

ABSTRACT

CATALYST USEFULL FOR PRODUCING METHACRYLIC ACID

A catalyst useful for producing methacrylic acid from methacrolein, isobutyl aldehyde, isobutene, isobutyric acid or the like in a gas-phase catalytic oxidation is provided. The catalyst comprises a Keggin-type heteropolyacid salt which is represented by $P_aMo_bV_cX_dY_eO_f$, wherein X represents at least one element selected from potassium, rubidium, cesium and thallium; Y represents at least one element selected from copper, arsenic, antimony, boron, silver, bismuth, iron, cobalt, lanthanum and cerium; when b equals to 12, then a, c, d and e represent, independently from one another, numerical values exceeding 0 and not more than 3; the catalyst having a pore distribution in which a total pore volume of pores having a radius of 0.05 μm or less is about 0.01 cm^3/g or less and a total volume of pores having a radius exceeding 0.05 μm is about 0.2 cm^3/g or more.