

Title (en)

METHOD FOR PRODUCING ACRYLIC ACID FROM ETHANOL AND FORMALDEHYDE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ACRYSLÄURE AUS ETHANOL UND FORMALDEHYD

Title (fr)

PROCÉDÉ DE PRODUCTION D'ACIDE ACRYLIQUE À PARTIR D'ÉTHANOL ET DE FORMALDÉHYDE

Publication

EP 2616427 A1 20130724 (DE)

Application

EP 11758439 A 20110913

Priority

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Abstract (en)

[origin: US2012071687A1] A process for preparing acrylic acid from ethanol and formaldehyde, in which, in a reaction zone A, the ethanol is partially oxidized to acetic acid in a heterogeneously catalyzed gas phase reaction, the product gas mixture A obtained and a formaldehyde source are used to obtain a reaction gas input mixture B which comprises acetic acid and formaldehyde and has the acetic acid in excess over the formaldehyde, and the formaldehyde present in reaction gas input mixture B is aldol-condensed with acetic acid present in reaction gas input mixture B to acrylic acid under heterogeneous catalysis in a reaction zone B, and unconverted acetic acid still present along-side the acrylic acid target product in the product gas mixture B obtained is removed therefrom, and the acetic acid removed is recycled into the production of reaction gas input mixture B.

IPC 8 full level

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CPC (source: CN EP RU US)

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Citation (search report)

See references of WO 2012035019A1

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