

Supporting Information

A microporous nickel-organic framework with unusual 10-connected bct net and high capacity for CO₂, H₂ and hydrocarbons

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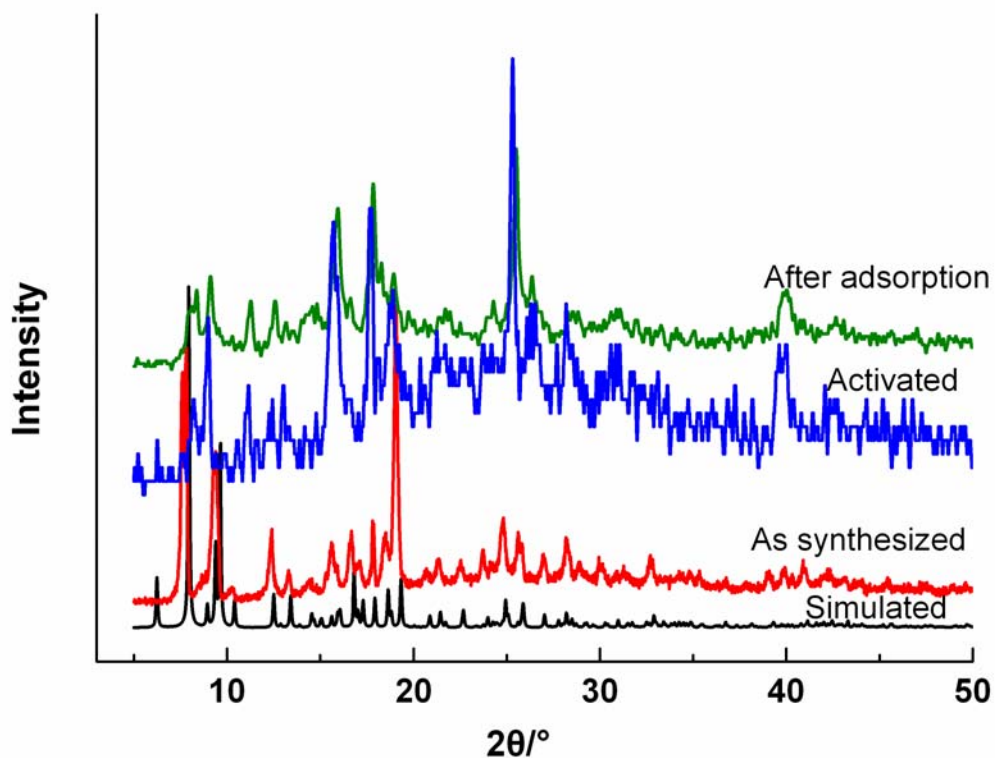


Figure S1. Simulated, synthesized, activated and after adsorption PXRD patterns of compound 1.

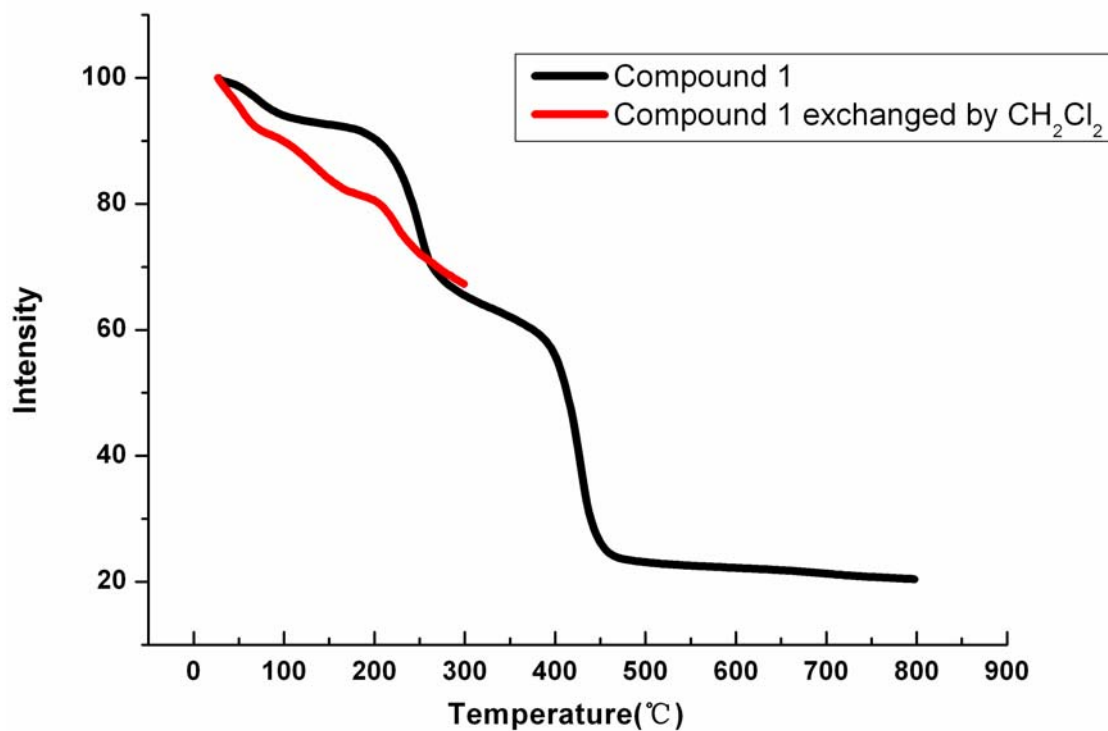


Figure S2. The TGA diagrams of **1** (black) and its sample soaked in CH_2Cl_2 (red).

