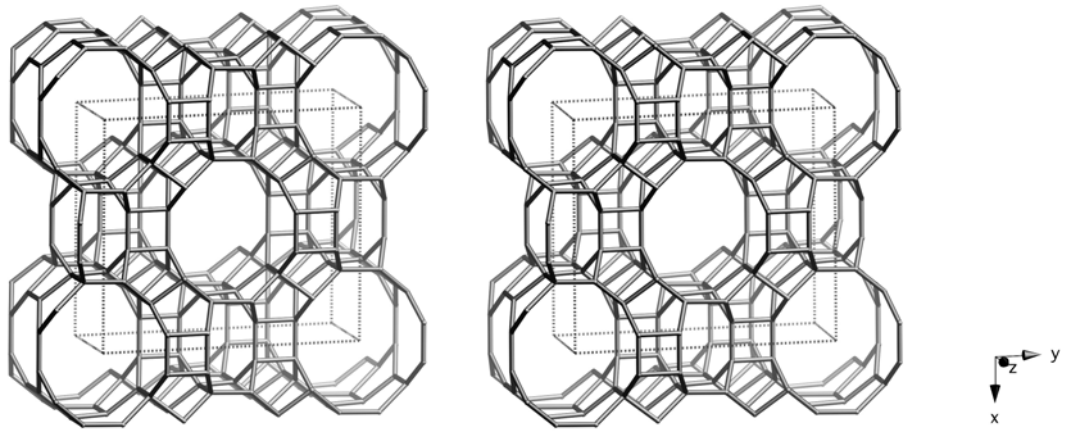
MOR

Cmcm

Framework Type Data



framework viewed along [001]

Idealized cell data: orthorhombic, *Cmcm*, a = 18.3Å, b = 20.5Å, c = 7.5Å

Coordination sequences and vertex symbols:

T_1 (16,1)	4	12	22	38	60	88	115	155	204	242	$5{\cdot}5{\cdot}5{\cdot}5_2{\cdot}8{\cdot}12$
T_2 (16,1)	4	12	20	37	64	87	114	154	198	241	$5{\cdot}5{\cdot}5{\cdot}5_2{\cdot}5{\cdot}8$
T_3 (8,*m*)	4	11	24	39	54	86	126	156	195	242	$4{\cdot}5_2{\cdot}5{\cdot}8_2{\cdot}5{\cdot}8_2$
T_4 (8,*m*)	4	11	24	39	60	92	122	148	195	250	$4{\cdot}5_2{\cdot}5{\cdot}8{\cdot}5{\cdot}8$

Secondary building units: 5-1

Composite building units:

mor

Materials with this framework type:

*Mordenite[1]
[Ga-Si-O]-**MOR**[2]
Ca-Q[3]
LZ-211[4]
Large port mordenite[5]
Maricopaite (interrupted framework)[6]
Mordenite, USA[7]
Na-D[8]

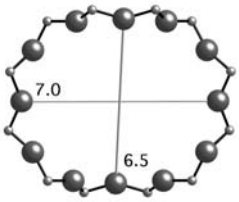
Type Material: Mordenite — MOR

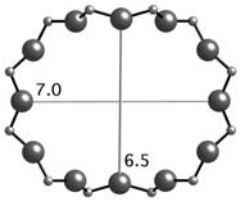
Type Material Data

Crystal chemical data: $|Na_8(H_2O)_{24}|[Al_8Si_{40}O_{96}]$-**MOR**
orthorhombic, *Cmcm*, *a* = 18.1Å, *b* = 20.5Å, *c* = 7.5 Å [(1)]

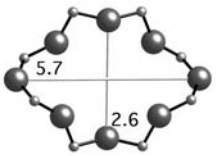
Framework density: 17.2 T/1000Å^3

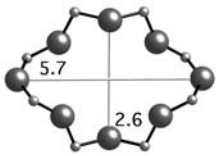
Channels: [001] **12** 6.5 x 7.0* ↔ [001] **8** 2.6 x 5.7***





12-ring viewed along [001]





limiting 8 ring along [001] between 12-ring channels

References:
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(3) Koizumi, M. and Roy, R. *J. Geol.*, **68**, 41-53 (1960)
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