Table 1: Magnetic space group information.

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
1.1	MSG:1.1	$P1$	$P1$	triclinic	C_1	C_1^1	1.1.1 (1)	I
1.2	MSG:1.2	$P11'$	$P11'$	triclinic	C_1	C_1^1	1.2.2 ($11'$)	II
1.3	MSG:1.3	P_S1	$P_{2s}1$	triclinic	C_1	C_1^1	1.2.2 ($11'$)	IV
2.4	MSG:2.4	$P\bar{1}$	$P\bar{1}$	triclinic	C_i	C_i^1	2.1.3 ($\bar{1}$)	I
2.5	MSG:2.5	$P\bar{1}1'$	$P\bar{1}1'$	triclinic	C_i	C_i^1	2.2.4 ($\bar{1}1'$)	II
2.6	MSG:2.6	$P\bar{1}'$	$P\bar{1}'$	triclinic	C_i	C_i^1	2.3.5 ($\bar{1}'$)	III
2.7	MSG:2.7	$P_S\bar{1}$	$P_{2s}\bar{1}$	triclinic	C_i	C_i^1	2.2.4 ($\bar{1}1'$)	IV
3.1	MSG:3.1	$P2$	$P2$	monoclinic	C_2	C_2^1	3.1.6 (2)	I
3.2	MSG:3.2	$P21'$	$P21'$	monoclinic	C_2	C_2^1	3.2.7 ($21'$)	II
3.3	MSG:3.3	$P2'$	$P2'$	monoclinic	C_2	C_2^1	3.3.8 ($2'$)	III
3.4	MSG:3.4	P_a2	$P_{2a}2$	monoclinic	C_2	C_2^1	3.2.7 ($21'$)	IV
3.5	MSG:3.5	P_b2	$P_{2b}2$	monoclinic	C_2	C_2^1	3.2.7 ($21'$)	IV
3.6	MSG:3.6	P_C2	C_P2	monoclinic	C_2	C_2^1	3.2.7 ($21'$)	IV
4.7	MSG:4.7	$P2_1$	$P2_1$	monoclinic	C_2	C_2^2	3.1.6 (2)	I
4.8	MSG:4.8	$P2_11'$	$P2_11'$	monoclinic	C_2	C_2^2	3.2.7 ($21'$)	II
4.9	MSG:4.9	$P2_1'$	$P2_1'$	monoclinic	C_2	C_2^2	3.3.8 ($2'$)	III
4.10	MSG:4.10	P_a2_1	$P_{2a}2_1$	monoclinic	C_2	C_2^2	3.2.7 ($21'$)	IV
4.11	MSG:4.11	P_b2_1	$P_{2b}2'$	monoclinic	C_2	C_2^2	3.2.7 ($21'$)	IV
4.12	MSG:4.12	P_C2_1	C_P2'	monoclinic	C_2	C_2^2	3.2.7 ($21'$)	IV
5.13	MSG:5.13	$C2$	$C2$	monoclinic	C_2	C_2^3	3.1.6 (2)	I
5.14	MSG:5.14	$C21'$	$C21'$	monoclinic	C_2	C_2^3	3.2.7 ($21'$)	II
5.15	MSG:5.15	$C2'$	$C2'$	monoclinic	C_2	C_2^3	3.3.8 ($2'$)	III
5.16	MSG:5.16	C_c2	$C_{2c}2$	monoclinic	C_2	C_2^3	3.2.7 ($21'$)	IV
5.17	MSG:5.17	C_a2	P_C2	monoclinic	C_2	C_2^3	3.2.7 ($21'$)	IV
6.18	MSG:6.18	Pm	Pm	monoclinic	C_s	C_s^1	4.1.9 (m)	I
6.19	MSG:6.19	$Pm1'$	$Pm1'$	monoclinic	C_s	C_s^1	4.2.10 ($m1'$)	II
6.20	MSG:6.20	Pm'	Pm'	monoclinic	C_s	C_s^1	4.3.11 (m')	III
6.21	MSG:6.21	P_am	$P_{2a}m$	monoclinic	C_s	C_s^1	4.2.10 ($m1'$)	IV
6.22	MSG:6.22	P_bm	$P_{2b}m$	monoclinic	C_s	C_s^1	4.2.10 ($m1'$)	IV
6.23	MSG:6.23	P_Cm	C_Pm	monoclinic	C_s	C_s^1	4.2.10 ($m1'$)	IV
7.24	MSG:7.24	Pc	Pc	monoclinic	C_s	C_s^2	4.1.9 (m)	I
7.25	MSG:7.25	$Pc1'$	$Pc1'$	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	II
7.26	MSG:7.26	Pc'	Pc'	monoclinic	C_s	C_s^2	4.3.11 (m')	III
7.27	MSG:7.27	P_ac	$P_{2a}c$	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	IV
7.28	MSG:7.28	P_cc	$P_{2c}m'$	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	IV
7.29	MSG:7.29	P_bc	$P_{2b}c$	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	IV
7.30	MSG:7.30	P_Cc	C_Pc	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	IV
7.31	MSG:7.31	P_Ac	C_Pm'	monoclinic	C_s	C_s^2	4.2.10 ($m1'$)	IV
8.32	MSG:8.32	Cm	Cm	monoclinic	C_s	C_s^3	4.1.9 (m)	I
8.33	MSG:8.33	$Cm1'$	$Cm1'$	monoclinic	C_s	C_s^3	4.2.10 ($m1'$)	II
8.34	MSG:8.34	Cm'	Cm'	monoclinic	C_s	C_s^3	4.3.11 (m')	III
8.35	MSG:8.35	C_cm	$C_{2c}m$	monoclinic	C_s	C_s^3	4.2.10 ($m1'$)	IV
8.36	MSG:8.36	C_am	P_Cm	monoclinic	C_s	C_s^3	4.2.10 ($m1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
9.37	MSG:9.37	Cc	Cc	monoclinic	C_{s}	C_{s}^{4}	4.1.9 (m)	I
9.38	MSG:9.38	$Cc1'$	$Cc1'$	monoclinic	C_{s}	C_{s}^{4}	4.2.10 $(m1')$	II
9.39	MSG:9.39	Cc'	Cc'	monoclinic	C_{s}	C_{s}^{4}	4.3.11 (m')	III
9.40	MSG:9.40	$C_{c}c$	$C_{2c}m'$	monoclinic	C_{s}	C_{s}^{4}	4.2.10 $(m1')$	IV
9.41	MSG:9.41	$C_{a}c$	$P_{C}c$	monoclinic	C_{s}	C_{s}^{4}	4.2.10 $(m1')$	IV
10.42	MSG:10.42	$P2/m$	$P2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.1.12 $(2/m)$	I
10.43	MSG:10.43	$P2/m1'$	$P2/m1'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.2.13 $(2/m1')$	II
10.44	MSG:10.44	$P2'/m$	$P2'/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.3.14 $(2'/m)$	III
10.45	MSG:10.45	$P2/m'$	$P2/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.4.15 $(2/m')$	III
10.46	MSG:10.46	$P2'/m'$	$P2'/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.5.16 $(2'/m')$	III
10.47	MSG:10.47	$P_{a}2/m$	$P_{2a}2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.2.13 $(2/m1')$	IV
10.48	MSG:10.48	$P_{b}2/m$	$P_{2b}2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.2.13 $(2/m1')$	IV
10.49	MSG:10.49	$P_{C}2/m$	$C_{P}2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{1}$	5.2.13 $(2/m1')$	IV
11.50	MSG:11.50	$P2_{1}/m$	$P2_{1}/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.1.12 $(2/m)$	I
11.51	MSG:11.51	$P2_{1}/m1'$	$P2_{1}/m1'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.2.13 $(2/m1')$	II
11.52	MSG:11.52	$P2_{1}'/m$	$P2_{1}'/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.3.14 $(2'/m)$	III
11.53	MSG:11.53	$P2_{1}/m'$	$P2_{1}/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.4.15 $(2/m')$	III
11.54	MSG:11.54	$P2_{1}'/m'$	$P2_{1}'/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.5.16 $(2'/m')$	III
11.55	MSG:11.55	$P_{a}2_{1}/m$	$P_{2a}2_{1}/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.2.13 $(2/m1')$	IV
11.56	MSG:11.56	$P_{b}2_{1}/m$	$P_{2b}2'/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.2.13 $(2/m1')$	IV
11.57	MSG:11.57	$P_{C}2_{1}/m$	$C_{P}2'/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{2}$	5.2.13 $(2/m1')$	IV
12.58	MSG:12.58	$C2/m$	$C2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.1.12 $(2/m)$	I
12.59	MSG:12.59	$C2/m1'$	$C2/m1'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.2.13 $(2/m1')$	II
12.60	MSG:12.60	$C2'/m$	$C2'/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.3.14 $(2'/m)$	III
12.61	MSG:12.61	$C2/m'$	$C2/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.4.15 $(2/m')$	III
12.62	MSG:12.62	$C2'/m'$	$C2'/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.5.16 $(2'/m')$	III
12.63	MSG:12.63	$C_{c}2/m$	$C_{2c}2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.2.13 $(2/m1')$	IV
12.64	MSG:12.64	$C_{a}2/m$	$P_{C}2/m$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{3}$	5.2.13 $(2/m1')$	IV
13.65	MSG:13.65	$P2/c$	$P2/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.1.12 $(2/m)$	I
13.66	MSG:13.66	$P2/c1'$	$P2/c1'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	II
13.67	MSG:13.67	$P2'/c$	$P2'/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.3.14 $(2'/m)$	III
13.68	MSG:13.68	$P2/c'$	$P2/c'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.4.15 $(2/m')$	III
13.69	MSG:13.69	$P2'/c'$	$P2'/c'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.5.16 $(2'/m')$	III
13.70	MSG:13.70	$P_{a}2/c$	$P_{2a}2/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	IV
13.71	MSG:13.71	$P_{b}2/c$	$P_{2b}2/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	IV
13.72	MSG:13.72	$P_{c}2/c$	$P_{2c}2/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	IV
13.73	MSG:13.73	$P_{A}2/c$	$C_{P}2/m'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	IV
13.74	MSG:13.74	$P_{C}2/c$	$C_{P}2/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{4}$	5.2.13 $(2/m1')$	IV
14.75	MSG:14.75	$P2_{1}/c$	$P2_{1}/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.1.12 $(2/m)$	I
14.76	MSG:14.76	$P2_{1}/c1'$	$P2_{1}/c1'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.2.13 $(2/m1')$	II
14.77	MSG:14.77	$P2_{1}'/c$	$P2_{1}'/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.3.14 $(2'/m)$	III
14.78	MSG:14.78	$P2_{1}/c'$	$P2_{1}/c'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.4.15 $(2/m')$	III
14.79	MSG:14.79	$P2_{1}'/c'$	$P2_{1}'/c'$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.5.16 $(2'/m')$	III
14.80	MSG:14.80	$P_{a}2_{1}/c$	$P_{2a}2_{1}/c$	monoclinic	$C_{2\mathrm{h}}$	$C_{2\mathrm{h}}^{5}$	5.2.13 $(2/m1')$	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
14.81	MSG:14.81	P_b2_1/c	$P_{2b}2'/c$	monoclinic	C_{2h}	C_{2h}^5	5.2.13 $(2/m1')$	IV
14.82	MSG:14.82	P_c2_1/c	$P_{2c}2_1/m'$	monoclinic	C_{2h}	C_{2h}^5	5.2.13 $(2/m1')$	IV
14.83	MSG:14.83	P_A2_1/c	C_P2'/m'	monoclinic	C_{2h}	C_{2h}^5	5.2.13 $(2/m1')$	IV
14.84	MSG:14.84	P_C2_1/c	C_P2'/c	monoclinic	C_{2h}	C_{2h}^5	5.2.13 $(2/m1')$	IV
15.85	MSG:15.85	$C2/c$	$C2/c$	monoclinic	C_{2h}	C_{2h}^6	5.1.12 $(2/m)$	I
15.86	MSG:15.86	$C2/c1'$	$C2/c1'$	monoclinic	C_{2h}	C_{2h}^6	5.2.13 $(2/m1')$	II
15.87	MSG:15.87	$C2'/c$	$C2'/c$	monoclinic	C_{2h}	C_{2h}^6	5.3.14 $(2'/m)$	III
15.88	MSG:15.88	$C2/c'$	$C2/c'$	monoclinic	C_{2h}	C_{2h}^6	5.4.15 $(2/m')$	III
15.89	MSG:15.89	$C2'/c'$	$C2'/c'$	monoclinic	C_{2h}	C_{2h}^6	5.5.16 $(2'/m')$	III
15.90	MSG:15.90	C_c2/c	$C_{2c}2/m'$	monoclinic	C_{2h}	C_{2h}^6	5.2.13 $(2/m1')$	IV
15.91	MSG:15.91	C_a2/c	P_C2/c	monoclinic	C_{2h}	C_{2h}^6	5.2.13 $(2/m1')$	IV
16.1	MSG:16.1	$P222$	$P222$	orthorhombic	D_2	D_2^1	6.1.17 (222)	I
16.2	MSG:16.2	$P2221'$	$P2221'$	orthorhombic	D_2	D_2^1	6.2.18 $(2221')$	II
16.3	MSG:16.3	$P2'2'2$	$P2'2'2$	orthorhombic	D_2	D_2^1	6.3.19 $(2'2'2)$	III
16.4	MSG:16.4	P_a222	$P_{2a}222$	orthorhombic	D_2	D_2^1	6.2.18 $(2221')$	IV
16.5	MSG:16.5	P_C222	C_P222	orthorhombic	D_2	D_2^1	6.2.18 $(2221')$	IV
16.6	MSG:16.6	P_I222	I_P222	orthorhombic	D_2	D_2^1	6.2.18 $(2221')$	IV
17.7	MSG:17.7	$P222_1$	$P222_1$	orthorhombic	D_2	D_2^2	6.1.17 (222)	I
17.8	MSG:17.8	$P222_11'$	$P222_11'$	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	II
17.9	MSG:17.9	$P2'2'2_1$	$P2'2'2_1$	orthorhombic	D_2	D_2^2	6.3.19 $(2'2'2)$	III
17.10	MSG:17.10	$P22'2_1'$	$P22'2_1'$	orthorhombic	D_2	D_2^2	6.4.123 $(2'2'2)$	III
17.11	MSG:17.11	P_a222_1	$P_{2a}222_1$	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	IV
17.12	MSG:17.12	P_c222_1	$P_{2c}22'2'$	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	IV
17.13	MSG:17.13	P_B222_1	$C_P22'2'$	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	IV
17.14	MSG:17.14	P_C222_1	C_P222_1	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	IV
17.15	MSG:17.15	P_I222_1	$I_P2_1'2_1'2_1$	orthorhombic	D_2	D_2^2	6.2.18 $(2221')$	IV
18.16	MSG:18.16	$P2_12_12$	$P2_12_12$	orthorhombic	D_2	D_2^3	6.1.17 (222)	I
18.17	MSG:18.17	$P2_12_121'$	$P2_12_121'$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	II
18.18	MSG:18.18	$P2_1'2_1'2$	$P2_1'2_1'2$	orthorhombic	D_2	D_2^3	6.3.19 $(2'2'2)$	III
