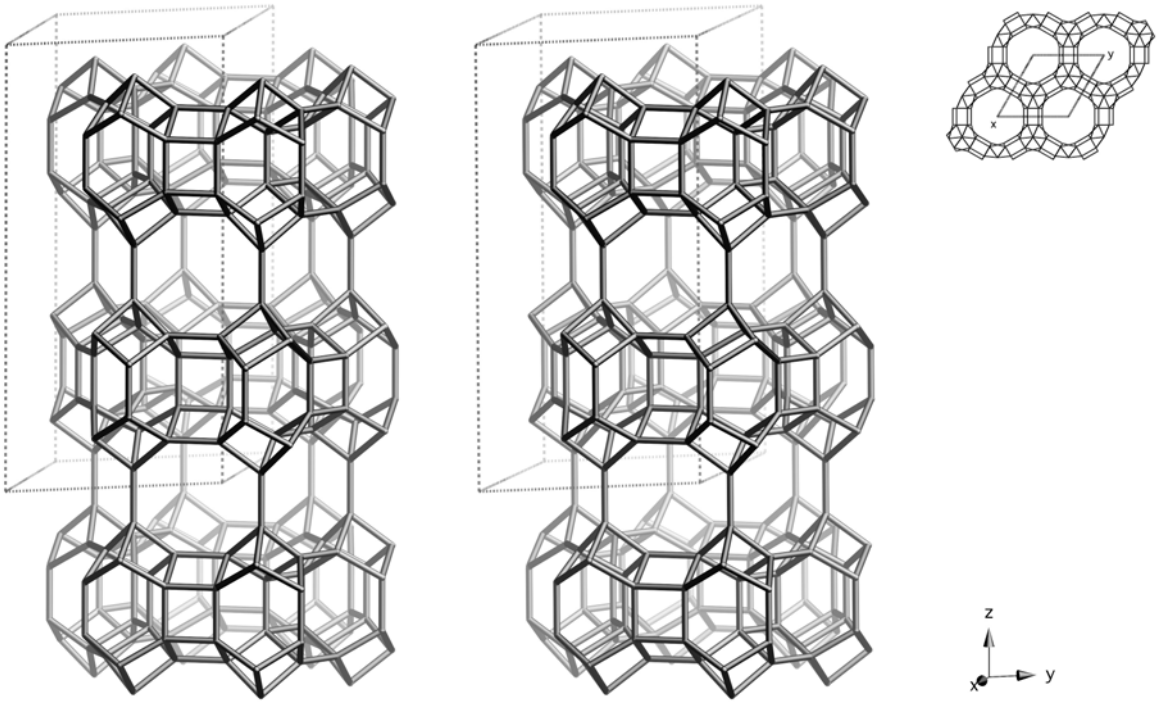
AFS

$P6_3/mcm$

Framework Type Data



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

Idealized cell data: hexagonal, $P6_3/mcm$, a = 13.1Å, c = 25.9Å

Coordination sequences and vertex symbols:

T_1 (24,1)	4	9	17	28	42	60	83	111	138	166	$4{\cdot}4{\cdot}4{\cdot}8_2{\cdot}6_2{\cdot}8$
T_2 (24,1)	4	9	16	25	39	61	86	109	134	163	$4{\cdot}4{\cdot}4{\cdot}6{\cdot}6{\cdot}12$
T_3 (8,3)	4	9	18	30	43	62	85	105	135	180	$4{\cdot}8{\cdot}4{\cdot}8{\cdot}4{\cdot}8$

Secondary building units: 6*1

Composite building units:

afs *bph*


Materials with this framework type:

*MAPSO-46[1]

MAPO-46[2]

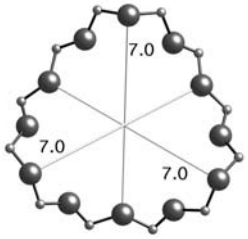
Type Material: MAPSO-46 — AFS

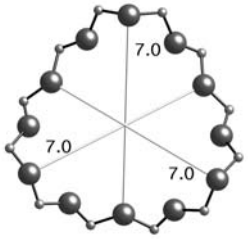
Type Material Data

Crystal chemical data: $|(C_6H_{16}N)_8\ (H_2O)_{14}|\ [Mg_6Al_{22}P_{26}Si_2O_{112}]$-**AFS**
$C_6H_{16}N$ = dipropylammonium
trigonal, *P*3*c*1, *a* = 13.225Å, *c* = 26.892Å [(1)]

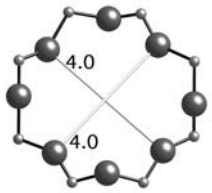
Framework density: 13.7 T/1000Å^3

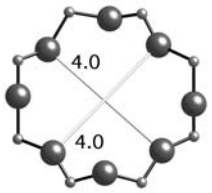
Channels: [001] **12** 7.0 x 7.0* ↔ ⊥ [001] **8** 4.0 x 4.0**





12-ring viewed along [001]





8-ring viewed normal to [001]

References:

(1) Bennett, J.M. and Marcus, B.K. *Stud. Surf. Sci. Catal.*, **37**, 269-279 (1988)
(2) Akolekar, D.B. and Kaliaguine, S. *J. Chem. Soc., Faraday Trans.*, **89**, 4141-4147 (1993)