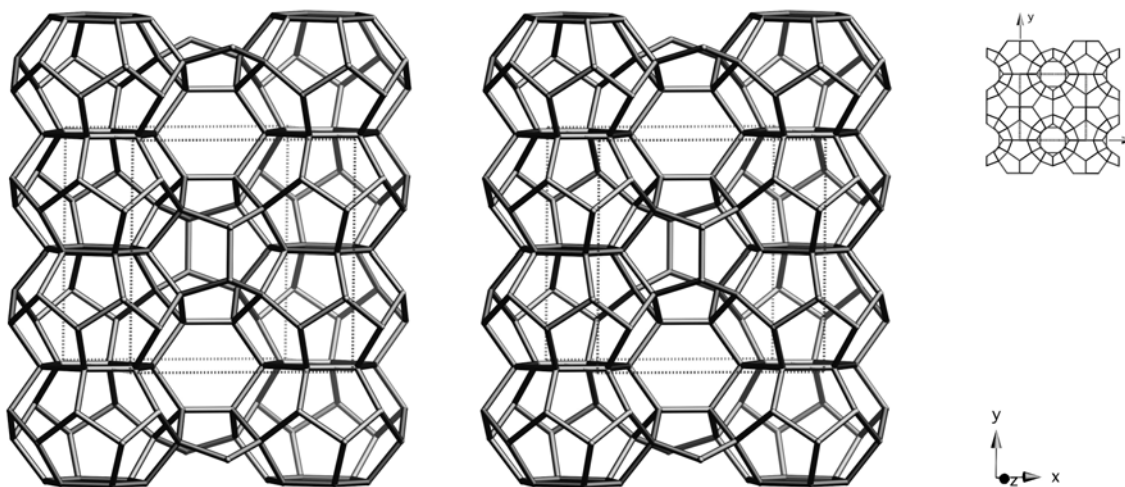


Framework Type Data



framework viewed along $[001]$ (upper right: projection down $[001]$)

Idealized cell data: cubic, $Pm\bar{3}n$, $a = 13.7\text{\AA}$

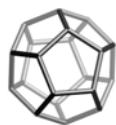
Coordination sequences and vertex symbols:

$T_1(24,m)$	4	12	25	42	69	100	129	176	229	277	5·5·5·5·5·6
$T_2(16,3)$	4	12	24	42	67	95	133	177	219	277	5·5·5·5·5·5
$T_3(6,4\bar{2}m)$	4	12	26	44	64	98	144	172	222	272	5·5·5·5·6·6

Secondary building units: see *Compendium*

Composite building units:

mtn



Materials with this framework type:

*Melanophlogite⁽¹⁾

Synthetic melanophlogite⁽²⁾

low melanophlogite⁽³⁾

Type Material: Melanophlogite**MEP****Type Material Data**

Crystal chemical data:	I (CH ₄ ,N ₂ ,CO ₂) _x I [Si ₄₆ O ₉₂]- MEP cubic, $Pm\bar{3}n$, $a = 13.436\text{\AA}^{(1)}$ (Data refer to structure at 200°; tetragonal at 25°C)
Framework density:	19 T/1000Å ³
Channels:	apertures formed by 6-rings only

References:

- (1) Gies, H. *Z. Kristallogr.*, **164**, 247-257 (1983)
- (2) Gies, H., Gerke, H. and Liebau, F. *N. Jb. Miner. Mh.*, 119-124 (1982)
- (3) Nakagawa, T., Kihara, K. and Harada, K. *Am. Mineral.*, **86**, 1506-1512 (2001)