

TABLE VII.  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> powder data (CuK $\alpha$  radiation).

hkl	d <sub>c</sub>	d <sub>o</sub>	l <sub>c</sub>	$\Sigma l_c$	l <sub>o</sub>	hkl	d <sub>c</sub>	d <sub>o</sub>	l <sub>c</sub>	$\Sigma l_c$	l <sub>o</sub>	hkl	d <sub>c</sub>	d <sub>o</sub>	l <sub>c</sub>	$\Sigma l_c$	l <sub>o</sub>						
200	5.942	-	0.0	0.0	-	222	1.275	-	0.6	1.3	-	330	0.982	-	0.1	0.1	-	12,2,1	0.845	0.845	1.4	1.4	W
001	5.635	5.62	1.6	1.6	VW	224	1.275	-	0.7	1.3	-	405	0.980	-	0.0	0.0	-	731	0.845	0.845	0.0	0.0	-
201	4.679	4.67	3.8	3.8	W	114	1.243	-	0.1	-	-	331	0.977	0.976	0.5	1.8	VW	10,2,2	0.843	0.843	0.5	1.7	VW
201	3.677	3.65	(2.0)	2.0	VW	514	1.243	-	0.2	0.4	-	12,0,3	0.977	1.3	1.3	1.8	VW	12,2,2	0.842	0.842	1.2	1.2	-
400	2.971	-	21.7	22.8	VS	911	1.241	-	0.1	-	-	315	0.969	-	0.6	0.6	-	406	0.840	0.840	0.1	0.1	-
110	2.945	2.95	1.1	1.1	-	603	1.226	1.223	1.9	2.1	W	11,1,1	0.965	-	0.5	-	-	10,0,5	0.840	0.840	0.0	0.0	-
401	2.930	2.92	26.1	26.1	VS	10,0,T	1.223	0.2	2.1	W	205	0.964	0.964	1.3	2.1	W	13,1,1	0.837	0.837	2.9	2.9	M-S, Br.	
002	2.817	2.81	18.0	45.5	VVS	513	1.217	-	0.4	-	-	406	0.963	-	0.3	-	-	315	0.835	0.835	4.0	12.0	M-S, Br.
111	2.675	2.66	12.7	12.7	W-M	621	1.215	-	0.8	1.2	-	331	0.958	-	0.4	0.5	-	916	0.835	0.835	5.1	5.1	-
111	2.549	2.536	50.2	50.2	VVS	712	1.212	-	0.1	-	-	132	0.957	-	0.1	-	-	914	0.833	0.833	2.1	2.6	W, Br.
310	2.412	-	0.2	0.2	-	912	1.212	1.209	0.0	1.0	VW, Br.	623	0.954	0.952	2.1	2.3	W	13,1,4	0.833	0.833	0.5	0.5	-
401	2.403	2.390	17.7	17.7	M-S	910	1.211	-	0.9	-	-	10,2,1	0.953	0.2	2.3	W	12,2,0	0.830	0.830	2.3	2.3	-	
311	2.343	-	29.1	-	-	802	1.206	-	0.2	-	-	132	0.944	0.945	0.3	1.1	VW	733	0.829	0.829	0.4	3.1	W-M
202	2.340	2.332	1.1	31.8	S	10,0,Z	1.201	-	0.0	0.2	-	332	0.944	0.8	0.8	1.1	VW	134	0.829	0.829	0.0	0.0	-
402	2.340	-	1.6	-	-	223	1.193	-	0.2	-	-	822	0.943	0.0	0.0	-	-	334	0.829	0.829	0.4	0.4	-
311	2.109	2.100	4.5	8.2	W-M	10,0,0	1.188	-	0.0	0.2	-	10,2,2	0.943	0.0	0.0	-	-	407	0.828	0.828	0.1	0.1	-
112	2.098	-	3.7	-	-	023	1.182	-	0.0	0.0	-	006	0.939	0.1	-	-	-	207	0.824	0.824	0.0	0.1	-
601	2.024	2.014	2.4	2.4	W	422	1.171	1.0	1.0	-	606	0.939	0.2	-	-	-	425	0.823	0.823	0.1	0.1	-	
