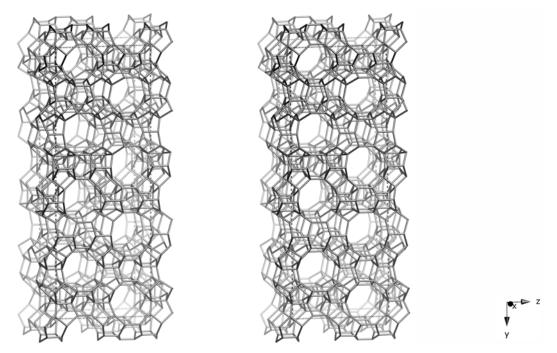
fer

Framework Type Data



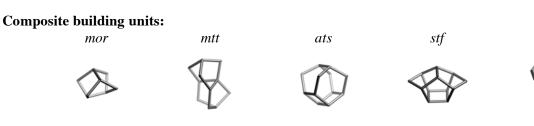
framework viewed along [100]

Idealized cell data: orthorhombic, *Cmcm*, a = 14.3Å, b = 56.8Å, c = 20.3Å

Coordination sequences and vertex symbols:

see Appendix A for a list of the coordination sequences and vertex symbols for the 24 T-atoms

Secondary building units: 5-1



Materials with this framework type: $^{\ast}IM\text{-}5^{(1)}$

IMF

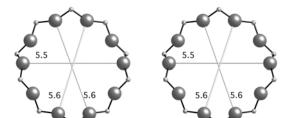
Type Material Data

 Crystal chemical data:
 [Si₂₈₈O₅₇₆]-IMF orthorhombic, *Cmcm*, *a* = 14.2088Å, *b* = 57.2368Å, *c* = 19.9940Å⁽¹⁾

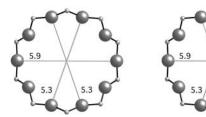
 Framework density:
 17.7 T/1000Å³

Channels:

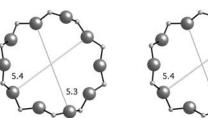
{[001] **10** 5.5 x 5.6 \leftrightarrow [100] **10** 5.3 x 5.4}** \leftrightarrow {[010] **10** 5.3 x 5.9} \leftrightarrow {[001] **10** 4.8 x 5.4 \leftrightarrow [100] **10** 5.1 x 5.3}** (There is central 2D channel system (above: left) connected through 10-rings along [010] (above: after second \leftrightarrow) to another 2D channel system (above: after third \leftrightarrow) on either side. There is no further connection along [010].)



10-ring (center) viewed along [001]

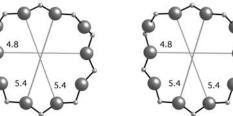


10-ring viewed along [010]

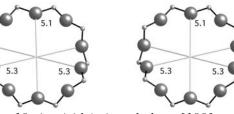


5.4 5.3

10-ring (center) viewed along [100]



10-ring (side) viewed along [001]



10-ring (side) viewed along [100]

References:

(1) Baerlocher, Ch., Gramm, F., Massüger, L., McCusker, L.B., He, Z., Hovmöller, S. and Zou, X. Science, **315**, 1113-1116 (2007)