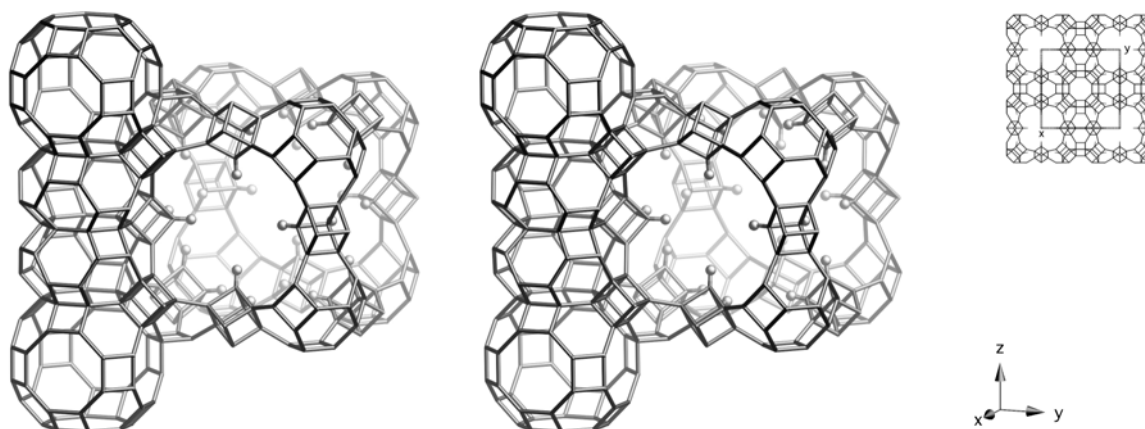


## Framework Type Data



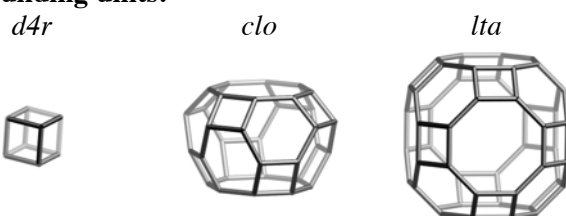
framework viewed along [001] (upper right: projection down [001])

**Idealized cell data:** cubic,  $Pm\bar{3}m$ ,  $a = 25.8\text{\AA}$

**Coordination sequences and vertex symbols:**

$T_1(48,1)$	4	9	16	23	31	44	59	74	91	109	4·6·4·6·4·12
$T_2(48,1)$	4	9	17	27	37	47	56	66	80	99	4·6·4·6·4·8
$T_3(48,1)$	4	8	13	22	34	44	55	72	94	117	4·6·4·6·4·20 <sub>8</sub>
$T_4(24,m)$	4	9	16	23	32	45	58	76	98	118	4·6·4·6·4·8
$T_5(24,m)$	3	5	10	18	29	45	56	65	86	110	4·4·4

**Secondary building units:** 4·4 or 4

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

\*Cloverite<sup>(1)</sup>

[Mn-Ga-P-O]-CLO<sup>(2)</sup>

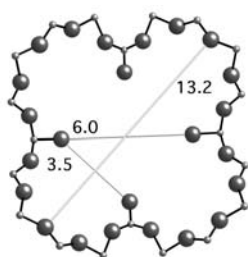
[Zn-Ga-P-O]-CLO<sup>(2)</sup>

## Type Material Data

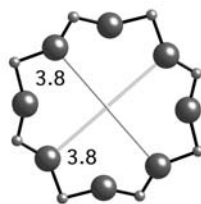
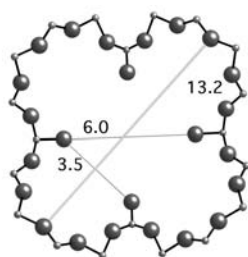
**Crystal chemical data:**  $\text{I}(\text{C}_7\text{H}_{14}\text{N})_{24}\text{I}_8 [\text{F}_{24}\text{Ga}_{96}\text{P}_{96}\text{O}_{372}(\text{OH})_{24}]_8\text{-CLO}$   
 $\text{C}_7\text{H}_{14}\text{N}$  = quinuclidinium  
 cubic,  $Fm\bar{3}c$ ,  $a = 51.712\text{\AA}$  <sup>(1)</sup>  
 (Relationship to unit cell of Framework Type:  $a' = 2a$ )

**Framework density:** 11.1 T/1000 $\text{\AA}^3$

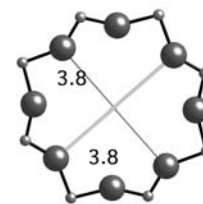
**Channels:**  $\langle 100 \rangle$  **20** 4.0 x 13.2\*\*\* |  $\langle 100 \rangle$  **8** 3.8 x 3.8\*\*\*



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



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

**References:**

- (1) Estermann, M., McCusker, L.B., Baerlocher, Ch., Merrouche, A. and Kessler, H. *Nature*, **352**, 320-323 (1991)
- (2) Yoshino, M., Matsuda, M. and Miyake, M. *Solid State Ionics*, **151**, 269-274 (2002)