08** (2013.01 - EP US); **C07D 491/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2005073213A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005073213 A2 20050811; WO 2005073213 A3 20051124; CN 1922166 A 20070228; EP 1574508 A1 20050914; EP 1771434 A2 20070411; JP 2007538001 A 20071227; US 2007043225 A1 20070222; US 7417153 B2 20080826

DOCDB simple family (application)
EP 2005000643 W 20050124; CN 200580005464 A 20050124; EP 04002055 A 20040130; EP 05706975 A 20050124; JP 2006550065 A 20050124; US 58484805 A 20050124