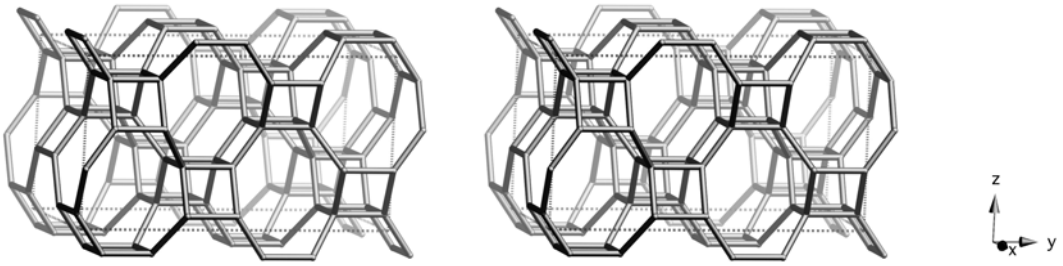
APC

Cmce

Framework Type Data



framework viewed along [100]

Idealized cell data: orthorhombic, *Cmce*, a = 9.0Å, b = 19.4Å, c = 10.4Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	9	19	35	53	75	102	132	168	208	$4{\cdot}4{\cdot}4{\cdot}8_2{\cdot}8{\cdot}8_2$
T_2 (16,1)	4	10	20	35	54	76	104	136	171	211	$4{\cdot}6{\cdot}4{\cdot}6{\cdot}6{\cdot}8_2$

Secondary building units: 8 or 4

Composite building units:

dcc
double
crankshaft chain

Materials with this framework type:

*AlPO-C[1,2]
AlPO-H3[3]
CoAPO-H3[4]

Type Material: AlPO-C — APC

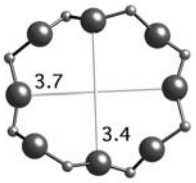
Type Material Data

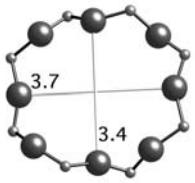
Crystal chemical data: **[**$Al_{16}P_{16}O_{64}$**]-APC**
orthorhombic, *Pbca*, *a* = 19.821Å, *b* = 10.028Å, *c* = 8.936Å (2)
(Relationship to unit cell of Framework Type: *a*' = *b*, *b*' = *c*, *c*' = *a*)

Stability: Transforms to AlPO-D at ca 250ºC (2)

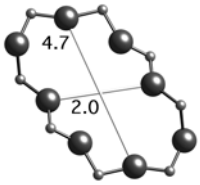
Framework density: 18 T/1000Å^3

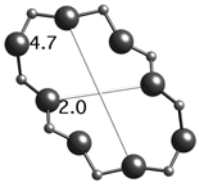
Channels: [001] **8** 3.4 x 3.7* ↔ [100] **8** 2.0 x 4.7*





8-ring viewed along [001]





distorted 8-ring viewed along [100]

References:

(1) Bennett, J.M., Dytrych, W.J., Pluth, J.J., Richardson Jr., J.W. and Smith, J.V. *Zeolites*, **6**, 349-359 (1986)
(2) Keller, E.B., Meier, W.M. and Kirchner, R.M. *Solid State Ionics*, **43**, 93-102 (1990)
(3) Pluth, J.J. and Smith, J.V. *Acta Crystallogr.*, **C42**, 1118-1120 (1986)
(4) Canesson, L., Arcon, I., Caldarelli, S. and Tuel, A. *Microporous Mesoporous Mat.*, **26**, 117-131 (1998)