Catalyst for Producing α, β-Unsaturated Carboxylic Acid and Method for Preparation Thereof, and Method for Producing α, β-Unsaturated Carboxylic Acid

Abstract

A catalyst for producing an α, β-unsaturated carboxylic acid which comprises a carrier having a total pore volume of 0.40 to 1.50 cc/g as measured by the nitrogen gas adsorption method and a metal carried thereon or which comprises a carrier and, carried thereon, palladium having an average particle diameter in the range of 1 to 8nm; a method for preparing the catalyst; and a method for producing an α, β-unsaturated carboxylic acid using the above catalyst. The above catalyst can be suitably used for producing an α, β-unsaturated carboxylic acid from an olefin or an α, β-unsaturated aldehyde through the liquid phase oxidation in good reaction performance.