



TECHNISCHE
UNIVERSITÄT
DRESDEN

DUT-6

$\text{Zn}_4\text{O}(\text{btb})_{4/3}(2,6\text{-ndc})$

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

www.metal-organic-frameworks.eu

TU Dresden

Department of Chemistry and Food Chemistry

Inorganic Chemistry I

01062 Dresden

Chemical Data

Chemical composition:

$\text{C}_{48}\text{H}_{26}\text{O}_{13}\text{Zn}_4$ ($M_w = 1072.2 \text{ g mol}^{-1}$)

Min./Max. quantity: 1 g

Air and moisture sensitivity:

unstable against humidity and wet air

Colour: colourless crystals

Particle size: 50 - 500 μm

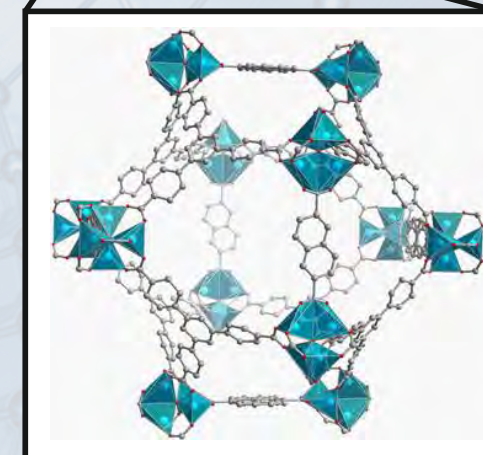
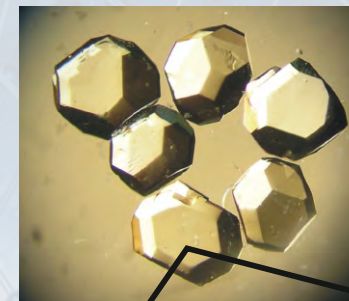
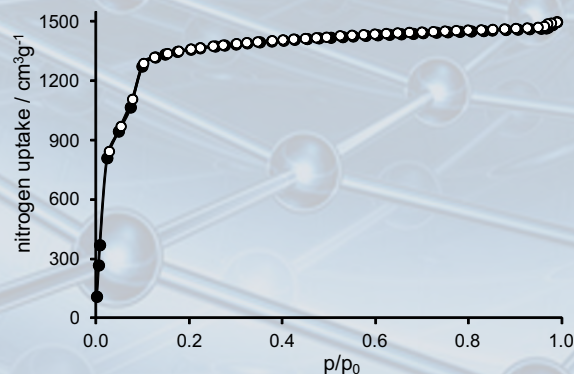
Single point BET ($p/p_0 = 0.3$):

$3700 \text{ m}^2 \text{ g}^{-1}$

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

$1.98 \text{ cm}^3 \text{ g}^{-1}$

Adsorption isotherm:



Literature

N. Klein, I. Senkovska, K. Gedrich, U. Stoeck, A. Henschel, U. Mueller, S. Kaskel, *Angew. Chem. Int. Ed.* **2009**, *48*, 9954 - 9957.