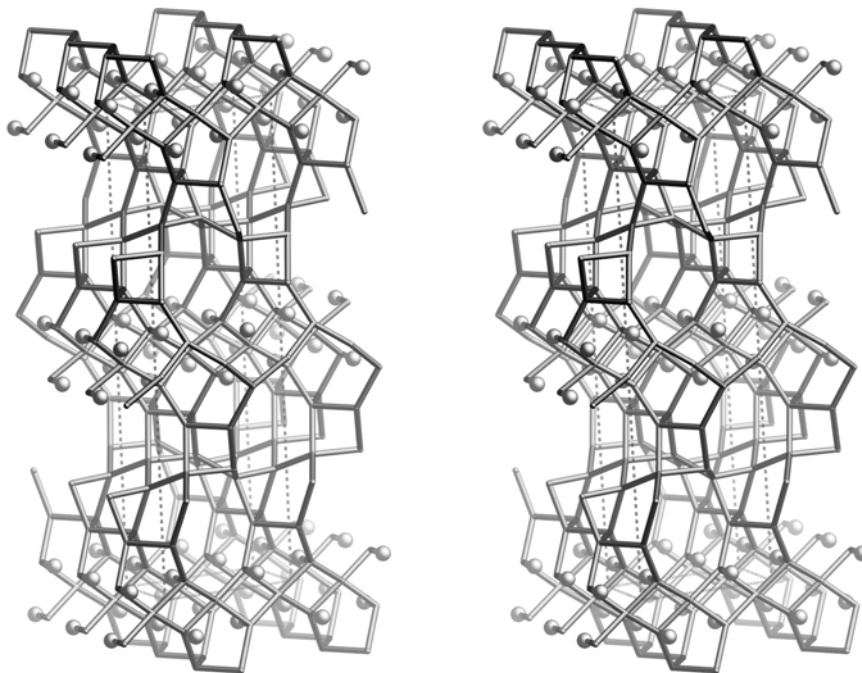


Framework Type Data



framework viewed along [100]

Idealized cell data: orthorhombic, *Pbcn*, $a = 5.0\text{\AA}$, $b = 31.2\text{\AA}$, $c = 9.0\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(8,1)$	4	11	22	40	64	89	120	160	203	248	$4\cdot 6_3\cdot 6\cdot 6\cdot 6_2\cdot 6_2$
$T_2(8,1)$	4	10	20	36	60	86	115	157	196	238	$4\cdot 5\cdot 6\cdot 9\cdot 6_3\cdot 10_2$
$T_3(8,1)$	3	8	13	29	53	80	113	147	193	231	$4\cdot 5\cdot 9$
$T_4(4,2)$	4	6	14	28	56	80	114	152	190	236	$4\cdot 4\cdot 5\cdot 9\cdot 10\cdot 10$

Secondary building units: $5\text{-}[1,1]$

Materials with this framework type:

*Chiavennite⁽¹⁾

Type Material: Chiavennite

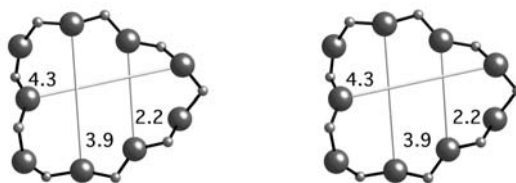
-CHI

Type Material Data

Crystal chemical data: $[\text{Ca}_4 \text{Mn}_4 (\text{H}_2\text{O})_8] [\text{Be}_8 \text{Si}_{20} \text{O}_{52} (\text{OH})_8]$ -CHI
orthorhombic, $Pnab$, $a = 8.729 \text{ \AA}$, $b = 31.326 \text{ \AA}$, $c = 4.903 \text{ \AA}$ ⁽¹⁾
(Relationship to unit cell of Framework Type: $a' = -c$, $b' = b$, $c' = a$)

Framework density: $20.9 \text{ T}/1000 \text{ \AA}^3$

Channels: $[001] \text{ 9 } 3.9 \times 4.3^*$



9-ring viewed along [001]

References:

(1) Tazzoli, V., Domeneghetti, M.C., Mazzi, F. and Cannillo, E. *Eur. J. Mineral.*, **7**, 1339-1344 (1995)