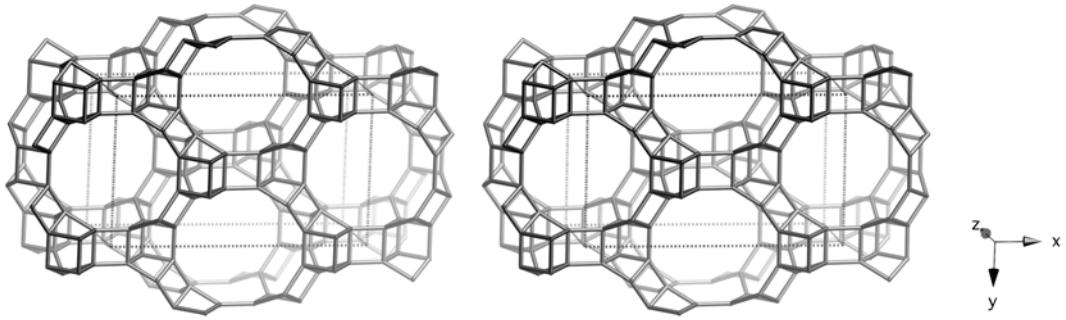
SFO *C2/m*

Framework Type Data



framework viewed along [001]

Idealized cell data: monoclinic, *C*2/*m*, *a* = 22.6Å, *b* = 13.6Å, *c* = 7.0Å, β = 99°

Coordination sequences and vertex symbols:

T_1 (8,1)	4	10	17	28	46	63	86	117	142	168	211	256	4·6·4·6·6·12
T_2 (8,1)	4	9	18	30	43	64	90	111	139	178	212	248	$4{\cdot}4{\cdot}4{\cdot}8{\cdot}6_3{\cdot}8$
T_3 (8,1)	4	9	18	29	42	65	91	111	138	176	210	248	$4{\cdot}4{\cdot}4{\cdot}12{\cdot}6{\cdot}6_3$
T_4 (8,1)	4	9	16	27	44	65	87	110	138	171	211	257	$4{\cdot}6{\cdot}4{\cdot}6_2{\cdot}4{\cdot}8$

Secondary building units: 6-2 or 4-4- or 4

Composite building units:

sti

Materials with this framework type:

*SSZ-51[(1)]

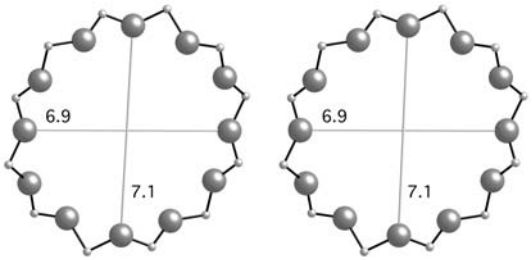
Type Material: SSZ-51 — SFO

Type Material Data

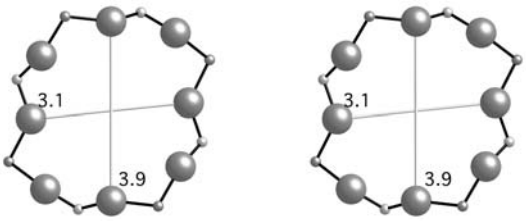
Crystal chemical data: $|(C_7N_2H_{11})_8\ (H_2O)_4|\ [F_8Al_{32}P_{32}O_{128}]$-**SFO**
$C_7N_2H_{11}$ = 4-dimethylaminopyridinium
monoclinic, *C*2/*c*
a = 21.759Å, *b* = 13.821Å, *c* = 14.224 Å, β = 98.849° (1)
(Relationship to unit cell of Framework Type: *a*' = *a*, *b*' = *b*, *c*' =2*c*)

Framework density: 15.1 T/1000Å^3

Channels: [001] **12** 6.9 x 7.1* ↔ [010] **8** 3.1 x 3.9*



12-ring viewed along [001]



8-ring viewed along [010]

References:

(1) Morris, R.E., Burton, A., Bull, L.M. and Zones, S.I. *Chem. Mater.*, **16**, 2844-2851 (2004)