

Zellparameter und optische Daten:

ao = 5.838
bo = 7.224
co = 8.69
ao : bo : co 0.8081 : 1 : 1.2029
n _x = 1.84
n _y = 1.855
n _z = 1.92
2 V = 54°
Z = 4
optisch zweiachsig positiv
Pleochroismus:
x = gelbbraun y = gelb z = orangerot

Chemismus (in Gew.-%)

SiO ₂	29.44
CaO	27.47
Mn ₂ O ₃	38.67
H ₂ O	4.41
□	99.99

Röntgendaten: Probe von der Cerchiara Mine, Northern Appenines, Italy. (BASSO et al., 1993).
X-Ray, Wellenlänge: 1.541838

Mozartit			
h	k	d-Wert	2-Theta
0	1	1	5.5552
0	0	2	4.3450
1	1	1	4.0244
0	2	0	3.6120
1	0	2	3.4856
1	2	0	3.0716
2	0	0	2.9190
1	2	1	2.8960
0	2	2	2.7776
2	0	1	2.7671
0	1	3	2.6886
2	1	1	2.5840
1	2	2	2.5082
1	1	3	2.4421
2	0	2	2.4230
0	3	1	2.3206
2	1	2	2.2972
2	2	0	2.2703
0	2	3	2.2598
2	2	1	2.1966
0	0	4	2.1725
1	3	1	2.1564
0	3	2	2.1062

0 1 4	2.0805	9.23	43.50
2 2 2	2.0122	24.43	45.05
1 3 2	1.9812	2.52	45.80
1 1 4	1.9597	4.89	46.33
3 1 0	1.8790	1.30	48.44
0 2 4	1.8617	10.53	48.92
3 1 1	1.8366	5.46	49.64
2 3 1	1.8165	18.70	50.23
0 4 0	1.8060	2.45	50.54
3 0 2	1.7760	1.55	51.45
1 3 3	1.7651	16.53	51.80
2 0 4	1.7428	17.49	52.51
3 2 0	1.7132	8.34	53.49
1 4 1	1.6923	1.82	54.20
0 1 5	1.6898	2.51	54.29
0 4 2	1.6677	26.13	55.07
1 0 5	1.6658	1.47	55.14
1 1 5	1.6232	4.13	56.71
3 2 2	1.5938	2.92	57.86
3 1 3	1.5764	8.05	58.55
2 2 4	1.5696	11.54	58.83
2 3 3	1.5636	43.03	59.08
2 4 0	1.5358	15.36	60.26
1 4 3	1.4823	2.34	62.68
2 1 5	1.4624	29.59	63.63
4 0 0	1.4595	16.19	63.77
0 0 6	1.4483	3.98	64.32
2 4 2	1.4480	2.78	64.33
0 5 1	1.4252	7.12	65.49
2 3 4	1.4118	1.16	66.19
4 1 1	1.4116	6.25	66.20
0 3 5	1.4093	8.20	66.33
0 4 4	1.3888	2.98	67.44
1 3 5	1.3699	3.96	68.49
4 2 0	1.3532	1.72	69.46
0 2 6	1.3443	2.77	69.99
3 3 3	1.3415	5.81	70.16
1 2 6	1.3100	6.72	72.10
4 2 2	1.2920	2.54	73.27
4 1 3	1.2827	12.64	73.89
2 1 6	1.2770	1.69	74.27
3 1 5	1.2759	2.06	74.35
1 5 3	1.2623	2.83	75.28
2 4 4	1.2541	1.17	75.86
4 3 1	1.2355	3.83	77.22
4 2 3	1.2260	1.66	77.92
2 2 6	1.2210	2.21	78.30
4 0 4	1.2115	1.62	79.04
4 1 4	1.1948	1.59	80.36
2 5 3	1.1821	13.39	81.41
1 6 0	1.1792	5.52	81.65
0 6 2	1.1603	2.58	83.28
4 2 4	1.1486	4.11	84.32
3 3 5	1.1414	2.96	84.97
2 1 7	1.1284	1.56	86.19
3 5 2	1.1208	1.10	86.92
0 5 5 x	1.1110	2.24	87.88
5 2 0	1.1110	2.79	87.88
3 2 6	1.1060	3.18	88.37
0 3 7	1.1034	3.29	88.64
4 4 2	1.0983	8.92	89.16

a = 5.8380 Å
b = 7.2240 Å
c = 8.6900 Å