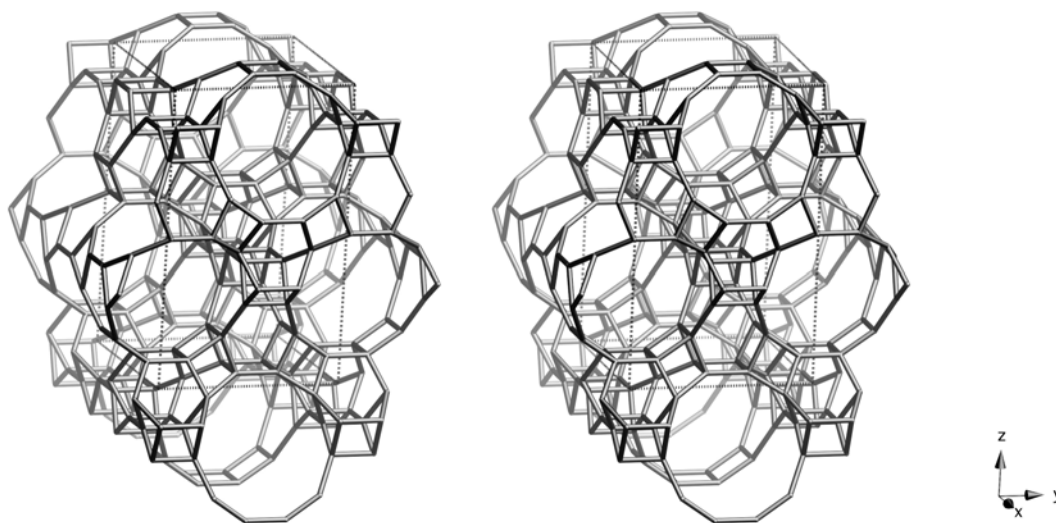


Framework Type Data



framework viewed along [100]

Idealized cell data: tetragonal, $I\bar{4}m2$, $a = 13.4\text{\AA}$, $c = 21.9\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(16,1)$	4	9	16	25	39	61	84	102	124	158	$4\cdot4\cdot4\cdot6_2\cdot6_3\cdot12_4$
$T_2(16,1)$	4	9	17	27	40	61	85	106	132	167	$4\cdot4\cdot4\cdot12_5\cdot6\cdot6_3$
$T_3(16,1)$	4	9	16	25	39	58	79	104	130	158	$4\cdot6\cdot4\cdot6\cdot4\cdot12_6$
$T_4(8,2)$	4	10	16	25	42	61	82	108	132	156	$4\cdot4\cdot6\cdot6\cdot6_2\cdot12_5$

Secondary building units: 4

Composite building units:**Materials with this framework type:**

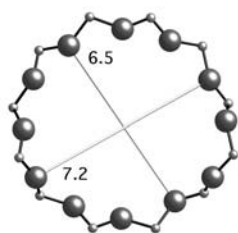
*STA-1⁽¹⁾

Type Material Data

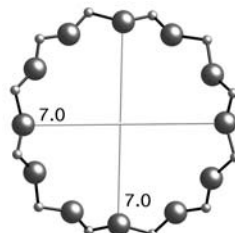
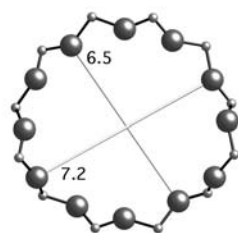
Crystal chemical data: $I(C_{21}H_{40}N_2)_{2.6}(H_2O)_6I[Mg_5Al_{23}P_{28}O_{112}]$ -SAO
 $C_{21}H_{40}N_2 = C_7H_{13}N - (CH_2)_7 - C_7H_{13}N$
 $C_7H_{13}N =$ quinuclidine
 tetragonal, $P\bar{4}n2$, $a = 13.810\text{\AA}$, $c = 21.969\text{\AA}$ ⁽¹⁾

Framework density: 13.4 T/1000 \AA^3

Channels: $\langle 100 \rangle$ 12 6.5 x 7.2** \leftrightarrow $[001]$ 12 7.0 x 7.0*



12-ring viewed along $\langle 100 \rangle$



12-ring viewed along $[001]$

References:

- (1) Noble, G.W., Wright, P.A., Lightfoot, P., Morris, R.E., Hudson, K.J., Kvick, A. and Graafsma, H. *Angew. Chem., Int. Ed.*, **36**, 81-83 (1997)