

ABSTRACT

Provided is a catalyst precursor for production of α,β -unsaturated carboxylic acid to enable production of α,β -unsaturated carboxylic acid at a high yield. A method for producing a catalyst precursor for production of α,β -unsaturated carboxylic acid, wherein the catalyst precursor is a precursor of a catalyst for use in production of α,β -unsaturated carboxylic acid through gas-phase catalytic oxidation of α,β -unsaturated aldehyde with molecular oxygen, the precursor contains an ammonium species, and the method includes: (i) a step of providing an aqueous slurry or aqueous solution (I) containing molybdenum-containing heteropolyacid; (ii) a step of adding an ammonium compound to the aqueous slurry or aqueous solution (I) to obtain a slurry (II) including a precipitated ammonium salt of heteropolyacid; and (iii) a step of drying the slurry (II) including the precipitated ammonium salt of heteropolyacid to obtain the precursor, wherein the ammonium compound used in the step (ii) is an ammonium compound containing 30% by mass or more of ammonium carbamate.