



TECHNISCHE
UNIVERSITÄT
DRESDEN

FeBTC



spherical iron(III)-
trimesate adsorbents

Highly Porous
Metal-Organic Framework

Information, quantities and prices:

Materials Center

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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:



Min./Max. quantity: 1 - 100 g

Air and moisture sensitivity:

stable against moisture
stable in air up to 250 °C

Colour: light to dark brown (Xerogel)
orange to light brown (Aerogel)

Particle size: 0.5 - 2.0 mm (Xerogel)
1.0 - 5.0 mm (Aerogel)

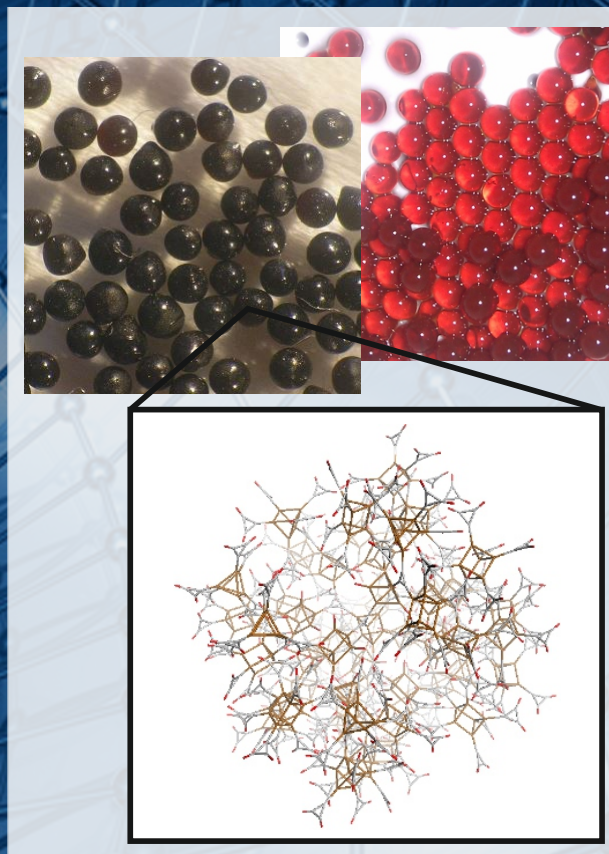
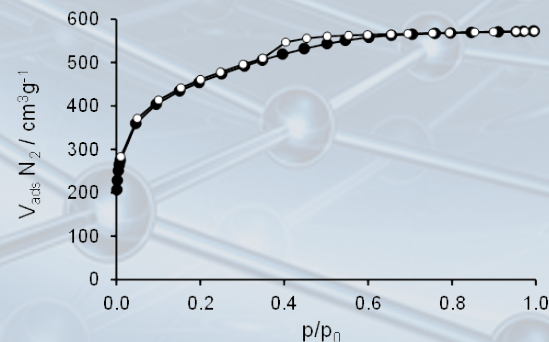
Single point BET ($p/p_0 = 0.3$):

800 - 1300 m^2g^{-1} (Xerogel)
1300 - 1600 m^2g^{-1} (Aerogel)

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

0.6 cm^3g^{-1} (Xerogel), 0.8 cm^3g^{-1} (Aerogel)

Adsorption isotherm:



Literature

M. R. Lohe, S. Kaskel, M. Rose, I. Senkovska, WO 2012156436, 2012.

M. R. Lohe, M. Rose, S. Kaskel, *Chem. Commun.* 2009, 6056 - 6058.