

Condition of imogolite formation

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We discussed about the condition of imogolite formation, which is formed from volcanic ash by the weathering, from the point of synthesis. A precursor of imogolite and allophane was produced from sodium orthosilicate and aluminium chloride solution. The precursor was washed by centrifugation, then this precursor was dispersed in distilled water and heated for two days. Imogolite was synthesized from less concentrated than 35mmol/l orthosilicate, it is cleared that the ionic concentration of Na-ion and Cl-ion in the solution is important factor in the case of synthesizing imogolite. The pH range at which the imogolite is formed is between 4.1 and 5.6, in the case of precursor which is formed Si-O-Al combination, imogolite is synthesized in the area of weak acidity.