

Title (en)
PROCESS FOR HYDROGENATING NITRILES

Title (de)
VERFAHREN ZUR HYDRIERUNG VON NITRILEN

Title (fr)
PROCÉDÉ D'HYDROGÉNATION DE NITRILES

Publication
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Application
EP 12710488 A 20120319

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- EP 11159126 A 20110322
- EP 2012054755 W 20120319
- EP 12710488 A 20120319

Abstract (en)
[origin: WO2012126869A1] The present invention relates to a process for hydrogenating organic nitriles by means of hydrogen in the presence of a catalyst in a reactor, where the shaped body catalyst is arranged in a fixed bed, wherein the shaped body in the shape of spheres or rods has in each case a diameter of 3 mm or less, in the shape of tablets a height of 4 mm or less, and in the case of all other geometries in each case has an equivalent diameter $L = 1/a'$ of 0.70 mm or less, where a' is the external surface area per unit volume (mms²/mmp³), with: (I) where A_p is the external surface area of the catalyst particle (mms²) and V_p is the volume of the catalyst particle (mmp³). The present invention further relates to a process for preparing downstream products of isophoronediamine (IPDA) or N,N-dimethylaminopropylamine (DMAPA) from amines prepared according to the invention.

IPC 8 full level
C07C 209/48 (2006.01)

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C07C 209/48 (2013.01); **C07C 209/52** (2013.01)

Citation (search report)
See references of WO 2012126869A1

Citation (third parties)
Third party :
CATALYST PRODUCT INFORMATION: "OCTOLYST H1235, COBALT ON SILICA", DEGUSSA. CREATING ESSENTIALS, November 2005 (2005-11-01), DEGUSSA AG, HANAU- WOLFGANG, DE, pages 1 - 2, XP003032025

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