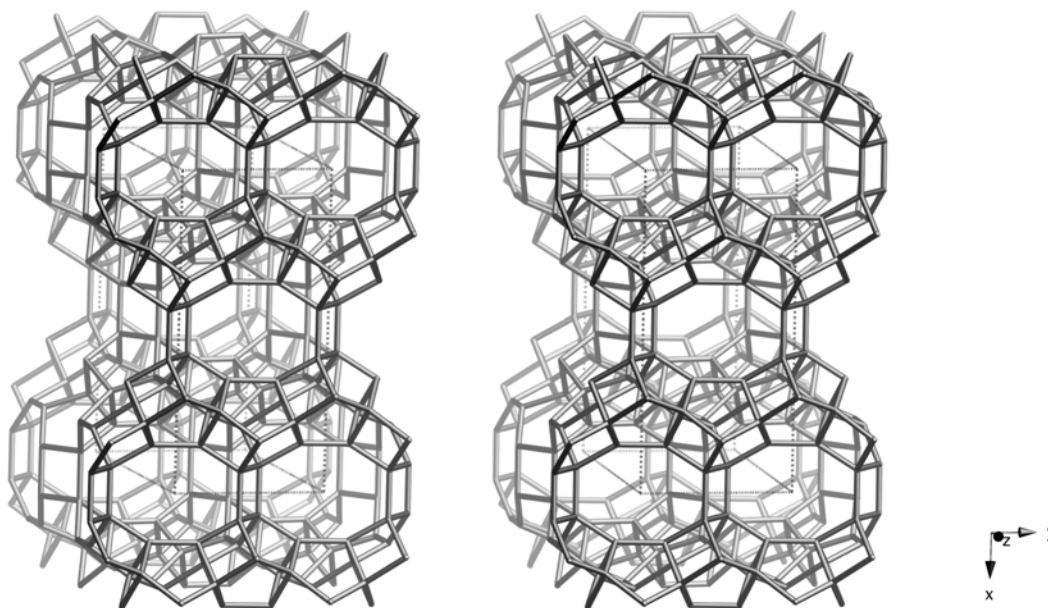


Framework Type Data



framework viewed along [001]

Idealized cell data: orthorhombic, *Cmcm*, $a = 20.8\text{\AA}$, $b = 9.8\text{\AA}$, $c = 20.0\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(16,1)$	4	11	21	34	53	78	108	138	168	211	4-6-5-6-5-8
$T_2(16,1)$	4	10	21	36	54	77	102	135	181	217	4-4-5-8-5-8
$T_3(16,1)$	4	10	19	31	50	82	107	132	168	209	4-5-4-6-5-5
$T_4(16,1)$	4	10	18	31	55	77	105	136	166	216	4-5-4-8-5-5

Secondary building units: 4

Composite building units:

rth



Materials with this framework type:

*ITQ-3⁽¹⁾

Mu-14⁽²⁾

SSZ-36 (ITE-RTH structural intermediate)⁽³⁾

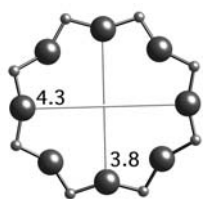
Type Material: ITQ-3

Type Material Data

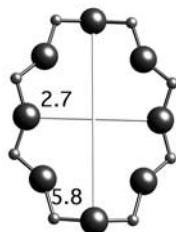
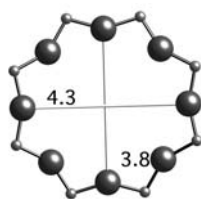
Crystal chemical data: [Si₆₄O₁₂₈]-ITE
orthorhombic, *Cmcm*, $a = 20.622\text{\AA}$, $b = 9.724\text{\AA}$, $c = 19.623\text{\AA}$ ⁽¹⁾

Framework density: 16.3 T/1000Å³

Channels: [010] 8 3.8 x 4.3* ↔ [001] 8 2.7 x 5.8*



8-ring viewed along [010]



8-ring viewed along [001]

References:

- (1) Cambor, M.A., Corma, A., Lightfoot, P., Villaescusa, L.A. and Wright, P.A. *Angew. Chem., Int. Ed.*, **36**, 2659-2661 (1997)
- (2) Valtchev, V., Paillaud, J.L., Lefebvre, T., LeNouen, D. and Kessler, H. *Microporous Mesoporous Mat.*, **38**, 177-185 (2000)
- (3) Wagner, P., Nakagawa, Y., Lee, G.S., Davis, M.E., Elomari, S., Medrud, R.C. and Zones, S.I. *J. Am. Chem. Soc.*, **122**, 263-273 (2000)