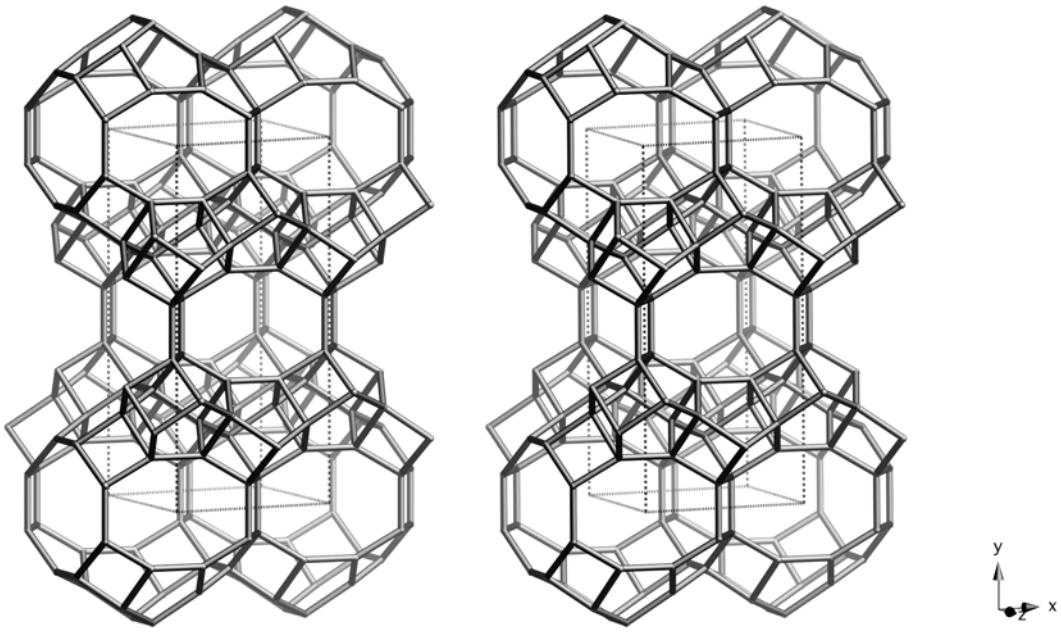
RTH

C*2/*m

Framework Type Data



framework viewed along [001]

Idealized cell data: monoclinic, *C*2/*m*, *a* = 9.8Å, *b* = 20.5Å, *c* = 10.0Å, β = 96.9°

Coordination sequences and vertex symbols:

T_1 (8,1)	4	11	21	34	53	78	108	137	165	207	4·6·5·6·5·8
T_2 (8,1)	4	10	21	36	54	75	100	136	181	214	4·4·5·8·5·8
T_3 (8,1)	4	10	19	31	50	82	106	130	168	203	4·5·4·6·5·5
T_4 (8,1)	4	10	18	31	55	77	103	134	165	214	4·5·4·8·5·5

Secondary building units: 4

Composite building units:

rth

Materials with this framework type:

*RUB-13[1]

SSZ-36 (**ITE**-**RTH** structural intermediate)[2]

SSZ-50 ([Al-Si-O]-**RTH**)[3]

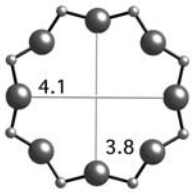
Type Material: RUB-13 RTH

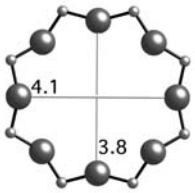
Type Material Data

Crystal chemical data: | $(C_{10}H_{21}N)_2$| $[B_2Si_{30}O_{64}]$-**RTH**
$C_{10}H_{21}N$ = pentamethylpiperidinium
monoclinic, *C*2/*m*
a = 9.659Å, *b* = 20.461Å, *c* = 9.831Å, β = 96.58° (1)

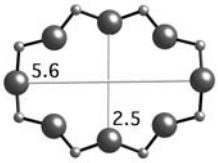
Framework density: 16.6 T/1000Å^3

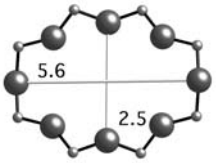
Channels: [100] **8** 3.8 x 4.1* ↔ [001] **8** 2.5 x 5.6*





8-ring viewed along [100]





8-ring viewed along [001]

References:
(1) Vortmann, S., Marler, B., Gies, H. and Daniels, P. *Microporous Materials*, **4**, 111-121 (1995)
(2) Wagner, P., Nakagawa, Y., Lee, G.S., Davis, M.E., Elomari, S., Medrud, R.C. and Zones, S.I. *J. Am. Chem. Soc.*, **122**, 263-273 (2000)
(3) Lee, G.S. and Zones, S.I. *J. Solid State Chem.*, **167**, 289-298 (2002)