绿色化学与技术专栏

Kinetics of Sawdust Hydrolysi with Dilute Hydrochloric Acid and Ferrous Chloride

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摘要 With dilute hydrochloric acid as catalyst and promoted by ferrous chloride, hydrolysis of waste sawdust to produce monosaccharides was conducted by using an one-step method in a batch-wise operation reactor. Based on the model of first order consecutive irreversible reactions, the kinetics equation incorporating the term of catalyst concentration was obtained that is suitable for describing the hydrolysis of sawdust. Activation energies were calculated for hydrolysis of sawdust and decomposition of monosaccharides.

关键词 <u>sawdust,acid hydrolysis,inorganic acid,kinetics</u>

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