

METHOD FOR REGENERATING CATALYST FOR THE PRODUCTION
OF METHACRYLIC ACID AND PROCESS FOR PREPARING
METHACRYLIC ACID

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ABSTRACT

A catalyst for the production of methacrylic acid comprising a heteropolyacid compound containing phosphorus and molybdenum is regenerated by a method comprising the steps of heat-treating a mixture containing a deactivated catalyst, water, a nitrate ion and an ammonium
10 ion having a molar ratio to the nitrate ion of 1.3 or less at a temperature of at least 100°C, drying the mixture to obtain a dried catalyst, and calcining the dried catalyst. The regenerated catalyst has substantially the same catalytic activity as a fresh catalyst in a gas phase catalytic oxidation reaction of methacrolein, isobutylaldehyde, isobutane or
15 isobutyric acid to prepare methacrylic acid.