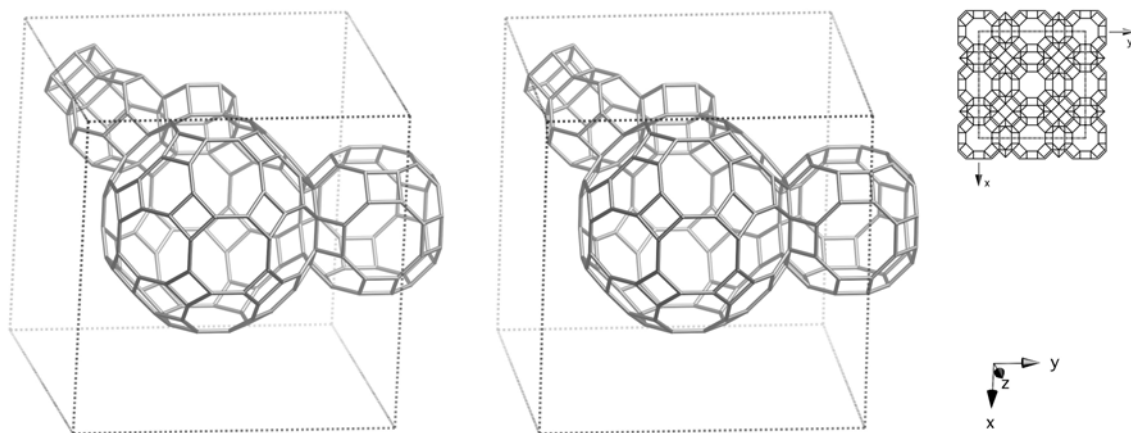


Framework Type Data



framework viewed along [001]

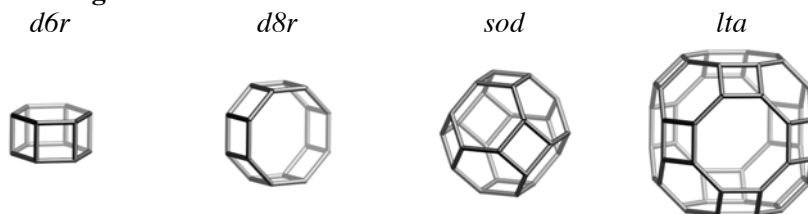
Idealized cell data: cubic, $Fm\bar{3}m$, $a = 30.7\text{\AA}$

Coordination sequences and vertex symbols:

$T_1 (192,1)$	4	9	16	25	37	53	74	99	125	151	4-4-4-6-6-8
$T_2 (192,1)$	4	9	17	28	41	56	73	93	117	146	4-4-4-8-6-8

Secondary building units: 8-8 or 8 or 6-6 or 6 or 4-2 or 4

Composite building units:



Materials with this framework type:

*Tschörtnerite⁽¹⁾

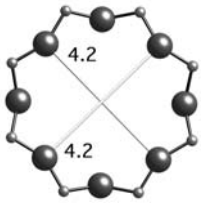
Type Material: Tschörtnerite

Type Material Data

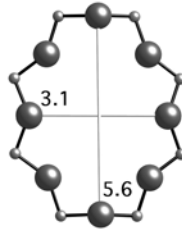
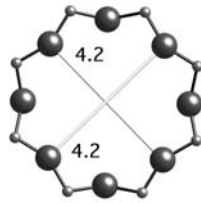
Crystal chemical data: $[\text{Ca}_{64}(\text{K}_2, \text{Ca}, \text{Sr}, \text{Ba})_{48}\text{Cu}_{48}(\text{H}_2\text{O})_x(\text{OH})_{128}] [\text{Al}_{192}\text{Si}_{192}\text{O}_{768}]$ -TSC
cubic, $Fm\bar{3}m$, $a = 31.62\text{\AA}$ ⁽¹⁾

Framework density: 12.1 T/1000 \AA^3

Channels: $\langle 100 \rangle$ 8 4.2 x 4.2*** \leftrightarrow $\langle 110 \rangle$ 8 3.1 x 5.6***



8-ring viewed along $\langle 100 \rangle$



8-ring viewed along $\langle 110 \rangle$

References:

(1) Effenberger, H., Giester, G., Krause, W. and Bernhardt, H.J. *Am. Mineral.*, **83**, 607-617 (1998)