

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 formule (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)
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