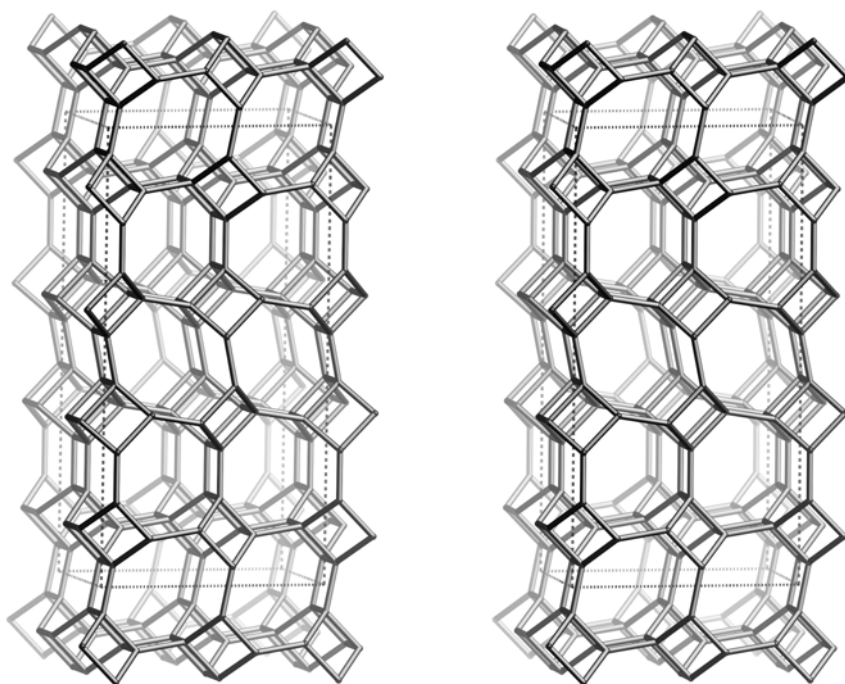


## Framework Type Data



framework viewed along [100]

**Idealized cell data:** orthorhombic, *Cmcm*,  $a = 9.9\text{\AA}$ ,  $b = 14.1\text{\AA}$ ,  $c = 28.1\text{\AA}$

**Coordination sequences and vertex symbols:**

$T_1(16,1)$	4	9	18	32	49	69	93	122	156	191	229	275	$4\cdot4\cdot4\cdot8_2\cdot8\cdot8$
$T_2(16,1)$	4	9	18	32	48	67	92	120	150	187	231	275	$4\cdot4\cdot4\cdot8_2\cdot8\cdot8$
$T_3(16,1)$	4	9	18	32	48	68	96	126	155	191	234	277	$4\cdot4\cdot4\cdot8_2\cdot8\cdot8$
$T_4(16,1)$	4	9	18	32	49	69	93	121	155	193	230	272	$4\cdot4\cdot4\cdot8_2\cdot8\cdot8$

**Secondary building units:** 4 or 8

**Composite building units:**

*dcc*

*gis*

*double  
crankshaft chain*



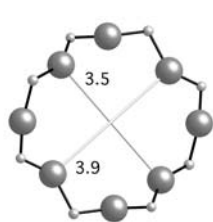
**Materials with this framework type:**

\*SIZ-7<sup>(1)</sup>

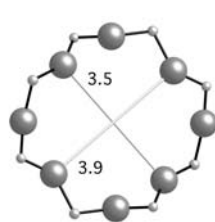
## Type Material: SIZ-7

## Type Material Data

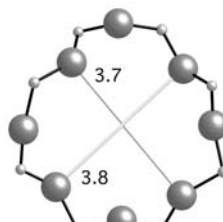
<b>Crystal chemical data:</b>	[Co <sub>12.8</sub> Al <sub>19.2</sub> P <sub>32</sub> O <sub>128</sub> ]-SIV monoclinic, <i>C2/c</i> $a = 10.2959\text{\AA}$ , $b = 14.3715\text{\AA}$ , $c = 28.599\text{\AA}$ , $\beta = 91.094^\circ$ <sup>(1)</sup>
<b>Framework density:</b>	15.1 T/1000Å <sup>3</sup>
<b>Channels:</b>	{ [100] 8 (3.5 x 3.9 + 8 3.7 x 3.8 ↔ [110] 8 3.7 x 3.8 ↔ [001] 8 3.8 x 3.9 } ***



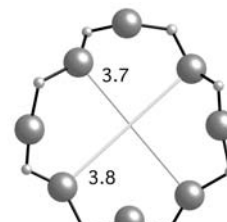
8-ring viewed along [100]



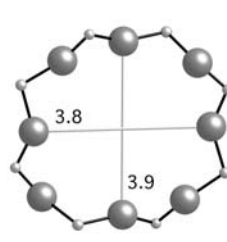
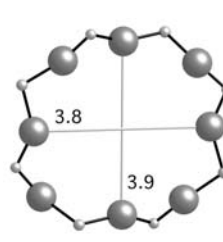
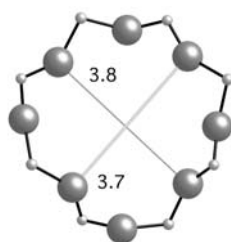
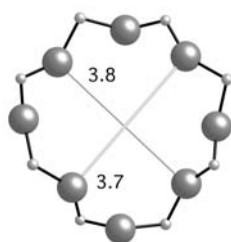
2nd 8-ring viewed along [100]



8-ring viewed along [110]



8-ring viewed along [001]

**References:**

- (1) Parnham, E.R. and Morris, R.E. *J. Am. Chem. Soc.*, **128**, 2204-2205 (2006)