18.19	MSG:18.19	$P2_12_1'2'$	$P2_12_1'2'$	orthorhombic	D_2	D_2^3	6.4.123 $(2'2'2)$	III
18.20	MSG:18.20	$P_b2_12_12$	$P_{2a}2'2'2_1$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	IV
18.21	MSG:18.21	$P_c2_12_12$	$P_{2c}2_12_12$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	IV
18.22	MSG:18.22	$P_B2_12_12$	$C_P22'2_1'$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	IV
18.23	MSG:18.23	$P_C2_12_12$	$C_P2'2'2$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	IV
18.24	MSG:18.24	$P_I2_12_12$	$I_P2'2'2$	orthorhombic	D_2	D_2^3	6.2.18 $(2221')$	IV
19.25	MSG:19.25	$P2_12_12_1$	$P2_12_12_1$	orthorhombic	D_2	D_2^4	6.1.17 (222)	I
19.26	MSG:19.26	$P2_12_12_11'$	$P2_12_12_11'$	orthorhombic	D_2	D_2^4	6.2.18 $(2221')$	II
19.27	MSG:19.27	$P2_1'2_1'2_1$	$P2_1'2_1'2_1$	orthorhombic	D_2	D_2^4	6.3.19 $(2'2'2)$	III
19.28	MSG:19.28	$P_c2_12_12_1$	$P_{2c}2_12_1'2'$	orthorhombic	D_2	D_2^4	6.2.18 $(2221')$	IV
19.29	MSG:19.29	$P_C2_12_12_1$	$C_P2'2'2_1$	orthorhombic	D_2	D_2^4	6.2.18 $(2221')$	IV
19.30	MSG:19.30	$P_I2_12_12_1$	$I_P2_12_12_1$	orthorhombic	D_2	D_2^4	6.2.18 $(2221')$	IV
20.31	MSG:20.31	$C222_1$	$C222_1$	orthorhombic	D_2	D_2^5	6.1.17 (222)	I
20.32	MSG:20.32	$C222_11'$	$C222_11'$	orthorhombic	D_2	D_2^5	6.2.18 $(2221')$	II
20.33	MSG:20.33	$C2'2'2_1$	$C2'2'2_1$	orthorhombic	D_2	D_2^5	6.3.19 $(2'2'2)$	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
20.34	MSG:20.34	$C22'2'_1$	$C22'2'_1$	orthorhombic	D_2	D_2^5	6.4.123 ($2'2'2$)	III
20.35	MSG:20.35	C_c222_1	$C_{2c}22'2'$	orthorhombic	D_2	D_2^5	6.2.18 ($2221'$)	IV
20.36	MSG:20.36	C_a222_1	P_C222_1	orthorhombic	D_2	D_2^5	6.2.18 ($2221'$)	IV
20.37	MSG:20.37	C_A222_1	$F_C22'2'$	orthorhombic	D_2	D_2^5	6.2.18 ($2221'$)	IV
21.38	MSG:21.38	$C222$	$C222$	orthorhombic	D_2	D_2^6	6.1.17 (222)	I
21.39	MSG:21.39	$C2221'$	$C2221'$	orthorhombic	D_2	D_2^6	6.2.18 ($2221'$)	II
21.40	MSG:21.40	$C2'2'2$	$C2'2'2$	orthorhombic	D_2	D_2^6	6.3.19 ($2'2'2$)	III
21.41	MSG:21.41	$C22'2'$	$C22'2'$	orthorhombic	D_2	D_2^6	6.4.123 ($2'2'2$)	III
21.42	MSG:21.42	C_c222	$C_{2c}222$	orthorhombic	D_2	D_2^6	6.2.18 ($2221'$)	IV
21.43	MSG:21.43	C_a222	P_C222	orthorhombic	D_2	D_2^6	6.2.18 ($2221'$)	IV
21.44	MSG:21.44	C_A222	F_C222	orthorhombic	D_2	D_2^6	6.2.18 ($2221'$)	IV
22.45	MSG:22.45	$F222$	$F222$	orthorhombic	D_2	D_2^7	6.1.17 (222)	I
22.46	MSG:22.46	$F2221'$	$F2221'$	orthorhombic	D_2	D_2^7	6.2.18 ($2221'$)	II
22.47	MSG:22.47	$F2'2'2$	$F2'2'2$	orthorhombic	D_2	D_2^7	6.3.19 ($2'2'2$)	III
22.48	MSG:22.48	F_S222	P_I222	orthorhombic	D_2	D_2^7	6.2.18 ($2221'$)	IV
23.49	MSG:23.49	$I222$	$I222$	orthorhombic	D_2	D_2^8	6.1.17 (222)	I
23.50	MSG:23.50	$I2221'$	$I2221'$	orthorhombic	D_2	D_2^8	6.2.18 ($2221'$)	II
23.51	MSG:23.51	$I2'2'2$	$I2'2'2$	orthorhombic	D_2	D_2^8	6.3.19 ($2'2'2$)	III
23.52	MSG:23.52	I_c222	C_I222	orthorhombic	D_2	D_2^8	6.2.18 ($2221'$)	IV
24.53	MSG:24.53	$I2_12_12_1$	$I2_12_12_1$	orthorhombic	D_2	D_2^9	6.1.17 (222)	I
24.54	MSG:24.54	$I2_12_12_11'$	$I2_12_12_11'$	orthorhombic	D_2	D_2^9	6.2.18 ($2221'$)	II
24.55	MSG:24.55	$I2'_12'_12_1$	$I2'_12'_12_1$	orthorhombic	D_2	D_2^9	6.3.19 ($2'2'2$)	III
24.56	MSG:24.56	$I_c2_12_12_1$	$C_I2'22'$	orthorhombic	D_2	D_2^9	6.2.18 ($2221'$)	IV
25.57	MSG:25.57	$Pmm2$	$Pmm2$	orthorhombic	C_{2v}	C_{2v}^1	7.1.20 ($mm2$)	I
25.58	MSG:25.58	$Pmm21'$	$Pmm21'$	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	II
25.59	MSG:25.59	$Pm'm2'$	$Pm'm2'$	orthorhombic	C_{2v}	C_{2v}^1	7.3.22 ($m'm2'$)	III
25.60	MSG:25.60	$Pm'm'2$	$Pm'm'2$	orthorhombic	C_{2v}	C_{2v}^1	7.4.23 ($m'm'2$)	III
25.61	MSG:25.61	P_cmm2	$P_{2c}mm2$	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	IV
25.62	MSG:25.62	P_amm2	$P_{2a}mm2$	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	IV
25.63	MSG:25.63	P_Cmm2	C_Pmm2	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	IV
25.64	MSG:25.64	P_Amm2	A_Pmm2	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	IV
25.65	MSG:25.65	P_Imm2	I_Pmm2	orthorhombic	C_{2v}	C_{2v}^1	7.2.21 ($mm21'$)	IV
26.66	MSG:26.66	$Pmc2_1$	$Pmc2_1$	orthorhombic	C_{2v}	C_{2v}^2	7.1.20 ($mm2$)	I
26.67	MSG:26.67	$Pmc2_11'$	$Pmc2_11'$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	II
26.68	MSG:26.68	$Pm'c2'_1$	$Pm'c2'_1$	orthorhombic	C_{2v}	C_{2v}^2	7.3.22 ($m'm2'$)	III
26.69	MSG:26.69	$Pmc'2'_1$	$Pmc'2'_1$	orthorhombic	C_{2v}	C_{2v}^2	7.5.124 ($m'm2'$)	III
26.70	MSG:26.70	$Pm'c'2_1$	$Pm'c'2_1$	orthorhombic	C_{2v}	C_{2v}^2	7.4.23 ($m'm'2$)	III
26.71	MSG:26.71	P_amc2_1	$P_{2a}mc2_1$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.72	MSG:26.72	P_bmc2_1	$P_{2b}mc2_1$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.73	MSG:26.73	P_cmc2_1	$P_{2c}mm'2'$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.74	MSG:26.74	P_Amc2_1	$A_Pmm'2'$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.75	MSG:26.75	P_Bmc2_1	$A_Pb'm2'$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.76	MSG:26.76	P_Cmc2_1	C_Pmc2_1	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV
26.77	MSG:26.77	P_Imc2_1	$I_Pma'2'$	orthorhombic	C_{2v}	C_{2v}^2	7.2.21 ($mm21'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
27.78	MSG:27.78	$Pcc2$	$Pcc2$	orthorhombic	C_{2v}	C_{2v}^3	7.1.20 ($mm2$)	I
27.79	MSG:27.79	$Pcc21'$	$Pcc21'$	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	II
27.80	MSG:27.80	$Pc'c2'$	$Pc'c2'$	orthorhombic	C_{2v}	C_{2v}^3	7.3.22 ($m'm2'$)	III
27.81	MSG:27.81	$Pc'c'2$	$Pc'c'2$	orthorhombic	C_{2v}	C_{2v}^3	7.4.23 ($m'm'2$)	III
27.82	MSG:27.82	P_ccc2	$P_{2c}m'm'2$	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	IV
27.83	MSG:27.83	P_acc2	$P_{2a}cc2$	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	IV
27.84	MSG:27.84	P_Ccc2	C_Pcc2	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	IV
27.85	MSG:27.85	P_Acc2	$A_Pb'm'2$	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	IV
27.86	MSG:27.86	P_Icc2	I_Pba2	orthorhombic	C_{2v}	C_{2v}^3	7.2.21 ($mm21'$)	IV
28.87	MSG:28.87	$Pma2$	$Pma2$	orthorhombic	C_{2v}	C_{2v}^4	7.1.20 ($mm2$)	I
28.88	MSG:28.88	$Pma21'$	$Pma21'$	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	II
28.89	MSG:28.89	$Pm'a2'$	$Pm'a2'$	orthorhombic	C_{2v}	C_{2v}^4	7.3.22 ($m'm2'$)	III
28.90	MSG:28.90	$Pma'2'$	$Pma'2'$	orthorhombic	C_{2v}	C_{2v}^4	7.5.124 ($m'm2'$)	III
28.91	MSG:28.91	$Pm'a'2$	$Pm'a'2$	orthorhombic	C_{2v}	C_{2v}^4	7.4.23 ($m'm'2$)	III
28.92	MSG:28.92	P_ama2	$P_{2a}m'm'2$	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.93	MSG:28.93	P_bma2	$P_{2b}ma2$	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.94	MSG:28.94	P_cma2	$P_{2c}ma2$	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.95	MSG:28.95	P_Ama2	A_Pma2	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.96	MSG:28.96	P_Bma2	A_Pbm2	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.97	MSG:28.97	P_Cma2	$C_Pm'm2'$	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
28.98	MSG:28.98	P_Ima2	I_Pma2	orthorhombic	C_{2v}	C_{2v}^4	7.2.21 ($mm21'$)	IV
29.99	MSG:29.99	$Pca2_1$	$Pca2_1$	orthorhombic	C_{2v}	C_{2v}^5	7.1.20 ($mm2$)	I
29.100	MSG:29.100	$Pca2_11'$	$Pca2_11'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	II
29.101	MSG:29.101	$Pc'a2_1'$	$Pc'a2_1'$	orthorhombic	C_{2v}	C_{2v}^5	7.3.22 ($m'm2'$)	III
29.102	MSG:29.102	$Pca'2_1'$	$Pca'2_1'$	orthorhombic	C_{2v}	C_{2v}^5	7.5.124 ($m'm2'$)	III
29.103	MSG:29.103	$Pc'a'2_1$	$Pc'a'2_1$	orthorhombic	C_{2v}	C_{2v}^5	7.4.23 ($m'm'2$)	III
29.104	MSG:29.104	P_aca2_1	$P_{2b}m'c'2_1$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.105	MSG:29.105	P_bca2_1	$P_{2b}ca2_1$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.106	MSG:29.106	P_cca2_1	$P_{2c}m'a2'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.107	MSG:29.107	P_Aca2_1	$A_Pb'a2'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.108	MSG:29.108	P_Bca2_1	$A_Pbm'2'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.109	MSG:29.109	P_Cca2_1	$C_Pm'c2_1'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
29.110	MSG:29.110	P_Ica2_1	$I_Pba'2'$	orthorhombic	C_{2v}	C_{2v}^5	7.2.21 ($mm21'$)	IV
30.111	MSG:30.111	$Pnc2$	$Pnc2$	orthorhombic	C_{2v}	C_{2v}^6	7.1.20 ($mm2$)	I
30.112	MSG:30.112	$Pnc21'$	$Pnc21'$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	II
30.113	MSG:30.113	$Pn'c2'$	$Pn'c2'$	orthorhombic	C_{2v}	C_{2v}^6	7.3.22 ($m'm2'$)	III
30.114	MSG:30.114	$Pnc'2'$	$Pnc'2'$	orthorhombic	C_{2v}	C_{2v}^6	7.5.124 ($m'm2'$)	III
30.115	MSG:30.115	$Pn'c'2$	$Pn'c'2$	orthorhombic	C_{2v}	C_{2v}^6	7.4.23 ($m'm'2$)	III
30.116	MSG:30.116	P_anc2	$P_{2a}nc2$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV
30.117	MSG:30.117	P_bnc2	$P_{2b}c'c2'$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV
30.118	MSG:30.118	P_cnc2	$P_{2c}m'a'2$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV
30.119	MSG:30.119	P_Anc2	$A_Pm'm'2$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV
30.120	MSG:30.120	P_Bnc2	$A_Pb'a'2$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV
30.121	MSG:30.121	P_Cnc2	$C_Pc'c2'$	orthorhombic	C_{2v}	C_{2v}^6	7.2.21 ($mm21'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
30.122	MSG:30.122	P_Inc2	$I_Pm'a'2$	orthorhombic	C_{2v}	C_{2v}^{6}	7.2.21 ($mm21'$)	IV
31.123	MSG:31.123	$Pmn2_1$	$Pmn2_1$	orthorhombic	C_{2v}	C_{2v}^{7}	7.1.20 ($mm2$)	I
31.124	MSG:31.124	$Pmn2_11'$	$Pmn2_11'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	II
31.125	MSG:31.125	$Pm'n2_1'$	$Pm'n2_1'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.3.22 ($m'm2'$)	III
31.126	MSG:31.126	$Pmn'2_1'$	$Pmn'2_1'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.5.124 ($m'm2'$)	III
31.127	MSG:31.127	$Pm'n'2_1$	$Pm'n'2_1$	orthorhombic	C_{2v}	C_{2v}^{7}	7.4.23 ($m'm'2$)	III
31.128	MSG:31.128	P_amn2_1	$P_{2a}mc'2_1'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.129	MSG:31.129	P_bmn2_1	$P_{2b}mn2_1$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.130	MSG:31.130	P_cmn2_1	$P_{2c}ma'2'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.131	MSG:31.131	P_Amn2_1	$A_Pma'2'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.132	MSG:31.132	P_Bmn2_1	$A_Pm'm2'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.133	MSG:31.133	P_Cmn2_1	$C_Pmc'2_1'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
