

Method for preparing palladium-containing catalyst, in which pyrolusite is purified of impurities, dried, and impregnated with decinormal solution, followed by drying impregnated material. First, pyrolusite is fractionated by sorting and separating it by grain size to obtain fractions of 5-7 mm. Pyrolusite is purified with distilled water, then dried at a temperature of 200 ± 10 °C for 24 ± 1 hours. It is impregnated for 24 ± 1 hours with decinormal solution of palladium nitrate in nitric acid containing a mass fraction of palladium of 0.1%. The volume of decinormal solution is 10% of the moisture capacity of pyrolusite; impregnated material is dried at a temperature of 250 ± 10 °C for 24 ± 1 hours.