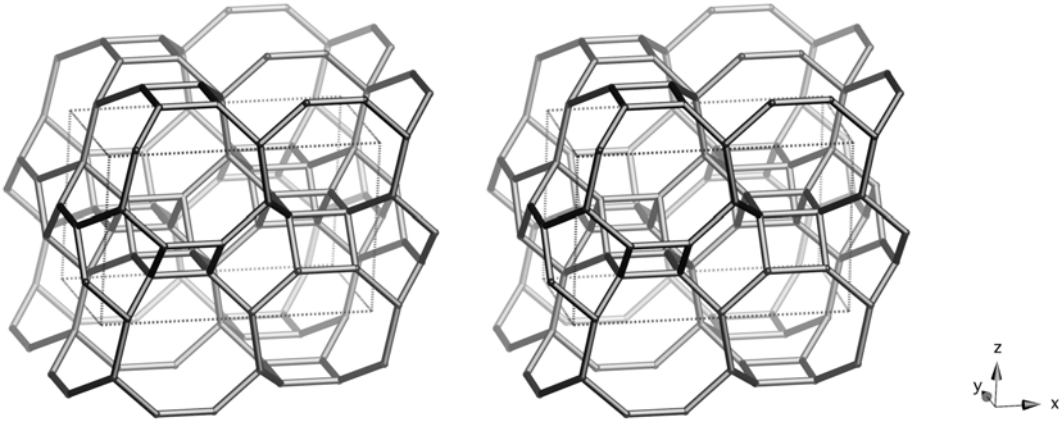
OWE

Pmma

Framework Type Data



framework viewed along [010]

Idealized cell data: orthorhombic, *Pmma*, $a = 14.4$Å, $b = 7.2$Å, $c = 9.1$Å

Coordination sequences and vertex symbols:

T_1 (8,1)	4	9	18	35	57	76	96	128	172	216	252	290	$4\cdot4\cdot4\cdot8_3\cdot6_2\cdot8_2$
T_2 (4,.*m*.)	4	9	19	34	52	75	99	129	172	215	250	288	$4\cdot6_2\cdot4\cdot6_2\cdot4\cdot8_2$
T_3 (4,.*m*.)	4	11	22	32	49	77	109	139	163	197	250	310	$4\cdot8_2\cdot6_2\cdot8_2\cdot6_2\cdot8_2$

Secondary building units: 4 or 4-4-

Composite building units:

dsc	*sti*
double sawtooth chain	

Materials with this framework type:

*UiO-28[1]
ACP-2[2]

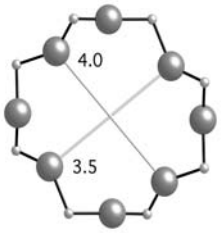
Type Material: UiO-28 — OWE

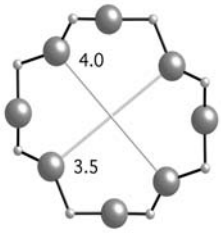
Type Material Data

Crystal chemical data: | $(C_4N_3H_{14})_4$ $(H_2O)_4$ | $[Mg_4Al_{12}P_{16}O_{64}]$-**OWE**
$C_4N_3H_{13}$ = diethylenetriamine
orthorhombic, *Pbcm*, a = 9.2769Å, b = 14.7984Å, c = 14.6106Å [1]
(Relationship to unit cell of Framework Type: $a' = c$, $b' = 2b$, $c' = a$)

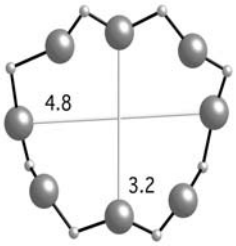
Framework density: 16 T/1000Å^3

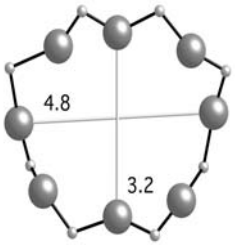
Channels: [010] **8** 3.5 x 4.0* ↔ [001] **8** 3.2 x 4.8*





8-ring viewed along [010]





8-ring viewed along [001]

References:

(1) Kongshaug, K.O., Fjellvag, H. and Lillerud, K.P. *J. Mater. Chem.*, **11**, 1242-1247 (2001)
(2) Feng, P., Bu, X. and Stucky, G.D. *Nature*, **388**, 735-741 (1997)