TALC

1, f-talc-pyrophyllite, s-talc

Mg(3)[Si(4)O(10)](OH)(2)

Triclinic P 1(-) Z = 2

P1(-)

27 .5 .1988

Ref.Str.:

Perdikatsis B., Burziaff H. (1981)

* Z. Kristallogr., 156, 177-186

Initial data from BDM-file

Lattice parameters (cub. angs.,degr.):

a = 5.291 alpha = 98.68
b = 9.46 beta = 119.9
c = 5.29 gamma = 85.27

Unit cell volume (cub. angs.) = 226.9

Molar volume (cub.cm/mol.) = 68.34

Co-ordinates, thermal parameters, occupation for atomic positions:

NoP	x/a	y/b	z/c	B(j)	atom / occupation
1	0.0052	0.7093	0.2573	0.0	Si = 1.00
2	0.6714	0.7089	0.59	0.0	Si = 1.00
3	0.0	0.0	0.0	0.0	Mg = 1.00
4	0.6666	0.0001	0.3332	0.0	Mg = 1.00
5	0.6688	0.8824	0.6453	0.0	O = 1.00
6	0.3348	0.8874	0.9704	0.0	O = 1.00
7	0.0024	0.8824	0.3032	0.0	O = 1.00
8	0.8574	0.6519	0.9088	0.0	O = 1.00
9	0.8218	0.6506	0.3907	0.0	O = 1.00
10	0.3398	0.6516	0.427	0.0	O = 1.00
11	0.338	0.797	0.95	0.0	H = 1.00

Co-ordinates for all atomic positions :

No	NoP	x/a	y/b	z/c
1	1	0.0052	0.7093	0.2573
2	2	0.6714	0.7089	0.59
3	3	0.0	0.0	0.0
4	4	0.6666	0.0001	0.3332
5	5	0.6688	0.8824	0.6453
6	6	0.3348	0.8874	0.9704
7	7	0.0024	0.8824	0.3032
8	8	0.8574	0.6519	0.9088
9	9	0.8218	0.6506	0.3907
10	10	0.3398	0.6516	0.427
11	11	0.338	0.797	0.95
12	1	0.9948	0.2907	0.7427
13	2	0.3286	0.2911	0.41
14	4	0.3334	0.0	0.6668
15	5	0.3312	0.1176	0.3547
16	6	0.6652	0.1126	0.0296
17	7	0.9976	0.1176	0.6968
18	8	0.1426	0.3481	0.0912
19	9	0.1782	0.3494	0.6093
20	10	0.6602	0.3484	0.573
21	11	0.662	0.203	0.05