

Title (en)
METHOD FOR THE PRODUCTION OF CYCLOALIPHATIC COMPOUNDS (1) HAVING SIDE CHAINS WITH EPOXY GROUPS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON CYCLOALIPHATISCHEN VERBINDUNGEN, DIE SEITENKETTEN MIT EPOXIDGRUPPEN AUFWEISEN, DURCH HYDRIERUNG AN RU/SIO₂ KATALYSATOREN

Title (fr)
PROCEDE DE FABRICATION DE COMPOSES CYCLOALIPHATIQUES (I) PRESENTANT DES CHAINES LATERALES COMPORTANT DES GROUPES EPOXY

Publication
EP 1404444 A2 20040407 (DE)

Application
EP 02758224 A 20020610

Priority

- DE 10128204 A 20010611
- EP 0206348 W 20020610

Abstract (en)
[origin: DE10128204A1] A method for the production of cycloaliphatic compounds (I) having side chains with epoxy groups by heterogeneous-catalytic hydrogenation of a compound (II) having at least one carbocyclic, aromatic group and at least one side chain with at least one epoxy group, on a ruthenium catalyst, characterized in that the ruthenium catalyst is obtained by i) single or multiple treatment of an amorphous silicon dioxide based carrier material with a halogen-free aqueous solution of a low-molecular ruthenium compound and subsequent drying of the treated carrier material at a temperature of less than 200 DEG C, ii) reduction of the solid obtained in I) with hydrogen at a temperature ranging from 100 to 350 DEG C, wherein step ii) is carried out directly after step i).
[origin: DE10128204A1] Production of cycloaliphatic compounds that have side chains containing epoxy groups is claimed. A process for the production of cycloaliphatic compounds (I) that have side chains containing epoxy groups comprises heterogeneously catalyzed hydrogenation of a compound (II), having at least one carbocyclic aromatic group and at least one side chain having at least one epoxy group, at a ruthenium catalyst whereby the catalyst is prepared by: (A) a single or multiple treatment of an amorphous silicon dioxide support material with a halogen free solution of a low mol. wt. ruthenium compound followed by drying at below 200 deg C; (B) reduction of the resulting solid with hydrogen at 100-350 deg C such that step (B) is carried out immediately after step (A).

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IPC 8 full level
B01J 23/46 (2006.01); **B01J 37/18** (2006.01); **C07B 61/00** (2006.01); **C07D 303/30** (2006.01); **C08G 59/14** (2006.01); **C08G 59/24** (2006.01); **B01J 21/08** (2006.01)

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