Eine leistungsfähige Synthese von Lepidokrokit (γ-FeOOH) durch Homogenfällung

An Efficient Synthesis of Lepidocrocite (γ-FeOOH) by Homogeneous Precipitation

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Well crystallized lepidocrocite (γ-FeOOH) with high phase purity can be prepared by precipitation from homogeneous solution. $FeCl_2$ is oxidized with $NaClO_3$ while heating the common solution slowly from 20 to 75 °C. Due to the buffer pyridine/HCl the pH-value changes only from 6.3 to 5.3. The product with the specific surface of about 16 m^2/g has been characterized by several methods, especially by thermal analysis.

Key words: Lepidocrocite, FeOOH (γ), Iron Oxide Hydroxide, Synthesis, Homogeneous Precipitation