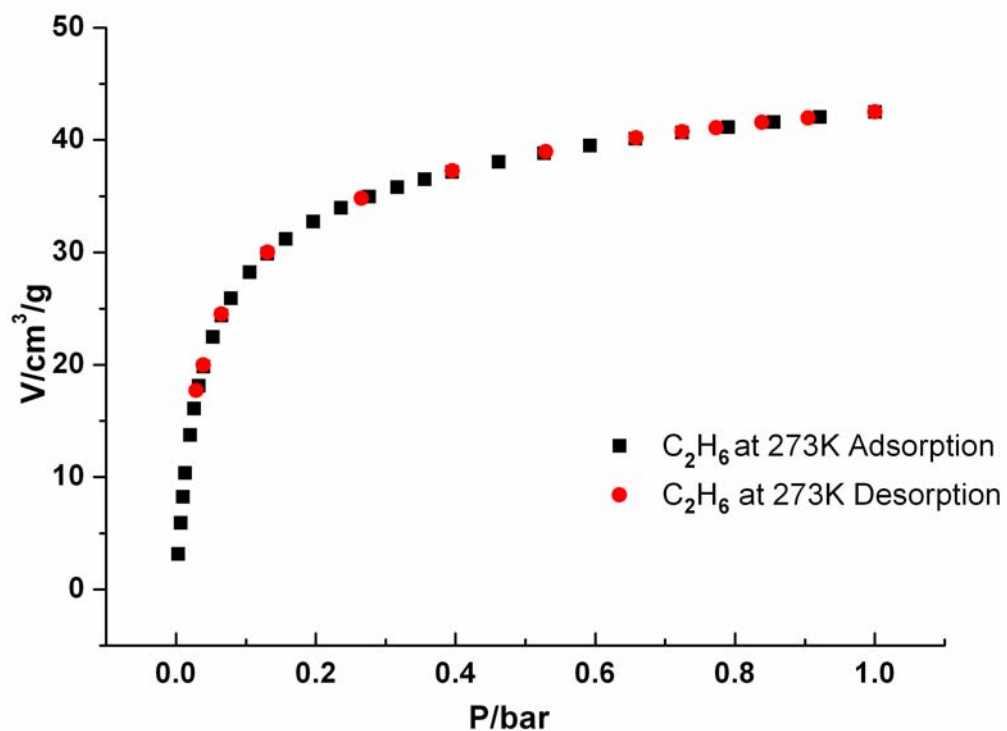


Figure S3. The C_2H_6 adsorption and desorption isotherms of 1 at 273K.

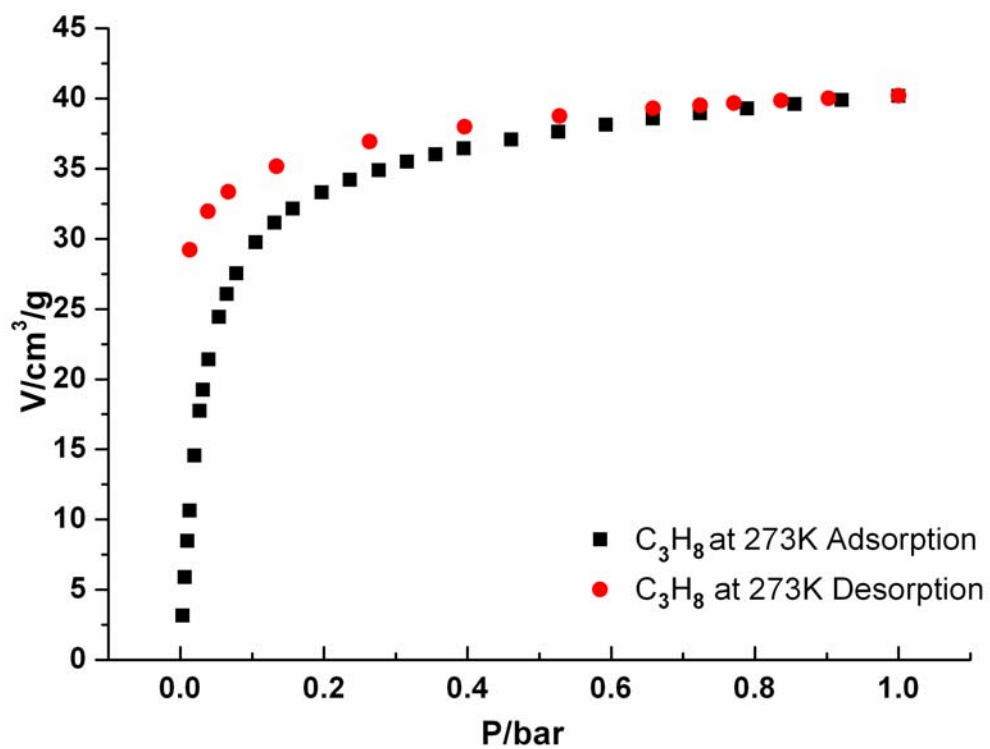


Figure S4. The C_3H_8 adsorption and desorption of 1 at 273K.