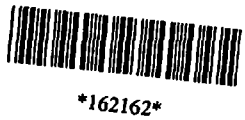
ABSTRACT

This invention relates to a preparation process of a catalyst which comprises a noble metal and a metal as catalysis promoter in combination with an alkali or alkaline earth metal compound, supported on the outer surface of a carrier. The preparation process comprises impregnating the carrier with a solution containing an oxidative state noble metal as the main catalyst and an oxidative state metal as catalysis promoter, reducing the oxidative state metals into the metallic state in gaseous phase with a gaseous reducing agent under certain temperature, pressure and gas concentration, then impregnating the reduced carrier with a solution of an alkali or alkaline earth metal compound. The metal components-supporting catalyst prepared by the process according to the present invention has a high surface area and exhibits high catalytic activity, which leads to increase the catalytic efficiency and life of this heterogeneous catalyst. The catalyst prepared in the present invention is suitable for producing alkenyl acetates through reaction of olefins, acetic acid and oxygen in vapor phase.



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