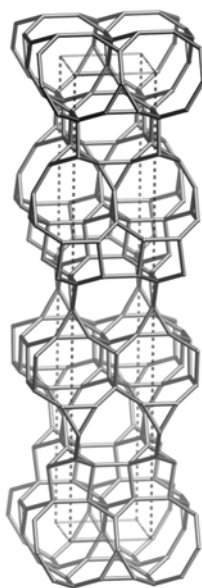
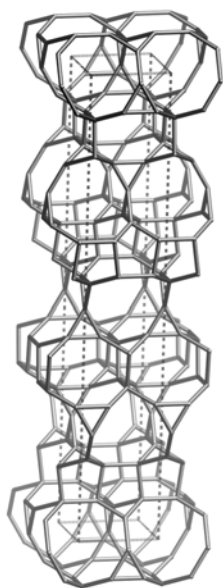


Framework Type Data



framework viewed along [100]

Idealized cell data: tetragonal, $I4_1/amd$, $a = 7.2\text{\AA}$, $c = 41.8\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(16,m)$	4	9	21	42	61	81	123	159	198	246	$3\cdot 4\cdot 8_2\cdot 9_4\cdot 8_2\cdot 9_4$
$T_2(16,m)$	4	11	21	40	61	93	122	151	195	251	$4\cdot 5_2\cdot 5\cdot 8\cdot 5\cdot 8$
$T_3(4,\bar{4}m2)$	4	8	20	48	56	84	120	160	212	240	$3\cdot 3\cdot 9_4\cdot 9_4\cdot 9_4\cdot 9_4$

Secondary building units: see *Compendium*

Composite building units:

lov



vsv



Materials with this framework type:

*VPI-7^(1,2)

Gaultite⁽³⁾

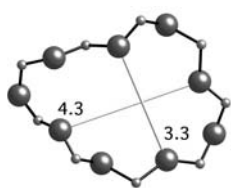
VSV-7#⁽⁴⁾

Type Material Data

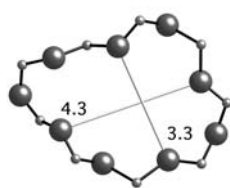
Crystal chemical data: $[\text{Na}_{26}\text{H}_6(\text{H}_2\text{O})_{44}][\text{Zn}_{16}\text{Si}_{56}\text{O}_{144}]$ -VSV
 orthorhombic, $Fdd2$, $a = 39.88\text{\AA}$, $b = 10.326\text{\AA}$, $c = 10.219\text{\AA}$ ⁽²⁾
 (Relationship to unit cell of Framework Type:
 $a' = c$, $b' = a\sqrt{2}$, $c' = b\sqrt{2}$
 or, as vectors, $\mathbf{a}' = \mathbf{c}$, $\mathbf{b}' = \mathbf{b} - \mathbf{a}$, $\mathbf{c}' = \mathbf{a} + \mathbf{b}$)

Framework density: 17.1 T/1000 \AA^3

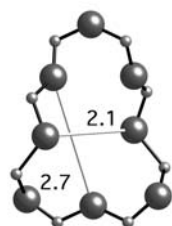
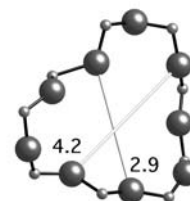
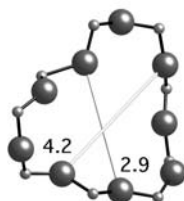
Channels: $[01\bar{1}]$ 9 3.3 x 4.3* \leftrightarrow $[011]$ 9 2.9 x 4.2* \leftrightarrow $[011]$ 8 2.1 x 2.7*



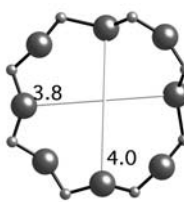
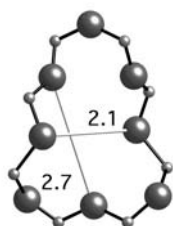
9-ring along $[01\bar{1}]$



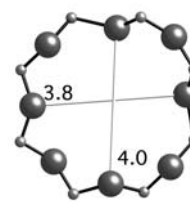
9-ring along $[011]$



8-ring along $[011]$



8-ring viewed along $[100]$

**References:**

- (1) Annen, M.J., Davis, M.E., Higgins, J.B. and Schlenker, J.L. *Chem. Commun.*, 1175-1176 (1991)
- (2) Röhrig, C., Gies, H. and Marler, B. *Zeolites*, **14**, 498-503 (1994)
- (3) Ercit, T.S. and van Velthuisen, J. *Can. Mineral.*, **32**, 855-863 (1994)
- (4) Röhrig, C., Dierdorf, I. and Gies, H. *J. Phys. Chem. Solids*, **56**, 1369-1376 (1995)