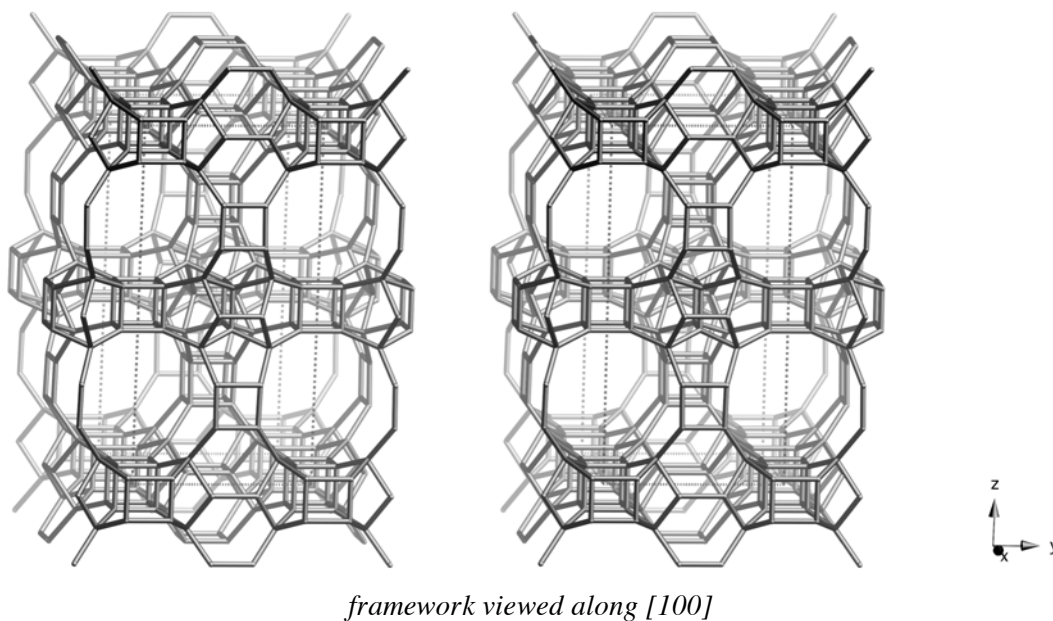


Framework Type Data



Idealized cell data: tetragonal, $P4_2/mmc$, $a = 12.9\text{\AA}$, $c = 25.7\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(16,1)$	4	12	17	30	48	72	99	128	160	199	$5\cdot5\cdot5_2\cdot12_5\cdot6\cdot6$
$T_2(16,1)$	4	9	18	32	50	71	96	129	167	200	$4\cdot5\cdot4\cdot6\cdot4\cdot12_7$
$T_3(16,1)$	4	9	18	32	50	72	97	128	167	203	$4\cdot5\cdot4\cdot6\cdot4\cdot12_4$
$T_4(8,m)$	4	11	20	28	42	74	110	132	150	195	$4\cdot5_2\cdot5\cdot6\cdot5\cdot6$
$T_5(8,m)$	4	11	20	28	41	70	105	131	154	188	$4\cdot5_2\cdot5\cdot6\cdot5\cdot6$

Secondary building units: 6-2

Composite building units:*d4r**mor**mtw***Materials with this framework type:***ITQ-7⁽¹⁾[Ge-Si-O]-ISV⁽²⁾[(C₁₅H₂₉N)₄F₄][Si₆₄O₁₂₈]-ISV⁽³⁾IBCHPI[Si_xAl_yGe_zO₁₂₈]-ISV⁽⁴⁾

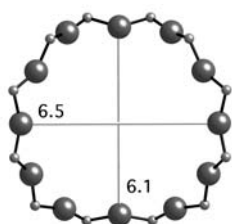
Type Material: ITQ-7

Type Material Data

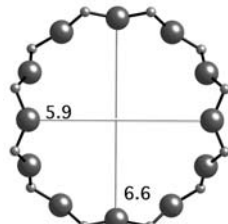
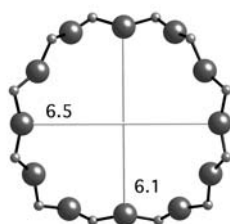
Crystal chemical data: [Si₆₄O₁₂₈]-ISV
tetragonal, $P4_2/mmc$, $a = 12.853 \text{ \AA}$, $c = 25.214 \text{ \AA}$ ⁽¹⁾

Framework density: 15.4 T/1000Å³

Channels: $\langle 100 \rangle$ 12 6.1 x 6.5** \leftrightarrow [001] 12 5.9 x 6.6*



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



12-ring viewed along [001]

References:

- (1) Villaescusa, L.A., Barrett, P.A. and Cambor, M.A. *Angew. Chem., Int. Ed.*, **38**, 1997-2000 (1999)
- (2) Blasco, T., Corma, A., DiazCabanas, M.J., Rey, F., VidalMoya, J.A. and ZicovichWilson, C.M. *J. Phys. Chem. B*, **106**, 2634-2642 (2002)
- (3) Song, J.Q., Marler, B. and Gies, H. *Compt. Rend. Chimie*, **8**, 341-352 (2005)
- (4) Leiva, S., Sabater, M.J., Valencia, S., Sastre, G., Fornes, V., Rey, F. and Corma, A. *Compt. Rend. Chimie*, **8**, 369-378 (2005)