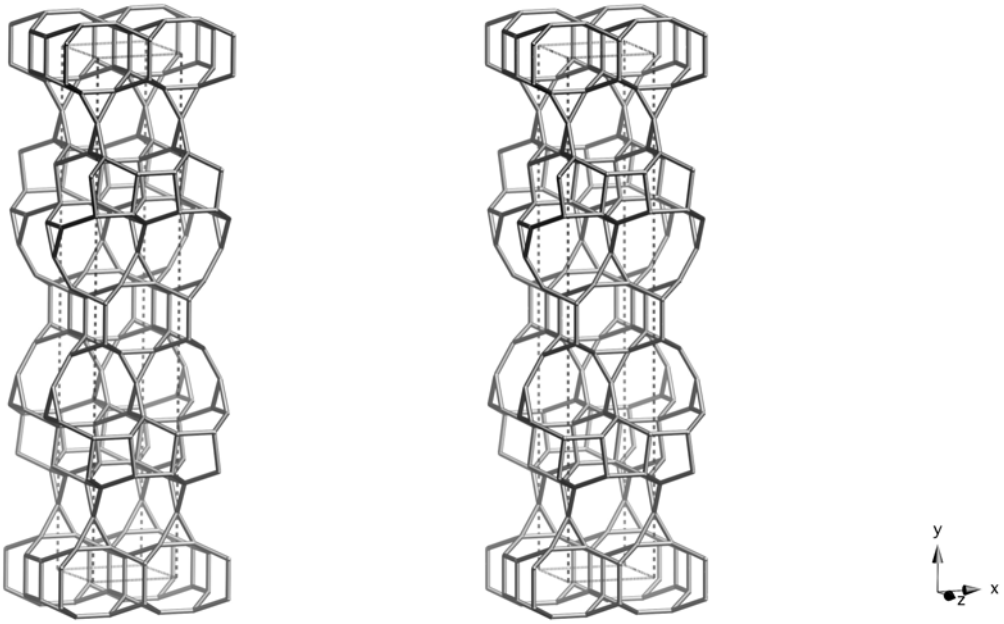
RSN *Cmmm*

Framework Type Data



framework viewed along [001]

Idealized cell data: orthorhombic, *Cmmm*, a = 7.2Å, b = 41.9Å, c = 7.2Å

Coordination sequences and vertex symbols:

T_1 (8,..*m*)	4	9	19	39	59	78	117	155	189	235	288	330	$3{\cdot}4{\cdot}8_3{\cdot}9_4{\cdot}8_3{\cdot}9_4$
T_2 (8,*m*..)	4	10	21	37	58	91	117	144	194	241	287	343	$4{\cdot}4{\cdot}6_2{\cdot}8{\cdot}6_2{\cdot}8$
T_3 (8,*m*..)	4	9	21	42	57	82	119	151	188	239	277	345	$3{\cdot}4{\cdot}8_2{\cdot}9_4{\cdot}8_2{\cdot}9_4$
T_4 (8,..*m*)	4	11	21	40	61	89	116	145	191	239	294	339	$4{\cdot}5_2{\cdot}5{\cdot}8{\cdot}5{\cdot}8$
T_5 (4,*m*2*m*)	4	8	20	44	55	80	118	152	204	228	272	354	$3{\cdot}3{\cdot}9_4{\cdot}9_4{\cdot}9_4{\cdot}9_4$

Secondary building units: see *Compendium*

Composite building units:

lov *vsv*

Materials with this framework type:

*RUB-17[1]

Type Material: RUB-17 RSN

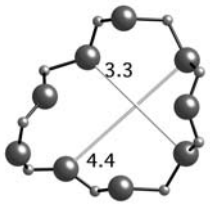
Type Material Data

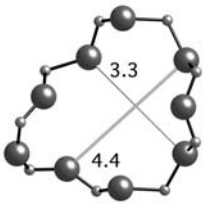
Crystal chemical data: $|K_4Na_{12}(H_2O)_{18}|[Zn_8Si_{28}O_{72}]$-**RSN**
monoclinic, *Cm*, *a* = 7.238Å, *b* = 40.56Å, *c* = 7.308Å, β = 91.8° (1)

Stability: Complete dehydration leads to destruction of the framework (1)

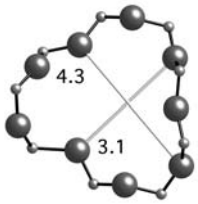
Framework density: 16.8 T/1000Å^3

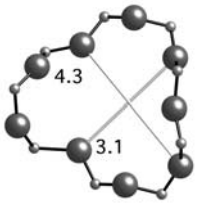
Channels: [100] **9** 3.3 x 4.4* ↔ [001] **9** 3.1 x 4.3* ↔[010] **8** 3.4 x 4.1*



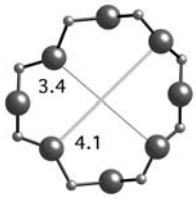


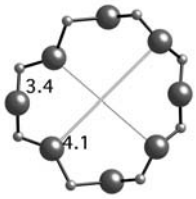
9-ring viewed along [100]





9-ring viewed along [001]





8-ring viewed along [010]

References:

(1) Röhrig, C. and Gies, H. *Angew. Chem., Int. Ed.*, **34**, 63-65 (1995)