

NMR-spektroskopische Untersuchungen zur Hydrolyse von funktionellen Trialkoxysilanen

NMR-Spectroscopic Investigations on the Hydrolysis of Functional Trialkoxysilanes

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The hydrolysis of functional trialkoxysilanes was studied under various conditions by ¹H NMR spectroscopy. The silane concentration was 1 - 2% by weight in a water/acetone-system. Under these conditions, the reaction was found to be first order. In detail, influence of pH, grade of stirring, and size and structure of functional groups of the alkyltrialkoxysilanes were investigated in order to compare the relative reaction rates of the different compounds.

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