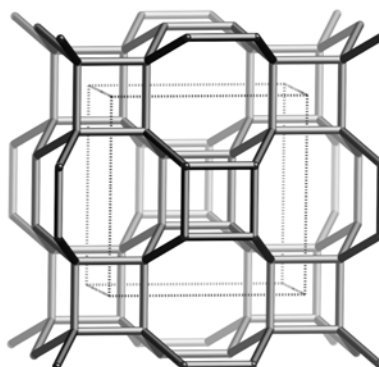
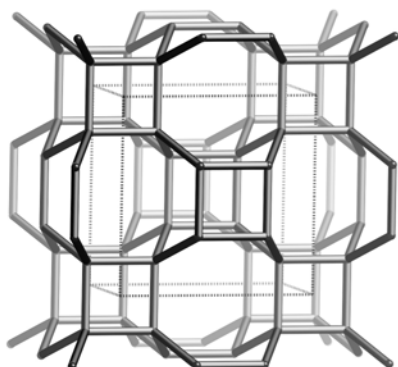


**BCT***I4/mmm*

## Framework Type Data

*framework viewed along [001]***Idealized cell data:** tetragonal, *I4/mmm*,  $a = 9.0\text{\AA}$ ,  $c = 5.3\text{\AA}$ **Coordination sequences and vertex symbols:**

$T_1(8,m,2m)$	4	11	24	41	62	90	122	157	200	247
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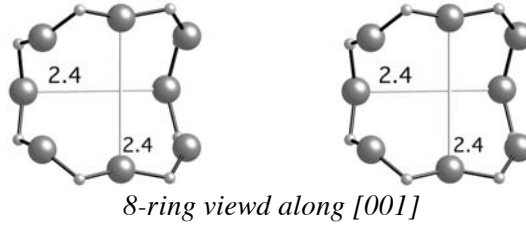
4-6<sub>2</sub>·6·6·6·6**Secondary building units:** 8 or 4**Composite building units:***lau***Materials with this framework type:**\*Mg-BCTT<sup>(1)</sup>|Ca-|[Al-Si-O]-BCT<sup>(2)</sup>Fe(III)-BCTT<sup>(1)</sup>Metavariscite<sup>(3)</sup>Svyatoslavite<sup>(4)</sup>Zn-BCTT<sup>(1)</sup>

## Type Material: Mg-BCTT

# BCT

### Type Material Data

<b>Crystal chemical data:</b>	$\text{K}_{4.56}[\text{Mg}_{2.28}\text{Si}_{5.72}\text{O}_{16}]\text{-BCT}$ tetragonal, $I4mm$ , $a = 8.957\text{\AA}$ , $c = 5.281\text{\AA}$ <sup>(1)</sup>
<b>Framework density:</b>	18.9 T/1000 $\text{\AA}^3$
<b>Channels:</b>	[001] <b>8</b> 2.4 x 2.4*



### References:

- (1) Dollase, W.A. and Ross, C.R. *Am. Mineral.*, **78**, 627-632 (1993)
- (2) Takeuchi, Y., Haga, N. and Ito, J. *Z. Kristallogr.*, **137**, 380-398 (1973)
- (3) Kniep, R. and Mootz, D. *Acta Crystallogr.*, **B29**, 2292-2294 (1973)
- (4) Chesnokov, B.V., Lotova, E.V., Pavlyuchenko, V.S., Usova, L.V., Bushmakin, A.F. and Nishanbayev, T.P. *Zap. Vses. Mineral. Obshch. (Am. Mineral.* 76, 299-301 (1991)), **118**, 111-114 (1989)