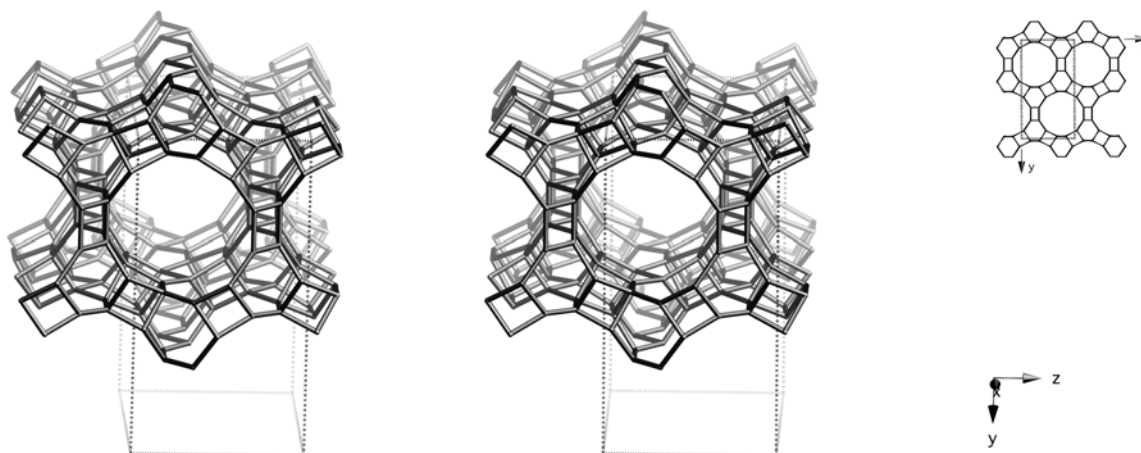


## Framework Type Data



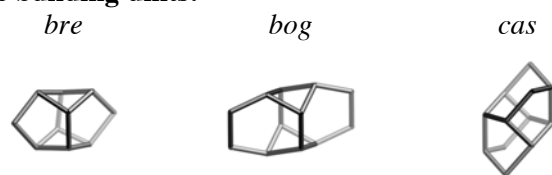
framework viewed along [100] (upper right: projection down [100])

**Idealized cell data:** orthorhombic, *Imma*,  $a = 20.0\text{\AA}$ ,  $b = 23.6\text{\AA}$ ,  $c = 12.7\text{\AA}$

**Coordination sequences and vertex symbols:**

$T_1(16,1)$	4	10	19	32	51	74	101	129	158	199	$4\cdot5\cdot4\cdot6\cdot5\cdot12_2$
$T_2(16,1)$	4	10	20	32	48	74	104	131	159	195	$4\cdot5\cdot4\cdot6_2\cdot10\cdot12$
$T_3(16,1)$	4	11	19	34	50	71	98	133	162	195	$4\cdot5_2\cdot5\cdot6\cdot5\cdot10_3$
$T_4(16,1)$	4	11	21	32	49	74	101	128	162	200	$4\cdot10_5\cdot5\cdot6_3\cdot5\cdot6_3$
$T_5(16,1)$	4	11	20	31	53	76	97	126	168	199	$4\cdot5\cdot5\cdot6_2\cdot5\cdot10$
$T_6(16,1)$	4	11	18	31	52	75	100	126	158	206	$4\cdot5\cdot5\cdot6\cdot5\cdot6_2$

**Secondary building units:** 6 or 5-1 or 4

**Composite building units:****Materials with this framework type:**

- \*Boggsite<sup>(1)</sup>
- Dehyd. boggsite<sup>(2)</sup>

## Type Material: Boggsite

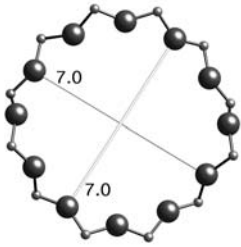
# BOG

### Type Material Data

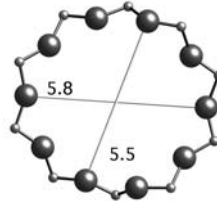
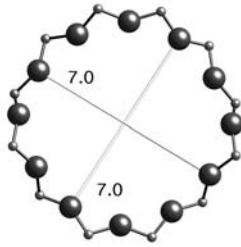
**Crystal chemical data:**  $[\text{Ca}_7\text{Na}_4(\text{H}_2\text{O})_{74}][\text{Al}_{18}\text{Si}_{78}\text{O}_{192}]$ -BOG  
orthorhombic, *Imma*,  $a = 20.236\text{\AA}$ ,  $b = 23.798\text{\AA}$ ,  $c = 12.798\text{\AA}$  <sup>(1)</sup>

**Framework density:** 15.6 T/1000 $\text{\AA}^3$

**Channels:** [100] **12** 7.0 x 7.0\*  $\leftrightarrow$  [010] **10** 5.5 x 5.8\*



*12-ring viewed along [100]*



*10-ring viewed along [010]*

### References:

- (1) Pluth, J.J. and Smith, J.V. *Am. Mineral.*, **75**, 501-507 (1990)
- (2) Zanardi, S., Cruciani, G., Alberti, A. and Galli, E. *Am. Mineral.*, **89**, 1033-1042 (2004)