

[ABSTRACT]

It is an object to provide a simple method for producing catalysts available in various reaction conditions, that allow gas-phase catalytic oxidation of methacrolein and the like to give methacrylic acid with high yield, high selectivity and stable methacrylic yield over extended time.

A method for manufacturing a catalyst of which active components are partly neutralized salt of heteropoly acid comprising molybdenum, phosphorus, vanadium, cesium, antimony, and ammonia as essential components, wherein the method is characterized in mixing an antimony compound with a complex oxide of the essential active components in the catalyst containing active components other than antimony. The antimony compound may be added during slurry preparation.