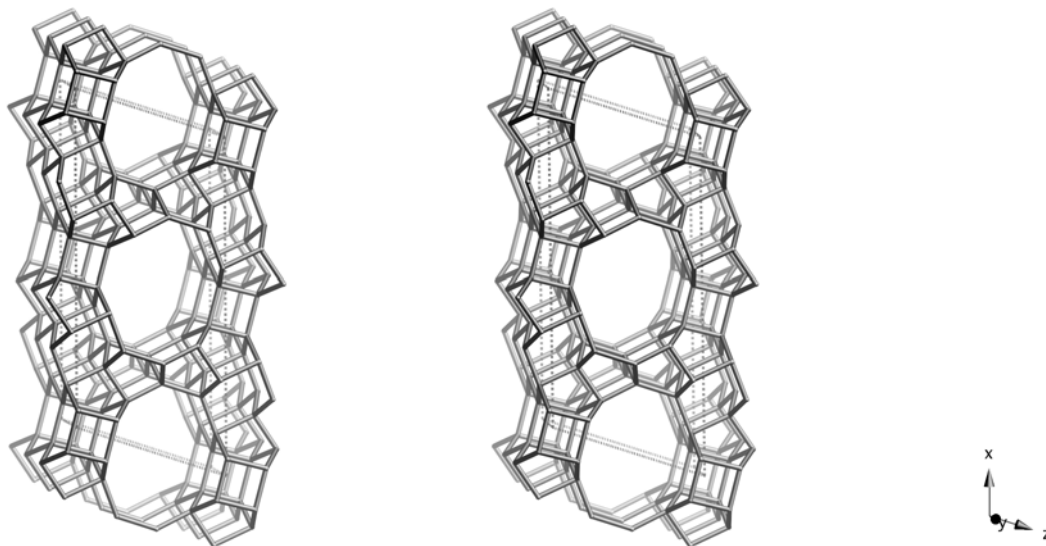


Framework Type Data



framework viewed along [010]

Idealized cell data: monoclinic, $C2/m$, $a = 25.6\text{\AA}$, $b = 5.3\text{\AA}$, $c = 12.1\text{\AA}$, $\beta = 109.3^\circ$

Coordination sequences and vertex symbols:

$T_1(4,m)$	4	11	22	38	60	88	113	147	190	243	4-6 ₂ ·5·6·5·6
$T_2(4,m)$	4	11	22	38	60	86	115	147	191	238	4-6 ₂ ·5·6·5·6
$T_3(4,m)$	4	12	21	37	62	84	119	147	188	239	5·6·5·6·5 ₂ ·6
$T_4(4,m)$	4	12	23	37	59	85	120	154	184	231	5·6·5·6·6·6 ₂
$T_5(4,m)$	4	12	21	37	58	87	119	154	182	227	5·6 ₂ ·5·6 ₂ ·5 ₂ ·6
$T_6(4,m)$	4	12	24	39	55	85	122	156	188	225	5·6 ₂ ·5·6 ₂ ·6 ₂ ·12 ₆
$T_7(4,m)$	4	12	23	38	59	83	115	155	192	233	5·5·5·5·6·12 ₆

Secondary building units: 5-[1,1]

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

*ZSM-12^(1,2)

[B-Si-O]-MTW⁽³⁾

[Ga-Si-O]-MTW⁽⁴⁾

CZH-5⁽⁵⁾

NU-13⁽⁶⁾

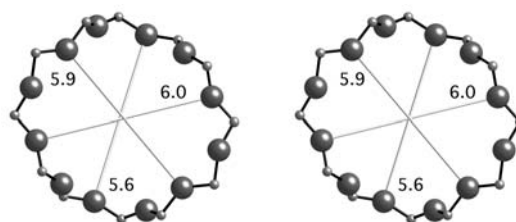
TPZ-12⁽⁷⁾

Theta-3⁽⁸⁾

VS-12⁽⁹⁾

Type Material Data

Crystal chemical data:	$\text{[Na}_n(\text{H}_2\text{O})_8\text{] [Al}_n\text{Si}_{56-n}\text{O}_{112}\text{]-MTW}$, $n < 5$ monoclinic, $C2/c$ $a = 24.863\text{\AA}$, $b = 5.012\text{\AA}$, $c = 24.328\text{\AA}$, $\beta = 107.72^\circ$ ⁽²⁾
Framework density:	19.4 T/1000 \AA^3
Channels:	[010] 12 5.6 x 6.0*



12-ring viewed along [010]

References:

- (1) LaPierre, R.B., Rohrman Jr., A.C., Schlenker, J.L., Wood, J.D., Rubin, M.K. and Rohrbaugh, W.J. *Zeolites*, **5**, 346-348 (1985)
- (2) Fyfe, C.A., Gies, H., Kokotailo, G.T., Marler, B. and Cox, D.E. *J. Phys. Chem.*, **94**, 3718-3721 (1990)
- (3) Bandyopadhyay, R., Kubota, Y., Sugimoto, N., Fukushima, Y. and Sugi, Y. *Microporous Mesoporous Mat.*, **32**, 81-91 (1999)
- (4) Zhi, Y.X., Tuel, A., Ben Taarit, Y. and Naccache, C. *Zeolites*, **12**, 138-141 (1992)
- (5) Hickson, D.A. *UK Pat. Appl. GB 2079735A* (1981)
- (6) Whittam, T.V. *Eur. Pat. Appl. EPA 0059059* (1982)
- (7) Sumitani, K., Sakai, T., Yamasaki, Y. and Onodera, T. *U.S. Patent 4,557,919* (1985)
- (8) Barlow, T.M. *E. Patent A-162,719* (1985)
- (9) Reddy, K.M., Moudrakovski, I. and Sayari, A. *Chem. Commun.*, 1491-1492 (1994)