

Title (en)

PRODUCTION PROCESS FOR 1,2-ALKANEDIOLS AND COMPOSITIONS CONTAINING 1,2-ALKANEDIOLS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON 1,2-ALKANDIOLEN UND 1,2-ALKANDIOLHALTIGE ZUSAMMENSETZUNGEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE 1,2-ALCANEDIOLS ET COMPOSITIONS CONTENANT DES 1,2-ALCANEDIOLS

Publication

**EP 4359376 A1 20240501 (EN)**

Application

**EP 22735852 A 20220621**

Priority

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- EP 2022066838 W 20220621

Abstract (en)

[origin: WO2022268786A1] The current invention relates to a process for the production of 1,2-alkanediols comprising the steps of: providing a dialkyl oxalate (component A); providing an ester or an aldehyde (component B), which is characterised by having at least one hydrogen atom bound to the second (alpha)-carbon atom; reaction of the dialkyl oxalate (component A) with an ester or aldehyde (component B) in the presence of a base (component C), thereby forming at least one new carbon-carbon bond and obtaining an intermediate; conversion of the obtained intermediate to an alpha-keto carboxylic acid, an alpha-keto ester or a mixture thereof; optionally, esterification of the obtained alpha-keto carboxylic acid; reduction of the alpha-keto carboxylic acid or its ester to the corresponding 1,2-alkanediol; and optionally, purification of the obtained 1,2-alkanediol and/or any of the intermediates formed during the prior steps.

IPC 8 full level

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C-Set (source: EP)

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2. **C07C 29/147** + **C07C 31/20**

Citation (search report)

See references of WO 2022268786A1

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