



# MOF-5



Highly Porous  
Metal-Organic Framework

Information, quantities and prices:

Materials Center

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[materials.center@chemie.tu-dresden.de](mailto:materials.center@chemie.tu-dresden.de)

[www.metal-organic-frameworks.eu](http://www.metal-organic-frameworks.eu)

TU Dresden  
Department of Chemistry and Food Chemistry  
Inorganic Chemistry I  
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## Chemical Data

### Chemical composition:



Min./Max. quantity: 1 g

### Air and moisture sensitivity:

unstable against humidity and wet air

Colour: colourless crystals

Particle size: 50 - 500  $\mu\text{m}$

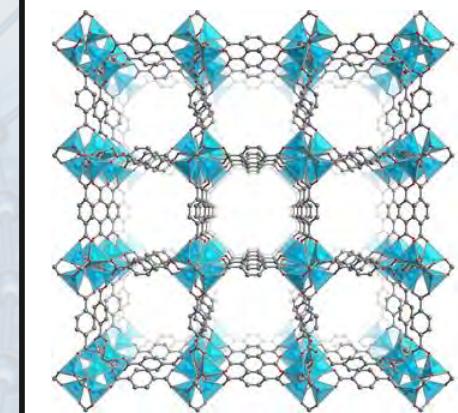
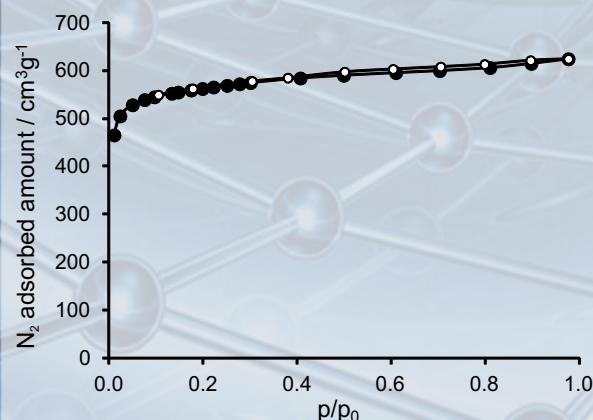
### Single point BET ( $p/p_0 = 0.3$ ):

2050  $\text{m}^2\text{g}^{-1}$

### Specific pore volume ( $p/p_0 = 0.9$ ):

0.95  $\text{cm}^3\text{g}^{-1}$

### Adsorption isotherm:



## Literature

H. Li, M. Eddaoudi, M. O'Keeffe, O. Yaghi, *Nature*, 1999, 402, 276 – 279