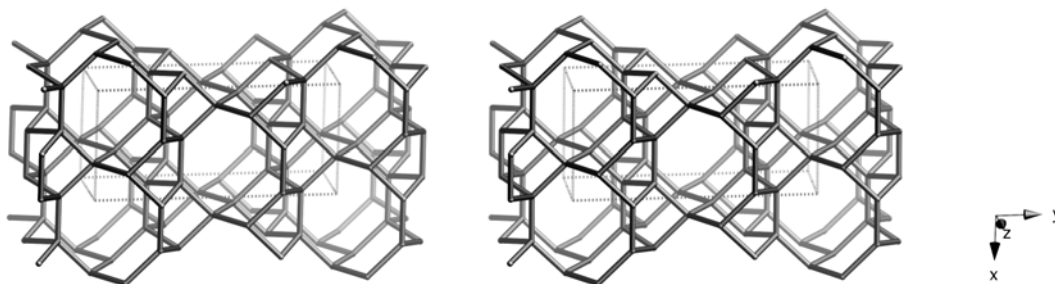


## Framework Type Data



framework viewed along [001]

**Idealized cell data:** orthorhombic, *Cmcm*,  $a = 7.5\text{\AA}$ ,  $b = 16.2\text{\AA}$ ,  $c = 5.3\text{\AA}$

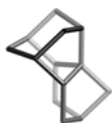
**Coordination sequences and vertex symbols:**

$T_1 (8,m)$	4	12	23	43	71	97	128	179	226	264	$5\cdot5\cdot5\cdot5\cdot6\cdot8_2$
$T_2 (4,m2m)$	4	12	26	42	66	102	140	164	216	288	$5_2\cdot6_2\cdot6\cdot6\cdot6\cdot6$

**Secondary building units:** 5-1

**Composite building units:**

*bik*

**Materials with this framework type:**

\*Bikitaite<sup>(1,2)</sup>

[Cs-I][Al-Si-O]-**BIK**<sup>(3)</sup>

Triclinic bikitaite<sup>(4)</sup>

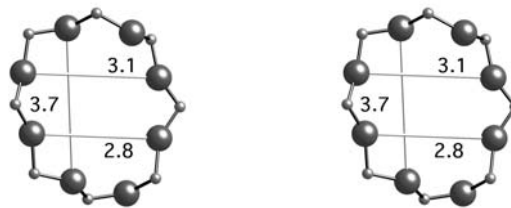
## Type Material: Bikitaite

## Type Material Data

**Crystal chemical data:**  $[\text{Li}_2(\text{H}_2\text{O})_2] [\text{Al}_2\text{Si}_4\text{O}_{12}]$ -BIK  
 triclinic,  $P1$ ,  $a = 8.607\text{\AA}$ ,  $b = 4.954\text{\AA}$ ,  $c = 7.597\text{\AA}$   
 $\alpha = 89.90^\circ$ ,  $\beta = 114.44^\circ$ ,  $\gamma = 89.99^\circ$  (2)  
 (Relationship to unit cell of Framework Type:  
 $a' = b/(2\sin\beta')$ ,  $b' = c$ ,  $c' = a$   
 or, as vectors,  $\mathbf{a}' = (\mathbf{b} - \mathbf{a})/2$ ,  $\mathbf{b}' = \mathbf{c}$ ,  $\mathbf{c}' = \mathbf{a}$ )

**Framework density:** 20.3 T/1000 $\text{\AA}^3$

**Channels:** [010] 8 2.8 x 3.7\*



8-ring viewed along [010]

## References:

- (1) Kocman, V., Gait, R.I. and Rucklidge, J. *Am. Mineral.*, **59**, 71-78 (1974)
- (2) Ståhl, K., Kvik, Å. and Ghose, S. *Zeolites*, **9**, 303-311 (1989)
- (3) Annehed, H. and Fälvh, L. *Z. Kristallogr.*, **166**, 301-306 (1984)
- (4) Bissert, G. and Liebau, L. *N. Jb. Miner. Mh.*, 241-252 (1986)