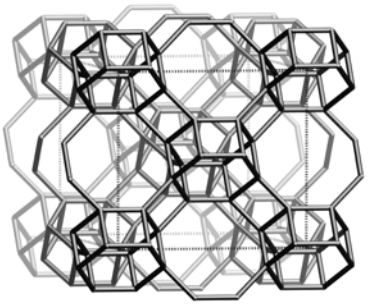
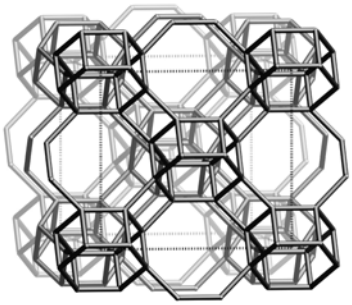
AEI

Cmcm

Framework Type Data





framework viewed along [001]

Idealized cell data: orthorhombic, *Cmcm*, a = 13.7Å, b = 12.6Å, c = 18.5Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	9	17	29	45	64	85	111	143	177	4·4·4·8·6·8
T_2 (16,1)	4	9	17	29	45	65	88	113	143	178	4·4·4·8·6·8
T_3 (16,1)	4	9	17	29	45	65	87	113	143	176	4·4·4·8·6·8

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

Composite building units:

d6r

Materials with this framework type:

*AlPO-18[1]
[Co-Al-P-O]-**AEI**[2]
SAPO-18[3]
SIZ-8[4]
SSZ-39[5]

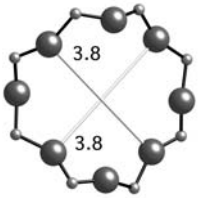
Type Material: AlPO-18 — AEI

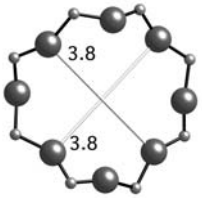
Type Material Data

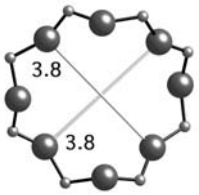
Crystal chemical data: $[Al_{24}P_{24}O_{96}]$-**AEI**
monoclinic, *C*2/*c*
a = 13.711Å, *b* = 12.732Å, *c* = 18.571Å, β = 90.01° (1)

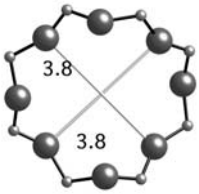
Framework density: 14.8 T/1000Å^3

Channels: {[100] **8** 3.8 x 3.8 ↔ [110] **8** 3.8 x 3.8 ↔ [001] **8** 3.8 x 3.8}***

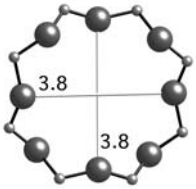


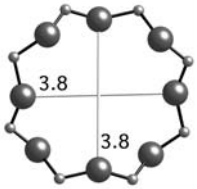






8-ring viewed along [100] *8-ring viewed along [110]*





8-ring viewed along [001]

References:
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(2) Marchese, L., Chen, J.S., Thomas, J.M., Coluccia, S. and Zecchina, A. *J. Phys. Chem.*, **98**, 13350-13356 (1994)
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(4) Parnham, E.R. and Morris, R.E. *J. Am. Chem. Soc.*, **128**, 2204-2205 (2006)
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