31.134	MSG:31.134	P_Imn2_1	$I_Pmm'2'$	orthorhombic	C_{2v}	C_{2v}^{7}	7.2.21 ($mm21'$)	IV
32.135	MSG:32.135	$Pba2$	$Pba2$	orthorhombic	C_{2v}	C_{2v}^{8}	7.1.20 ($mm2$)	I
32.136	MSG:32.136	$Pba21'$	$Pba21'$	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	II
32.137	MSG:32.137	$Pb'a2'$	$Pb'a2'$	orthorhombic	C_{2v}	C_{2v}^{8}	7.3.22 ($m'm2'$)	III
32.138	MSG:32.138	$Pb'a'2$	$Pb'a'2$	orthorhombic	C_{2v}	C_{2v}^{8}	7.4.23 ($m'm'2$)	III
32.139	MSG:32.139	P_cba2	$P_{2c}ba2$	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	IV
32.140	MSG:32.140	P_bba2	$P_{2b}m'a2'$	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	IV
32.141	MSG:32.141	P_Cba2	$C_Pm'm'2$	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	IV
32.142	MSG:32.142	P_Aba2	A_Pba2	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	IV
32.143	MSG:32.143	P_Iba2	$I_Pb'a'2$	orthorhombic	C_{2v}	C_{2v}^{8}	7.2.21 ($mm21'$)	IV
33.144	MSG:33.144	$Pna2_1$	$Pna2_1$	orthorhombic	C_{2v}	C_{2v}^{9}	7.1.20 ($mm2$)	I
33.145	MSG:33.145	$Pna2_11'$	$Pna2_11'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	II
33.146	MSG:33.146	$Pn'a2_1'$	$Pn'a2_1'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.3.22 ($m'm2'$)	III
33.147	MSG:33.147	$Pna'2_1'$	$Pna'2_1'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.5.124 ($m'm2'$)	III
33.148	MSG:33.148	$Pn'a'2_1$	$Pn'a'2_1$	orthorhombic	C_{2v}	C_{2v}^{9}	7.4.23 ($m'm'2$)	III
33.149	MSG:33.149	P_ana2_1	$P_{2b}m'n2_1'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.150	MSG:33.150	P_bna2_1	$P_{2b}c'a'2_1$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.151	MSG:33.151	P_cna2_1	$P_{2c}b'a2'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.152	MSG:33.152	P_Ana2_1	$A_Pm'a2'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.153	MSG:33.153	P_Bna2_1	$A_Pba'2'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.154	MSG:33.154	P_Cna2_1	$C_Pm'c'2_1$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
33.155	MSG:33.155	P_Ina2_1	$I_Pm'a2'$	orthorhombic	C_{2v}	C_{2v}^{9}	7.2.21 ($mm21'$)	IV
34.156	MSG:34.156	$Pnn2$	$Pnn2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.1.20 ($mm2$)	I
34.157	MSG:34.157	$Pnn21'$	$Pnn21'$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	II
34.158	MSG:34.158	$Pn'n2'$	$Pn'n2'$	orthorhombic	C_{2v}	C_{2v}^{10}	7.3.22 ($m'm2'$)	III
34.159	MSG:34.159	$Pn'n'2$	$Pn'n'2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.4.23 ($m'm'2$)	III
34.160	MSG:34.160	P_ann2	$P_{2a}nc'2'$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	IV
34.161	MSG:34.161	P_cnn2	$P_{2c}b'a'2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	IV
34.162	MSG:34.162	P_Ann2	$A_Pm'a'2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	IV
34.163	MSG:34.163	P_Cnn2	$C_Pc'c'2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	IV
34.164	MSG:34.164	P_Inn2	$I_Pm'm'2$	orthorhombic	C_{2v}	C_{2v}^{10}	7.2.21 ($mm21'$)	IV
35.165	MSG:35.165	$Cmm2$	$Cmm2$	orthorhombic	C_{2v}	C_{2v}^{11}	7.1.20 ($mm2$)	I

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
35.166	MSG:35.166	$Cmm21'$	$Cmm21'$	orthorhombic	C_{2v}	C_{2v}^{11}	7.2.21 ($mm21'$)	II
35.167	MSG:35.167	$Cm'm2'$	$Cm'm2'$	orthorhombic	C_{2v}	C_{2v}^{11}	7.3.22 ($m'm2'$)	III
35.168	MSG:35.168	$Cm'm'2$	$Cm'm'2$	orthorhombic	C_{2v}	C_{2v}^{11}	7.4.23 ($m'm'2$)	III
35.169	MSG:35.169	C_cmm2	$C_{2c}mm2$	orthorhombic	C_{2v}	C_{2v}^{11}	7.2.21 ($mm21'$)	IV
35.170	MSG:35.170	C_amm2	P_Cmm2	orthorhombic	C_{2v}	C_{2v}^{11}	7.2.21 ($mm21'$)	IV
35.171	MSG:35.171	C_Ammm2	F_Cmm2	orthorhombic	C_{2v}	C_{2v}^{11}	7.2.21 ($mm21'$)	IV
36.172	MSG:36.172	$Cmc2_1$	$Cmc2_1$	orthorhombic	C_{2v}	C_{2v}^{12}	7.1.20 ($mm2$)	I
36.173	MSG:36.173	$Cmc2_11'$	$Cmc2_11'$	orthorhombic	C_{2v}	C_{2v}^{12}	7.2.21 ($mm21'$)	II
36.174	MSG:36.174	$Cm'c2_1'$	$Cm'c2_1'$	orthorhombic	C_{2v}	C_{2v}^{12}	7.3.22 ($m'm2'$)	III
36.175	MSG:36.175	$Cmc'2_1'$	$Cmc'2_1'$	orthorhombic	C_{2v}	C_{2v}^{12}	7.5.124 ($m'm2'$)	III
36.176	MSG:36.176	$Cm'c'2_1$	$Cm'c'2_1$	orthorhombic	C_{2v}	C_{2v}^{12}	7.4.23 ($m'm'2$)	III
36.177	MSG:36.177	C_cmc2_1	$C_{2c}m'm2'$	orthorhombic	C_{2v}	C_{2v}^{12}	7.2.21 ($mm21'$)	IV
36.178	MSG:36.178	C_amc2_1	P_Cmc2_1	orthorhombic	C_{2v}	C_{2v}^{12}	7.2.21 ($mm21'$)	IV
36.179	MSG:36.179	C_Amc2_1	$F_Cmm'2'$	orthorhombic	C_{2v}	C_{2v}^{12}	7.2.21 ($mm21'$)	IV
37.180	MSG:37.180	$Ccc2$	$Ccc2$	orthorhombic	C_{2v}	C_{2v}^{13}	7.1.20 ($mm2$)	I
37.181	MSG:37.181	$Ccc21'$	$Ccc21'$	orthorhombic	C_{2v}	C_{2v}^{13}	7.2.21 ($mm21'$)	II
37.182	MSG:37.182	$Cc'c2'$	$Cc'c2'$	orthorhombic	C_{2v}	C_{2v}^{13}	7.3.22 ($m'm2'$)	III
37.183	MSG:37.183	$Cc'c'2$	$Cc'c'2$	orthorhombic	C_{2v}	C_{2v}^{13}	7.4.23 ($m'm'2$)	III
37.184	MSG:37.184	C_ccc2	$C_{2c}m'm'2$	orthorhombic	C_{2v}	C_{2v}^{13}	7.2.21 ($mm21'$)	IV
37.185	MSG:37.185	C_acc2	P_Ccc2	orthorhombic	C_{2v}	C_{2v}^{13}	7.2.21 ($mm21'$)	IV
37.186	MSG:37.186	C_Acc2	$F_Cm'm'2$	orthorhombic	C_{2v}	C_{2v}^{13}	7.2.21 ($mm21'$)	IV
38.187	MSG:38.187	$Amm2$	$Amm2$	orthorhombic	C_{2v}	C_{2v}^{14}	7.1.20 ($mm2$)	I
38.188	MSG:38.188	$Amm21'$	$Amm21'$	orthorhombic	C_{2v}	C_{2v}^{14}	7.2.21 ($mm21'$)	II
38.189	MSG:38.189	$Am'm2'$	$Am'm2'$	orthorhombic	C_{2v}	C_{2v}^{14}	7.3.22 ($m'm2'$)	III
38.190	MSG:38.190	$Amm'2'$	$Amm'2'$	orthorhombic	C_{2v}	C_{2v}^{14}	7.5.124 ($m'm2'$)	III
38.191	MSG:38.191	$Am'm'2$	$Am'm'2$	orthorhombic	C_{2v}	C_{2v}^{14}	7.4.23 ($m'm'2$)	III
38.192	MSG:38.192	A_amm2	$A_{2a}mm2$	orthorhombic	C_{2v}	C_{2v}^{14}	7.2.21 ($mm21'$)	IV
38.193	MSG:38.193	A_bmm2	P_Amm2	orthorhombic	C_{2v}	C_{2v}^{14}	7.2.21 ($mm21'$)	IV
38.194	MSG:38.194	A_Bmm2	F_Amm2	orthorhombic	C_{2v}	C_{2v}^{14}	7.2.21 ($mm21'$)	IV
39.195	MSG:39.195	$Abm2$	$Abm2$	orthorhombic	C_{2v}	C_{2v}^{15}	7.1.20 ($mm2$)	I
39.196	MSG:39.196	$Abm21'$	$Abm21'$	orthorhombic	C_{2v}	C_{2v}^{15}	7.2.21 ($mm21'$)	II
39.197	MSG:39.197	$Ab'm2'$	$Ab'm2'$	orthorhombic	C_{2v}	C_{2v}^{15}	7.3.22 ($m'm2'$)	III
39.198	MSG:39.198	$Abm'2'$	$Abm'2'$	orthorhombic	C_{2v}	C_{2v}^{15}	7.5.124 ($m'm2'$)	III
39.199	MSG:39.199	$Ab'm'2$	$Ab'm'2$	orthorhombic	C_{2v}	C_{2v}^{15}	7.4.23 ($m'm'2$)	III
39.200	MSG:39.200	A_abm2	$A_{2a}bm2$	orthorhombic	C_{2v}	C_{2v}^{15}	7.2.21 ($mm21'$)	IV
39.201	MSG:39.201	A_bbm2	$P_Am'm'2$	orthorhombic	C_{2v}	C_{2v}^{15}	7.2.21 ($mm21'$)	IV
39.202	MSG:39.202	A_Bbm2	$F_Am'm2'$	orthorhombic	C_{2v}	C_{2v}^{15}	7.2.21 ($mm21'$)	IV
40.203	MSG:40.203	$Ama2$	$Ama2$	orthorhombic	C_{2v}	C_{2v}^{16}	7.1.20 ($mm2$)	I
40.204	MSG:40.204	$Ama21'$	$Ama21'$	orthorhombic	C_{2v}	C_{2v}^{16}	7.2.21 ($mm21'$)	II
40.205	MSG:40.205	$Am'a2'$	$Am'a2'$	orthorhombic	C_{2v}	C_{2v}^{16}	7.3.22 ($m'm2'$)	III
40.206	MSG:40.206	$Ama'2'$	$Ama'2'$	orthorhombic	C_{2v}	C_{2v}^{16}	7.5.124 ($m'm2'$)	III
40.207	MSG:40.207	$Am'a'2$	$Am'a'2$	orthorhombic	C_{2v}	C_{2v}^{16}	7.4.23 ($m'm'2$)	III
40.208	MSG:40.208	A_ama2	$A_{2a}mm'2'$	orthorhombic	C_{2v}	C_{2v}^{16}	7.2.21 ($mm21'$)	IV
40.209	MSG:40.209	A_bma2	P_Ama2	orthorhombic	C_{2v}	C_{2v}^{16}	7.2.21 ($mm21'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
40.210	MSG:40.210	A_Bma2	$F_Amm'2'$	orthorhombic	C_{2v}	C_{2v}^{16}	7.2.21 ($mm21'$)	IV
41.211	MSG:41.211	$Aba2$	$Aba2$	orthorhombic	C_{2v}	C_{2v}^{17}	7.1.20 ($mm2$)	I
41.212	MSG:41.212	$Aba21'$	$Aba21'$	orthorhombic	C_{2v}	C_{2v}^{17}	7.2.21 ($mm21'$)	II
41.213	MSG:41.213	$Ab'a2'$	$Ab'a2'$	orthorhombic	C_{2v}	C_{2v}^{17}	7.3.22 ($m'm2'$)	III
41.214	MSG:41.214	$Aba'2'$	$Aba'2'$	orthorhombic	C_{2v}	C_{2v}^{17}	7.5.124 ($m'm2'$)	III
41.215	MSG:41.215	$Ab'a'2$	$Ab'a'2$	orthorhombic	C_{2v}	C_{2v}^{17}	7.4.23 ($m'm'2$)	III
41.216	MSG:41.216	A_aba2	$A_{2a}b'm'2$	orthorhombic	C_{2v}	C_{2v}^{17}	7.2.21 ($mm21'$)	IV
41.217	MSG:41.217	A_bba2	$P_Am'a'2$	orthorhombic	C_{2v}	C_{2v}^{17}	7.2.21 ($mm21'$)	IV
41.218	MSG:41.218	A_Bba2	$F_Am'm'2$	orthorhombic	C_{2v}	C_{2v}^{17}	7.2.21 ($mm21'$)	IV
42.219	MSG:42.219	$Fmm2$	$Fmm2$	orthorhombic	C_{2v}	C_{2v}^{18}	7.1.20 ($mm2$)	I
42.220	MSG:42.220	$Fmm21'$	$Fmm21'$	orthorhombic	C_{2v}	C_{2v}^{18}	7.2.21 ($mm21'$)	II
42.221	MSG:42.221	$Fm'm2'$	$Fm'm2'$	orthorhombic	C_{2v}	C_{2v}^{18}	7.3.22 ($m'm2'$)	III
42.222	MSG:42.222	$Fm'm'2$	$Fm'm'2$	orthorhombic	C_{2v}	C_{2v}^{18}	7.4.23 ($m'm'2$)	III
42.223	MSG:42.223	F_Smm2	P_Imm2	orthorhombic	C_{2v}	C_{2v}^{18}	7.2.21 ($mm21'$)	IV
43.224	MSG:43.224	$Fdd2$	$Fdd2$	orthorhombic	C_{2v}	C_{2v}^{19}	7.1.20 ($mm2$)	I
43.225	MSG:43.225	$Fdd21'$	$Fdd21'$	orthorhombic	C_{2v}	C_{2v}^{19}	7.2.21 ($mm21'$)	II
43.226	MSG:43.226	$Fd'd2'$	$Fd'd2'$	orthorhombic	C_{2v}	C_{2v}^{19}	7.3.22 ($m'm2'$)	III
43.227	MSG:43.227	$Fd'd'2$	$Fd'd'2$	orthorhombic	C_{2v}	C_{2v}^{19}	7.4.23 ($m'm'2$)	III
43.228	MSG:43.228	F_Sdd2	P_Inn2	orthorhombic	C_{2v}	C_{2v}^{19}	7.2.21 ($mm21'$)	IV
44.229	MSG:44.229	$Imm2$	$Imm2$	orthorhombic	C_{2v}	C_{2v}^{20}	7.1.20 ($mm2$)	I
44.230	MSG:44.230	$Imm21'$	$Imm21'$	orthorhombic	C_{2v}	C_{2v}^{20}	7.2.21 ($mm21'$)	II
44.231	MSG:44.231	$Im'm2'$	$Im'm2'$	orthorhombic	C_{2v}	C_{2v}^{20}	7.3.22 ($m'm2'$)	III
44.232	MSG:44.232	$Im'm'2$	$Im'm'2$	orthorhombic	C_{2v}	C_{2v}^{20}	7.4.23 ($m'm'2$)	III
44.233	MSG:44.233	I_cmm2	C_Imm2	orthorhombic	C_{2v}	C_{2v}^{20}	7.2.21 ($mm21'$)	IV
44.234	MSG:44.234	I_amm2	A_Imm2	orthorhombic	C_{2v}	C_{2v}^{20}	7.2.21 ($mm21'$)	IV
45.235	MSG:45.235	$Iba2$	$Iba2$	orthorhombic	C_{2v}	C_{2v}^{21}	7.1.20 ($mm2$)	I
45.236	MSG:45.236	$Iba21'$	$Iba21'$	orthorhombic	C_{2v}	C_{2v}^{21}	7.2.21 ($mm21'$)	II
45.237	MSG:45.237	$Ib'a2'$	$Ib'a2'$	orthorhombic	C_{2v}	C_{2v}^{21}	7.3.22 ($m'm2'$)	III
45.238	MSG:45.238	$Ib'a'2$	$Ib'a'2$	orthorhombic	C_{2v}	C_{2v}^{21}	7.4.23 ($m'm'2$)	III
45.239	MSG:45.239	I_cba2	$C_Im'm'2$	orthorhombic	C_{2v}	C_{2v}^{21}	7.2.21 ($mm21'$)	IV
45.240	MSG:45.240	I_aba2	$A_Ib'm'2$	orthorhombic	C_{2v}	C_{2v}^{21}	7.2.21 ($mm21'$)	IV
