

ABSTRACT

An object of the present invention is to provide a catalyst with high selectivity for an α,β -unsaturated aldehyde, an α,β -unsaturated carboxylic acid, and the like. Problems are solved by a catalyst containing at least molybdenum and bismuth and having a B/A of 1.3 to 5 when a ratio of the amount of bismuth atoms to the amount of molybdenum atoms, calculated from ICP (inductively coupled plasma) atomic emission spectrometry is A, and a ratio of a peak area of bismuth atoms to a peak area of molybdenum atoms, measured by X-ray photoelectron spectrometry is B.

No figure.