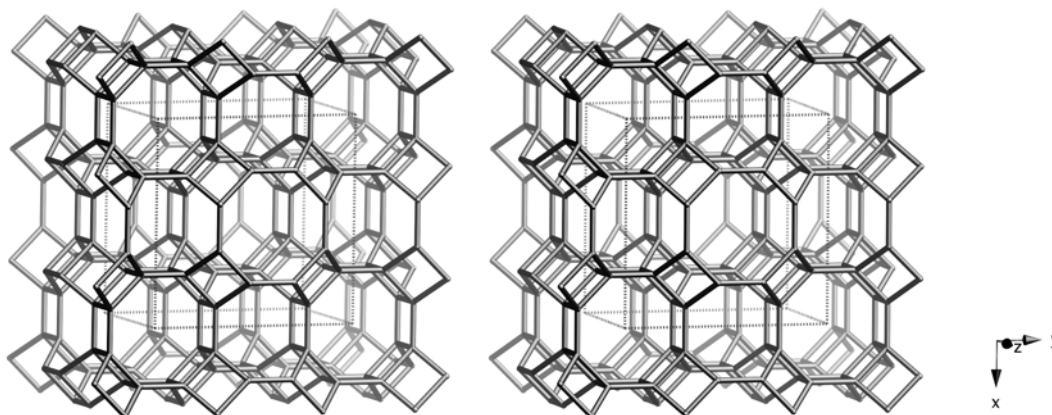


Framework Type Data



framework viewed along [001]

Idealized cell data: tetragonal, $I4/mmm$, $a = 14.0\text{\AA}$, $c = 10.0\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(32,1)$ 4 9 18 32 49 69 93 121 153 189

4·4·4·8₂·8·8

Secondary building units: 8-8 or 8 or 4

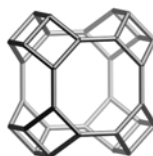
Composite building units:

dcc

d8r

pau

*double
crankshaft chain*



Materials with this framework type:

*Merlinoite^(1,2)

[Al-Co-P-O]-MER⁽³⁾

[Ga-Al-Si-O]-MER⁽⁴⁾

IBa-I[Al-Si-O]-MER⁽⁵⁾

IBa-Cl-I[Al-Si-O]-MER⁽⁶⁾

IK-I[Al-Si-O]-MER⁽⁷⁾

$\text{INH}_4\text{-I}[\text{Be-P-O}]\text{-MER}^{(8)}$

K-M^(5,9)

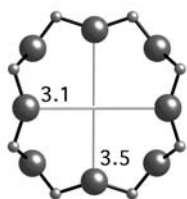
Linde W^(5,10)

Synthetic merlinoite⁽¹¹⁾

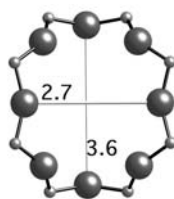
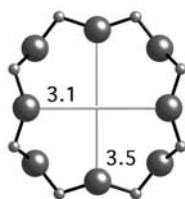
Zeolite W⁽¹²⁾

Type Material Data

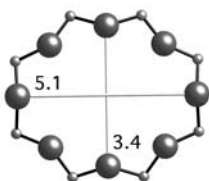
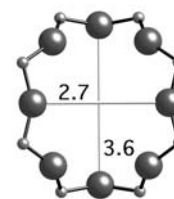
Crystal chemical data:	$\text{K}_5\text{Ca}_2(\text{H}_2\text{O})_{24}[\text{Al}_9\text{Si}_{23}\text{O}_{64}]$ -MER orthorhombic, <i>Immm</i> , $a = 14.116\text{\AA}$, $b = 14.229\text{\AA}$, $c = 9.946\text{\AA}$ ⁽²⁾ (Relationship to unit cell of Framework Type: $a' = b' = a$, $c' = c$)
Framework density:	16 T/1000 \AA^3
Channels:	[100] 8 3.1 x 3.5* \leftrightarrow [010] 8 2.7 x 3.6* \leftrightarrow [001] {8 3.4 x 5.1* + 8 3.3 x 3.3*}



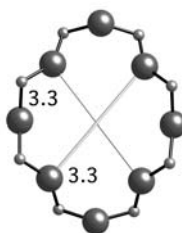
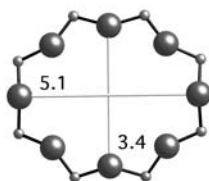
8-ring viewed along [100]



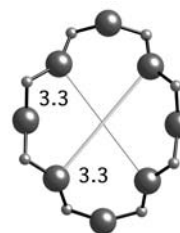
8-ring viewed along [010]



8-ring viewed along [001]



2nd 8-ring viewed along [001]



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