600	1.980	-	1.5	-	-	622	1.171	1.168	0.4	1.6	W, Br.	12,0,1	0.938	0.937	0.3	1.8	W	12,2,3	0.822	0.822	0.4	0.5	-
112	1.979	1.971	3.4	13.1	M	404	1.170	-	0.1	-	-	10,2,0	0.936	0.0	-	-	-	11,1,3	0.821	0.821	0.1	0.1	-
312	1.978	-	8.2	-	-	804	1.170	-	0.1	-	-	10,0,5	0.936	1.2	-	-	-	715	0.819	0.819	0.1	0.1	-
203	1.927	-	0.3	0.3	-	423	1.159	-	0.6	0.6	-	531	0.934	-	0.1	0.1	-	10,0,4	0.818	0.818	1.9	1.9	W
511	1.885	-	1.1	-	-	205	1.159	-	0.0	-	-	915	0.932	0.0	-	-	-	14,0,4	0.818	0.818	2.7	3.4	W†
003	1.878	-	0.0	1.1	-	405	1.148	0.1	0.1	-	530	0.932	0.6	-	-	-	607	0.816	0.816	0.7	0.7	-	
510	1.872	1.865	4.8	4.8	M	314	1.147	0.9	4.2	W-M	913	0.930	0.929	1.0	2.9	W, Br.	225	0.814	0.814	3.9	4.9	W-M†	
402	1.838	1.831	2.5	3.4	W	714	1.146	2.8	4.2	W-M	714	0.930	0.4	-	-	-	425	0.814	0.814	1.0	1.0	-	
602	1.838	-	0.9	-	-	621	1.146	0.4	-	-	11,1,4	0.929	0.9	-	-	-	184	0.813	0.813	0.2	0.6	-	
403	1.791	1.788	1.6	1.6	VW	913	1.136	-	0.0	0.0	-	424	0.927	-	0.0	0.1	-	534	0.813	0.813	0.3	0.6	-
601	1.744	1.736	1.0	1.0	VW	911	1.134	1.132	0.6	1.9	W	824	0.927	0.1	-	-	-	931	0.812	0.812	0.1	0.1	-
312	1.714	-	0.0	0.1	-	10,0,3	1.132	1.3	1.9	W	225	0.921	0.0	-	-	-	14,0,1	0.811	0.811	0.0	0.1	-	
512	1.714	-	0.1	-	-	223	1.127	-	0.9	0.9	-	316	0.921	-	0.0	-	-	805	0.810	0.810	0.1	0.1	-
511	1.685	1.677	2.8	4.7	W-M	005	1.127	-	0.0	-	-	804	0.919	0.0	-	-	-	533	0.806	0.806	0.4	0.6	-
203	1.680	-	1.9	-	-	10,0,1	1.111	-	0.1	0.1	-	12,0,4	0.919	0.0	-	-	-	007	0.805	0.805	0.2	0.6	-
113	1.628	1.622	1.4	1.4	VW	605	1.098	1.098	1.7	1.7	W	10,0,3	0.911	0.6	-	-	-	732	0.804	0.804	0.1	0.1	-
313	1.598	1.595	13.2	13.2	M-S	623	1.089	1.086	2.2	2.2	VW	332	0.911	0.0	-	-	-	932	0.804	0.804	0.0	0.7	-
603	1.560	1.559	3.7	3.7	W	315	1.083	-	1.0	1.0	-	532	0.911	0.0	-	-	-	930	0.804	0.804	0.8	0.8	-
113	1.543	1.539	11.8	11.8	M	821	1.077	3.6	5.7	W-M, Br.	115	0.910	1.3	-	-	-	12,0,3	0.801	0.801	0.2	0.5	-	
801	1.528	1.525	5.9	16.4	M-S, Br.	115	1.074	1.075	2.1	5.7	W-M, Br.	10,2,3	0.908	1.9	-	-	-	026	0.800	0.800	0.2	0.2	-
020	1.520	-	10.5	-	-	820	1.062	0.0	0.0	-	531	0.906	-	0.5	0.5	-	317	0.800	0.800	0.1	0.1	-	
711	1.512	-	0.2	0.2	-	205	1.062	1.061	1.0	1.0	VW	025	0.906	0.0	-	-	-	625	0.799	0.799	0.9	8.8	M
800	1.485	-	0.2	-	-	713	1.062	0.0	0.0	-	133	0.897	0.3	-	-	-	12,2,1	0.798	0.798	1.4	1.4	-	
