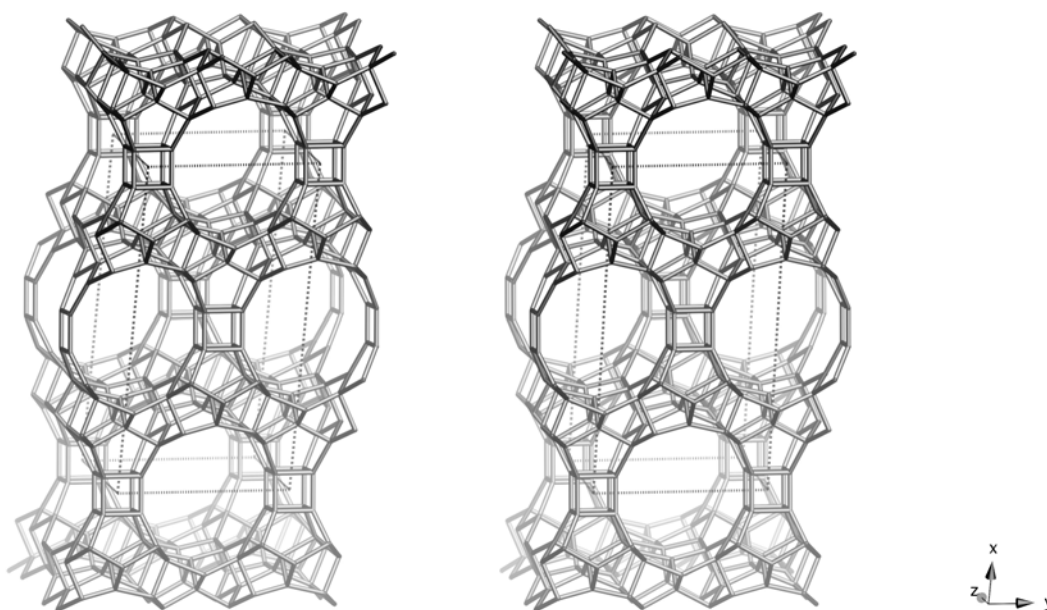


Framework Type Data



framework viewed along [001]

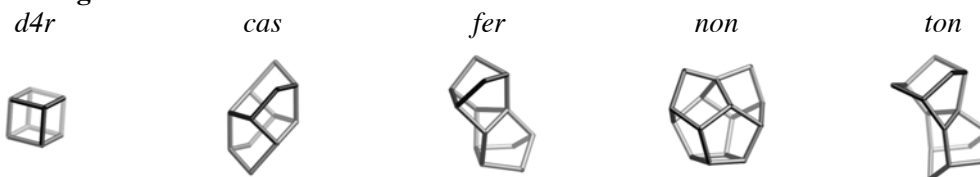
Idealized cell data: monoclinic, $C2/m$, $a = 29.0\text{\AA}$, $b = 14.0\text{\AA}$, $c = 12.4\text{\AA}$, $\beta = 104.9^\circ$

Coordination sequences and vertex symbols:

see Appendix A for a list of the coordination sequences and vertex symbols for the 12 T-atoms

Secondary building units: see *Compendium*

Composite building units:



Materials with this framework type:

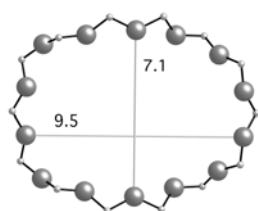
*IM-12⁽¹⁾

ITQ-15⁽²⁾

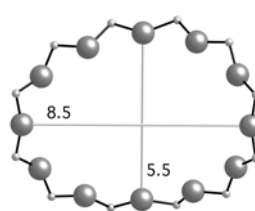
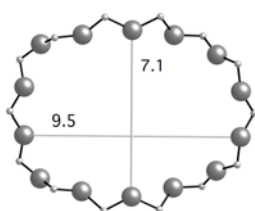
Type Material: IM-12

Type Material Data

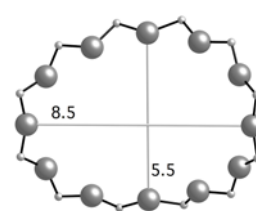
Crystal chemical data:	[Ge _{13.8} Si _{62.2} O ₁₅₂]-UTL monoclinic, <i>C2/m</i> $a = 29.8004\text{\AA}$, $b = 13.9926\text{\AA}$, $c = 12.3926\text{\AA}$, $\beta = 105.185^\circ$ ⁽¹⁾
Framework density:	15.2 T/1000 \AA^3
Channels:	[001] 14 7.1 x 9.5* \leftrightarrow [010] 12 5.5 x 8.5*



14-ring viewed along [001]



12-ring viewed along [010]

**References:**

- (1) Paillaud, J.-L., Harbuzaru, B., Patarin, J. and Bats, N. *Science*, **304**, 990-992 (2004)
- (2) Corma, A., Díaz-Cabañas, M.J., Rey, F., Nicolopoulos, S. and Boulahya, K. *Chem. Commun.*, 1356-1357 (2004)