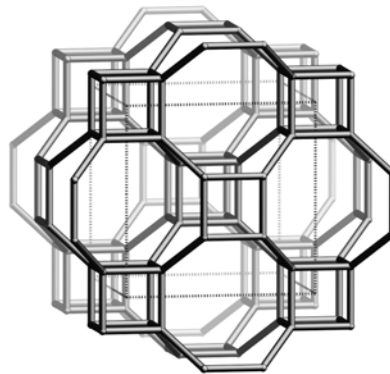
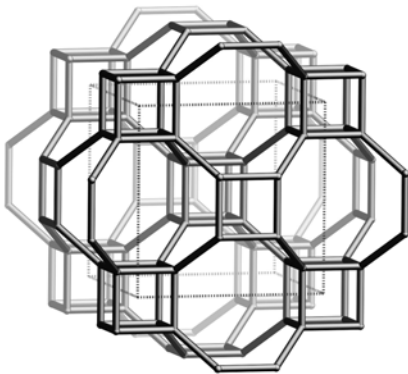


Framework Type Data



framework viewed along [001]

Idealized cell data: cubic, $Im\bar{3}m$, $a = 9.9\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(16,3m)$ 4 9 19 35 52 72 100 131 163 201

$4\cdot 8_2\cdot 4\cdot 8_2\cdot 4\cdot 8_2$

Secondary building units: 8 or 4-4 or 4

Composite building units:

$d4r$



Materials with this framework type:

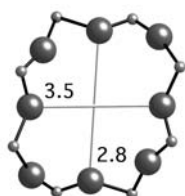
*ACP-1⁽¹⁾

Type Material Data

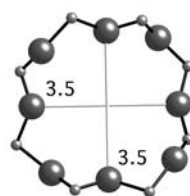
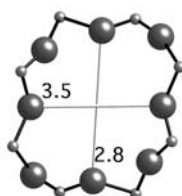
Crystal chemical data: $\text{K}(\text{C}_2\text{H}_{10}\text{N}_2)_4(\text{H}_2\text{O})_2[\text{Al}_{0.88}\text{Co}_{7.12}\text{P}_8\text{O}_{32}]\text{-ACO}$
 $\text{C}_2\text{H}_{10}\text{N}_2$ = ethylenediammonium
 tetragonal, $\bar{I}42m$, $a = 10.240\text{\AA}$, $c = 9.652\text{\AA}$ ⁽¹⁾

Framework density: $15.8 \text{ T}/1000\text{\AA}^3$

Channels: $\langle 100 \rangle$ 8 2.8 x 3.5** \leftrightarrow $[001]$ 8 3.5 x 3.5*



8-ring viewed along $\langle 100 \rangle$



8-ring viewed along $[001]$

References:

(1) Feng, P., Bu, X. and Stucky, G.D. *Nature*, **388**, 735-741 (1997)