

Adsorption kinetic study of lac dyeing on cotton

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Abstract

Adsorption kinetics study of lac dyeing on cotton were carried out under dyeing conditions of pH 3.0, MLR 1:100 and an initial dye concentration 480 ± 10 mg/L. Pseudo first- and second-order kinetic models were used to examine the adsorption kinetic data. It was found that the adsorption kinetics of lac dyeing on cotton with pH control was found to follow the pseudo second-order kinetic model with an activation energy of 42.4 kJ/mol.

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