46.241	MSG:46.241	$Ima2$	$Ima2$	orthorhombic	C_{2v}	C_{2v}^{22}	7.1.20 ($mm2$)	I
46.242	MSG:46.242	$Ima21'$	$Ima21'$	orthorhombic	C_{2v}	C_{2v}^{22}	7.2.21 ($mm21'$)	II
46.243	MSG:46.243	$Im'a2'$	$Im'a2'$	orthorhombic	C_{2v}	C_{2v}^{22}	7.3.22 ($m'm2'$)	III
46.244	MSG:46.244	$Ima'2'$	$Ima'2'$	orthorhombic	C_{2v}	C_{2v}^{22}	7.5.124 ($m'm2'$)	III
46.245	MSG:46.245	$Im'a'2$	$Im'a'2$	orthorhombic	C_{2v}	C_{2v}^{22}	7.4.23 ($m'm'2$)	III
46.246	MSG:46.246	I_cma2	$C_Im'm2'$	orthorhombic	C_{2v}	C_{2v}^{22}	7.2.21 ($mm21'$)	IV
46.247	MSG:46.247	I_ama2	$A_Im'm'2$	orthorhombic	C_{2v}	C_{2v}^{22}	7.2.21 ($mm21'$)	IV
46.248	MSG:46.248	I_bma2	A_Ibm2	orthorhombic	C_{2v}	C_{2v}^{22}	7.2.21 ($mm21'$)	IV
47.249	MSG:47.249	$Pmmm$	$Pmmm$	orthorhombic	D_{2h}	D_{2h}^{1}	8.1.24 (mmm)	I
47.250	MSG:47.250	$Pmmm1'$	$Pmmm1'$	orthorhombic	D_{2h}	D_{2h}^{1}	8.2.25 ($mmm1'$)	II
47.251	MSG:47.251	$Pm'mm$	$Pm'mm$	orthorhombic	D_{2h}	D_{2h}^{1}	8.3.26 ($m'mm$)	III
47.252	MSG:47.252	$Pm'm'm$	$Pm'm'm$	orthorhombic	D_{2h}	D_{2h}^{1}	8.4.27 ($m'm'm$)	III
47.253	MSG:47.253	$Pm'm'm'$	$Pm'm'm'$	orthorhombic	D_{2h}	D_{2h}^{1}	8.5.28 ($m'm'm'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
47.254	MSG:47.254	P_ammm	$P_{2a}mmm$	orthorhombic	D_{2h}	D_{2h}^1	8.2.25 ($mmm1'$)	IV
47.255	MSG:47.255	P_Cmmm	C_Pmmm	orthorhombic	D_{2h}	D_{2h}^1	8.2.25 ($mmm1'$)	IV
47.256	MSG:47.256	P_Immm	I_Pmmm	orthorhombic	D_{2h}	D_{2h}^1	8.2.25 ($mmm1'$)	IV
48.257	MSG:48.257	$Pnnn$	$Pnnn$	orthorhombic	D_{2h}	D_{2h}^2	8.1.24 (mmm)	I
48.258	MSG:48.258	$Pnnn1'$	$Pnnn1'$	orthorhombic	D_{2h}	D_{2h}^2	8.2.25 ($mmm1'$)	II
48.259	MSG:48.259	$Pn'nn$	$Pn'nn$	orthorhombic	D_{2h}	D_{2h}^2	8.3.26 ($m'mm$)	III
48.260	MSG:48.260	$Pn'n'n$	$Pn'n'n$	orthorhombic	D_{2h}	D_{2h}^2	8.4.27 ($m'm'm$)	III
48.261	MSG:48.261	$Pn'n'n'$	$Pn'n'n'$	orthorhombic	D_{2h}	D_{2h}^2	8.5.28 ($m'm'm'$)	III
48.262	MSG:48.262	P_cnnn	$P_{2c}b'a'n$	orthorhombic	D_{2h}	D_{2h}^2	8.2.25 ($mmm1'$)	IV
48.263	MSG:48.263	P_Cnnn	$C_Pc'c'm'$	orthorhombic	D_{2h}	D_{2h}^2	8.2.25 ($mmm1'$)	IV
48.264	MSG:48.264	P_Innn	$I_Pm'm'm'$	orthorhombic	D_{2h}	D_{2h}^2	8.2.25 ($mmm1'$)	IV
49.265	MSG:49.265	$Pccm$	$Pccm$	orthorhombic	D_{2h}	D_{2h}^3	8.1.24 (mmm)	I
49.266	MSG:49.266	$Pccm1'$	$Pccm1'$	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	II
49.267	MSG:49.267	$Pc'cm$	$Pc'cm$	orthorhombic	D_{2h}	D_{2h}^3	8.3.26 ($m'mm$)	III
49.268	MSG:49.268	$Pccm'$	$Pccm'$	orthorhombic	D_{2h}	D_{2h}^3	8.6.125 ($m'mm$)	III
49.269	MSG:49.269	$Pc'c'm$	$Pc'c'm$	orthorhombic	D_{2h}	D_{2h}^3	8.4.27 ($m'm'm$)	III
49.270	MSG:49.270	$Pc'cm'$	$Pc'cm'$	orthorhombic	D_{2h}	D_{2h}^3	8.8.127 ($m'm'm$)	III
49.271	MSG:49.271	$Pc'c'm'$	$Pc'c'm'$	orthorhombic	D_{2h}	D_{2h}^3	8.5.28 ($m'm'm'$)	III
49.272	MSG:49.272	P_accm	$P_{2a}ccm$	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	IV
49.273	MSG:49.273	P_ccm	$P_{2c}m'm'm$	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	IV
49.274	MSG:49.274	P_Bccm	C_Pmma	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	IV
49.275	MSG:49.275	P_Cccm	C_Pccm	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	IV
49.276	MSG:49.276	P_Iccm	I_Pbam	orthorhombic	D_{2h}	D_{2h}^3	8.2.25 ($mmm1'$)	IV
50.277	MSG:50.277	$Pban$	$Pban$	orthorhombic	D_{2h}	D_{2h}^4	8.1.24 (mmm)	I
50.278	MSG:50.278	$Pban1'$	$Pban1'$	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	II
50.279	MSG:50.279	$Pb'an$	$Pb'an$	orthorhombic	D_{2h}	D_{2h}^4	8.3.26 ($m'mm$)	III
50.280	MSG:50.280	$Pban'$	$Pban'$	orthorhombic	D_{2h}	D_{2h}^4	8.6.125 ($m'mm$)	III
50.281	MSG:50.281	$Pb'a'n$	$Pb'a'n$	orthorhombic	D_{2h}	D_{2h}^4	8.4.27 ($m'm'm$)	III
50.282	MSG:50.282	$Pb'an'$	$Pb'an'$	orthorhombic	D_{2h}	D_{2h}^4	8.8.127 ($m'm'm$)	III
50.283	MSG:50.283	$Pb'a'n'$	$Pb'a'n'$	orthorhombic	D_{2h}	D_{2h}^4	8.5.28 ($m'm'm'$)	III
50.284	MSG:50.284	P_aban	$P_{2a}c'c'm'$	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	IV
50.285	MSG:50.285	P_cban	$P_{2c}ban$	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	IV
50.286	MSG:50.286	P_Aban	C_Pcca	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	IV
50.287	MSG:50.287	P_Cban	$C_Pm'm'm'$	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	IV
50.288	MSG:50.288	P_Iban	$I_Pb'a'm'$	orthorhombic	D_{2h}	D_{2h}^4	8.2.25 ($mmm1'$)	IV
51.289	MSG:51.289	$Pmma$	$Pmma$	orthorhombic	D_{2h}	D_{2h}^5	8.1.24 (mmm)	I
51.290	MSG:51.290	$Pmma1'$	$Pmma1'$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	II
51.291	MSG:51.291	$Pm'ma$	$Pm'ma$	orthorhombic	D_{2h}	D_{2h}^5	8.3.26 ($m'mm$)	III
51.292	MSG:51.292	$Pmm'a$	$Pmm'a$	orthorhombic	D_{2h}	D_{2h}^5	8.7.126 ($m'mm$)	III
51.293	MSG:51.293	$Pmma'$	$Pmma'$	orthorhombic	D_{2h}	D_{2h}^5	8.6.125 ($m'mm$)	III
51.294	MSG:51.294	$Pm'm'a$	$Pm'm'a$	orthorhombic	D_{2h}	D_{2h}^5	8.4.27 ($m'm'm$)	III
51.295	MSG:51.295	$Pmm'a'$	$Pmm'a'$	orthorhombic	D_{2h}	D_{2h}^5	8.9.128 ($m'm'm$)	III
51.296	MSG:51.296	$Pm'ma'$	$Pm'ma'$	orthorhombic	D_{2h}	D_{2h}^5	8.8.127 ($m'm'm$)	III
51.297	MSG:51.297	$Pm'm'a'$	$Pm'm'a'$	orthorhombic	D_{2h}	D_{2h}^5	8.5.28 ($m'm'm'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
51.298	MSG:51.298	P_amma	$P_{2a}mmm'$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.299	MSG:51.299	P_bmma	$P_{2b}mma$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.300	MSG:51.300	P_cmma	$P_{2c}mma$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.301	MSG:51.301	P_Amma	C_Pmcm	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.302	MSG:51.302	P_Bmma	$C_Pm'mm$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.303	MSG:51.303	P_Cmma	$C_Pmm'a$	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
51.304	MSG:51.304	P_Imma	I_Pmma	orthorhombic	D_{2h}	D_{2h}^5	8.2.25 ($mmm1'$)	IV
52.305	MSG:52.305	$Pnna$	$Pnna$	orthorhombic	D_{2h}	D_{2h}^6	8.1.24 (mmm)	I
52.306	MSG:52.306	$Pnna1'$	$Pnna1'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	II
52.307	MSG:52.307	$Pn'na$	$Pn'na$	orthorhombic	D_{2h}	D_{2h}^6	8.3.26 ($m'mm$)	III
52.308	MSG:52.308	$Pnn'a$	$Pnn'a$	orthorhombic	D_{2h}	D_{2h}^6	8.7.126 ($m'mm$)	III
52.309	MSG:52.309	$Pnna'$	$Pnna'$	orthorhombic	D_{2h}	D_{2h}^6	8.6.125 ($m'mm$)	III
52.310	MSG:52.310	$Pn'n'a$	$Pn'n'a$	orthorhombic	D_{2h}	D_{2h}^6	8.4.27 ($m'm'm$)	III
52.311	MSG:52.311	$Pnn'a'$	$Pnn'a'$	orthorhombic	D_{2h}	D_{2h}^6	8.9.128 ($m'm'm$)	III
52.312	MSG:52.312	$Pn'na'$	$Pn'na'$	orthorhombic	D_{2h}	D_{2h}^6	8.8.127 ($m'm'm$)	III
52.313	MSG:52.313	$Pn'n'a'$	$Pn'n'a'$	orthorhombic	D_{2h}	D_{2h}^6	8.5.28 ($m'm'm'$)	III
52.314	MSG:52.314	P_annna	$P_{2b}m'na'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.315	MSG:52.315	P_bnna	$P_{2c}b'an$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.316	MSG:52.316	P_cnna	$P_{2b}c'ca'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.317	MSG:52.317	P_Anna	$C_Pcc'm'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.318	MSG:52.318	P_Bnna	$C_Pm'c'm'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.319	MSG:52.319	P_Cnna	$C_Pcc'a'$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
52.320	MSG:52.320	P_Innna	$I_Pm'm'a$	orthorhombic	D_{2h}	D_{2h}^6	8.2.25 ($mmm1'$)	IV
53.321	MSG:53.321	$Pmna$	$Pmna$	orthorhombic	D_{2h}	D_{2h}^7	8.1.24 (mmm)	I
53.322	MSG:53.322	$Pmna1'$	$Pmna1'$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	II
53.323	MSG:53.323	$Pm'na$	$Pm'na$	orthorhombic	D_{2h}	D_{2h}^7	8.3.26 ($m'mm$)	III
53.324	MSG:53.324	$Pmn'a$	$Pmn'a$	orthorhombic	D_{2h}	D_{2h}^7	8.7.126 ($m'mm$)	III
53.325	MSG:53.325	$Pmna'$	$Pmna'$	orthorhombic	D_{2h}	D_{2h}^7	8.6.125 ($m'mm$)	III
53.326	MSG:53.326	$Pm'n'a$	$Pm'n'a$	orthorhombic	D_{2h}	D_{2h}^7	8.4.27 ($m'm'm$)	III
53.327	MSG:53.327	$Pmn'a'$	$Pmn'a'$	orthorhombic	D_{2h}	D_{2h}^7	8.9.128 ($m'm'm$)	III
53.328	MSG:53.328	$Pm'na'$	$Pm'na'$	orthorhombic	D_{2h}	D_{2h}^7	8.8.127 ($m'm'm$)	III
53.329	MSG:53.329	$Pm'n'a'$	$Pm'n'a'$	orthorhombic	D_{2h}	D_{2h}^7	8.5.28 ($m'm'm'$)	III
53.330	MSG:53.330	P_amna	$P_{2b}m'ma'$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.331	MSG:53.331	P_bmna	$P_{2b}mna$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.332	MSG:53.332	P_cmna	$P_{2a}c'c'm$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.333	MSG:53.333	P_Amna	$C_Pc'cm$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.334	MSG:53.334	P_Bmna	$C_Pmm'm'$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.335	MSG:53.335	P_Cmna	$C_Pmc'a'$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
53.336	MSG:53.336	P_Imna	$I_Pmm'a'$	orthorhombic	D_{2h}	D_{2h}^7	8.2.25 ($mmm1'$)	IV
54.337	MSG:54.337	$Pcca$	$Pcca$	orthorhombic	D_{2h}	D_{2h}^8	8.1.24 (mmm)	I
54.338	MSG:54.338	$Pcca1'$	$Pcca1'$	orthorhombic	D_{2h}	D_{2h}^8	8.2.25 ($mmm1'$)	II
54.339	MSG:54.339	$Pc'ca$	$Pc'ca$	orthorhombic	D_{2h}	D_{2h}^8	8.3.26 ($m'mm$)	III
54.340	MSG:54.340	$Pcc'a$	$Pcc'a$	orthorhombic	D_{2h}	D_{2h}^8	8.7.126 ($m'mm$)	III
54.341	MSG:54.341	$Pcca'$	$Pcca'$	orthorhombic	D_{2h}	D_{2h}^8	8.6.125 ($m'mm$)	III
54.342	MSG:54.342	$Pc'c'a$	$Pc'c'a$	orthorhombic	D_{2h}	D_{2h}^8	8.4.27 ($m'm'm$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
54.343	MSG:54.343	$Pcc'a'$	$Pcc'a'$	orthorhombic	D_{2h}	D_{2h}^{8}	8.9.128 ($m'm'm$)	III
54.344	MSG:54.344	$Pc'ca'$	$Pc'ca'$	orthorhombic	D_{2h}	D_{2h}^{8}	8.8.127 ($m'm'm$)	III
54.345	MSG:54.345	$Pc'c'a'$	$Pc'c'a'$	orthorhombic	D_{2h}	D_{2h}^{8}	8.5.28 ($m'm'm'$)	III
54.346	MSG:54.346	$P_{a}cca$	$P_{2a}ccm'$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.347	MSG:54.347	$P_{b}cca$	$P_{2b}cca$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.348	MSG:54.348	$P_{c}cca$	$P_{2c}m'm'a$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.349	MSG:54.349	$P_{A}cca$	$C_{P}m'ca$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.350	MSG:54.350	$P_{B}cca$	$C_{P}m'ma$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.351	MSG:54.351	$P_{C}cca$	$C_{P}c'ca$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
54.352	MSG:54.352	$P_{I}cca$	$I_{P}b'ca$	orthorhombic	D_{2h}	D_{2h}^{8}	8.2.25 ($mmm1'$)	IV
