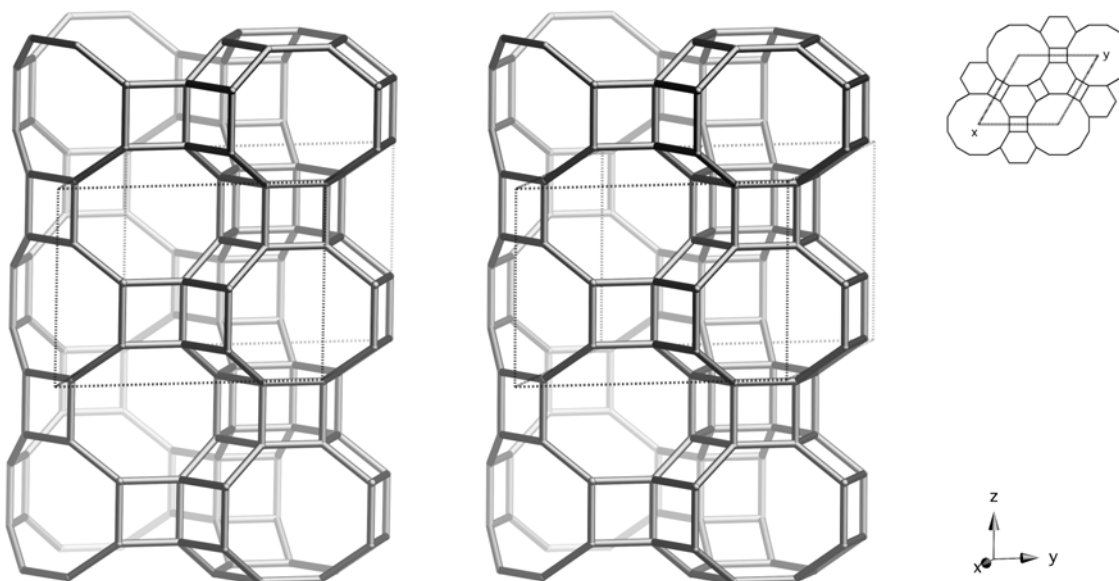


Framework Type Data



framework viewed normal to [001] (upper right: projection down [001])

Idealized cell data: hexagonal, $P6_3/mmc$, $a = 13.7\text{\AA}$, $c = 9.9\text{\AA}$

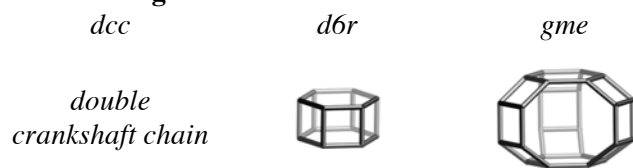
Coordination sequences and vertex symbols:

$T_1(24,1)$ 4 9 17 29 45 65 89 116 144 175 4-4-4-8-6-8

Secondary building units: 12 or 6-6 or 8 or 6 or 4-2 or 4

Framework description: AABB sequence of 6-rings

Composite building units:



Materials with this framework type:

*Gmelinite⁽¹⁾

[Be-P-O]-GME⁽²⁾

K-rich gmelinite⁽³⁾

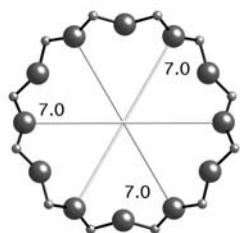
Synthetic fault-free gmelinite⁽⁴⁾

Type Material Data

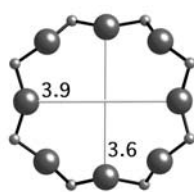
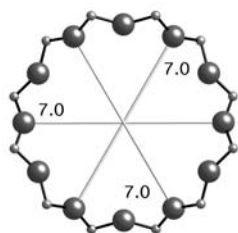
Crystal chemical data: $[(\text{Ca}, \text{Na}_2)_4 (\text{H}_2\text{O})_{24}] [\text{Al}_8\text{Si}_{16}\text{O}_{48}]$ -GME
hexagonal, $P6_3/mmc$, $a = 13.75 \text{ \AA}$, $c = 10.05 \text{ \AA}$ ⁽¹⁾

Framework density: 14.6 T/1000 \AA^3

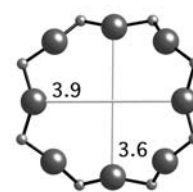
Channels: [001] **12** 7.0 x 7.0* \leftrightarrow \perp [001] **8** 3.6 x 3.9**



12-ring viewed along [001]



8-ring viewed normal to [001]

**References:**

- (1) Fischer, K. *N. Jb. Miner. Mh.*, 1-13 (1966)
- (2) Zhang, H., Chen, M., Shi, Z., Bu, X., Zhou, Y., Xu, X. and Zhao, D. *Chem. Mater.*, **13**, 2042-2048 (2001)
- (3) Vezzalini, G., Quartieri, S. and Passaglia, E. *N. Jb. Miner. Mh.*, 504-516 (1990)
- (4) Daniels, R.H., Kerr, G.T. and Rollmann, L.D. *J. Am. Chem. Soc.*, **100**, 3097-3100 (1978)