

Abstract

The present invention provides a production method which is capable of stably producing a catalyst that enables a production of methacrylic acid with high selectivity. A method of producing a catalyst used for a production of methacrylic acid includes (i) preparing a slurry A1 containing a heteropolyacid containing at least phosphorus and molybdenum or a salt of the heteropolyacid containing at least phosphorus and molybdenum, (ii) preparing a slurry A2 satisfying the following Formula (I) and Formula (II) using the slurry A1, (iii) mixing the slurry A2 and a raw material liquid B containing a cationic raw material to prepare a slurry C, and (iv) drying the slurry C, $\alpha_{A2} / \alpha_{A1} \leq 0.95$ (I), $2 \leq D_{A2} \leq 50$ (II), wherein, in Formula (I), α_{A1} represents a half-value width (μm) of a particle size distribution of the slurry A1, α_{A2} represents a half-value width (μm) of a particle size distribution of the slurry A2, and in Formula (II), D_{A2} represents a median diameter (μm) of the particle size distribution of the slurry A2.

15 No Figure