

Title (en)

PROCESS FOR THE PRODUCTION OF 4-(ALPHA-HYDROXYALKYL)-1,3-DIOXAN-5-ONES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON 4-(ALPHA-HYDROXYALKYL)-1,3-DIOXAN-5-ONEN

Title (fr)

PROCEDE DE PRODUCTION DE 4-(ALPHA-HYDROXYALKYL)-1,3-DIOXAN-5-ONES

Publication

EP 1758878 A1 20070307 (DE)

Application

EP 05753902 A 20050615

Priority

- EP 2005052757 W 20050615
- EP 04102730 A 20040615
- EP 05753902 A 20050615

Abstract (en)

[origin: EP1609787A1] Preparation of 4-(alpha-hydroxyalkyl)-1,3-dioxan-5-one compounds (I) comprises reaction of dioxan-5-one compound (5) with an aldehyde compound (6) in the presence of proline (7). Preparation of 4-(alpha-hydroxyalkyl)-1,3-dioxan-5-one compounds (I) of formulae (1)-(4) comprises reaction of dioxan-5-one compound of formula (5) with an aldehyde compound of formula (6) in the presence of proline of formula (7). R : alkyl, aryl or heterocycle containing one or more O, N, S, P or B (all optionally substituted); R 1, R 2alkyl, aryl, heterocycle containing one or more O, N, S, P or B (all optionally substituted) or H; Ra : H, OH or SiX 3; and X : alkyl or aryl. An independent claim is also included for 4-(alpha-hydroxyalkyl)-1,3-dioxan-5-one compounds (I) (excluding the compounds with R 1=R 2=CH 3). [Image] [Image].

IPC 8 full level

C07D 319/06 (2006.01)

CPC (source: EP US)

C07D 319/06 (2013.01 - EP US)

Citation (search report)

See references of WO 2005123712A1

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)

EP 1609787 A1 20051228; EP 1758878 A1 20070307; US 2008097113 A1 20080424; US 7851639 B2 20101214; WO 2005123712 A1 20051229

DOCDB simple family (application)

EP 04102730 A 20040615; EP 05753902 A 20050615; EP 2005052757 W 20050615; US 62977205 A 20050615