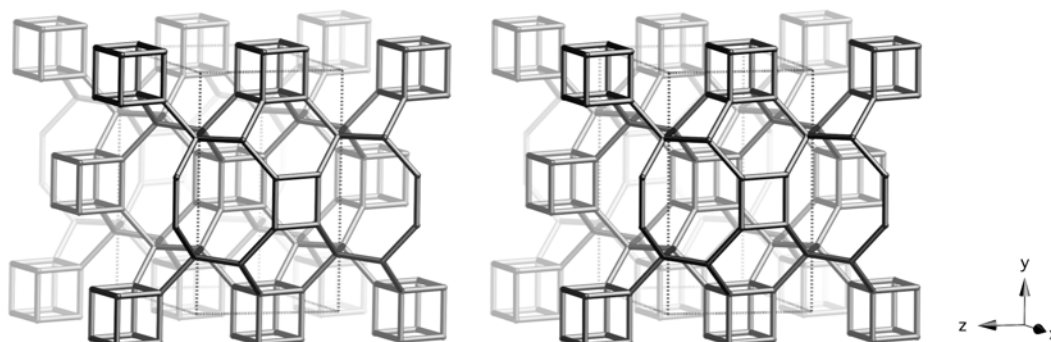


Framework Type Data



framework viewed along [100]

Idealized cell data: monoclinic, $C2/m$, $a = 10.4$, $b = 15.0$, $c = 9.0$, $\beta = 105.6$

Coordination sequences and vertex symbols:

$T_1(8,1)$	4	12	23	36	56	87	121	149	181	231	288	337	5-5-5-6-8-8
$T_2(8,1)$	4	9	19	38	61	83	110	149	194	234	274	329	4-5-4-6-4-8 ₂
$T_3(8,1)$	4	9	19	38	62	82	108	152	197	229	269	338	4-5-4-6-4-8 ₂

Secondary building units: 1-4-1 or 4-[1,1]

Composite building units:

$d4r$



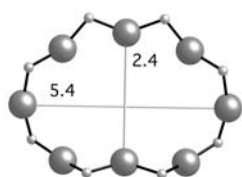
Materials with this framework type:

*ITQ-12^(1,2)

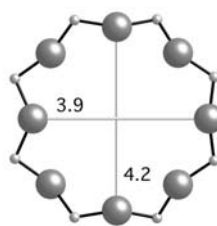
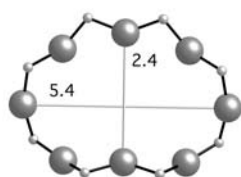
Type Material: ITQ-12

Type Material Data

Crystal chemical data:	[Si ₂₄ O ₄₈]-ITW monoclinic, <i>Cm</i> $a = 10.3304\text{\AA}$, $b = 15.010\text{\AA}$, $c = 8.860\text{\AA}$, $\beta = 105.34^\circ$ ⁽¹⁾
Framework density:	18.1 T/1000Å ³
Channels:	[100] 8 2.4 x 5.4* ↔ [001] 8 3.9 x 4.2*



8-ring viewed along [100]



8-ring viewed along [001]

References:

- (1) Barrett, P.A., Boix, T., Puche, M., Olson, D.H., Jordan, E., Koller, H. and Cambor, M.A. *Chem. Commun.*, 2114-2115 (2003)
- (2) Yang, X.B., Cambor, M.A., Lee, Y., Liu, H.M. and Olson, D.H. *J. Am. Chem. Soc.*, **126**, 10403-10409 (2004)