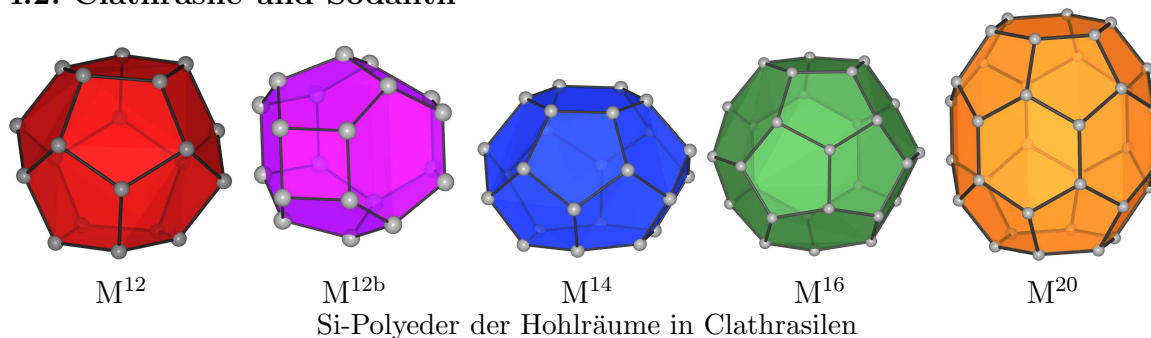


4. Technische Tectosilicate 4.2. Clathrasile und Sodalith



| | Käfig: | M^{12} [5 ¹²] | M^{12b} [4 ³ 5 ⁶ 6 ³] | M^{14} [5 ¹² 6 ²] | M^{16} [5 ¹² 6 ⁴] | M^{20} [5 ¹² 6 ⁸] | |
|---------------|--------------------|--|--|---|---|--|-------------------------|
| | ∅: | 570 pm | 570 pm | 580/770 pm | 750 pm | 770/1120 pm | |
| Clathrasil ↓ | Gäste → | N ₂ , Ar, Xe, CH ₄ | | N ₂ O, CO ₂ , Kr, Xe, CH ₃ NH ₂ | SF ₆ , Kr, Xe, CH ₃ NH ₂ , (C ₂ H ₅) ₂ NH, (CH ₃) ₃ N, Thiophen, Pyridin, Pyrolidin | C ₂ H ₅) ₂ NH, Cyclohexylamin, Adamantylamin | SiO ₂ / EZ ↓ |
| | | Zahl der Käfige | | | | | |
| Melanophlogit | Cr ₃ Si | 2 | - | 6 | - | - | 46 |
| Dodecasil 1H | CaCu ₅ | 3 | 2 | - | - | 1 | 34 |
| Dodecasil 3C | MgCu ₂ | 16 | - | - | 8 | - | 136 |

Strukturen und Gäste der Clathrasile

