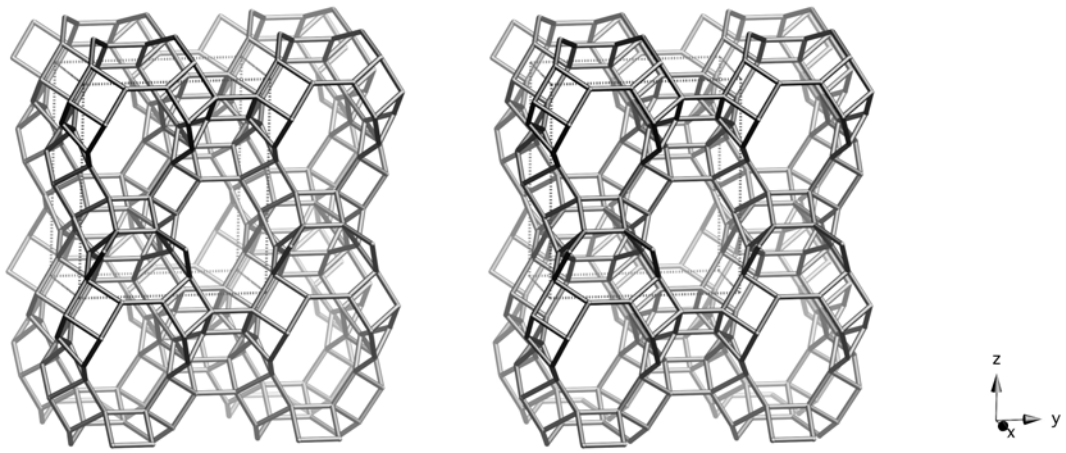
CGS

Pnma

Framework Type Data



framework viewed along [100]

Idealized cell data: orthorhombic, *Pnma*, *a* = 8.4Å, *b* = 14.1Å, *c* = 15.9Å

Coordination sequences and vertex symbols:

T_1 (8,1)	4	9	16	26	43	67	91	116	148	188	4·4·4·6·6·8
T_2 (8,1)	4	9	18	32	48	66	91	121	150	184	$4\cdot4\cdot4\cdot10_2\cdot8\cdot8_6$
T_3 (8,1)	4	9	17	28	45	66	91	119	148	186	$4\cdot4\cdot4\cdot8_2\cdot6\cdot10$
T_4 (8,1)	4	9	18	32	48	67	91	119	151	185	$4\cdot4\cdot4\cdot8\cdot8_4\cdot10$

Secondary building units: 4

Materials with this framework type:

*Co-Ga-Phosphate-6[(1)]
[Zn-Ga-P-O]-**CGS**[(1,2)]
TNU-1, [Ga-Si-O]-**CGS**[(3)]
TsG-1, [Ga-Si-O]-**CGS**[(4)]

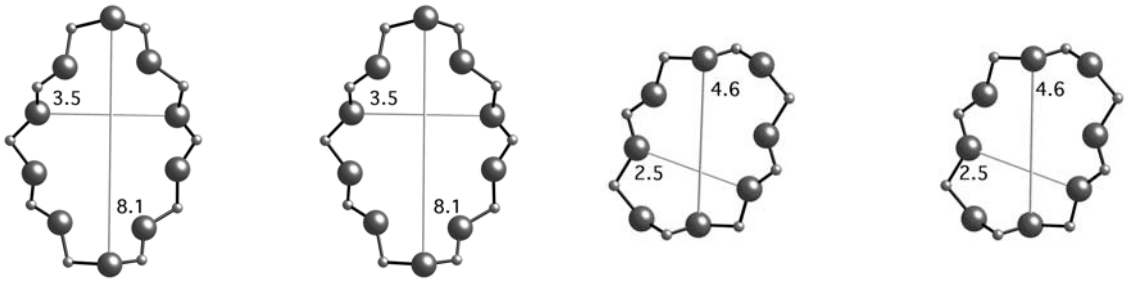
Type Material: Co-Ga-Phosphate-6 CGS

Type Material Data

Crystal chemical data: $|(C_7H_{14}N)_4|$ $[Co_4Ga_{12}P_{16}O_{64}]$-**CGS**
$C_7H_{14}N$ = quinuclidinium
monoclinic, $P2_1/c$
a = 14.365Å, b = 16.305Å, c = 8.734Å, β = 90.24° (1)
(Relationship to unit cell of Framework Type: $a' = b$, $b' = c$, $c' = a$)

Framework density: 15.6 T/1000Å^3

Channels: {[001] **10** 3.5 x 8.1 ↔ [100] **8** 2.5 x 4.6}***



10-ring viewed along [001] *8-ring viewed along [100]*

References:
(1) Cowley, A.R. and Chippindale, A.M. *Microporous Mesoporous Mat.*, **28**, 163-172 (1999)
(2) Lin, C.-H. and Wang, S.-L. *Chem. Mater.*, **12**, 3617-3623 (2000)
(3) Hong, S.B., Kim, S.H., Kim, Y.G., Kim, Y.C., Barrett, P.A. and Camblor, M.A. *J. Mater. Chem.*, **9**, 2287-2289 (1999)
(4) Lee, Y.J., Kim, S.J., Wu, G. and Parise, J.B. *Chem. Mater.*, **11**, 879-880 (1999)