TECHNISCHE UNIVERSITÄT DRESDEN

MCM-41

hexagonal mesoporous SiO_2

Information, quantities and prices:

Materials Center

Phone: +49 351 463 - 32021
Fax: +49 351 463 - 37287
materials.center@chemie.tu-dresden.de

http://www.chm.tu-dresden.de/ac1/materials_center/

TU Dresden
Department of Chemistry and Food Chemistry
Inorganic Chemistry I
01062 Dresden

Chemical Data

Chemical composition:
SiO_2 (M_W = 60.1 g mol^{-1})

Min./Max. quantity: 1 gram
10 grams

Air and moisture sensitivity:
stable under hydrothermal conditions

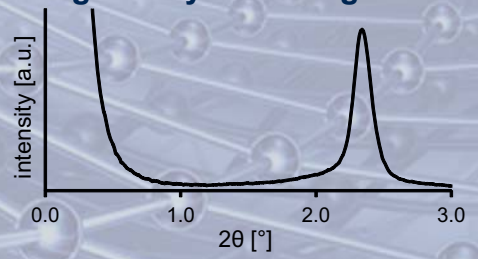
Colour: colorless

Pore size: 2-3 nm

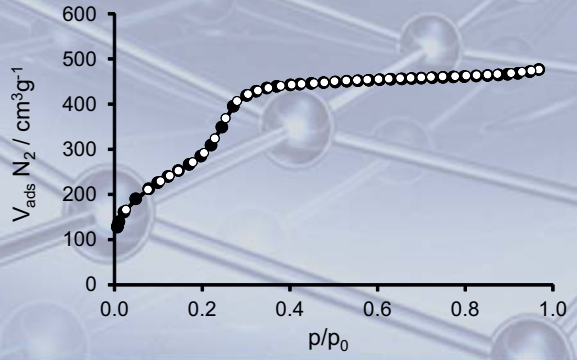
Single point BET (p/p_0 = 0,3):
~ 1200 m^2g^{-1}

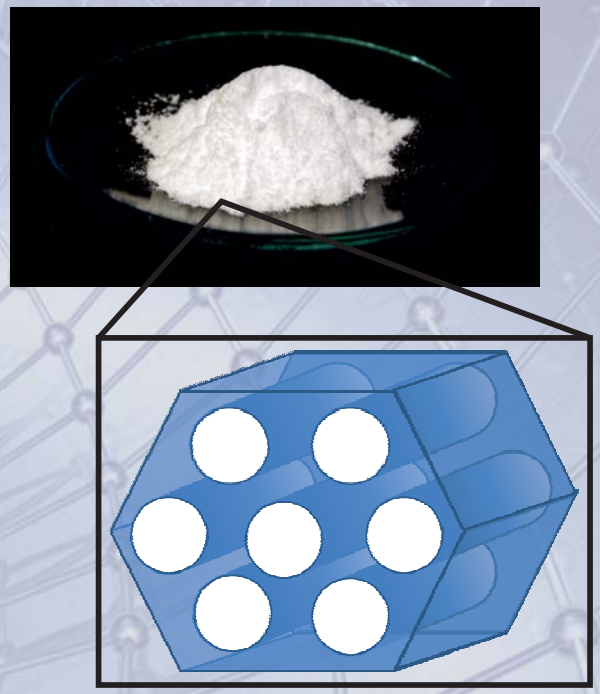
Specific pore volume (p/p_0 = 0,9):
~ 0.7 cm^3g^{-1}

Small angle x-ray diffractogram:



Adsorption isotherm (77 K):





Literature

C. T. Kresge, M. E. Leonowicz, W. J. Roth, J. C. Vartuli, J. S. Beck, *Nature* **1992**, *359*, 710-712.