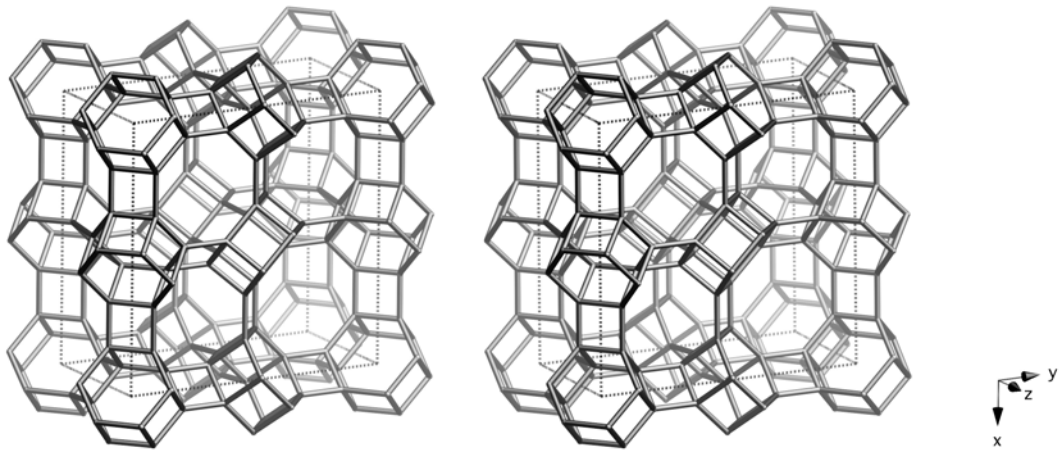
SAV

P4/nmm

Framework Type Data



framework viewed along [001]

Idealized cell data: tetragonal, *P*4/*nmm* (origin choice 2), a = 18.7Å, c = 9.4Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	9	17	29	45	65	88	113	143	179	4·4·4·8·6·8
T_2 (16,1)	4	9	17	29	45	65	88	114	144	177	4·4·4·8·6·8
T_3 (16,1)	4	9	17	29	45	63	84	112	144	177	4·4·4·8·6·8

Secondary building units: 6-6 or 6 or 4-2 or 4

Composite building units:

d6r

Materials with this framework type:

*Mg-STA-7[1]
Co-STA-7[1]
Zn-STA-7[1]

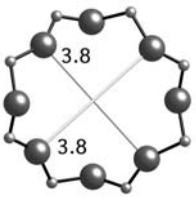
Type Material: Mg-STA-7 — SAV

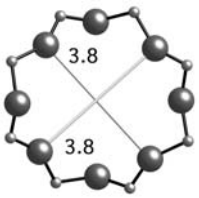
Type Material Data

Crystal chemical data: $|(C_{18}H_{42}N_6)_{1.96}\ (H_2O)_7|\ [Mg_{4.8}Al_{19.2}P_{24}O_{96}]$-**SAV**
$C_{18}H_{42}N_6$ = 1,4,7,10,13,16-hexamethyl-1,4,7,10,13,16-hexaazacyclooctadecane
tetragonal, *P*4/*n*, *a* = 18.773Å, *c* = 9.454Å [1]

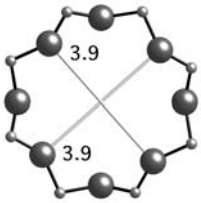
Framework density: 14.4 T/1000Å^3

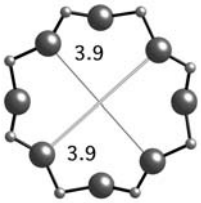
Channels: <100> **8** 3.8 x 3.8** ↔ [001] **8** 3.9 x 3.9*





8-ring viewed along <100>





8-ring viewed along [001]

References:

(1) Wright, P.A., Maple, M.J., Slawin, A.M.Z., Patinec, V., Aitken, R.A., Welsh, S. and Cox, P.A. *J. Chem. Soc., Dalton Trans.*, 1243-1248 (2000)