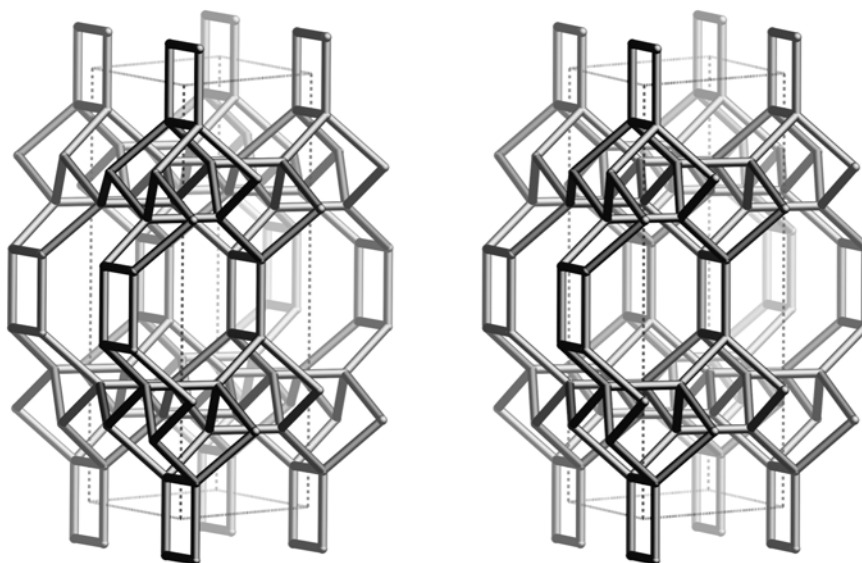


## Framework Type Data



framework viewed along [001]



**Idealized cell data:** monoclinic,  $C2/m$ ,  $a = 9.1\text{\AA}$ ,  $b = 17.5\text{\AA}$ ,  $c = 10.4\text{\AA}$ ,  $\beta = 124.9^\circ$

**Coordination sequences and vertex symbols:**

$T_1(8,1)$	4	11	24	42	63	93	127	160	206	262	$4\cdot5_2\cdot5\cdot8\cdot5\cdot8$
$T_2(8,1)$	4	12	22	37	64	94	119	161	204	252	$5\cdot5\cdot5\cdot5_2\cdot8\cdot10_2$
$T_3(8,1)$	4	12	20	39	66	90	118	164	214	245	$5\cdot5\cdot5\cdot5_2\cdot5\cdot8$

**Secondary building units:** 5-1

**Composite building units:**

*mor*

**Materials with this framework type:**

\*Epistilbite<sup>(1-4)</sup>

Synthetic epistilbite<sup>(5)</sup>

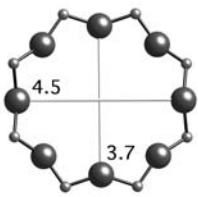
## Type Material: Epistilbite

### Type Material Data

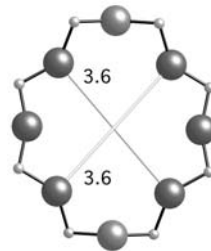
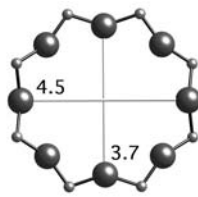
**Crystal chemical data:**  $[\text{Ca}_3(\text{H}_2\text{O})_{16}][\text{Al}_6\text{Si}_{18}\text{O}_{48}]$ -EPI  
 monoclinic,  $C2/m$   
 $a = 9.08\text{\AA}$ ,  $b = 17.74\text{\AA}$ ,  $c = 10.25\text{\AA}$ ,  $\beta = 124.54^\circ$  (2)

**Framework density:**  $17.6 \text{ T}/1000\text{\AA}^3$

**Channels:**  $\{[001] \mathbf{8} \ 3.7 \times 4.5 \leftrightarrow [100] \mathbf{8} \ 3.6 \times 3.6\}^{**}$   
 (The 8-ring along [100] is tilted and has its normal along [101].)



*8-ring viewed along [001]*



*8-ring viewed along [101]*

### References:

- (1) Kerr, I.S. *Nature*, **202**, 589 (1964)
- (2) Perrotta, A.J. *Mineral. Mag.*, **36**, 480-490 (1967)
- (3) Alberti, A., Galli, E. and Vezzalini, G. *Z. Kristallogr.*, **173**, 257-265 (1985)
- (4) Yang, P. and Armbruster, T. *Eur. J. Mineral.*, **8**, 263-271 (1996)
- (5) Ghobarkar, H. *Cryst. Res. Technol.*, 151-1573 (1984)