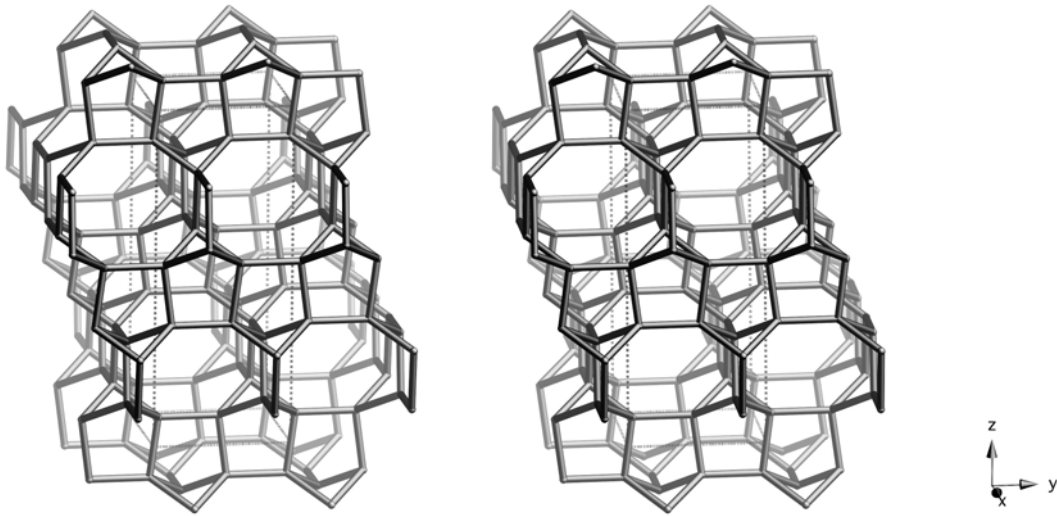


Framework Type Data



framework viewed along [100]

Idealized cell data: tetragonal, $I4_1/amd$ (origin choice 2), $a = 7.1 \text{ \AA}$, $c = 17.8 \text{ \AA}$

Coordination sequences and vertex symbols:

$T_1(16,m)$ 4 11 23 44 67 95 134 168 215 271

$4 \cdot 5_2 \cdot 5 \cdot 8_2 \cdot 5 \cdot 8_2$

Secondary building units: 4

Materials with this framework type:

*Montesommaite⁽¹⁾

[Al-Ge-O]-MON⁽²⁾

Type Material: Montessonmaite

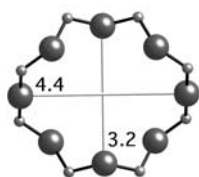
MON

Type Material Data

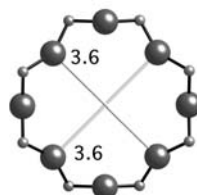
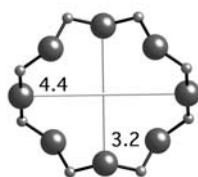
Crystal chemical data: $[(K,Na)_{4.5}(H_2O)_5] [Al_{4.5}Si_{11.5}O_{32}]$ -MON
tetragonal, $I4_1/amd$, $a = 7.141 \text{ \AA}$, $c = 17.307 \text{ \AA}$ ⁽¹⁾

Framework density: 18.1 T/1000 \AA^3

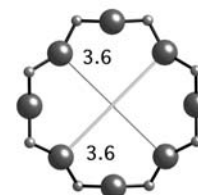
Channels: $[100] \text{ 8 } 3.2 \times 4.4^* \leftrightarrow [001] \text{ 8 } 3.6 \times 3.6^*$



8-ring viewed along [100]



8-ring viewed along [001]



References:

- (1) Rouse, R.C., Dunn, P.J., Grice, J.D., Schlenker, J.L. and Higgins, J.B. *Am. Mineral.*, **75**, 1415-1420 (1990)
- (2) Tripathi, A. and Parise, J.B. *Microporous Mesoporous Mat.*, **52**, 65-78 (2002)