Removal of 3,4-Dichlorophenoxyacetic Acid from Aqueous Solution

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Adsorption of 3,4-dichlorophenoxyacetic acid (3,4-D) from aqueous solution onto a granular activated carbon (GAC), F-400, were studied at pH 3.5, 7.0 and 10.0. Adsorption equilibrium of 3,4-D onto GAC could be represented by Sips equation. Adsorption equilibrium capacity increased with decreasing pH of the solution. Kinetic parameters were measured in a batch adsorber to analyze the adsorption rates of 3,4-D. The internal diffusion coefficients were determined by comparing the experimental concentration curves with those predicted from surface diffusion model (SDM) and pore diffusion model (PDM).