Framework Type Data

Idealized cell data: trigonal, \( R\bar{3}m \), \( a = 17.2 \text{ Å} \), \( c = 19.8 \text{ Å} \)

Coordination sequences and vertex symbols:

- \( T_1 \) (36,1) 4 10 21 37 55 75 101 136 175 211 4·6·4·6 2·6·6
- \( T_2 \) (36,1) 4 10 20 34 53 77 106 138 170 206 4·6 2·4·6 2·6·6
- \( T_3 \) (18,2) 4 12 21 32 51 80 110 132 164 212 6·6·6·6 2·6 2·6

Secondary building units: 2-6-2 or 4-1

Composite building units:

\[ dbr \quad lau \quad mso \]

Materials with this framework type:

* MCM-61\(^{(1,2)}\)
* Mu-13\(^{(3)}\)
Type Material: MCM-61

Type Material Data

Crystal chemical data:  \( \text{K}_{2.1} \text{C}_{12}\text{H}_{24}\text{O}_{6}\left[\text{Al}_{2.1}\text{Si}_{27.9}\text{O}_{60}\right] \cdot \text{MSO} \)
\[ \text{C}_{12}\text{H}_{24}\text{O}_{6} = 18\text{-crown-6} \]
rhombohedral, \(R\bar{3}m\), \(a = 11.841\,\text{Å}, \alpha = 93.29^\circ(2)\)
(hexagonal setting: \(a = 17.220\,\text{Å}, c = 19.296\,\text{Å}\))

Framework density:  18.2 T/1000Å³

Channels:  apertures formed by 6-rings only

References: