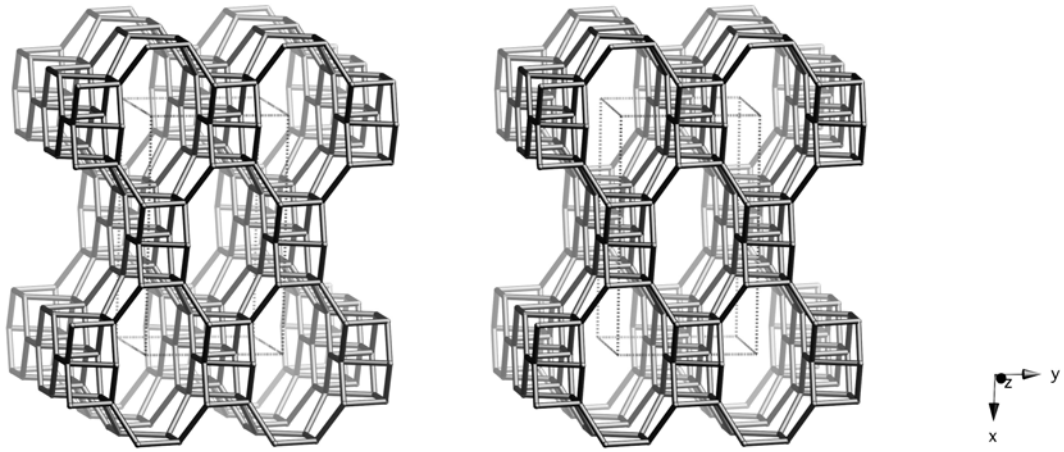
AHT

Cmcm

Framework Type Data



framework viewed along [001]

Idealized cell data: orthorhombic, *Cmcm*, a = 15.8Å, b = 9.2Å, c = 8.6Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	11	21	36	56	81	109	142	179	221	$4\cdot6_2\cdot6\cdot6_3\cdot6\cdot6_3$
T_2 (8,*m*)	4	10	18	32	53	78	105	140	179	218	$4\cdot6_3\cdot4\cdot6_3\cdot6\cdot6_4$

Secondary building units: 4-2 or 6

Composite building units:

dnc *bog*

double narsarsukite chain

Materials with this framework type:

*AlPO-H2[1-3]

Type Material: AlPO-H2 — AHT

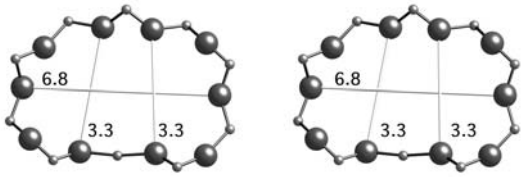
Type Material Data

Crystal chemical data: |$(H_2O)_8$| [$Al_6P_6O_{24}$]-**AHT**
monoclinic, $P2_1$, a = 9.486Å, b = 9.914Å, c = 8.126Å, γ = 121.49°[(1)]
(Relationship to unit cell of Framework Type:
$a' = a/(2\sin\gamma')$, $b' = b$, $c' = c$
or, as vectors, **a**' = (**a** - **b**)/2, **b**' = **b**, **c**' = **c**)

Stability: Transforms to $AlPO_4$-tridymite on heating [(3)]

Framework density: 18.4 T/1000Å^3

Channels: [001] **10** 3.3 x 6.8*



10-ring viewed along [001]

References:
(1) Higgins, J.B. private communication
(2) Li, H.X., Davis, M.E., Higgins, J.B. and Dessau, R.M. Chem. Commun., 403-405 (1993)
(3) Kennedy, G.J., Higgins, J.B., Ridenour, C.F., Li, H.X. and Davis, M.E. Solid State Nucl. Mag. Res., **4**, 173-178 (1995)