

ABSTRACT

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

Provided are a method for regenerating a catalyst for the production of methacrylic acid, which enables to satisfactorily restore catalytic activity and catalyst life of a used catalyst used for the production of methacrylic acid,
10 and a process for preparing methacrylic acid by using the regenerated catalyst obtained by the method. The method for regenerating a catalyst for the production of methacrylic acid comprising a heteropolyacid compound containing phosphorus, molybdenum and copper comprises step (1) mixing a used catalyst, a nitrate ion, an ammonium ion and water to form an aqueous
15 slurry A wherein the atomic ratio of copper to molybdenum has been adjusted to a predetermined ratio, step (2) forming an aqueous slurry B wherein the atomic ratio of copper to molybdenum has been adjusted to a predetermined ratio, and step (3) drying and calcining an aqueous slurry C obtained by mixing the aqueous slurry A obtained in step (1) with the
20 aqueous slurry B obtained in step (2), wherein the atomic ratio of copper to molybdenum in the heteropolyacid compound is from 0.05 : 12 to 0.25 : 12.