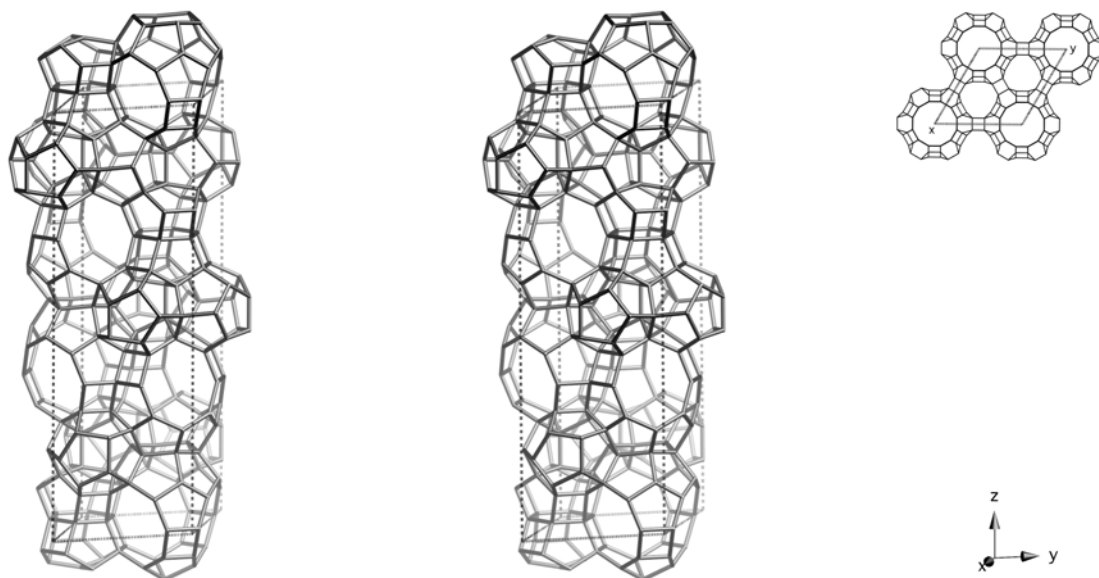


Framework Type Data



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

Idealized cell data: trigonal, $R\bar{3}m$, $a = 13.8\text{\AA}$, $c = 40.8\text{\AA}$

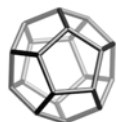
Coordination sequences and vertex symbols:

$T_1 (36,1)$	4	11	23	39	62	91	124	159	203	251	4-5-5-5-5-8
$T_2 (18,m)$	4	12	22	37	59	93	127	158	193	251	5-5-5-5-5-5
$T_3 (18,m)$	4	12	25	40	61	86	119	164	212	253	5-5-5-5-5-6
$T_4 (18,m)$	4	12	24	40	63	87	121	165	208	255	5-5-5-5-5-8
$T_5 (18,2)$	4	10	21	37	62	94	124	158	196	252	4-4-5-5-6-8
$T_6 (6,3m)$	4	12	24	39	57	93	121	157	210	240	5-5-5-5-5-5
$T_7 (6,3m)$	4	12	24	33	60	97	136	150	192	264	5-5-5-5-5-5

Secondary building units: see *Compendium*

Composite building units:

mtn

**Materials with this framework type:**

*Deca-dodecasil 3R⁽¹⁾

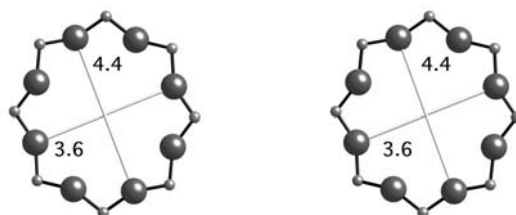
[B-Si-O]-DDR⁽²⁾

Sigma-1⁽³⁾

ZSM-58^(4,5)

Type Material Data

Crystal chemical data:	$\text{[(C}_{10}\text{H}_{17}\text{N)}_6\text{(N}_2\text{)}_9\text{] [Si}_{120}\text{O}_{240}\text{]}-\text{DDR}$ $\text{C}_{10}\text{H}_{17}\text{N} = 1\text{-aminoadamantane}$ trigonal, $R\bar{3}m$, $a = 13.860\text{\AA}$, $c = 40.891\text{\AA}$ ⁽¹⁾
Framework density:	17.6 T/1000 \AA^3
Channels:	$\perp [001]$ 8 3.6 x 4.4**



8-ring viewed normal to [001]

References:

- (1) Gies, H. Z. *Kristallogr.*, **175**, 93-104 (1986)
- (2) Grünwald-Luke, A., Marler, B., Hochgrafe, M. and Gies, H. *J. Mater. Chem.*, **9**, 2529-2536 (1999)
- (3) Stewart, A., Johnson, D.W. and Shannon, M.D. *Stud. Surf. Sci. Catal.*, **37**, 57-64 (1988)
- (4) Valyocsik, E.W. *U.S. Patent 4,698,217* (1987)
- (5) Ernst, S., Chen, C.Y., Lindner, D. and Weitkamp, J. *Zeolites for the Nineties, Recent Progress Reports - Abstracts*, pp. 55-56 (1989)