55.353	MSG:55.353	$Pbam$	$Pbam$	orthorhombic	D_{2h}	D_{2h}^{9}	8.1.24 (mmm)	I
55.354	MSG:55.354	$Pbam1'$	$Pbam1'$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	II
55.355	MSG:55.355	$Pb'am$	$Pb'am$	orthorhombic	D_{2h}	D_{2h}^{9}	8.3.26 ($m'mm$)	III
55.356	MSG:55.356	$Pbam'$	$Pbam'$	orthorhombic	D_{2h}	D_{2h}^{9}	8.6.125 ($m'mm$)	III
55.357	MSG:55.357	$Pb'a'm$	$Pb'a'm$	orthorhombic	D_{2h}	D_{2h}^{9}	8.4.27 ($m'm'm$)	III
55.358	MSG:55.358	$Pb'am'$	$Pb'am'$	orthorhombic	D_{2h}	D_{2h}^{9}	8.8.127 ($m'm'm$)	III
55.359	MSG:55.359	$Pb'a'm'$	$Pb'a'm'$	orthorhombic	D_{2h}	D_{2h}^{9}	8.5.28 ($m'm'm'$)	III
55.360	MSG:55.360	$P_{a}bam$	$P_{2c}m'ma$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	IV
55.361	MSG:55.361	$P_{c}bam$	$P_{2c}bam$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	IV
55.362	MSG:55.362	$P_{A}bam$	$C_{P}mca$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	IV
55.363	MSG:55.363	$P_{C}bam$	$C_{P}m'm'm$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	IV
55.364	MSG:55.364	$P_{I}bam$	$I_{P}b'a'm$	orthorhombic	D_{2h}	D_{2h}^{9}	8.2.25 ($mmm1'$)	IV
56.365	MSG:56.365	$Pccn$	$Pccn$	orthorhombic	D_{2h}	D_{2h}^{10}	8.1.24 (mmm)	I
56.366	MSG:56.366	$Pccn1'$	$Pccn1'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	II
56.367	MSG:56.367	$Pc'cn$	$Pc'cn$	orthorhombic	D_{2h}	D_{2h}^{10}	8.3.26 ($m'mm$)	III
56.368	MSG:56.368	$Pccn'$	$Pccn'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.6.125 ($m'mm$)	III
56.369	MSG:56.369	$Pc'c'n$	$Pc'c'n$	orthorhombic	D_{2h}	D_{2h}^{10}	8.4.27 ($m'm'm$)	III
56.370	MSG:56.370	$Pc'cn'$	$Pc'cn'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.8.127 ($m'm'm$)	III
56.371	MSG:56.371	$Pc'c'n'$	$Pc'c'n'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.5.28 ($m'm'm'$)	III
56.372	MSG:56.372	$P_{b}ccn$	$P_{2b}cca'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	IV
56.373	MSG:56.373	$P_{c}ccn$	$P_{2c}m'm'n$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	IV
56.374	MSG:56.374	$P_{A}ccn$	$C_{P}m'c'a$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	IV
56.375	MSG:56.375	$P_{C}ccn$	$C_{P}ccm'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	IV
56.376	MSG:56.376	$P_{I}ccn$	$I_{P}bam'$	orthorhombic	D_{2h}	D_{2h}^{10}	8.2.25 ($mmm1'$)	IV
57.377	MSG:57.377	$Pbcm$	$Pbcm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.1.24 (mmm)	I
57.378	MSG:57.378	$Pbcm1'$	$Pbcm1'$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	II
57.379	MSG:57.379	$Pb'cm$	$Pb'cm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.3.26 ($m'mm$)	III
57.380	MSG:57.380	$Pbc'm$	$Pbc'm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.7.126 ($m'mm$)	III
57.381	MSG:57.381	$Pbcm'$	$Pbcm'$	orthorhombic	D_{2h}	D_{2h}^{11}	8.6.125 ($m'mm$)	III
57.382	MSG:57.382	$Pb'c'm$	$Pb'c'm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.4.27 ($m'm'm$)	III
57.383	MSG:57.383	$Pbc'm'$	$Pbc'm'$	orthorhombic	D_{2h}	D_{2h}^{11}	8.9.128 ($m'm'm$)	III
57.384	MSG:57.384	$Pb'cm'$	$Pb'cm'$	orthorhombic	D_{2h}	D_{2h}^{11}	8.8.127 ($m'm'm$)	III
57.385	MSG:57.385	$Pb'c'm'$	$Pb'c'm'$	orthorhombic	D_{2h}	D_{2h}^{11}	8.5.28 ($m'm'm'$)	III
57.386	MSG:57.386	$P_{a}bcm$	$P_{2a}bcm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
57.387	MSG:57.387	$P_{b}bcm$	$P_{2c}mm'a$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
57.388	MSG:57.388	P_cbcm	$P_{2b}m'ma$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
57.389	MSG:57.389	P_Abcm	C_Pmma'	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
57.390	MSG:57.390	P_Bbcm	C_Pmca'	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
57.391	MSG:57.391	P_Cbcm	$C_Pm'cm$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
57.392	MSG:57.392	P_Ibcm	$I_Pb'am$	orthorhombic	D_{2h}	D_{2h}^{11}	8.2.25 ($mmm1'$)	IV
58.393	MSG:58.393	$Pnnm$	$Pnnm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.1.24 (mmm)	I
58.394	MSG:58.394	$Pnnm1'$	$Pnnm1'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	II
58.395	MSG:58.395	$Pn'nm$	$Pn'nm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.3.26 ($m'mm$)	III
58.396	MSG:58.396	$Pnnm'$	$Pnnm'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.6.125 ($m'mm$)	III
58.397	MSG:58.397	$Pn'n'm$	$Pn'n'm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.4.27 ($m'm'm$)	III
58.398	MSG:58.398	$Pnn'm'$	$Pnn'm'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.9.128 ($m'm'm$)	III
58.399	MSG:58.399	$Pn'n'm'$	$Pn'n'm'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.5.28 ($m'm'm'$)	III
58.400	MSG:58.400	P_annm	$P_{2b}mna'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	IV
58.401	MSG:58.401	P_cnnm	$P_{2c}b'a'm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	IV
58.402	MSG:58.402	P_Bnnm	$C_Pmc'm'$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	IV
58.403	MSG:58.403	P_Cnnm	$C_Pc'c'm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	IV
58.404	MSG:58.404	P_Innm	$I_Pm'm'm$	orthorhombic	D_{2h}	D_{2h}^{12}	8.2.25 ($mmm1'$)	IV
59.405	MSG:59.405	$Pmmn$	$Pmmn$	orthorhombic	D_{2h}	D_{2h}^{13}	8.1.24 (mmm)	I
59.406	MSG:59.406	$Pmmn1'$	$Pmmn1'$	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	II
59.407	MSG:59.407	$Pm'mn$	$Pm'mn$	orthorhombic	D_{2h}	D_{2h}^{13}	8.3.26 ($m'mm$)	III
59.408	MSG:59.408	$Pmmn'$	$Pmmn'$	orthorhombic	D_{2h}	D_{2h}^{13}	8.6.125 ($m'mm$)	III
59.409	MSG:59.409	$Pm'm'n$	$Pm'm'n$	orthorhombic	D_{2h}	D_{2h}^{13}	8.4.27 ($m'm'm$)	III
59.410	MSG:59.410	$Pmm'n'$	$Pmm'n'$	orthorhombic	D_{2h}	D_{2h}^{13}	8.9.128 ($m'm'm$)	III
59.411	MSG:59.411	$Pm'm'n'$	$Pm'm'n'$	orthorhombic	D_{2h}	D_{2h}^{13}	8.5.28 ($m'm'm'$)	III
59.412	MSG:59.412	P_bmmn	$P_{2b}mma'$	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	IV
59.413	MSG:59.413	P_cmmn	$P_{2c}mmn$	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	IV
59.414	MSG:59.414	P_Bmmn	$C_Pmc'm$	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	IV
59.415	MSG:59.415	P_Cmmn	C_Pmmm'	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	IV
59.416	MSG:59.416	P_Immn	$I_Pm'mm$	orthorhombic	D_{2h}	D_{2h}^{13}	8.2.25 ($mmm1'$)	IV
60.417	MSG:60.417	$Pbcn$	$Pbcn$	orthorhombic	D_{2h}	D_{2h}^{14}	8.1.24 (mmm)	I
60.418	MSG:60.418	$Pbcn1'$	$Pbcn1'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	II
60.419	MSG:60.419	$Pb'cn$	$Pb'cn$	orthorhombic	D_{2h}	D_{2h}^{14}	8.3.26 ($m'mm$)	III
60.420	MSG:60.420	$Pbc'n$	$Pbc'n$	orthorhombic	D_{2h}	D_{2h}^{14}	8.7.126 ($m'mm$)	III
60.421	MSG:60.421	$Pbcn'$	$Pbcn'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.6.125 ($m'mm$)	III
60.422	MSG:60.422	$Pb'c'n$	$Pb'c'n$	orthorhombic	D_{2h}	D_{2h}^{14}	8.4.27 ($m'm'm$)	III
60.423	MSG:60.423	$Pbc'n'$	$Pbc'n'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.9.128 ($m'm'm$)	III
60.424	MSG:60.424	$Pb'cn'$	$Pb'cn'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.8.127 ($m'm'm$)	III
60.425	MSG:60.425	$Pb'c'n'$	$Pb'c'n'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.5.28 ($m'm'm'$)	III
60.426	MSG:60.426	P_abcn	$P_{2b}c'ca$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
60.427	MSG:60.427	P_bbcn	$P_{2a}bc'm'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
60.428	MSG:60.428	P_cbcn	$P_{2b}m'na$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
60.429	MSG:60.429	P_Abcn	$C_Pm'c'a'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
60.430	MSG:60.430	P_Bbcn	C_Pcca'	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
60.431	MSG:60.431	P_Cbcn	$C_Pm'cm'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
60.432	MSG:60.432	P_Ibcn	$I_Pb'am'$	orthorhombic	D_{2h}	D_{2h}^{14}	8.2.25 ($mmm1'$)	IV
61.433	MSG:61.433	$Pbca$	$Pbca$	orthorhombic	D_{2h}	D_{2h}^{15}	8.1.24 (mmm)	I
61.434	MSG:61.434	$Pbca1'$	$Pbca1'$	orthorhombic	D_{2h}	D_{2h}^{15}	8.2.25 ($mmm1'$)	II
61.435	MSG:61.435	$Pb'ca$	$Pb'ca$	orthorhombic	D_{2h}	D_{2h}^{15}	8.3.26 ($m'mm$)	III
61.436	MSG:61.436	$Pb'c'a$	$Pb'c'a$	orthorhombic	D_{2h}	D_{2h}^{15}	8.4.27 ($m'm'm$)	III
61.437	MSG:61.437	$Pb'c'a'$	$Pb'c'a'$	orthorhombic	D_{2h}	D_{2h}^{15}	8.5.28 ($m'm'm'$)	III
61.438	MSG:61.438	P_abca	$P_{2a}bcm'$	orthorhombic	D_{2h}	D_{2h}^{15}	8.2.25 ($mmm1'$)	IV
61.439	MSG:61.439	P_Cbca	$C_Pm'ca'$	orthorhombic	D_{2h}	D_{2h}^{15}	8.2.25 ($mmm1'$)	IV
61.440	MSG:61.440	P_Ibca	I_Pbca	orthorhombic	D_{2h}	D_{2h}^{15}	8.2.25 ($mmm1'$)	IV
62.441	MSG:62.441	$Pnma$	$Pnma$	orthorhombic	D_{2h}	D_{2h}^{16}	8.1.24 (mmm)	I
62.442	MSG:62.442	$Pnma1'$	$Pnma1'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	II
62.443	MSG:62.443	$Pn'ma$	$Pn'ma$	orthorhombic	D_{2h}	D_{2h}^{16}	8.3.26 ($m'mm$)	III
62.444	MSG:62.444	$Pnm'a$	$Pnm'a$	orthorhombic	D_{2h}	D_{2h}^{16}	8.7.126 ($m'mm$)	III
62.445	MSG:62.445	$Pnma'$	$Pnma'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.6.125 ($m'mm$)	III
62.446	MSG:62.446	$Pn'm'a$	$Pn'm'a$	orthorhombic	D_{2h}	D_{2h}^{16}	8.4.27 ($m'm'm$)	III
62.447	MSG:62.447	$Pnm'a'$	$Pnm'a'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.9.128 ($m'm'm$)	III
62.448	MSG:62.448	$Pn'ma'$	$Pn'ma'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.8.127 ($m'm'm$)	III
62.449	MSG:62.449	$Pn'm'a'$	$Pn'm'a'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.5.28 ($m'm'm'$)	III
62.450	MSG:62.450	P_anma	$P_{2c}m'mn$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.451	MSG:62.451	P_bnma	$P_{2c}b'am$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.452	MSG:62.452	P_cnma	$P_{2a}bc'm$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.453	MSG:62.453	P_Anma	C_Pmcm'	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.454	MSG:62.454	P_Bnma	$C_Pm'c'm$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.455	MSG:62.455	P_Cnma	$C_Pmc'a$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
62.456	MSG:62.456	P_Inma	$I_Pm'ma'$	orthorhombic	D_{2h}	D_{2h}^{16}	8.2.25 ($mmm1'$)	IV
63.457	MSG:63.457	$Cmcm$	$Cmcm$	orthorhombic	D_{2h}	D_{2h}^{17}	8.1.24 (mmm)	I
63.458	MSG:63.458	$Cmcm1'$	$Cmcm1'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.2.25 ($mmm1'$)	II
