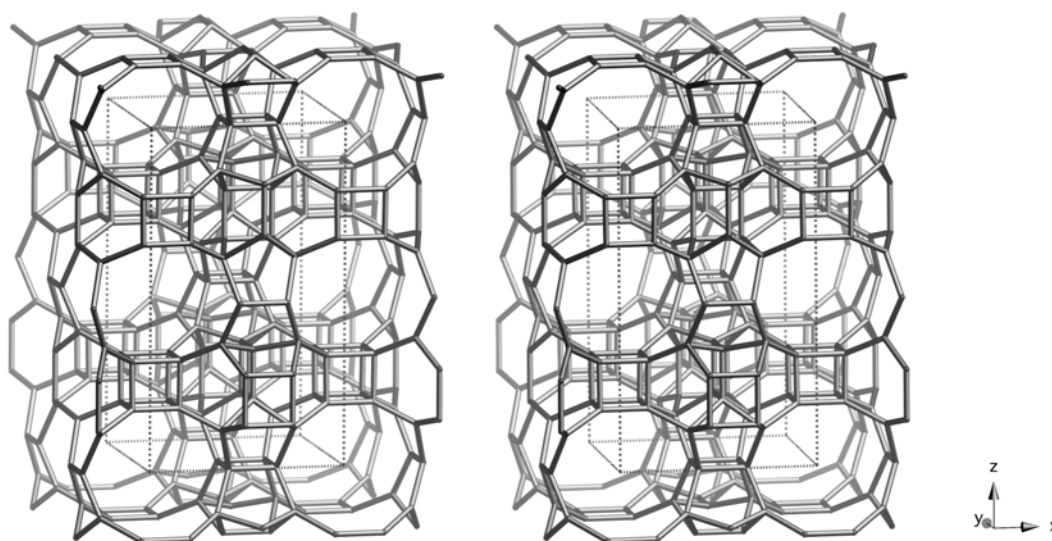


Framework Type Data



framework viewed along [010]

Idealized cell data: orthorhombic, *Amm*2, $a = 12.6\text{\AA}$, $b = 11.7\text{\AA}$, $c = 21.9\text{\AA}$

Coordination sequences and vertex symbols:

T ₁ (8,1)	4	9	18	35	61	90	116	146	190	244	296	338	4·6 ₂ ·4·6 ₂ ·4·10 ₂
T ₂ (8,1)	4	12	22	37	56	84	116	154	193	233	288	351	5·6·5·6·6 ₂ ·9 ₂
T ₃ (8,1)	4	9	19	37	60	86	117	151	189	238	296	349	4·6·4·6 ₂ ·4·10 ₂
T ₄ (8,1)	4	12	21	36	56	83	112	155	196	237	283	349	5·6·5·6 ₂ ·5·9
T ₅ (8,1)	4	11	22	39	57	80	114	156	202	239	283	343	4·9 ₂ ·5·5·5·6 ₂
T ₆ (4, <i>m</i> ..)	4	11	22	32	51	87	116	139	183	241	296	343	4·5 ₂ ·6·6 ₂ ·6·6 ₂
T ₇ (4, <i>m</i> ..)	4	11	20	32	55	85	112	141	185	243	294	339	4·5 ₂ ·6 ₂ ·6 ₂ ·6 ₂ ·6 ₂
T ₈ (4, <i>m</i> ..)	4	11	22	36	53	83	119	155	186	236	299	359	4·9 ₂ ·5·6 ₂ ·5·6 ₂
T ₉ (4, <i>m</i> ..)	4	11	20	34	57	81	117	155	192	234	297	357	4·5·5·6 ₂ ·5·6 ₂

Secondary building units: see *Compendium*

Composite building units:*d4r**lau**mel***Materials with this framework type:***ITQ-13^(1,2)Al-ITQ-13⁽³⁾IM-7⁽⁴⁾

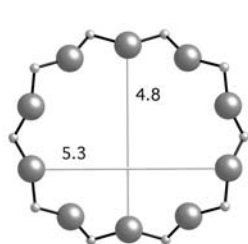
Type Material: ITQ-13

Type Material Data

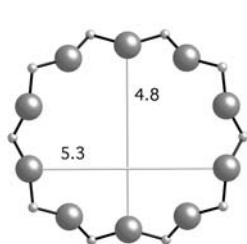
Crystal chemical data: $\text{I}((\text{CH}_3)_3\text{N}(\text{CH}_2)_6\text{N}(\text{CH}_3)_3)_2 \text{F}_4\text{I} [\text{Si}_{56}\text{O}_{112}]$ -ITH
orthorhombic, $\text{Amm}2$, $a = 12.525 \text{ \AA}$, $b = 11.391 \text{ \AA}$, $c = 22.053 \text{ \AA}$ ⁽²⁾

Framework density: 17.8 T/1000 \AA^3

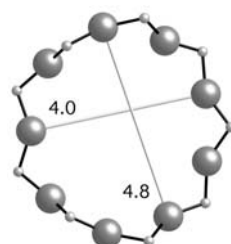
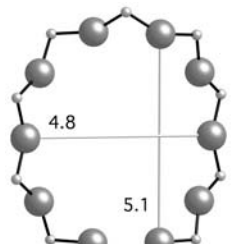
Channels: [001] **10** 4.8 x 5.3* \leftrightarrow [010] **10** 4.8 x 5.1* \leftrightarrow [100] **9** 4.0 x 4.8*



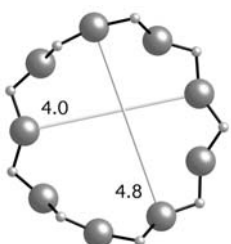
10-ring viewed along [001]



10-ring viewed along [010]



9-ring viewed along [100]

**References:**

- (1) Boix, T., Puche, M., Cambor, M.A. and Corma, A. *U.S. Patent 6,471,941 B1* (2002)
- (2) Corma, A., Puche, M., Rey, F., Sankar, G. and Teat, S.J. *Angew. Chem., Int. Ed.*, **42**, 1156-1159 (2003)
- (3) Castaneda, R., Corma, A., Fornes, V., Martinez-Triguero, J. and Valencia, S. *J. Catal.*, **238**, 79-87 (2006)
- (4) Bats, N., Rouleau, L., Paillaud, J.-L., Cautlet, P., Mathieu, Y. and Lacombe, S. *Stud. Surf. Sci. Catal.*, **154**, 283-288 (2004)