Structural and Energetic Heterogeneities of Modified Activated Carbons

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Structural and energetic heterogeneities of one parent and four chemical treated activated carbons possessed different physico-chemical properties were examined using nitrogen, water and organic molecules adsorption isotherms to understand the effects of heterogeneity of porous adsorbents. The adsorption energy distributions functions expressed by an integral form and described the heterogeneous of porous materials were obtained from the low pressure nitrogen adsorption isotherm by using the generalized regularization method.