



Adsorption of Phenol and o - Cresol from Dilute Aqueous Solution on Bentonite Clay

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Abstract: The adsorption of two phenols namely, phenol and o-cresol from aqueous solution onto Bentonite clay after treatment were studied. A series of batch adsorption tests were carried out for various concentrations of phenols (20-160 mg/L) in a thermostatic shaker water bath for 48 hrs. Adsorption equilibrium data were well fitted by Langmuir and Freundlich isotherms. The adsorption was explained by these models. Experiments for the effect of temperature were also carried out.

Keywords: *adsorption of phenol and o-cresol, Bentonite clay, Aqueous solution, Langmuir, Freundlich.*

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