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Abstract

Surface impregnated catalyst, process for the production thereof, and use thereof for the preparation of vinyl acetate

The invention relates to Pd/K/Au, Pd/K/Ba, or Pd/K/Cd supported catalysts having an impregnated layer structure, the production thereof and also the use thereof for preparing vinyl acetate from ethylene, acetic acid and oxygen in the gas phase. The catalysts specified are produced by spraying the support particles, while mixing intimately with a solution of salt of the corresponding elements in the form of drops having an average diameter of at least 0.3 mm or in the form of liquid jets and then drying the support particles immediately, with the dynamic viscosity of the solution being at least 0.003 Pa•s and the solution volume in spraying being from 5 to 80 % of the pore volume of the support particles.