

Title (en)  
METHOD FOR PRODUCING ACRYLIC ACID FROM PROPANE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON ACRYLSÄURE AUS PROPAN

Title (fr)  
PROCEDE DE FABRICATION D ACIDE ACRYLIQUE A PARTIR DE PROPANE

Publication  
**EP 1539669 A1 20050615 (FR)**

Application  
**EP 03769594 A 20030909**

Priority

- FR 0302673 W 20030909
- FR 0211197 A 20020910
- FR 0306413 A 20030527

Abstract (en)  
[origin: WO2004024665A1] The invention concerns a method for producing acrylic acid from propane, which consists in passing a gas mixture including propane, water vapour, and optionally an inert gas and/or molecular oxygen, on a catalyst of formula (I):  $\text{Mo}_1\text{VaSbbNbcSidO}_x$ , wherein: a ranges between 0.006 and 1, inclusively; b ranges between 0.006 and 1, inclusively; c ranges between 0.006 and 1, inclusively; d ranges between 0 and 3.5, inclusively; and x is the amount of oxygen bound to the other elements and depends on their state of oxidation, for oxidizing propane into acrylic acid, and which is carried out in the presence of molecular oxygen, the propane/molecular oxygen mol ratio in the initial gas mixture is not less than 0.5.

IPC 1-7  
**C07C 57/05**; **C07C 51/215**; **C07C 57/04**

IPC 8 full level  
**B01J 23/28** (2006.01); **B01J 38/12** (2006.01); **C07B 61/00** (2006.01); **C07C 51/215** (2006.01); **C07C 57/04** (2006.01); **C07C 57/05** (2006.01)

CPC (source: EP KR US)  
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Citation (examination)

- "ASTM-D3907-87 Standard Method for Testing Fluid Cracking Catalysts by Microactivity Test", ANNUAL BOOK OF ASTM STANDARDS, 1987, pages 91 - 95
- CONTRACTOR ET AL.: "Butane oxidation in a transport bed reactor - redox characteristics of the vanadium phosphorus oxide catalyst", NEW DEVELOPMENTS IN SELECTIVE OXIDATION, 1990, pages 553 - 562
- See also references of WO 2004024665A1

Designated contracting state (EPC)  
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