710	1.482	1.479	3.3	3.5	W-M	515	1.057	-	1.0	-	10,2,1	0.897	0.2	-	-	-	10,2,5	0.797	0.797	6.3	6.3	-	
220	1.473	-	0.0	-	-	622	1.055	-	0.1	1.1	-	13,1,1	0.896	0.3	-	-	-	517	0.795	0.795	4.9	4.9	W†
513	1.470	-	0.1	-	-	822	1.055	0.0	-	-	11,1,2	0.896	0.1	-	-	-	807	0.790	0.789	1.5	9.8	M	
021	1.468	-	0.0	0.2	-	803	1.050	1.048	0.5	5.6	M	206	0.896	0.6	1.8	W, Br.	117	0.788	0.788	8.1	9.8	M	
602	1.465	-	0.1	-	-	224	1.049	5.1	5.1	M	805	0.895	0.0	-	-	-	13,1,2	0.787	0.787	0.3	0.3	-	
802	1.465	-	0.0	-	-	423	1.046	-	0.7	0.7	-	515	0.895	0.1	-	-	-	15,1,2	0.787	0.787	0.0	0.0	-
204	1.450	1.449	7.9	7.9	M	11,1,1	1.043	1.043	1.3	1.3	VW	605	0.893	1.8	-	-	-	824	0.787	0.787	0.0	0.0	-
221	1.446	-	0.2	0.2	-	604	1.038	-	0.2	0.2	-	333	0.892	2.7	7.3	M, Br.	12,2,4	0.786	0.786	0.2	0.2	-	
403	1.441	-	1.0	-	-	10,0,4	1.037	-	0.0	0.0	-	133	0.882	2.9	-	-	-	334	0.784	0.784	1.6	1.6	-
512	1.440	1.436	14.9	31.9	VS	915	1.035	2.5	-	-	-	116	0.880	0.880	0.1	3.3	W	734	0.784	0.784	5.1	13.3	M-S
712	1.440	-	16.0	-	-	912	1.034	2.7	-	-	-	715	0.880	0.3	-	-	-	15,1,1	0.784	0.784	5.6	5.6	-
004	1.409	-	0.2	-	-	11,1,2	1.034	1.033	2.1	10.0	M-S, Br.	731	0.876	-	0.1	0.2	-	516	0.783	0.783	0.9	0.9	-
404	1.409	-	0.1	0.4	-	024	1.033	0.1	-	-	-	13,1,3	0.873	-	0.3	0.3	-	11,1,5	0.783	0.782	3.5	8.4	W, Br.†
221	1.405	-	0.1	-	-	424	1.033	0.1	-	-	-	12,0,2	0.872	1.0	-	-	-	10,2,3	0.782	0.782	3.7	3.7	-
313	1.388	-	0.4	0.4	-	115	1.033	1.2	-	-	-	14,0,2	0.872	0.8	-	-	-	933	0.781	0.781	0.1	1.6	-
711	1.366	-	0.0	0.0	-	805	1.022	-	0.1	0.1	-	225	0.871	0.870	1.9	4.7	M	931	0.780	0.780	0.0	0.0	-
801	1.359	-	3.5	-	-	11,1,0	1.018	0.5	-	-	-	14,0,1	0.870	0.0	-	-	-	606	0.780	0.780	0.0	0.0	-
420	1.353	1.355	1.7	9.2	M, Br.	12,0,T	1.017	0.6	1.1	VW	730	0.870	1.0	-	-	-	12,0,5	0.780	0.780	0.1	0.1	-	
421	1.349	-	4.0	-	-	821	1.013	2.9	-	-	-	533	0.868	-	0.0	0.0	-	717	0.778	0.778	0.1	0.1	-
022	1.338	1.336	2.4	-	-	10,0,2	1.012	0.2	3.6	W	823	0.864	-	1.0	1.0	-	15,1,3	0.775	0.775	15.7	15.7	M-S	
222	1.338	-	3.1	5.6	W-M	12,0,Z	1.012	0.5	-	-	-	532	0.861	4.7	9.8	M-S, Br.	624	0.857	0.857	0.0	0.0	-	
803	1.328	-	0.7	-	-	130	1.010	0.0	-	-	-	732	0.861	5.1	-	-	-	10,2,4	0.856	0.856	0.4	0.4	-
204	1.303	-	2.1	-	-	715	1.003																