63.459	MSG:63.459	$Cm'cm$	$Cm'cm$	orthorhombic	D_{2h}	D_{2h}^{17}	8.3.26 ($m'mm$)	III
63.460	MSG:63.460	$Cmc'm$	$Cmc'm$	orthorhombic	D_{2h}	D_{2h}^{17}	8.7.126 ($m'mm$)	III
63.461	MSG:63.461	$Cmcm'$	$Cmcm'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.6.125 ($m'mm$)	III
63.462	MSG:63.462	$Cm'c'm$	$Cm'c'm$	orthorhombic	D_{2h}	D_{2h}^{17}	8.4.27 ($m'm'm$)	III
63.463	MSG:63.463	$Cmc'm'$	$Cmc'm'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.9.128 ($m'm'm$)	III
63.464	MSG:63.464	$Cm'cm'$	$Cm'cm'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.8.127 ($m'm'm$)	III
63.465	MSG:63.465	$Cm'c'm'$	$Cm'c'm'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.5.28 ($m'm'm'$)	III
63.466	MSG:63.466	C_cmcm	$C_{2c}mm'm'$	orthorhombic	D_{2h}	D_{2h}^{17}	8.2.25 ($mmm1'$)	IV
63.467	MSG:63.467	C_amcm	P_Amma	orthorhombic	D_{2h}	D_{2h}^{17}	8.2.25 ($mmm1'$)	IV
63.468	MSG:63.468	C_Amcm	$F_Cm'mm$	orthorhombic	D_{2h}	D_{2h}^{17}	8.2.25 ($mmm1'$)	IV
64.469	MSG:64.469	$Cmca$	$Cmca$	orthorhombic	D_{2h}	D_{2h}^{18}	8.1.24 (mmm)	I
64.470	MSG:64.470	$Cmca1'$	$Cmca1'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.2.25 ($mmm1'$)	II
64.471	MSG:64.471	$Cm'ca$	$Cm'ca$	orthorhombic	D_{2h}	D_{2h}^{18}	8.3.26 ($m'mm$)	III
64.472	MSG:64.472	$Cmc'a$	$Cmc'a$	orthorhombic	D_{2h}	D_{2h}^{18}	8.7.126 ($m'mm$)	III
64.473	MSG:64.473	$Cmca'$	$Cmca'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.6.125 ($m'mm$)	III
64.474	MSG:64.474	$Cm'c'a$	$Cm'c'a$	orthorhombic	D_{2h}	D_{2h}^{18}	8.4.27 ($m'm'm$)	III
64.475	MSG:64.475	$Cmc'a'$	$Cmc'a'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.9.128 ($m'm'm$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
64.476	MSG:64.476	$Cm'ca'$	$Cm'ca'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.8.127 ($m'm'm$)	III
64.477	MSG:64.477	$Cm'c'a'$	$Cm'c'a'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.5.28 ($m'm'm'$)	III
64.478	MSG:64.478	C_cmca	$C_{2c}m'ma$	orthorhombic	D_{2h}	D_{2h}^{18}	8.2.25 ($mmm1'$)	IV
64.479	MSG:64.479	C_amca	$P_Am'ma$	orthorhombic	D_{2h}	D_{2h}^{18}	8.2.25 ($mmm1'$)	IV
64.480	MSG:64.480	C_Amca	$F_Cmm'm'$	orthorhombic	D_{2h}	D_{2h}^{18}	8.2.25 ($mmm1'$)	IV
65.481	MSG:65.481	$Cmmm$	$Cmmm$	orthorhombic	D_{2h}	D_{2h}^{19}	8.1.24 (mmm)	I
65.482	MSG:65.482	$Cmmm1'$	$Cmmm1'$	orthorhombic	D_{2h}	D_{2h}^{19}	8.2.25 ($mmm1'$)	II
65.483	MSG:65.483	$Cm'mm$	$Cm'mm$	orthorhombic	D_{2h}	D_{2h}^{19}	8.3.26 ($m'mm$)	III
65.484	MSG:65.484	$Cmmm'$	$Cmmm'$	orthorhombic	D_{2h}	D_{2h}^{19}	8.6.125 ($m'mm$)	III
65.485	MSG:65.485	$Cm'm'm$	$Cm'm'm$	orthorhombic	D_{2h}	D_{2h}^{19}	8.4.27 ($m'm'm$)	III
65.486	MSG:65.486	$Cmm'm'$	$Cmm'm'$	orthorhombic	D_{2h}	D_{2h}^{19}	8.9.128 ($m'm'm$)	III
65.487	MSG:65.487	$Cm'm'm'$	$Cm'm'm'$	orthorhombic	D_{2h}	D_{2h}^{19}	8.5.28 ($m'm'm'$)	III
65.488	MSG:65.488	C_cmmm	$C_{2c}mmm$	orthorhombic	D_{2h}	D_{2h}^{19}	8.2.25 ($mmm1'$)	IV
65.489	MSG:65.489	C_ammm	P_Cmmm	orthorhombic	D_{2h}	D_{2h}^{19}	8.2.25 ($mmm1'$)	IV
65.490	MSG:65.490	C_Ammm	F_Cmmm	orthorhombic	D_{2h}	D_{2h}^{19}	8.2.25 ($mmm1'$)	IV
66.491	MSG:66.491	$Cccm$	$Cccm$	orthorhombic	D_{2h}	D_{2h}^{20}	8.1.24 (mmm)	I
66.492	MSG:66.492	$Cccm1'$	$Cccm1'$	orthorhombic	D_{2h}	D_{2h}^{20}	8.2.25 ($mmm1'$)	II
66.493	MSG:66.493	$Cc'cm$	$Cc'cm$	orthorhombic	D_{2h}	D_{2h}^{20}	8.3.26 ($m'mm$)	III
66.494	MSG:66.494	$Cccm'$	$Cccm'$	orthorhombic	D_{2h}	D_{2h}^{20}	8.6.125 ($m'mm$)	III
66.495	MSG:66.495	$Cc'c'm$	$Cc'c'm$	orthorhombic	D_{2h}	D_{2h}^{20}	8.4.27 ($m'm'm$)	III
66.496	MSG:66.496	$Ccc'm'$	$Ccc'm'$	orthorhombic	D_{2h}	D_{2h}^{20}	8.9.128 ($m'm'm$)	III
66.497	MSG:66.497	$Cc'c'm'$	$Cc'c'm'$	orthorhombic	D_{2h}	D_{2h}^{20}	8.5.28 ($m'm'm'$)	III
66.498	MSG:66.498	C_cccm	$C_{2c}m'm'm$	orthorhombic	D_{2h}	D_{2h}^{20}	8.2.25 ($mmm1'$)	IV
66.499	MSG:66.499	C_accm	P_Cccm	orthorhombic	D_{2h}	D_{2h}^{20}	8.2.25 ($mmm1'$)	IV
66.500	MSG:66.500	C_Accm	$F_Cm'm'm$	orthorhombic	D_{2h}	D_{2h}^{20}	8.2.25 ($mmm1'$)	IV
67.501	MSG:67.501	$Cmma$	$Cmma$	orthorhombic	D_{2h}	D_{2h}^{21}	8.1.24 (mmm)	I
67.502	MSG:67.502	$Cmma1'$	$Cmma1'$	orthorhombic	D_{2h}	D_{2h}^{21}	8.2.25 ($mmm1'$)	II
67.503	MSG:67.503	$Cm'ma$	$Cm'ma$	orthorhombic	D_{2h}	D_{2h}^{21}	8.3.26 ($m'mm$)	III
67.504	MSG:67.504	$Cmma'$	$Cmma'$	orthorhombic	D_{2h}	D_{2h}^{21}	8.6.125 ($m'mm$)	III
67.505	MSG:67.505	$Cm'm'a$	$Cm'm'a$	orthorhombic	D_{2h}	D_{2h}^{21}	8.4.27 ($m'm'm$)	III
67.506	MSG:67.506	$Cmm'a'$	$Cmm'a'$	orthorhombic	D_{2h}	D_{2h}^{21}	8.9.128 ($m'm'm$)	III
67.507	MSG:67.507	$Cm'm'a'$	$Cm'm'a'$	orthorhombic	D_{2h}	D_{2h}^{21}	8.5.28 ($m'm'm'$)	III
67.508	MSG:67.508	C_cmma	$C_{2c}mma$	orthorhombic	D_{2h}	D_{2h}^{21}	8.2.25 ($mmm1'$)	IV
67.509	MSG:67.509	C_amma	P_Cmmm'	orthorhombic	D_{2h}	D_{2h}^{21}	8.2.25 ($mmm1'$)	IV
67.510	MSG:67.510	C_Amma	F_Cmmm'	orthorhombic	D_{2h}	D_{2h}^{21}	8.2.25 ($mmm1'$)	IV
68.511	MSG:68.511	$Ccca$	$Ccca$	orthorhombic	D_{2h}	D_{2h}^{22}	8.1.24 (mmm)	I
68.512	MSG:68.512	$Ccca1'$	$Ccca1'$	orthorhombic	D_{2h}	D_{2h}^{22}	8.2.25 ($mmm1'$)	II
68.513	MSG:68.513	$Cc'ca$	$Cc'ca$	orthorhombic	D_{2h}	D_{2h}^{22}	8.3.26 ($m'mm$)	III
68.514	MSG:68.514	$Ccca'$	$Ccca'$	orthorhombic	D_{2h}	D_{2h}^{22}	8.6.125 ($m'mm$)	III
68.515	MSG:68.515	$Cc'c'a$	$Cc'c'a$	orthorhombic	D_{2h}	D_{2h}^{22}	8.4.27 ($m'm'm$)	III
68.516	MSG:68.516	$Ccc'a'$	$Ccc'a'$	orthorhombic	D_{2h}	D_{2h}^{22}	8.9.128 ($m'm'm$)	III
68.517	MSG:68.517	$Cc'c'a'$	$Cc'c'a'$	orthorhombic	D_{2h}	D_{2h}^{22}	8.5.28 ($m'm'm'$)	III
68.518	MSG:68.518	C_ccca	$C_{2c}m'm'a$	orthorhombic	D_{2h}	D_{2h}^{22}	8.2.25 ($mmm1'$)	IV
68.519	MSG:68.519	C_accca	P_Cccm'	orthorhombic	D_{2h}	D_{2h}^{22}	8.2.25 ($mmm1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
68.520	MSG:68.520	C_Acca	$F_Cm'm'm'$	orthorhombic	D_{2h}	D_{2h}^{22}	8.2.25 ($mmm1'$)	IV
69.521	MSG:69.521	$Fmmm$	$Fmmm$	orthorhombic	D_{2h}	D_{2h}^{23}	8.1.24 (mmm)	I
69.522	MSG:69.522	$Fmmm1'$	$Fmmm1'$	orthorhombic	D_{2h}	D_{2h}^{23}	8.2.25 ($mmm1'$)	II
69.523	MSG:69.523	$Fm'mm$	$Fm'mm$	orthorhombic	D_{2h}	D_{2h}^{23}	8.3.26 ($m'mm$)	III
69.524	MSG:69.524	$Fm'm'm$	$Fm'm'm$	orthorhombic	D_{2h}	D_{2h}^{23}	8.4.27 ($m'm'm$)	III
69.525	MSG:69.525	$Fm'm'm'$	$Fm'm'm'$	orthorhombic	D_{2h}	D_{2h}^{23}	8.5.28 ($m'm'm'$)	III
69.526	MSG:69.526	F_Smmm	P_Immm	orthorhombic	D_{2h}	D_{2h}^{23}	8.2.25 ($mmm1'$)	IV
70.527	MSG:70.527	$Fddd$	$Fddd$	orthorhombic	D_{2h}	D_{2h}^{24}	8.1.24 (mmm)	I
70.528	MSG:70.528	$Fddd1'$	$Fddd1'$	orthorhombic	D_{2h}	D_{2h}^{24}	8.2.25 ($mmm1'$)	II
70.529	MSG:70.529	$Fd'dd$	$Fd'dd$	orthorhombic	D_{2h}	D_{2h}^{24}	8.3.26 ($m'mm$)	III
70.530	MSG:70.530	$Fd'd'd$	$Fd'd'd$	orthorhombic	D_{2h}	D_{2h}^{24}	8.4.27 ($m'm'm$)	III
70.531	MSG:70.531	$Fd'd'd'$	$Fd'd'd'$	orthorhombic	D_{2h}	D_{2h}^{24}	8.5.28 ($m'm'm'$)	III
70.532	MSG:70.532	F_Sddd	P_Innn	orthorhombic	D_{2h}	D_{2h}^{24}	8.2.25 ($mmm1'$)	IV
71.533	MSG:71.533	$Immm$	$Immm$	orthorhombic	D_{2h}	D_{2h}^{25}	8.1.24 (mmm)	I
71.534	MSG:71.534	$Immm1'$	$Immm1'$	orthorhombic	D_{2h}	D_{2h}^{25}	8.2.25 ($mmm1'$)	II
71.535	MSG:71.535	$Im'mm$	$Im'mm$	orthorhombic	D_{2h}	D_{2h}^{25}	8.3.26 ($m'mm$)	III
71.536	MSG:71.536	$Im'm'm$	$Im'm'm$	orthorhombic	D_{2h}	D_{2h}^{25}	8.4.27 ($m'm'm$)	III
71.537	MSG:71.537	$Im'm'm'$	$Im'm'm'$	orthorhombic	D_{2h}	D_{2h}^{25}	8.5.28 ($m'm'm'$)	III
71.538	MSG:71.538	I_cmmm	C_Immm	orthorhombic	D_{2h}	D_{2h}^{25}	8.2.25 ($mmm1'$)	IV
72.539	MSG:72.539	$Ibam$	$Ibam$	orthorhombic	D_{2h}	D_{2h}^{26}	8.1.24 (mmm)	I
72.540	MSG:72.540	$Ibam1'$	$Ibam1'$	orthorhombic	D_{2h}	D_{2h}^{26}	8.2.25 ($mmm1'$)	II
72.541	MSG:72.541	$Ib'am$	$Ib'am$	orthorhombic	D_{2h}	D_{2h}^{26}	8.3.26 ($m'mm$)	III
72.542	MSG:72.542	$Ibam'$	$Ibam'$	orthorhombic	D_{2h}	D_{2h}^{26}	8.6.125 ($m'mm$)	III
72.543	MSG:72.543	$Ib'a'm$	$Ib'a'm$	orthorhombic	D_{2h}	D_{2h}^{26}	8.4.27 ($m'm'm$)	III
72.544	MSG:72.544	$Iba'm'$	$Iba'm'$	orthorhombic	D_{2h}	D_{2h}^{26}	8.9.128 ($m'm'm$)	III
72.545	MSG:72.545	$Ib'a'm'$	$Ib'a'm'$	orthorhombic	D_{2h}	D_{2h}^{26}	8.5.28 ($m'm'm'$)	III
72.546	MSG:72.546	I_cbam	$C_Im'm'm$	orthorhombic	D_{2h}	D_{2h}^{26}	8.2.25 ($mmm1'$)	IV
72.547	MSG:72.547	I_bbam	C_Imma	orthorhombic	D_{2h}	D_{2h}^{26}	8.2.25 ($mmm1'$)	IV
73.548	MSG:73.548	$Ibca$	$Ibca$	orthorhombic	D_{2h}	D_{2h}^{27}	8.1.24 (mmm)	I
73.549	MSG:73.549	$Ibca1'$	$Ibca1'$	orthorhombic	D_{2h}	D_{2h}^{27}	8.2.25 ($mmm1'$)	II
73.550	MSG:73.550	$Ib'ca$	$Ib'ca$	orthorhombic	D_{2h}	D_{2h}^{27}	8.3.26 ($m'mm$)	III
73.551	MSG:73.551	$Ib'c'a$	$Ib'c'a$	orthorhombic	D_{2h}	D_{2h}^{27}	8.4.27 ($m'm'm$)	III
73.552	MSG:73.552	$Ib'c'a'$	$Ib'c'a'$	orthorhombic	D_{2h}	D_{2h}^{27}	8.5.28 ($m'm'm'$)	III
73.553	MSG:73.553	I_cbca	$C_Im'ma'$	orthorhombic	D_{2h}	D_{2h}^{27}	8.2.25 ($mmm1'$)	IV
74.554	MSG:74.554	$Imma$	$Imma$	orthorhombic	D_{2h}	D_{2h}^{28}	8.1.24 (mmm)	I
74.555	MSG:74.555	$Imma1'$	$Imma1'$	orthorhombic	D_{2h}	D_{2h}^{28}	8.2.25 ($mmm1'$)	II
74.556	MSG:74.556	$Im'ma$	$Im'ma$	orthorhombic	D_{2h}	D_{2h}^{28}	8.3.26 ($m'mm$)	III
74.557	MSG:74.557	$Imma'$	$Imma'$	orthorhombic	D_{2h}	D_{2h}^{28}	8.6.125 ($m'mm$)	III
74.558	MSG:74.558	$Im'm'a$	$Im'm'a$	orthorhombic	D_{2h}	D_{2h}^{28}	8.4.27 ($m'm'm$)	III
74.559	MSG:74.559	$Imm'a'$	$Imm'a'$	orthorhombic	D_{2h}	D_{2h}^{28}	8.9.128 ($m'm'm$)	III
74.560	MSG:74.560	$Im'm'a'$	$Im'm'a'$	orthorhombic	D_{2h}	D_{2h}^{28}	8.5.28 ($m'm'm'$)	III
74.561	MSG:74.561	I_cmma	$C_Imm'a$	orthorhombic	D_{2h}	D_{2h}^{28}	8.2.25 ($mmm1'$)	IV
74.562	MSG:74.562	I_bmma	$C_Im'mm$	orthorhombic	D_{2h}	D_{2h}^{28}	8.2.25 ($mmm1'$)	IV
75.1	MSG:75.1	$P4$	$P4$	tetragonal	C_4	C_4^1	9.1.29 (4)	I

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
75.2	MSG:75.2	$P41'$	$P41'$	tetragonal	C_4	C_4^1	9.2.30 ($41'$)	II
75.3	MSG:75.3	$P4'$	$P4'$	tetragonal	C_4	C_4^1	9.3.31 ($4'$)	III
75.4	MSG:75.4	P_c4	$P_{2c}4$	tetragonal	C_4	C_4^1	9.2.30 ($41'$)	IV
75.5	MSG:75.5	P_C4	P_P4	tetragonal	C_4	C_4^1	9.2.30 ($41'$)	IV
75.6	MSG:75.6	P_I4	I_P4	tetragonal	C_4	C_4^1	9.2.30 ($41'$)	IV
76.7	MSG:76.7	$P4_1$	$P4_1$	tetragonal	C_4	C_4^2	9.1.29 (4)	I
76.8	MSG:76.8	$P4_11'$	$P4_11'$	tetragonal	C_4	C_4^2	9.2.30 ($41'$)	II
