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**(54) PROCESSES FOR PRODUCING ACRYLIC ACIDS AND ACRYLATES**

VERFAHREN ZUR HERSTELLUNG VON ACRYLSÄUREN UND ACRYLATEN

PROCÉDÉS DE PRODUCTION D'ACIDES ACRYLIQUES ET D'ACRYLATES

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(56) References cited:

- **MAMORU AI: "The production of methacrylic acid by the vapor-phase aldol condensation of propionic acid with formaldehyde", JOURNAL OF CATALYSIS, vol. 124, 1990, pages 293-296, XP002689804,**
- **MARORU AI ET.AL.: "Production of methacrylic acid by vapor-phase aldol condensation of propionic acid with formaldehyde over silica-supported metal phosphate catalysts", APPLIED CATALYSIS A: GENERAL, vol. 252, 2003, pages 185-191, XP002689805,**
- **MAMORU AI: "Vapor-phase Aldol condensation of formaldehyde with acetic acid on V2O5-P2O5 catalysts", JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 107, 1 January 1987 (1987-01-01), pages 201-208, XP002667283, ISSN: 0021-9517 cited in the application**

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