



## CPO-27(Ni)



Highly Porous  
Metal-Organic Framework

Information, quantities and prices:

Materials Center

Phone: +49 351 463 - 34864

Fax: +49 351 463 - 37287

[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  
01062 Dresden

### Chemical Data

Chemical composition:



Min./Max. quantity: 1 g

Air and moisture sensitivity:

stable in air and against water

Colour: yellow-beige to ochre-brown

Particle size: <100 µm

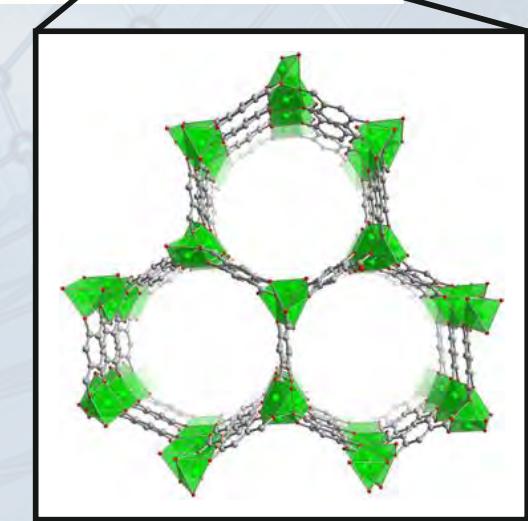
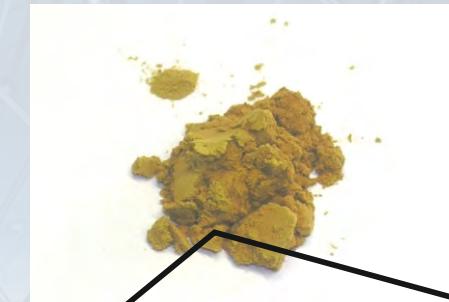
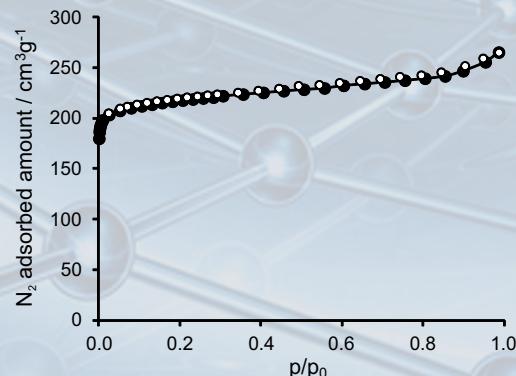
Single point BET ( $p/p_0 = 0.3$ ):

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

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

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

Adsorption isotherm:



### Literature

P. D. C. Dietzel, B. Panella, M. Hirscher,  
R. Blom, H. Fjellvag, *Chem. Commun.*  
2006, 959 - 961.