

Heat of immersion and adsorption studies on some silaceous materials.

University of Salford - Adsorption of Aromatic Hydrocarbons on Highly Siliceous MCM



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The bulk volumes of some related siliceous materials

Effects of Molecular Cross-Sectional Areas of Adsorbed Nitrogen on the Brunauer—Emmett—Teller Analysis for Carbon-Based Slit Pores. . Relationship between physicochemical properties and adsorption capacity; Ads.

Influence of the Framework Density and the Effective Electronegativity of Silica and Aluminophosphate Molecular Sieves on the Heat of Adsorption of Nonpolar Molecules

Oyedotun, Farshad Barzegar, Abdulmajid A.

Heat of immersion of modified rutile pigments in water

Solvent effects were considered by including several explicit solvent molecules in the pores of the zeolite unit cell. A subsequent three-hour calcination at 853 K in air removed the SDA.

Heat of immersion of modified rutile pigments in water

The results of compact CaCl_2 adsorbents show that the permeability and thermal conductivity vary with the ratio of ENG and the density of compact adsorbents. Once the immersion enthalpy of the solid is known, which for this work is the activated carbon, the enthalpy relates to the volume of the micropore, W_o , and the molar volume, V_m , of the adsorbent by means the Stoeckli and Kraehenbuehl equation 20: This shows that the immersion enthalpy, ΔH_{im} , corresponds to the process of filling the micropores and it is different from the wetting enthalpy of open or non-porous surfaces. Erto A, Chianese S, Lancia A, Musmarra D.

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