

Equilibrium and Column Dynamics of Hydrogen Fluoride on Activated Alumina

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Adsorption of hydrogen fluoride (HF) on activated alumina adsorbent was investigated from the experimental and theoretical study. Adsorption equilibrium of HF on activated alumina was obtained from the column experiments. Pure-component isotherm models including Langmuir isotherm, Langmuir Freundlich isotherm and dual-site Langmuir isotherm were used to fit the adsorption equilibrium data of HF. In addition, the isosteric enthalpies of adsorption and adsorption energy distribution curves were calculated.