

Preparation and characterization of Nanoporous Boehmite

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Boehmite(AlOOH) powders with nanoporous structure and high surface area were prepared via salt route. During these synthetic process, the effect of the concentration of precursor, pH of reaction solution and aging time were investigated to determine the optimal synthetic conditions of boehmite. X-ray diffraction, DTA-TG, BET, FT-IR, Raman, particle size analyzer and scanning electron microscopy technique were used for the characterization of the nanoporous boehmite.