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**Sorption of Selected Volatile Organic Constituents of Jet Fuels and Solvents on Natural Sorbents from Gas and Solutions Phases**

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**Abstract:** Sorption of selected volatile organic constituents (VOC) of **jet fuels** and solvents on several natural sorbents from the gas and aqueous phases was investigated. The sorbates studied were: trans-1,2-dichloroethylene; 1,2- dichloroethane; trichloroethylene; 1,1,2,2-tetrachloroethane; toluene; ethylbenzene; p-xylene; o-xylene; and cyclohexane. The sorbents used included clays (kaolin, montmorillonite, SAZ-1), soils (Webster and Oldsmar), and aquifer materials (Borden and Lula). Sorption from the vapor phase was studied using three techniques; the headspace analysis method, dynamic flow method, and a gas chromatographic method. Sorption of VOC on anhydrous sorbents and sorbents in equilibrium with water at different relative humidities was examined. The energetics of sorption were characterized by measuring VOC sorption at several temperatures. Sorption coefficients, Soils, Mineral surfaces, Aquifer materials, Organic chemical transport, Sorption equilibrium, Spectroscopic techniques, **Jet fuels**, Water pollution.

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