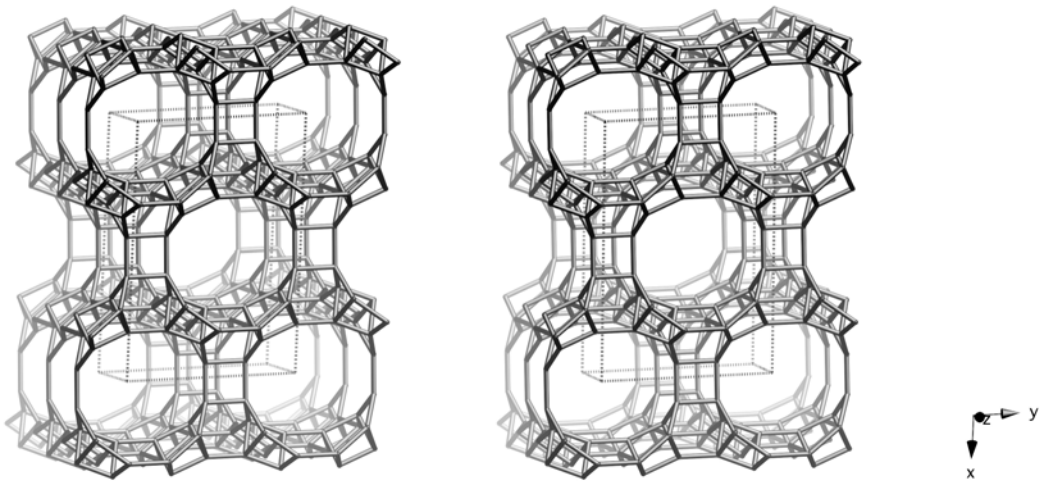
USI *C2/m*

Framework Type Data



framework viewed along [001]

Idealized cell data: monoclinic, *C*2/*m*, *a* = 21.1Å, *b* = 13.0Å, *c* = 9.7Å, β = 108.4°

Coordination sequences and vertex symbols:

T_1 (8,1)	4	10	17	27	46	70	94	112	134	181	230	259	$4\cdot6_2\cdot4\cdot6_2\cdot10\cdot12_2$
T_2 (8,1)	4	9	15	26	43	61	86	114	139	174	217	260	$4\cdot6_3\cdot4\cdot6_3\cdot4\cdot12_2$
T_3 (8,1)	4	9	17	26	41	65	85	108	145	181	213	252	$4\cdot4\cdot4\cdot6\cdot6\cdot6_2$
T_4 (8,1)	4	10	19	32	47	60	84	122	153	177	209	255	$4\cdot4\cdot6_3\cdot10\cdot6_3\cdot10$
T_5 (8,1)	4	9	18	29	44	68	92	116	144	173	214	267	$4\cdot4\cdot4\cdot6\cdot6\cdot6$

Secondary building units: 4-1

Composite building units:

dzc	*mei*	*bog*
double zigzag chain		

Materials with this framework type:

*IM-6[1]

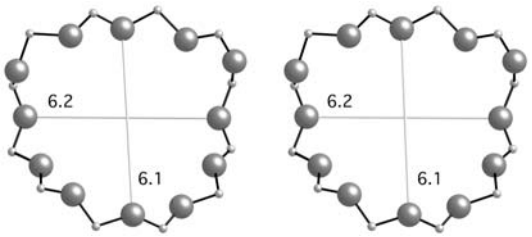
Type Material: IM-6 USI

Type Material Data

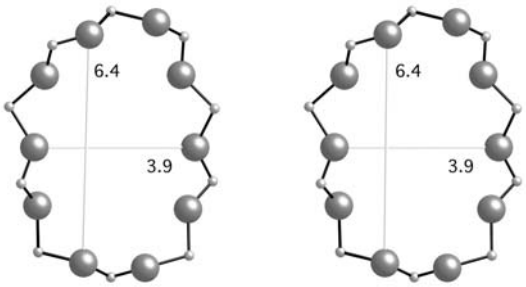
Crystal chemical data: $|(C_5H_{13}N_2)_2\ (H_3O)_2|\ [Co_4Ga_6P_{10}O_{40}]$-**USI**
$C_5H_{13}N_2$ = 1-methylpiperazinium
triclinic, $P\bar{1}$, a = 9.848Å, b = 12.470Å, c = 12.603Å
α = 63.47°, β = 74.56°, γ = 76.03° (1)

Framework density: 15.1 T/1000Å^3

Channels: [100] **12** 6.1 x 6.2 *↔ [001] **10** 3.9 x 6.4*



12-ring viewed along [100]



10-ring viewed along [001]

References:

(1) Josien, L., Simon Masseron, A., Gramlich, V., Patarin, J. and Rouleau, L. *Chem. Eur. Journal*, **9**, 856-861 (2003)