76.9	MSG:76.9	$P4_1'$	$P4_1'$	tetragonal	C_4	C_4^2	9.3.31 ($4'$)	III
76.10	MSG:76.10	P_c4_1	$P_{2c}4_2$	tetragonal	C_4	C_4^2	9.2.30 ($41'$)	IV
76.11	MSG:76.11	P_C4_1	P_P4_1	tetragonal	C_4	C_4^2	9.2.30 ($41'$)	IV
76.12	MSG:76.12	P_I4_1	I_P4_1	tetragonal	C_4	C_4^2	9.2.30 ($41'$)	IV
77.13	MSG:77.13	$P4_2$	$P4_2$	tetragonal	C_4	C_4^3	9.1.29 (4)	I
77.14	MSG:77.14	$P4_21'$	$P4_21'$	tetragonal	C_4	C_4^3	9.2.30 ($41'$)	II
77.15	MSG:77.15	$P4_2'$	$P4_2'$	tetragonal	C_4	C_4^3	9.3.31 ($4'$)	III
77.16	MSG:77.16	P_c4_2	$P_{2c}4'$	tetragonal	C_4	C_4^3	9.2.30 ($41'$)	IV
77.17	MSG:77.17	P_C4_2	P_P4_2	tetragonal	C_4	C_4^3	9.2.30 ($41'$)	IV
77.18	MSG:77.18	P_I4_2	I_P4'	tetragonal	C_4	C_4^3	9.2.30 ($41'$)	IV
78.19	MSG:78.19	$P4_3$	$P4_3$	tetragonal	C_4	C_4^4	9.1.29 (4)	I
78.20	MSG:78.20	$P4_31'$	$P4_31'$	tetragonal	C_4	C_4^4	9.2.30 ($41'$)	II
78.21	MSG:78.21	$P4_3'$	$P4_3'$	tetragonal	C_4	C_4^4	9.3.31 ($4'$)	III
78.22	MSG:78.22	P_c4_3	$P_{2c}4_2'$	tetragonal	C_4	C_4^4	9.2.30 ($41'$)	IV
78.23	MSG:78.23	P_C4_3	P_P4_3	tetragonal	C_4	C_4^4	9.2.30 ($41'$)	IV
78.24	MSG:78.24	P_I4_3	I_P4_1'	tetragonal	C_4	C_4^4	9.2.30 ($41'$)	IV
79.25	MSG:79.25	$I4$	$I4$	tetragonal	C_4	C_4^5	9.1.29 (4)	I
79.26	MSG:79.26	$I41'$	$I41'$	tetragonal	C_4	C_4^5	9.2.30 ($41'$)	II
79.27	MSG:79.27	$I4'$	$I4'$	tetragonal	C_4	C_4^5	9.3.31 ($4'$)	III
79.28	MSG:79.28	I_c4	P_I4	tetragonal	C_4	C_4^5	9.2.30 ($41'$)	IV
80.29	MSG:80.29	$I4_1$	$I4_1$	tetragonal	C_4	C_4^6	9.1.29 (4)	I
80.30	MSG:80.30	$I4_11'$	$I4_11'$	tetragonal	C_4	C_4^6	9.2.30 ($41'$)	II
80.31	MSG:80.31	$I4_1'$	$I4_1'$	tetragonal	C_4	C_4^6	9.3.31 ($4'$)	III
80.32	MSG:80.32	I_c4_1	P_I4_2	tetragonal	C_4	C_4^6	9.2.30 ($41'$)	IV
81.33	MSG:81.33	$P\bar{4}$	$P\bar{4}$	tetragonal	S_4	S_4^1	10.1.32 ($\bar{4}$)	I
81.34	MSG:81.34	$P\bar{4}1'$	$P\bar{4}1'$	tetragonal	S_4	S_4^1	10.2.33 ($\bar{4}1'$)	II
81.35	MSG:81.35	$P\bar{4}'$	$P\bar{4}'$	tetragonal	S_4	S_4^1	10.3.34 ($\bar{4}'$)	III
81.36	MSG:81.36	$P_c\bar{4}$	$P_{2c}\bar{4}$	tetragonal	S_4	S_4^1	10.2.33 ($\bar{4}1'$)	IV
81.37	MSG:81.37	$P_C\bar{4}$	$P_P\bar{4}$	tetragonal	S_4	S_4^1	10.2.33 ($\bar{4}1'$)	IV
81.38	MSG:81.38	$P_I\bar{4}$	$I_P\bar{4}$	tetragonal	S_4	S_4^1	10.2.33 ($\bar{4}1'$)	IV
82.39	MSG:82.39	$I\bar{4}$	$I\bar{4}$	tetragonal	S_4	S_4^2	10.1.32 ($\bar{4}$)	I
82.40	MSG:82.40	$I\bar{4}1'$	$I\bar{4}1'$	tetragonal	S_4	S_4^2	10.2.33 ($\bar{4}1'$)	II
82.41	MSG:82.41	$I\bar{4}'$	$I\bar{4}'$	tetragonal	S_4	S_4^2	10.3.34 ($\bar{4}'$)	III
82.42	MSG:82.42	$I_c\bar{4}$	$P_I\bar{4}$	tetragonal	S_4	S_4^2	10.2.33 ($\bar{4}1'$)	IV
83.43	MSG:83.43	$P4/m$	$P4/m$	tetragonal	C_{4h}	C_{4h}^1	11.1.35 ($4/m$)	I
83.44	MSG:83.44	$P4/m1'$	$P4/m1'$	tetragonal	C_{4h}	C_{4h}^1	11.2.36 ($4/m1'$)	II
83.45	MSG:83.45	$P4'/m$	$P4'/m$	tetragonal	C_{4h}	C_{4h}^1	11.3.37 ($4'/m$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
83.46	MSG:83.46	$P4/m'$	$P4/m'$	tetragonal	C_{4h}	C_{4h}^{1}	11.4.38 $(4/m')$	III
83.47	MSG:83.47	$P4'/m'$	$P4'/m'$	tetragonal	C_{4h}	C_{4h}^{1}	11.5.39 $(4'/m')$	III
83.48	MSG:83.48	P_c4/m	$P_{2c}4/m$	tetragonal	C_{4h}	C_{4h}^{1}	11.2.36 $(4/m1')$	IV
83.49	MSG:83.49	P_C4/m	P_P4/m	tetragonal	C_{4h}	C_{4h}^{1}	11.2.36 $(4/m1')$	IV
83.50	MSG:83.50	P_I4/m	I_P4/m	tetragonal	C_{4h}	C_{4h}^{1}	11.2.36 $(4/m1')$	IV
84.51	MSG:84.51	$P4_2/m$	$P4_2/m$	tetragonal	C_{4h}	C_{4h}^{2}	11.1.35 $(4/m)$	I
84.52	MSG:84.52	$P4_2/m1'$	$P4_2/m1'$	tetragonal	C_{4h}	C_{4h}^{2}	11.2.36 $(4/m1')$	II
84.53	MSG:84.53	$P4_2'/m$	$P4_2'/m$	tetragonal	C_{4h}	C_{4h}^{2}	11.3.37 $(4'/m)$	III
84.54	MSG:84.54	$P4_2/m'$	$P4_2/m'$	tetragonal	C_{4h}	C_{4h}^{2}	11.4.38 $(4/m')$	III
84.55	MSG:84.55	$P4_2'/m'$	$P4_2'/m'$	tetragonal	C_{4h}	C_{4h}^{2}	11.5.39 $(4'/m')$	III
84.56	MSG:84.56	P_c4_2/m	$P_{2c}4'/m$	tetragonal	C_{4h}	C_{4h}^{2}	11.2.36 $(4/m1')$	IV
84.57	MSG:84.57	P_C4_2/m	P_P4_2/m	tetragonal	C_{4h}	C_{4h}^{2}	11.2.36 $(4/m1')$	IV
84.58	MSG:84.58	P_I4_2/m	I_P4'/m	tetragonal	C_{4h}	C_{4h}^{2}	11.2.36 $(4/m1')$	IV
85.59	MSG:85.59	$P4/n$	$P4/n$	tetragonal	C_{4h}	C_{4h}^{3}	11.1.35 $(4/m)$	I
85.60	MSG:85.60	$P4/n1'$	$P4/n1'$	tetragonal	C_{4h}	C_{4h}^{3}	11.2.36 $(4/m1')$	II
85.61	MSG:85.61	$P4'/n$	$P4'/n$	tetragonal	C_{4h}	C_{4h}^{3}	11.3.37 $(4'/m)$	III
85.62	MSG:85.62	$P4/n'$	$P4/n'$	tetragonal	C_{4h}	C_{4h}^{3}	11.4.38 $(4/m')$	III
85.63	MSG:85.63	$P4'/n'$	$P4'/n'$	tetragonal	C_{4h}	C_{4h}^{3}	11.5.39 $(4'/m')$	III
85.64	MSG:85.64	P_c4/n	$P_{2c}4/n$	tetragonal	C_{4h}	C_{4h}^{3}	11.2.36 $(4/m1')$	IV
85.65	MSG:85.65	P_C4/n	P_P4/m'	tetragonal	C_{4h}	C_{4h}^{3}	11.2.36 $(4/m1')$	IV
85.66	MSG:85.66	P_I4/n	I_P4/m'	tetragonal	C_{4h}	C_{4h}^{3}	11.2.36 $(4/m1')$	IV
86.67	MSG:86.67	$P4_2/n$	$P4_2/n$	tetragonal	C_{4h}	C_{4h}^{4}	11.1.35 $(4/m)$	I
86.68	MSG:86.68	$P4_2/n1'$	$P4_2/n1'$	tetragonal	C_{4h}	C_{4h}^{4}	11.2.36 $(4/m1')$	II
86.69	MSG:86.69	$P4_2'/n$	$P4_2'/n$	tetragonal	C_{4h}	C_{4h}^{4}	11.3.37 $(4'/m)$	III
86.70	MSG:86.70	$P4_2/n'$	$P4_2/n'$	tetragonal	C_{4h}	C_{4h}^{4}	11.4.38 $(4/m')$	III
86.71	MSG:86.71	$P4_2'/n'$	$P4_2'/n'$	tetragonal	C_{4h}	C_{4h}^{4}	11.5.39 $(4'/m')$	III
86.72	MSG:86.72	P_c4_2/n	$P_{2c}4'/n$	tetragonal	C_{4h}	C_{4h}^{4}	11.2.36 $(4/m1')$	IV
86.73	MSG:86.73	P_C4_2/n	P_P4_2/m'	tetragonal	C_{4h}	C_{4h}^{4}	11.2.36 $(4/m1')$	IV
86.74	MSG:86.74	P_I4_2/n	I_P4'/m'	tetragonal	C_{4h}	C_{4h}^{4}	11.2.36 $(4/m1')$	IV
87.75	MSG:87.75	$I4/m$	$I4/m$	tetragonal	C_{4h}	C_{4h}^{5}	11.1.35 $(4/m)$	I
87.76	MSG:87.76	$I4/m1'$	$I4/m1'$	tetragonal	C_{4h}	C_{4h}^{5}	11.2.36 $(4/m1')$	II
87.77	MSG:87.77	$I4'/m$	$I4'/m$	tetragonal	C_{4h}	C_{4h}^{5}	11.3.37 $(4'/m)$	III
87.78	MSG:87.78	$I4/m'$	$I4/m'$	tetragonal	C_{4h}	C_{4h}^{5}	11.4.38 $(4/m')$	III
87.79	MSG:87.79	$I4'/m'$	$I4'/m'$	tetragonal	C_{4h}	C_{4h}^{5}	11.5.39 $(4'/m')$	III
87.80	MSG:87.80	I_c4/m	P_I4/m	tetragonal	C_{4h}	C_{4h}^{5}	11.2.36 $(4/m1')$	IV
88.81	MSG:88.81	$I4_1/a$	$I4_1/a$	tetragonal	C_{4h}	C_{4h}^{6}	11.1.35 $(4/m)$	I
88.82	MSG:88.82	$I4_1/a1'$	$I4_1/a1'$	tetragonal	C_{4h}	C_{4h}^{6}	11.2.36 $(4/m1')$	II
88.83	MSG:88.83	$I4_1'/a$	$I4_1'/a$	tetragonal	C_{4h}	C_{4h}^{6}	11.3.37 $(4'/m)$	III
88.84	MSG:88.84	$I4_1/a'$	$I4_1/a'$	tetragonal	C_{4h}	C_{4h}^{6}	11.4.38 $(4/m')$	III
88.85	MSG:88.85	$I4_1'/a'$	$I4_1'/a'$	tetragonal	C_{4h}	C_{4h}^{6}	11.5.39 $(4'/m')$	III
88.86	MSG:88.86	I_c4_1/a	P_I4_2/n	tetragonal	C_{4h}	C_{4h}^{6}	11.2.36 $(4/m1')$	IV
89.87	MSG:89.87	$P422$	$P422$	tetragonal	D_4	D_4^{1}	12.1.40 (422)	I
89.88	MSG:89.88	$P4221'$	$P4221'$	tetragonal	D_4	D_4^{1}	12.2.41 $(4221')$	II
89.89	MSG:89.89	$P4'22'$	$P4'22'$	tetragonal	D_4	D_4^{1}	12.3.42 $(4'22')$	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
89.90	MSG:89.90	$P42'2'$	$P42'2'$	tetragonal	D_4	D_4^1	12.4.43 ($42'2'$)	III
89.91	MSG:89.91	$P4'2'2$	$P4'2'2$	tetragonal	D_4	D_4^1	12.5.129 ($4'22'$)	III
89.92	MSG:89.92	P_c422	$P_{2c}422$	tetragonal	D_4	D_4^1	12.2.41 ($4221'$)	IV
89.93	MSG:89.93	P_C422	P_P422	tetragonal	D_4	D_4^1	12.2.41 ($4221'$)	IV
89.94	MSG:89.94	P_I422	I_P422	tetragonal	D_4	D_4^1	12.2.41 ($4221'$)	IV
90.95	MSG:90.95	$P42_12$	$P42_12$	tetragonal	D_4	D_4^2	12.1.40 (422)	I
90.96	MSG:90.96	$P42_121'$	$P42_121'$	tetragonal	D_4	D_4^2	12.2.41 ($4221'$)	II
90.97	MSG:90.97	$P4'2_12'$	$P4'2_12'$	tetragonal	D_4	D_4^2	12.3.42 ($4'22'$)	III
90.98	MSG:90.98	$P42_1'2'$	$P42_1'2'$	tetragonal	D_4	D_4^2	12.4.43 ($42'2'$)	III
90.99	MSG:90.99	$P4'2_1'2$	$P4'2_1'2$	tetragonal	D_4	D_4^2	12.5.129 ($4'22'$)	III
90.100	MSG:90.100	P_c42_12	$P_{2c}42_12$	tetragonal	D_4	D_4^2	12.2.41 ($4221'$)	IV
90.101	MSG:90.101	P_C42_12	$P_P4'22'$	tetragonal	D_4	D_4^2	12.2.41 ($4221'$)	IV
90.102	MSG:90.102	P_I42_12	$I_P42'2'$	tetragonal	D_4	D_4^2	12.2.41 ($4221'$)	IV
91.103	MSG:91.103	$P4_122$	$P4_122$	tetragonal	D_4	D_4^3	12.1.40 (422)	I
91.104	MSG:91.104	$P4_1221'$	$P4_1221'$	tetragonal	D_4	D_4^3	12.2.41 ($4221'$)	II
91.105	MSG:91.105	$P4_1'22'$	$P4_1'22'$	tetragonal	D_4	D_4^3	12.3.42 ($4'22'$)	III
91.106	MSG:91.106	$P4_12'2'$	$P4_12'2'$	tetragonal	D_4	D_4^3	12.4.43 ($42'2'$)	III
91.107	MSG:91.107	$P4_1'2'2$	$P4_1'2'2$	tetragonal	D_4	D_4^3	12.5.129 ($4'22'$)	III
91.108	MSG:91.108	P_c4_122	$P_{2c}4_222$	tetragonal	D_4	D_4^3	12.2.41 ($4221'$)	IV
91.109	MSG:91.109	P_C4_122	P_P4_122	tetragonal	D_4	D_4^3	12.2.41 ($4221'$)	IV
91.110	MSG:91.110	P_I4_122	I_P4_122	tetragonal	D_4	D_4^3	12.2.41 ($4221'$)	IV
92.111	MSG:92.111	$P4_12_12$	$P4_12_12$	tetragonal	D_4	D_4^4	12.1.40 (422)	I
92.112	MSG:92.112	$P4_12_121'$	$P4_12_121'$	tetragonal	D_4	D_4^4	12.2.41 ($4221'$)	II
92.113	MSG:92.113	$P4_1'2_12'$	$P4_1'2_12'$	tetragonal	D_4	D_4^4	12.3.42 ($4'22'$)	III
92.114	MSG:92.114	$P4_12_1'2'$	$P4_12_1'2'$	tetragonal	D_4	D_4^4	12.4.43 ($42'2'$)	III
92.115	MSG:92.115	$P4_1'2_1'2$	$P4_1'2_1'2$	tetragonal	D_4	D_4^4	12.5.129 ($4'22'$)	III
92.116	MSG:92.116	$P_c4_12_12$	$P_{2c}4_22_12$	tetragonal	D_4	D_4^4	12.2.41 ($4221'$)	IV
92.117	MSG:92.117	$P_C4_12_12$	$P_P4_1'22'$	tetragonal	D_4	D_4^4	12.2.41 ($4221'$)	IV
92.118	MSG:92.118	$P_I4_12_12$	$I_P4_12'2'$	tetragonal	D_4	D_4^4	12.2.41 ($4221'$)	IV
93.119	MSG:93.119	$P4_222$	$P4_222$	tetragonal	D_4	D_4^5	12.1.40 (422)	I
93.120	MSG:93.120	$P4_2221'$	$P4_2221'$	tetragonal	D_4	D_4^5	12.2.41 ($4221'$)	II
93.121	MSG:93.121	$P4_2'22'$	$P4_2'22'$	tetragonal	D_4	D_4^5	12.3.42 ($4'22'$)	III
93.122	MSG:93.122	$P4_22'2'$	$P4_22'2'$	tetragonal	D_4	D_4^5	12.4.43 ($42'2'$)	III
93.123	MSG:93.123	$P4_2'2'2$	$P4_2'2'2$	tetragonal	D_4	D_4^5	12.5.129 ($4'22'$)	III
93.124	MSG:93.124	P_c4_222	$P_{2c}4'22'$	tetragonal	D_4	D_4^5	12.2.41 ($4221'$)	IV
93.125	MSG:93.125	P_C4_222	P_P4_222	tetragonal	D_4	D_4^5	12.2.41 ($4221'$)	IV
93.126	MSG:93.126	P_I4_222	$I_P4'22'$	tetragonal	D_4	D_4^5	12.2.41 ($4221'$)	IV
94.127	MSG:94.127	$P4_22_12$	$P4_22_12$	tetragonal	D_4	D_4^6	12.1.40 (422)	I
94.128	MSG:94.128	$P4_22_121'$	$P4_22_121'$	tetragonal	D_4	D_4^6	12.2.41 ($4221'$)	II
94.129	MSG:94.129	$P4_2'2_12'$	$P4_2'2_12'$	tetragonal	D_4	D_4^6	12.3.42 ($4'22'$)	III
94.130	MSG:94.130	$P4_22_1'2'$	$P4_22_1'2'$	tetragonal	D_4	D_4^6	12.4.43 ($42'2'$)	III
