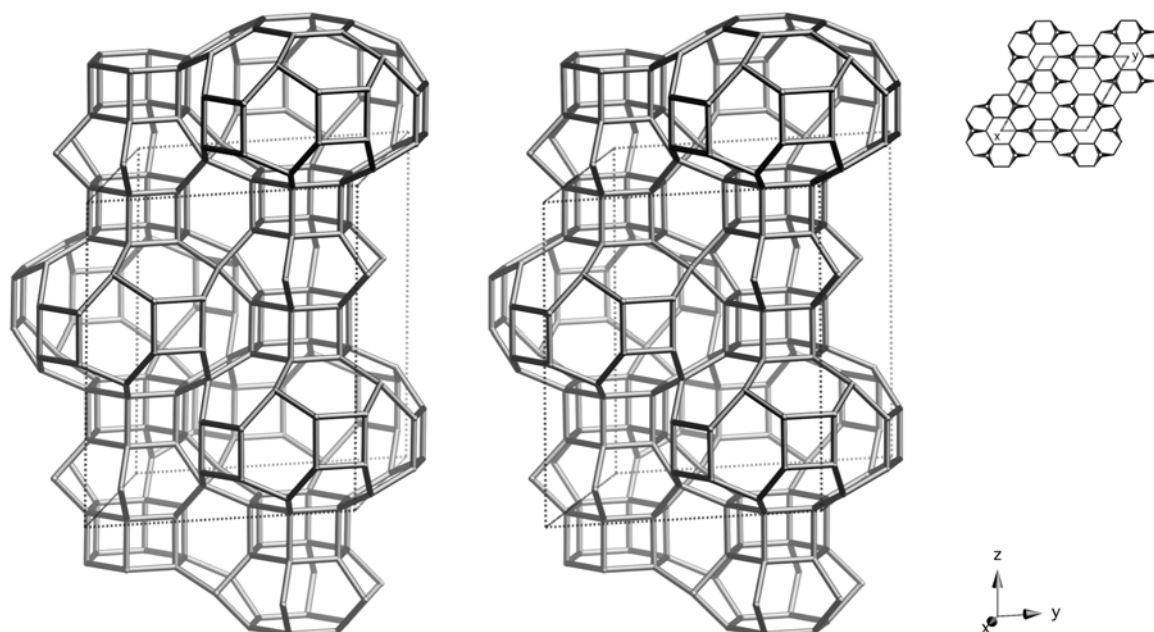


Framework Type Data



framework viewed normal to [001] (upper right: projection down [001])

Idealized cell data: trigonal, $R\bar{3}m$, $a = 17.2\text{\AA}$, $c = 19.8\text{\AA}$

Coordination sequences and vertex symbols:

| | | | | | | | | | | | |
|-------------|---|----|----|----|----|----|-----|-----|-----|-----|--|
| $T_1(36,1)$ | 4 | 10 | 21 | 37 | 55 | 75 | 101 | 136 | 175 | 211 | $4\cdot 6\cdot 4\cdot 6_2\cdot 6\cdot 6$ |
| $T_2(36,1)$ | 4 | 10 | 20 | 34 | 53 | 77 | 106 | 138 | 170 | 206 | $4\cdot 6_2\cdot 4\cdot 6_2\cdot 6\cdot 6$ |
| $T_3(18,2)$ | 4 | 12 | 21 | 32 | 51 | 80 | 110 | 132 | 164 | 212 | $6\cdot 6\cdot 6\cdot 6_2\cdot 6_2\cdot 6_2$ |

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

Composite building units:

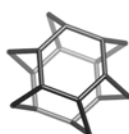
d6r



lau



mso



Materials with this framework type:

*MCM-61^(1,2)

Mu-13⁽³⁾

Type Material Data

| | |
|-------------------------------|--|
| Crystal chemical data: | $\text{K}_{2.1} \text{C}_{12}\text{H}_{24}\text{O}_6 \text{ [Al}_{2.1}\text{Si}_{27.9}\text{O}_{60}] \text{-MSO}$ $\text{C}_{12}\text{H}_{24}\text{O}_6 = 18\text{-crown-6}$ rhombohedral, $R\bar{3}m$, $a = 11.841 \text{ \AA}$, $\alpha = 93.29^\circ$ ⁽²⁾ (hexagonal setting: $a = 17.220 \text{ \AA}$, $c = 19.296 \text{ \AA}$) |
| Framework density: | 18.2 T/1000 \AA^3 |
| Channels: | apertures formed by 6-rings only |

References:

- (1) Valyosik, E.W. *U.S. Patent 5,670,131* (1997)
- (2) Shantz, D.F., Burton, A. and Lobo, R.F. *Microporous Mesoporous Mat.*, **31**, 61-73 (1999)
- (3) Paillaud, J.-L., Caullet, P., Schreyeck, L. and Marler, B. *Microporous Mesoporous Mat.*, **42**, 177-189 (2001)