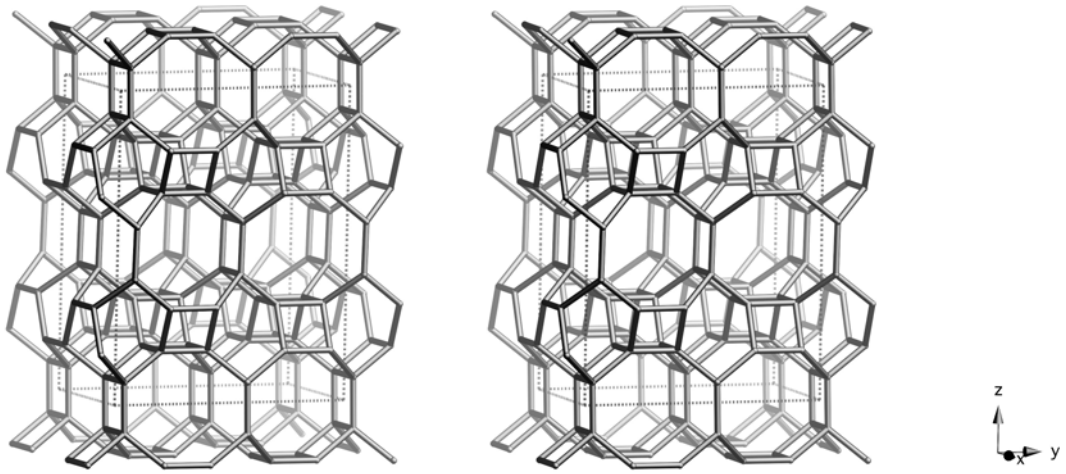
AWO

Cmce

Framework Type Data



framework viewed along [100]

Idealized cell data: orthorhombic, *Cmce*, a = 9.1Å, b = 15.0Å, c = 19.2Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	10	20	35	55	78	103	133	173	217	$4\cdot6_2\cdot4\cdot8_3\cdot6\cdot8_2$
T_2 (16,1)	4	10	21	36	53	76	108	142	173	210	$4\cdot6\cdot4\cdot8_2\cdot6\cdot8$
T_3 (16,1)	4	9	19	35	54	76	102	134	172	214	$4\cdot4\cdot4\cdot6\cdot8\cdot8_3$

Secondary building units: 6 or 4-2 or 4

Composite building units:

dcc
double
crankshaft chain

Materials with this framework type:

*AlPO-21[1,2]
[Ga-P-O]-**AWO**[3]

Type Material: AlPO-21 — AWO

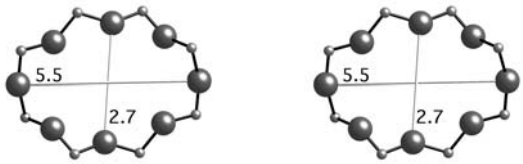
Type Material Data

Crystal chemical data: $|H_4\ (C_2H_7N)_{10.66}\ (C_3H_8)_{5.33}\ (OH)_4|\ [Al_{12}P_{12}O_{48}]$-**AWO**
C_2H_7N = dimethylamine, C_3H_8 = propane
monoclinic, $P2_1/a$
a = 10.330Å, b = 17.524Å, c = 8.676Å, β = 123.37° (1)
(Relationship to unit cell of Framework Type:
$a' = a$, $b' = c$, $c' = b/(2\sin\beta')$
or, as vectors, **a**' = **a**, **b**' = **c**, **c**' = (**b** - **a**)/2)

Stability: Transforms to AlPO-25 (**ATV**) upon calcination (2)

Framework density: 18.3 T/1000Å^3

Channels: [100] **8** 2.7 x 5.5*



8-ring viewed along [100]

References:
(1) Bennett, J.M., Cohen, J.M., Artioli, G., Pluth, J.J. and Smith, J.V. *Inorg. Chem.*, **24**, 188-193 (1985)
(2) Parise, J.B. and Day, C.S. *Acta Crystallogr.*, **C41**, 515-520 (1985)
(3) Parise, J.B. *Chem. Commun.*, 606-607 (1985)