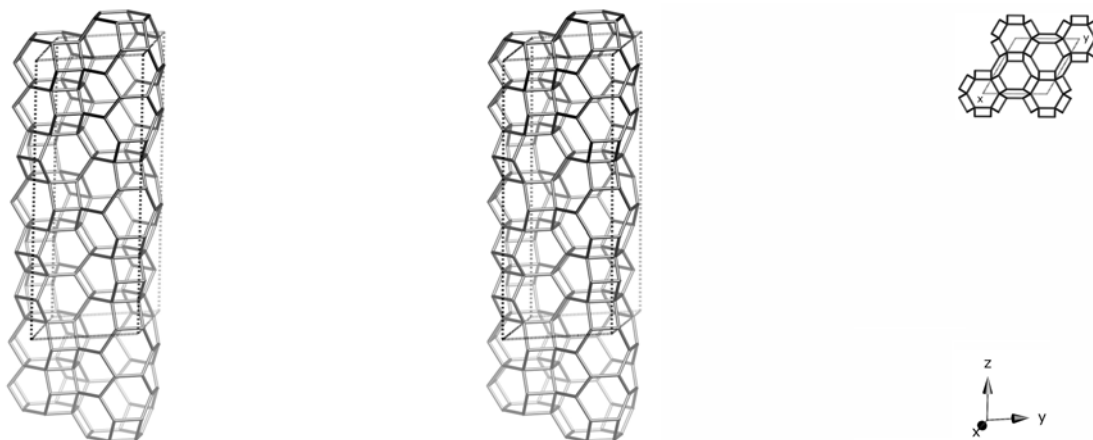


Framework Type Data



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

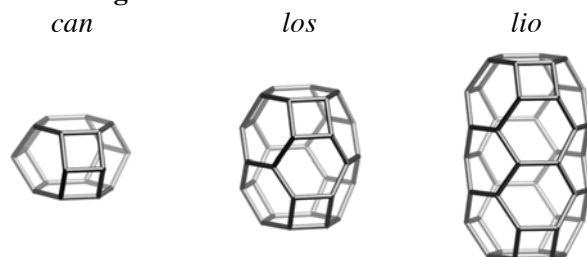
Idealized cell data: trigonal, $P\bar{3}m1$, $a = 12.3\text{\AA}$, $c = 30.9\text{\AA}$

Coordination sequences and vertex symbols:

T ₁ (12,1)	4	10	20	34	54	78	104	134	168	210	256	302	4-4-6-6-6-6
T ₂ (12,1)	4	10	20	34	53	76	103	135	170	209	252	300	4-6-4-6-6-6
T ₃ (12,1)	4	10	20	34	54	78	104	134	168	210	256	302	4-6-4-6-6-6
T ₄ (12,1)	4	10	20	34	53	76	103	135	170	208	250	299	4-6-4-6-6-6
T ₅ (12,1)	4	10	20	34	52	74	102	136	172	209	250	299	4-6-4-6-6-6
T ₆ (6,,2.)	4	10	20	34	54	78	104	134	168	210	256	302	4-4-6-6-6-6
T ₇ (6,,2.)	4	10	20	34	54	78	104	134	168	210	256	302	4-4-6-6-6-6

Secondary building units: 4 or 6

Framework description: CACACBCBCACB sequence of 6-rings

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

*Toukrite-like mineral⁽¹⁾

Type Material: Tounkite-like mineral**TOL****Type Material Data**

Crystal chemical data:	$\text{[Na}_{31.1}\text{Ca}_{15.94}\text{K}_{0.96}\text{Cl}_8(\text{SO}_4)_{9.3}(\text{SO}_3)_{0.7}\text{] [Al}_{36}\text{Si}_{36}\text{O}_{144}\text{]-TOL}$ trigonal, $P3$, $a = 12.757\text{\AA}$, $c = 32.211\text{\AA}$ ⁽¹⁾
Framework density:	15.9 T/1000 \AA^3
Channels:	apertures formed by 6-rings only

References:

- (1) Rozenberg, K.A., Sapozhnikov, A.N., Rastsvetaeva, R.K., Bolotina, N.B. and Kashaev, A.A. *Crystallogr. Reports*, **4**, 635-642 (2004)