

### Adsorption of CO<sub>2</sub> on Metal Organic Framework

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Adsorption equilibrium of CO<sub>2</sub> on metal organic framework was obtained by static volumetric method in the pressure range of 0 to 30 bar at 293.15, 303.15, and 313.15 K. Langmuir isotherm, Langmuir Freundlich isotherm and dual-site Langmuir isotherm were used to fit the adsorption equilibrium data of CO<sub>2</sub>. In addition, the isosteric enthalpies of adsorption and the limiting heat of adsorption were calculated using the Clausius-Clapeyron equations.