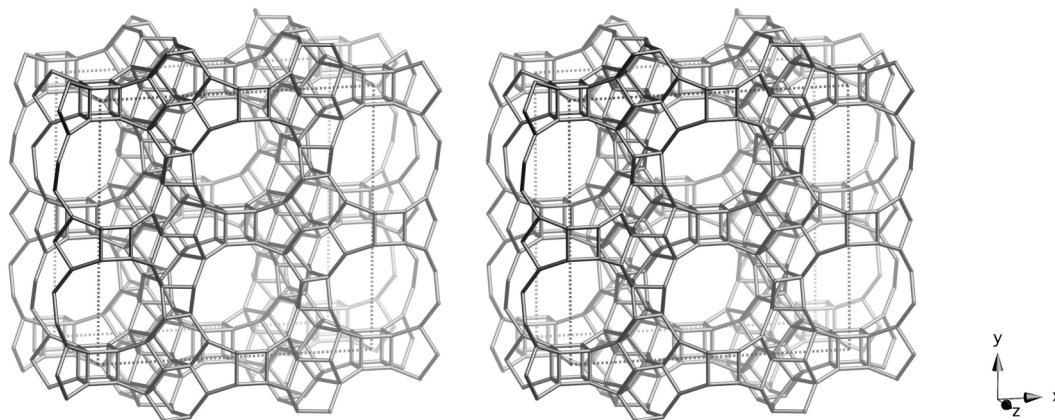


Framework Type Data



framework viewed along [001]

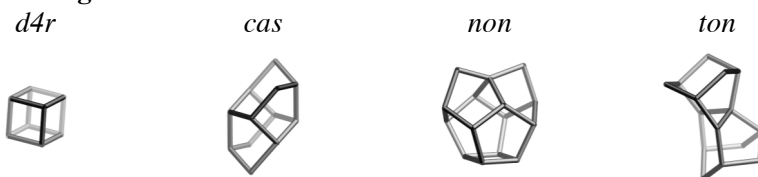
Idealized cell data: orthorhombic, *Fmmm*, $a = 27.8\text{\AA}$, $b = 26.1\text{\AA}$, $c = 13.9\text{\AA}$

Coordination sequences and vertex symbols:

T ₁ (32,1)	4	12	20	32	50	74	101	135	167	203	254	307	5·5·5·6 ₂ ·5·12
T ₂ (32,1)	4	9	18	32	52	78	105	130	164	213	264	310	4·5·4·5·4·12
T ₃ (32,1)	4	11	21	34	49	72	101	138	177	204	243	292	4·6·5·5·5 ₂ ·12
T ₄ (16,..m)	4	12	20	34	50	67	100	141	178	214	232	278	5·5 ₂ ·5·5 ₂ ·14 ₂ ·*
T ₅ (16,..m)	4	12	20	28	49	69	100	136	166	201	245	292	5·5·5·5·5·6 ₂
T ₆ (16,..m)	4	12	22	32	45	69	101	137	167	199	244	303	5·5 ₂ ·5·6·5·6
T ₇ (8,2mm)	4	12	24	32	40	66	108	136	168	196	240	298	5·5·5·5·14 ₆ ·*

Secondary building units: see *Compendium*

Composite building units:



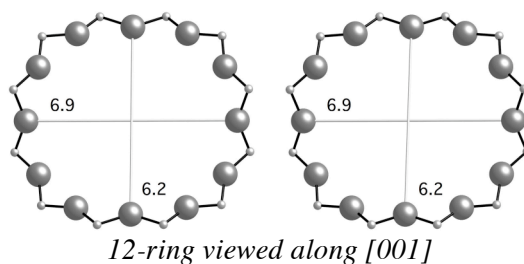
Materials with this framework type:

*ITQ-27⁽¹⁾

Type Material: ITQ-27

Type Material Data

- Crystal chemical data:** $[\text{Al}_5\text{Si}_{147}\text{O}_{304}]$ -IWW
orthorhombic, $Fmmm$, $a = 27.7508\text{\AA}$, $b = 25.2969\text{\AA}$, $c = 13.7923\text{\AA}$ ⁽¹⁾
- Framework density:** 15.7 T/1000 \AA^3
- Channels:** $\{ [001] \mathbf{12} \ 6.2 \times 6.9 \leftrightarrow [011] \mathbf{12} \ 6.2 \times 6.9 \}^{**}$
(The channel dimensions are limited by the same 12-ring in both directions.)

**References:**

- (1) Dorset, D.L., Kennedy, G.J., Strohmaier, K.G., Diaz-Cabanias, M.J., Rey, F. and Corma, A. *J. Am. Chem. Soc.*, **128**, 8862-8867 (2006)