48-0054 Wavelength= 1.936042 i

Ce2Si05

Cerium Silicate

Rad.: λ: Filter: d-sp:

Cut off: Int.: I/Icor.:

Ref: Tas, A., Middle East Technical Univ., Ankara, Turkey, Private Communication, (1996)

Sys.: Monoclinic S.G.: $P2_1/c$ (14)

a: 9.278(1) b: 7.382(1) c: 6.956(1) A: 1.2568 C: 0.9423

α: β: 108.2 γ: Z: 4 mp:

Ref: Ibid.

Dx: 5.699 Dm: 5.640 SS/FOM: F_{30} = 11(0.036 , 74)

PSC: mP32. Mwt: 388.32. Volume[CD]: 452.58.

d(A)	Int	h	k	l	d(A)	Int	h	k	l
8.78	2	1	0	0	2.200	2	4	0	0
5.65	12	$\bar{1}$	1	0	2.175	15	$\bar{4}$	0	2
4.92	3	0	1	1	2.089	4	$\bar{4}$	1	2
4.82	5	$\bar{1}$	1	1	2.021	14	3	2	1
4.40	22	2	0	0	1.962	13	2	2	2
3.92	4	1	1	1	1.942	16	2	3	2
3.78	7	2	1	0	1.918	13	$\bar{3}$	3	1
3.74	2	$\bar{2}$	1	1	1.851	12	1	3	2
3.470	3	1	0	2	1.802	22	$\bar{3}$	3	2
3.220	24	0	2	1	1.778	10	0	4	1
3.190	16	$\bar{1}$	2	1	1.756	8	$\bar{5}$	1	2
3.160	63	$\bar{2}$	0	2	1.726	2	1	0	4
3.140	16	1	1	2	1.701	1	2	4	0
3.015	3	0	1	2	1.690	2	$\bar{2}$	1	4
2.934	26	3	0	0	1.676	5	4	2	3
2.886	69	1	2	1	1.656	3	$\bar{5}$	2	1
2.814	100	$\bar{2}$	2	1	1.596	3	$\bar{2}$	4	2
2.726	7	3	1	0	1.580	4	3	4	1
2.490	1	$\bar{3}$	1	2	1.549	9	1	3	3
2.359	2	3	2	1	1.513	11	$\bar{3}$	4	2
2.308	4	0	3	1	1.507	2	0	2	4
2.220	16	4	1	1	1.499	4	$\bar{6}$	1	2

d(A)	Int	h	k	l
1.466	6	3	4	1
1.457	1	1	5	0
1.440	1	6	1	0
1.408	3	$\bar{4}$	4	2
1.383	2	2	1	4
1.355	2	1	4	3
1.349	3	$\bar{6}$	2	3
1.331	3	5	3	1
1.324	1	6	1	1
1.316	3	2	2	4
1.292	2	$\bar{5}$	4	2
1.274	10	2	4	3
1.261	2	$\bar{6}$	3	0
1.245	2	2	5	2
1.238	2	$\bar{7}$	2	1
1.189	2	1	6	1
1.184	1	2	6	0
1.181	3	1	4	4
1.165	2	$\bar{6}$	3	4
1.159	2	7	3	1
1.144	2	5	2	3
1.142	2	$\bar{5}$	4	4
1.132	3	$\bar{8}$	1	1
1.123	2	$\bar{2}$	5	4
1.107	2	5	4	2
1.087	1	6	4	1
1.066	2	$\bar{6}$	5	1
1.064	2	6	1	3
1.057	2	7	1	2
1.055	2	8	2	0