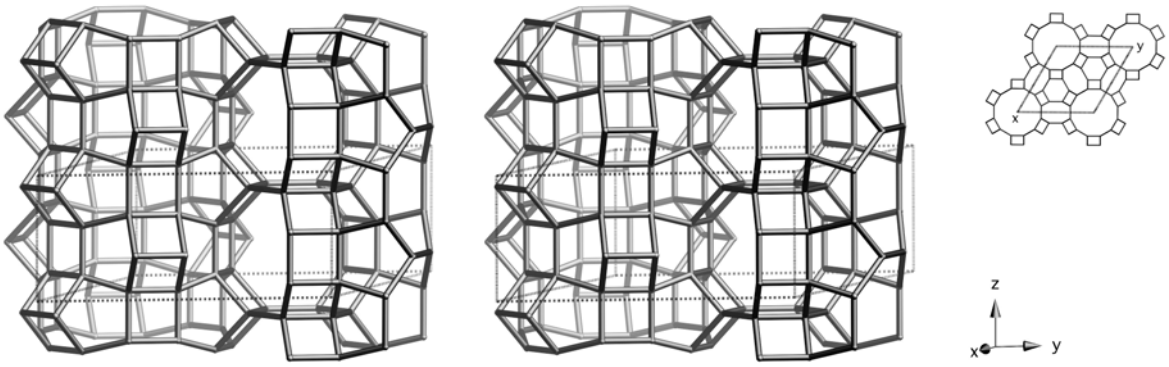
MAZ

P*6$_3$/*mmc

Framework Type Data



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

Idealized cell data: hexagonal, *P*6$_3$/*mmc*, *a* = 18.1Å, *c* = 7.6Å

Coordination sequences and vertex symbols:

T_1 (24,1)	4	10	20	35	54	78	104	134	171	210	4·5·4·5·8·12
T_2 (12,*m*)	4	10	21	36	53	74	104	138	174	212	$4\cdot8_2\cdot4\cdot8_2\cdot5\cdot6$

Secondary building units: 5-1 or 4-2

Composite building units:

dsc *gme*

double sawtooth chain

Materials with this framework type:

*Mazzite[1,2]
[Ga-Si-O]-**MAZ**[3]
LZ-202[4]
Mazzite-Na, Boron, CA[5]
Omega[6,7]
ZSM-4[8]

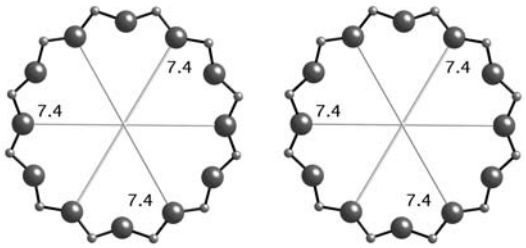
Type Material: Mazzite **MAZ**

Type Material Data

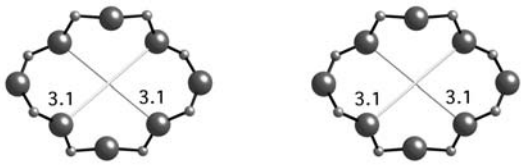
Crystal chemical data: $|(Na_2,K_2,Ca,Mg)_5\ (H_2O)_{28}|\ [Al_{10}Si_{26}O_{72}]$-**MAZ**
hexagonal, $P6_3/mmc$, $a =$ 18.392Å, $c =$ 7.646Å [2]

Framework density: 16.1 T/1000Å^3

Channels: [001] **12** 7.4 x 7.4* | [001] **8** 3.1 x 3.1***



12-ring viewed along [001]



limiting 8-ring along [001]

References:

(1) Galli, E. *Cryst. Struct. Comm.*, **3**, 339-344 (1974)
(2) Galli, E. *Rend. Soc. Ital. Mineral. Petrol.*, **31**, 599-612 (1975)
(3) Newsam, J.M., Jarman, R.H. and Jacobson, A.J. *Mater. Res. Bull.*, **20**, 125-136 (1985)
(4) Breck, D.W. and Skeels, G.W. *U.S. Patent 4,503,023* (1985)
(5) Arletti, R., Galli, E., Vezzalini, G. and Wise, W.S. *Am. Mineral.*, **90**, 1186-1191 (2005)
(6) Galli, E. *Cryst. Struct. Comm.*, **3**, 339-344 (1974)
(7) Martucci, A., Alberti, A., Guzman-Castillo, M.D., Di Renzo, F. and Fajula, F. *Microporous Mesoporous Mat.*, **63**, 33-42 (2003)
(8) Rubin, M.K., Plank, C.J. and Rosinski, E.J. *U.S. Patent 4,021,447* (1977)