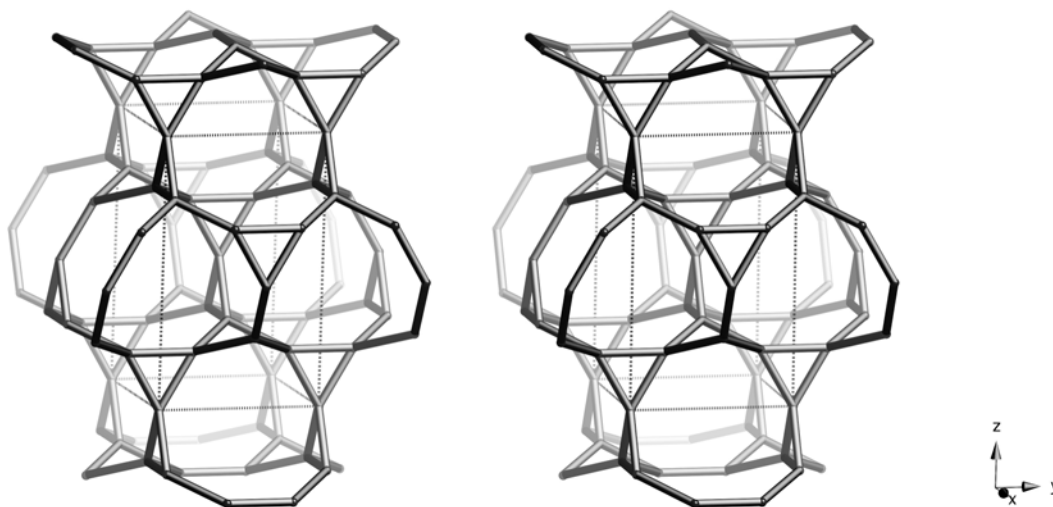


Framework Type Data



framework viewed along [100]

Idealized cell data: tetragonal, $\bar{4}m2$, $a = 7.2\text{\AA}$, $c = 12.0\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(8, m.)$	4	9	19	40	55	80	115	138	183	229	260	328	$3\cdot 4\cdot 8\cdot 9_4\cdot 8\cdot 9_4$
$T_2(2, \bar{4}m2)$	4	8	20	40	52	82	116	132	184	236	252	322	$3\cdot 3\cdot 9_4\cdot 9_4\cdot 9_4\cdot 9_4$

Secondary building units: 4-1

Composite building units:

lov

vsv



Materials with this framework type:

*Nabesite⁽¹⁾

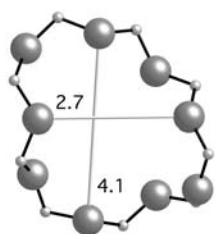
Type Material Data

Crystal chemical data: $\text{[Na}_8(\text{H}_2\text{O})_{16}\text{][Be}_4\text{Si}_{16}\text{O}_{40}\text{]-NAB}$
 orthorhombic, $P2_12_12_1$, $a = 9.748\text{\AA}$, $b = 10.133\text{\AA}$, $c = 11.954\text{\AA}$ ⁽¹⁾
 (Relationship to unit cell of Framework Type:
 $a' = a\sqrt{2}$, $b' = b\sqrt{2}$, $c' = c$
 or, as vectors, $\mathbf{a}' = \mathbf{a} + \mathbf{b}$, $\mathbf{b}' = \mathbf{b} - \mathbf{a}$, $\mathbf{c}' = \mathbf{c}$)

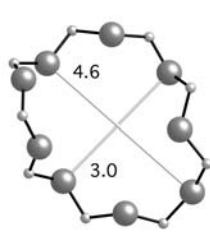
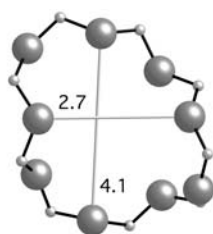
Stability: reversable dehydration ⁽¹⁾

Framework density: $16.9 \text{ T}/1000\text{\AA}^3$

Channels: $[110] \text{ } 9 \text{ } 2.7 \times 4.1^* \leftrightarrow [\bar{1}\bar{1}0] \text{ } 9 \text{ } 3.0 \times 4.6^*$



9-ring viewed along $[110]$



9-ring viewed along $[\bar{1}\bar{1}0]$

References:

(1) Petersen, O.V., Giester, G., Brandstätter, F. and Niedermayr, G. *Can. Mineral.*, **40**, 173-181 (2002)