

Title (en)
A METHOD FOR THE ALKYLATION OF AMINES

Title (de)
VERFAHREN ZUR ALKYLIERUNG VON AMINEN

Title (fr)
PROCÉDÉ D'ALKYLATION D'AMINES

Publication
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Application
EP 20922861 A 20200306

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Abstract (en)
[origin: WO2021174522A1] The present invention pertains to a method for the alkylation of amines. In particular, the present invention relates to a method for preparing N, N, N', N'', N'''-pentamethyldiethylenetriamine by reacting diethylenetriamine with methanol in the presence of hydrogen and a metal catalyst.

IPC 8 full level
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C-Set (source: EP)
C07C 209/16 + C07C 211/14

Citation (search report)
• [XYI] JIA-MIN HUANG ET AL: "-alkylation of ethylenediamine with alcohols catalyzed by CuO-NiO/-AlO", CHEMICAL PAPERS, SP VERSITA, HEIDELBERG, vol. 66, no. 4, 3 February 2012 (2012-02-03), pages 304 - 307, XP035021878, ISSN: 1336-9075, DOI: 10.2478/S11696-012-0140-8
• [X] T YAMAKAWA ET AL: "Alkylation of ethylenediamine with alcohols by use of Cu-based catalysts in the liquid phase", CATALYSIS COMMUNICATIONS, vol. 5, no. 6, 1 June 2004 (2004-06-01), pages 291 - 295, XP055027567, ISSN: 1566-7367, DOI: 10.1016/j.catcom.2004.03.004
• [Y] MEHTA ASTHA ET AL: "Reinvestigating Raney nickel mediated selective alkylation of amines with alcohols via hydrogen autotransfer methodology", APPLIED CATALYSIS A: GENERAL, ELSEVIER, AMSTERDAM, NL, vol. 478, 15 April 2014 (2014-04-15), pages 241 - 251, XP028651236, ISSN: 0926-860X, DOI: 10.1016/J.APCATA.2014.04.009
• See also references of WO 2021174522A1

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