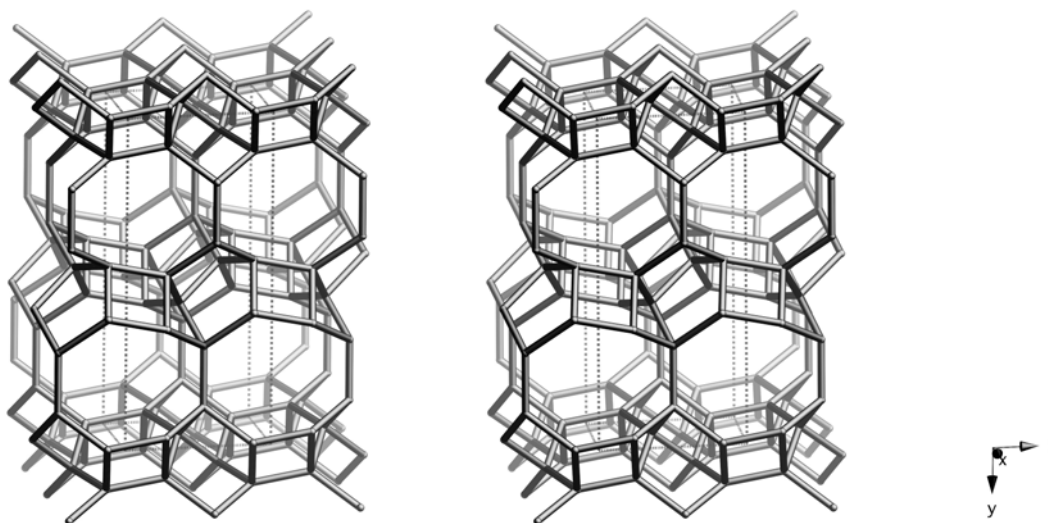


Framework Type Data



framework viewed along [100]

Idealized cell data: monoclinic, $P2_1/m$, $a = 6.8\text{\AA}$, $b = 17.1\text{\AA}$, $c = 7.6\text{\AA}$, $\beta = 95.8^\circ$

Coordination sequences and vertex symbols:

$T_1(4,1)$	4	10	20	37	61	83	110	144	192	238	4·5·4·6·5·8
$T_2(4,1)$	4	10	20	36	61	85	107	147	191	234	4·5·4·8·5·6
$T_3(4,1)$	4	11	23	37	54	82	119	152	184	233	4·8·5·8·5·8 ₂
$T_4(4,1)$	4	11	18	37	62	85	110	147	195	236	4·5 ₂ ·5·6·5·8

Secondary building units: 4

Composite building units:

bre

**Materials with this framework type:**

*Brewsterite^(1,2)

Ba-dominant brewsterite⁽³⁾

CIT-4⁽⁴⁾

Dehyd. brewsterite⁽⁵⁾

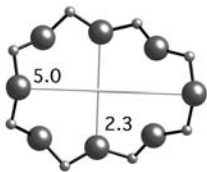
Synthetic brewsterite⁽⁶⁾

Type Material: Brewsterite

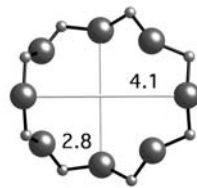
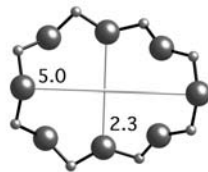
BRE

Type Material Data

Crystal chemical data:	$(\text{Ba,Sr})_2 (\text{H}_2\text{O})_{10} [\text{Al}_4\text{Si}_{12}\text{O}_{32}]$ -BRE monoclinic, $P2_1/m$ $a = 6.793\text{\AA}$, $b = 17.573\text{\AA}$, $c = 7.759\text{\AA}$, $\beta = 94.54^\circ$ ⁽²⁾
Framework density:	17.3 T/1000 \AA^3
Channels:	[100] 8 2.3 x 5.0* \leftrightarrow [001] 8 2.8 x 4.1*



8-ring viewed along [100]



8-ring viewed along [001]

References:

- (1) Perrotta, A.J. and Smith, J.V. *Acta Crystallogr.*, **17**, 857-862 (1964)
- (2) Schlenker, J.L., Pluth, J.J. and Smith, J.V. *Acta Crystallogr.*, **B33**, 2907-2910 (1977)
- (3) Cabella, R., Lucchetti, G., Palenzona, A., Quartieri, S. and Vezzalini, G. *Eur. J. Mineral.*, **5**, 353-360 (1993)
- (4) Khodabandeh, S., Lee, G. and Davis, M.E. *Microporous Mesoporous Mat.*, **11**, 87-95 (1997)
- (5) Ståhl, K. and Hanson, J.C. *Microporous Mesoporous Mat.*, **32**, 147-158 (1999)
- (6) Ghobarkar, H. and Schaef, O. *German Patent AZ 198 24 184.4-41* (1999)