ABSTRACT

The present invention provides a method for producing a catalyst for use in synthesizing methacrylic acid which can produce methacrylic acid in high yield, the catalyst for use in synthesizing methacrylic acid which can produce methacrylic acid in high yield and a method for producing methacrylic acid in high yield through gas-phase catalytic oxidation of methacrolein with molecular oxygen. The method for producing the catalyst containing molybdenum and phosphorus for use in synthesizing methacrylic acid is composed of the steps of: preparing a slurry containing at least molybdenum and phosphorus and having specific viscosity in the range of 2.5×10^{-4} to 7.0×10^{-4} m^2/s, which is a value obtained by dividing viscosity (unit: kg/(m·s)) by specific gravity (unit: kg/m^3); obtaining a dried material by drying the slurry; and calcining the dried material at 300 to 500°C.