

Title (en)

PROCESS FOR CARBONYLATION OF ALIPHATIC ALCOHOLS AND/OR REACTIVE DERIVATIVES THEREOF

Title (de)

VERFAHREN ZUR CARBONYLIERUNG VON ALIPHATISCHEN ALKOHOLEN UND/ODER REAKTIVEN DERIVATEN DAVON

Title (fr)

PROCÉDÉ DE CARBONYLATION D'ALCOOLS ALIPHATIQUES ET/OU DE LEURS DÉRIVÉS RÉACTIFS

Publication

**EP 2114850 A4 20130327 (EN)**

Application

**EP 06845427 A 20061215**

Priority

US 2006047718 W 20061215

Abstract (en)

[origin: WO2008073096A1] A product comprising a C<SUB>1</SUB>-C<SUB>3</SUB> aliphatic carboxylic acid or corresponding ester is produced by a process comprising reacting a C<SUB>1</SUB>-C<SUB>3</SUB> aliphatic alcohol or a reactive derivative thereof with carbon monoxide in the presence of a zeolite catalyst having an 8-member ring channel which is interconnected with a channel defined by a ring with greater than or equal to 8 members, the 8-member ring having a window size of at least 2.5 Angstroms x at least 3.6 Angstroms and at least one Brønsted acid site and the zeolite having a silica : X<SUB>2</SUB>O<SUB>3</SUB> ratio of at least 5, wherein X is selected from aluminium, boron, iron, gallium and mixtures thereof with the proviso that the zeolite is not mordenite or ferrierite.

IPC 8 full level

**C07C 51/12** (2006.01); **C07C 51/09** (2006.01); **C07C 67/37** (2006.01)

CPC (source: EP KR)

**B01J 29/50** (2013.01 - KR); **C07C 51/09** (2013.01 - EP); **C07C 51/12** (2013.01 - EP KR); **C07C 67/37** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2008073096A1

Citation (examination)

- BHAN, A.; ALLIAN, A.; SUNLEY, G.; LAW, D. AND IGLESIA, E.: "Specificity of sites within eight-membered ring zeolite channels for carbonylation of methyls to acetyls", J. AM. CHEM. SOC., vol. 129, 2007, pages 4919 - 4924
- "Notice to authors of JACS manuscripts", J. AM. CHEM. SOC., 2016

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DOCDB simple family (application)

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