

Nd₂Si₂O₇

Neodymium Silicate

				d(A)	Int	h	k	l					d(A)	Int	h	k	l	
				7.188	35	1	1	0					2.6440	13	4	1	1	
				6.477	15	2	0	0					2.6380	5	4	1	1	
				5.182	5	2	1	0					2.5900	6	4	2	0	
				4.986	2	1	0	1					2.5400	6	0	3	1	
				4.970	1	1	0	1					2.4906	12	1	3	1	
Rad.:	λ:	Filter:	d sp:	4.577	1	0	1	1					2.4801	7	5	1	0	
Cut off:				4.319	13	0	2	0					2.3933	4	3	3	0	
Int.:				4.307	8	1	1	1					2.3640	2	2	3	1	
I/lor.:				3.861	1	3	1	0					2.3317	3	4	2	1	
Ref: Tas, A., Middle East Technical Univ., Ankara, Turkey, Private Communication, (1996)				3.743	4	2	1	1					2.2862	1	0	2	2	
				3.732	3	2	1	1					2.2526	1	1	2	2	
Sys.: Monoclinic				3.590	3	2	2	0					2.2211	1	5	2	0	
S.G.: P2 ₁ /n (14)				3.375	56	3	0	1					2.1887	1	3	3	1	
a: 12.9461(5)	b: 8.6326(3)	c: 5.3908(4)	A: 1.4997	C: 0.6245	3.369	100	0	2	1					2.1853	1	3	3	1
α:	β: 90.12	γ:	Z: 4	mp:	3.363	45	3	0	1					2.1590	9	0	4	0
Ref: Ibid.				3.264	31	1	2	1					2.1569	18	6	0	0	
				3.258	24	1	2	1					2.1284	19	1	4	0	
				3.142	11	3	1	1					2.0939	8	6	1	0	
Dx: 5.034				3.1330	7	3	1	1					2.0553	3	5	2	1	
Dm: 5.000				3.0520	31	3	2	0					2.0507	3	5	2	1	
SS/FOM: F ₃₀ = 48(.0130, 48)				3.0320	4	4	1	0					2.0470	2	2	4	0	
				2.8110	8	1	3	0					2.0232	13	3	2	2	
PSC: mP44. Mwt: 456.65. Volume[CD]: 602.47.																		

d(A)	Int	h	k	l	d(A)	Int	h	k	l	d(A)	Int	h	k	l
2.0182	18	3	2	2	1.5682	1	5	3	2	1.2637	1	1	6	2
2.0171	8	4	1	2	1.5645	1	5	3	2	1.2629	2	1	6	2
2.0110	6	4	1	2	1.5558	2	7	3	0	1.2597	1	8	4	1
1.9989	2	4	3	1	1.5372	1	3	5	1	1.2579	1	8	4	1
1.9963	2	4	3	1	1.5258	3	6	4	0	1.2540	1	9	1	2
1.9807	1	1	4	1	1.5149	2	8	2	0	1.2514	1	8	3	2
1.9790	2	1	4	1	1.5040	1	7	1	2	1.2470	1	7	4	2
1.9539	2	6	1	1	1.4997	1	7	1	2	1.2464	2	10	1	1
1.9489	2	6	1	1	1.4956	1	4	4	2	1.2452	2	2	6	2
1.9459	1	1	3	2	1.4930	1	4	4	2	1.2442	1	7	4	2
1.9296	1	6	2	0	1.4517	1	6	3	2	1.2293	1	7	5	1
1.9142	8	2	4	1	1.4450	2	1	5	2	1.2244	2	5	6	1
1.9128	6	2	4	1	1.4441	1	1	5	2	1.2192	1	9	2	2
1.8829	4	2	3	2	1.4364	4	5	5	0	1.2170	2	3	6	2
1.8802	3	2	3	2	1.4298	2	1	6	0	1.2158	1	9	2	2
1.8697	7	4	2	2	1.4193	1	2	5	2	1.2111	1	2	7	0
1.8650	4	4	2	2	1.4181	1	2	5	2	1.1972	1	1	7	1
1.8285	2	5	1	2	1.4137	1	5	4	2	1.1857	1	3	7	0
1.8187	5	6	2	1	1.4109	1	5	4	2	1.1826	1	4	6	2
1.8161	14	3	4	1	1.4044	4	7	4	0	1.1817	1	2	7	1
1.8108	3	5	3	1	1.3912	3	9	0	1	1.1692	1	9	4	1
1.7952	3	4	4	0	1.3901	1	0	6	1	1.1685	1	8	4	2
1.7914	1	3	3	2	1.3884	1	9	0	1	1.1678	1	9	4	1
1.7885	1	3	3	2	1.3825	1	1	6	1	1.1664	1	11	1	0
1.7518	1	7	0	1	1.3819	1	1	6	1	1.1628	1	9	3	2
1.7480	1	7	0	1	1.3736	1	9	1	1	1.1599	1	9	3	2
1.7162	5	7	1	1	1.3722	1	8	1	2	1.1585	1	3	7	1
1.7133	3	7	1	1	1.3710	1	9	1	1	1.1577	1	3	7	1
1.7113	2	1	5	0	1.3654	2	8	3	1	1.1551	3	10	1	2
1.7044	4	4	4	1	1.3644	1	9	2	0	1.1539	2	8	5	1
1.7028	6	4	4	1	1.3597	2	7	4	1	1.1529	2	8	5	1
1.6843	2	0	4	2	1.3586	4	2	6	1					
1.6826	1	4	3	2	1.3490	4	7	3	2					
1.6795	1	4	3	2	1.3294	1	6	4	2					
1.6713	3	1	4	2	1.3270	1	4	5	2					
1.6702	5	1	4	2	1.3256	2	4	5	2					
1.6590	17	5	4	0	1.3237	1	9	2	1					
1.6505	2	6	1	2	1.3226	1	8	2	2					
1.6458	3	6	3	1	1.3186	3	8	2	2					
1.6447	2	0	5	1	1.3145	2	4	6	0					
1.6308	2	1	5	1	1.3083	1	6	5	1					
1.6291	2	2	4	2	1.2800	1	10	1	0					
1.6227	2	7	2	1	1.2776	3	4	6	1					
1.6198	1	7	2	1	1.2767	2	4	6	1					
1.5943	5	2	5	1	1.2695	1	0	6	2					
1.5930	10	2	5	1	1.2688	2	5	5	2					
1.5715	1	6	2	2	1.2664	1	5	5	2					