94.131	MSG:94.131	$P4_2'2_1'2$	$P4_2'2_1'2$	tetragonal	D_4	D_4^6	12.5.129 ($4'22'$)	III
94.132	MSG:94.132	$P_c4_22_12$	$P_{2c}4'2_1'2$	tetragonal	D_4	D_4^6	12.2.41 ($4221'$)	IV
94.133	MSG:94.133	$P_C4_22_12$	$P_P4_2'22'$	tetragonal	D_4	D_4^6	12.2.41 ($4221'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
94.134	MSG:94.134	$P_I4_22_12$	$I_P4'2'2$	tetragonal	D_4	D_4^6	12.2.41 ($4221'$)	IV
95.135	MSG:95.135	$P4_322$	$P4_322$	tetragonal	D_4	D_4^7	12.1.40 (422)	I
95.136	MSG:95.136	$P4_3221'$	$P4_3221'$	tetragonal	D_4	D_4^7	12.2.41 ($4221'$)	II
95.137	MSG:95.137	$P4_3'22'$	$P4_3'22'$	tetragonal	D_4	D_4^7	12.3.42 ($4'22'$)	III
95.138	MSG:95.138	$P4_32'2'$	$P4_32'2'$	tetragonal	D_4	D_4^7	12.4.43 ($42'2'$)	III
95.139	MSG:95.139	$P4_3'2'2$	$P4_3'2'2$	tetragonal	D_4	D_4^7	12.5.129 ($4'22'$)	III
95.140	MSG:95.140	P_c4_322	$P_{2c}4_2'22'$	tetragonal	D_4	D_4^7	12.2.41 ($4221'$)	IV
95.141	MSG:95.141	P_C4_322	P_P4_322	tetragonal	D_4	D_4^7	12.2.41 ($4221'$)	IV
95.142	MSG:95.142	P_I4_322	$I_P4_1'22'$	tetragonal	D_4	D_4^7	12.2.41 ($4221'$)	IV
96.143	MSG:96.143	$P4_32_12$	$P4_32_12$	tetragonal	D_4	D_4^8	12.1.40 (422)	I
96.144	MSG:96.144	$P4_32_121'$	$P4_32_121'$	tetragonal	D_4	D_4^8	12.2.41 ($4221'$)	II
96.145	MSG:96.145	$P4_3'2_12'$	$P4_3'2_12'$	tetragonal	D_4	D_4^8	12.3.42 ($4'22'$)	III
96.146	MSG:96.146	$P4_32_1'2'$	$P4_32_1'2'$	tetragonal	D_4	D_4^8	12.4.43 ($42'2'$)	III
96.147	MSG:96.147	$P4_3'2_1'2$	$P4_3'2_1'2$	tetragonal	D_4	D_4^8	12.5.129 ($4'22'$)	III
96.148	MSG:96.148	$P_c4_32_12$	$P_{2c}4_2'2_1'2$	tetragonal	D_4	D_4^8	12.2.41 ($4221'$)	IV
96.149	MSG:96.149	$P_C4_32_12$	$P_P4_3'22'$	tetragonal	D_4	D_4^8	12.2.41 ($4221'$)	IV
96.150	MSG:96.150	$P_I4_32_12$	$I_P4_1'2'2$	tetragonal	D_4	D_4^8	12.2.41 ($4221'$)	IV
97.151	MSG:97.151	$I422$	$I422$	tetragonal	D_4	D_4^9	12.1.40 (422)	I
97.152	MSG:97.152	$I4221'$	$I4221'$	tetragonal	D_4	D_4^9	12.2.41 ($4221'$)	II
97.153	MSG:97.153	$I4'22'$	$I4'22'$	tetragonal	D_4	D_4^9	12.3.42 ($4'22'$)	III
97.154	MSG:97.154	$I42'2'$	$I42'2'$	tetragonal	D_4	D_4^9	12.4.43 ($42'2'$)	III
97.155	MSG:97.155	$I4'2'2$	$I4'2'2$	tetragonal	D_4	D_4^9	12.5.129 ($4'22'$)	III
97.156	MSG:97.156	I_c422	P_I422	tetragonal	D_4	D_4^9	12.2.41 ($4221'$)	IV
98.157	MSG:98.157	$I4_122$	$I4_122$	tetragonal	D_4	D_4^{10}	12.1.40 (422)	I
98.158	MSG:98.158	$I4_1221'$	$I4_1221'$	tetragonal	D_4	D_4^{10}	12.2.41 ($4221'$)	II
98.159	MSG:98.159	$I4_1'22'$	$I4_1'22'$	tetragonal	D_4	D_4^{10}	12.3.42 ($4'22'$)	III
98.160	MSG:98.160	$I4_12'2'$	$I4_12'2'$	tetragonal	D_4	D_4^{10}	12.4.43 ($42'2'$)	III
98.161	MSG:98.161	$I4_1'2'2$	$I4_1'2'2$	tetragonal	D_4	D_4^{10}	12.5.129 ($4'22'$)	III
98.162	MSG:98.162	I_c4_122	P_I4_222	tetragonal	D_4	D_4^{10}	12.2.41 ($4221'$)	IV
99.163	MSG:99.163	$P4mm$	$P4mm$	tetragonal	C_{4v}	C_{4v}^1	13.1.44 ($4mm$)	I
99.164	MSG:99.164	$P4mm1'$	$P4mm1'$	tetragonal	C_{4v}	C_{4v}^1	13.2.45 ($4mm1'$)	II
99.165	MSG:99.165	$P4'm'm$	$P4'm'm$	tetragonal	C_{4v}	C_{4v}^1	13.3.46 ($4'm'm$)	III
99.166	MSG:99.166	$P4'mm'$	$P4'mm'$	tetragonal	C_{4v}	C_{4v}^1	13.5.130 ($4'm'm$)	III
99.167	MSG:99.167	$P4m'm'$	$P4m'm'$	tetragonal	C_{4v}	C_{4v}^1	13.4.47 ($4m'm'$)	III
99.168	MSG:99.168	P_c4mm	$P_{2c}4mm$	tetragonal	C_{4v}	C_{4v}^1	13.2.45 ($4mm1'$)	IV
99.169	MSG:99.169	P_C4mm	P_P4mm	tetragonal	C_{4v}	C_{4v}^1	13.2.45 ($4mm1'$)	IV
99.170	MSG:99.170	P_I4mm	I_P4mm	tetragonal	C_{4v}	C_{4v}^1	13.2.45 ($4mm1'$)	IV
100.171	MSG:100.171	$P4bm$	$P4bm$	tetragonal	C_{4v}	C_{4v}^2	13.1.44 ($4mm$)	I
100.172	MSG:100.172	$P4bm1'$	$P4bm1'$	tetragonal	C_{4v}	C_{4v}^2	13.2.45 ($4mm1'$)	II
100.173	MSG:100.173	$P4'b'm$	$P4'b'm$	tetragonal	C_{4v}	C_{4v}^2	13.3.46 ($4'm'm$)	III
100.174	MSG:100.174	$P4'bm'$	$P4'bm'$	tetragonal	C_{4v}	C_{4v}^2	13.5.130 ($4'm'm$)	III
100.175	MSG:100.175	$P4b'm'$	$P4b'm'$	tetragonal	C_{4v}	C_{4v}^2	13.4.47 ($4m'm'$)	III
100.176	MSG:100.176	P_c4bm	$P_{2c}4bm$	tetragonal	C_{4v}	C_{4v}^2	13.2.45 ($4mm1'$)	IV
100.177	MSG:100.177	P_C4bm	$P_P4'mm'$	tetragonal	C_{4v}	C_{4v}^2	13.2.45 ($4mm1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
100.178	MSG:100.178	P_I4bm	I_P4cm	tetragonal	C_{4v}	C_{4v}^2	13.2.45 ($4mm1'$)	IV
101.179	MSG:101.179	$P4_2cm$	$P4_2cm$	tetragonal	C_{4v}	C_{4v}^3	13.1.44 ($4mm$)	I
101.180	MSG:101.180	$P4_2cm1'$	$P4_2cm1'$	tetragonal	C_{4v}	C_{4v}^3	13.2.45 ($4mm1'$)	II
101.181	MSG:101.181	$P4_2'c'm$	$P4_2'c'm$	tetragonal	C_{4v}	C_{4v}^3	13.3.46 ($4'm'm$)	III
101.182	MSG:101.182	$P4_2'cm'$	$P4_2'cm'$	tetragonal	C_{4v}	C_{4v}^3	13.5.130 ($4'm'm$)	III
101.183	MSG:101.183	$P4_2c'm'$	$P4_2c'm'$	tetragonal	C_{4v}	C_{4v}^3	13.4.47 ($4m'm'$)	III
101.184	MSG:101.184	P_c4_2cm	$P_{2c}4'm'm$	tetragonal	C_{4v}	C_{4v}^3	13.2.45 ($4mm1'$)	IV
101.185	MSG:101.185	P_C4_2cm	P_P4_2mc	tetragonal	C_{4v}	C_{4v}^3	13.2.45 ($4mm1'$)	IV
101.186	MSG:101.186	P_I4_2cm	$I_P4'c'm$	tetragonal	C_{4v}	C_{4v}^3	13.2.45 ($4mm1'$)	IV
102.187	MSG:102.187	$P4_2nm$	$P4_2nm$	tetragonal	C_{4v}	C_{4v}^4	13.1.44 ($4mm$)	I
102.188	MSG:102.188	$P4_2nm1'$	$P4_2nm1'$	tetragonal	C_{4v}	C_{4v}^4	13.2.45 ($4mm1'$)	II
102.189	MSG:102.189	$P4_2'n'm$	$P4_2'n'm$	tetragonal	C_{4v}	C_{4v}^4	13.3.46 ($4'm'm$)	III
102.190	MSG:102.190	$P4_2'nm'$	$P4_2'nm'$	tetragonal	C_{4v}	C_{4v}^4	13.5.130 ($4'm'm$)	III
102.191	MSG:102.191	$P4_2n'm'$	$P4_2n'm'$	tetragonal	C_{4v}	C_{4v}^4	13.4.47 ($4m'm'$)	III
102.192	MSG:102.192	P_c4_2nm	$P_{2c}4'b'm$	tetragonal	C_{4v}	C_{4v}^4	13.2.45 ($4mm1'$)	IV
102.193	MSG:102.193	P_C4_2nm	$P_P4_2'mc'$	tetragonal	C_{4v}	C_{4v}^4	13.2.45 ($4mm1'$)	IV
102.194	MSG:102.194	P_I4_2nm	$I_P4'm'm$	tetragonal	C_{4v}	C_{4v}^4	13.2.45 ($4mm1'$)	IV
103.195	MSG:103.195	$P4cc$	$P4cc$	tetragonal	C_{4v}	C_{4v}^5	13.1.44 ($4mm$)	I
103.196	MSG:103.196	$P4cc1'$	$P4cc1'$	tetragonal	C_{4v}	C_{4v}^5	13.2.45 ($4mm1'$)	II
103.197	MSG:103.197	$P4'c'c$	$P4'c'c$	tetragonal	C_{4v}	C_{4v}^5	13.3.46 ($4'm'm$)	III
103.198	MSG:103.198	$P4'cc'$	$P4'cc'$	tetragonal	C_{4v}	C_{4v}^5	13.5.130 ($4'm'm$)	III
103.199	MSG:103.199	$P4c'c'$	$P4c'c'$	tetragonal	C_{4v}	C_{4v}^5	13.4.47 ($4m'm'$)	III
103.200	MSG:103.200	P_c4cc	$P_{2c}4m'm'$	tetragonal	C_{4v}	C_{4v}^5	13.2.45 ($4mm1'$)	IV
103.201	MSG:103.201	P_C4cc	P_P4cc	tetragonal	C_{4v}	C_{4v}^5	13.2.45 ($4mm1'$)	IV
103.202	MSG:103.202	P_I4cc	$I_P4c'm'$	tetragonal	C_{4v}	C_{4v}^5	13.2.45 ($4mm1'$)	IV
104.203	MSG:104.203	$P4nc$	$P4nc$	tetragonal	C_{4v}	C_{4v}^6	13.1.44 ($4mm$)	I
104.204	MSG:104.204	$P4nc1'$	$P4nc1'$	tetragonal	C_{4v}	C_{4v}^6	13.2.45 ($4mm1'$)	II
104.205	MSG:104.205	$P4'n'c$	$P4'n'c$	tetragonal	C_{4v}	C_{4v}^6	13.3.46 ($4'm'm$)	III
104.206	MSG:104.206	$P4'nc'$	$P4'nc'$	tetragonal	C_{4v}	C_{4v}^6	13.5.130 ($4'm'm$)	III
104.207	MSG:104.207	$P4n'c'$	$P4n'c'$	tetragonal	C_{4v}	C_{4v}^6	13.4.47 ($4m'm'$)	III
104.208	MSG:104.208	P_c4nc	$P_{2c}4b'm'$	tetragonal	C_{4v}	C_{4v}^6	13.2.45 ($4mm1'$)	IV
104.209	MSG:104.209	P_C4nc	$P_P4'cc'$	tetragonal	C_{4v}	C_{4v}^6	13.2.45 ($4mm1'$)	IV
104.210	MSG:104.210	P_I4nc	$I_P4m'm'$	tetragonal	C_{4v}	C_{4v}^6	13.2.45 ($4mm1'$)	IV
105.211	MSG:105.211	$P4_2mc$	$P4_2mc$	tetragonal	C_{4v}	C_{4v}^7	13.1.44 ($4mm$)	I
105.212	MSG:105.212	$P4_2mc1'$	$P4_2mc1'$	tetragonal	C_{4v}	C_{4v}^7	13.2.45 ($4mm1'$)	II
105.213	MSG:105.213	$P4_2'm'c$	$P4_2'm'c$	tetragonal	C_{4v}	C_{4v}^7	13.3.46 ($4'm'm$)	III
105.214	MSG:105.214	$P4_2'mc'$	$P4_2'mc'$	tetragonal	C_{4v}	C_{4v}^7	13.5.130 ($4'm'm$)	III
105.215	MSG:105.215	$P4_2m'c'$	$P4_2m'c'$	tetragonal	C_{4v}	C_{4v}^7	13.4.47 ($4m'm'$)	III
105.216	MSG:105.216	P_c4_2mc	$P_{2c}4'mm'$	tetragonal	C_{4v}	C_{4v}^7	13.2.45 ($4mm1'$)	IV
105.217	MSG:105.217	P_C4_2mc	P_P4_2cm	tetragonal	C_{4v}	C_{4v}^7	13.2.45 ($4mm1'$)	IV
105.218	MSG:105.218	P_I4_2mc	$I_P4'mm'$	tetragonal	C_{4v}	C_{4v}^7	13.2.45 ($4mm1'$)	IV
106.219	MSG:106.219	$P4_2bc$	$P4_2bc$	tetragonal	C_{4v}	C_{4v}^8	13.1.44 ($4mm$)	I
106.220	MSG:106.220	$P4_2bc1'$	$P4_2bc1'$	tetragonal	C_{4v}	C_{4v}^8	13.2.45 ($4mm1'$)	II
106.221	MSG:106.221	$P4_2'b'c$	$P4_2'b'c$	tetragonal	C_{4v}	C_{4v}^8	13.3.46 ($4'm'm$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
106.222	MSG:106.222	$P4'_2bc'$	$P4'_2bc'$	tetragonal	C_{4v}	C_{4v}^8	13.5.130 $(4'm'm)$	III
106.223	MSG:106.223	$P4_2b'c'$	$P4_2b'c'$	tetragonal	C_{4v}	C_{4v}^8	13.4.47 $(4m'm')$	III
106.224	MSG:106.224	P_c4_2bc	$P_{2c}4'bm'$	tetragonal	C_{4v}	C_{4v}^8	13.2.45 $(4mm1')$	IV
106.225	MSG:106.225	P_C4_2bc	$P_P4'_2cm'$	tetragonal	C_{4v}	C_{4v}^8	13.2.45 $(4mm1')$	IV
106.226	MSG:106.226	P_I4_2bc	$I_P4'cm'$	tetragonal	C_{4v}	C_{4v}^8	13.2.45 $(4mm1')$	IV
107.227	MSG:107.227	$I4mm$	$I4mm$	tetragonal	C_{4v}	C_{4v}^9	13.1.44 $(4mm)$	I
107.228	MSG:107.228	$I4mm1'$	$I4mm1'$	tetragonal	C_{4v}	C_{4v}^9	13.2.45 $(4mm1')$	II
107.229	MSG:107.229	$I4'm'm$	$I4'm'm$	tetragonal	C_{4v}	C_{4v}^9	13.3.46 $(4'm'm)$	III
107.230	MSG:107.230	$I4'mm'$	$I4'mm'$	tetragonal	C_{4v}	C_{4v}^9	13.5.130 $(4'm'm)$	III
107.231	MSG:107.231	$I4m'm'$	$I4m'm'$	tetragonal	C_{4v}	C_{4v}^9	13.4.47 $(4m'm')$	III
107.232	MSG:107.232	I_c4mm	P_I4mm	tetragonal	C_{4v}	C_{4v}^9	13.2.45 $(4mm1')$	IV
108.233	MSG:108.233	$I4cm$	$I4cm$	tetragonal	C_{4v}	C_{4v}^{10}	13.1.44 $(4mm)$	I
108.234	MSG:108.234	$I4cm1'$	$I4cm1'$	tetragonal	C_{4v}	C_{4v}^{10}	13.2.45 $(4mm1')$	II
108.235	MSG:108.235	$I4'c'm$	$I4'c'm$	tetragonal	C_{4v}	C_{4v}^{10}	13.3.46 $(4'm'm)$	III
108.236	MSG:108.236	$I4'cm'$	$I4'cm'$	tetragonal	C_{4v}	C_{4v}^{10}	13.5.130 $(4'm'm)$	III
108.237	MSG:108.237	$I4c'm'$	$I4c'm'$	tetragonal	C_{4v}	C_{4v}^{10}	13.4.47 $(4m'm')$	III
108.238	MSG:108.238	I_c4cm	$P_I4m'm'$	tetragonal	C_{4v}	C_{4v}^{10}	13.2.45 $(4mm1')$	IV
109.239	MSG:109.239	$I4_1md$	$I4_1md$	tetragonal	C_{4v}	C_{4v}^{11}	13.1.44 $(4mm)$	I
109.240	MSG:109.240	$I4_1md1'$	$I4_1md1'$	tetragonal	C_{4v}	C_{4v}^{11}	13.2.45 $(4mm1')$	II
109.241	MSG:109.241	$I4'_1m'd$	$I4'_1m'd$	tetragonal	C_{4v}	C_{4v}^{11}	13.3.46 $(4'm'm)$	III
109.242	MSG:109.242	$I4'_1md'$	$I4'_1md'$	tetragonal	C_{4v}	C_{4v}^{11}	13.5.130 $(4'm'm)$	III
109.243	MSG:109.243	$I4_1m'd'$	$I4_1m'd'$	tetragonal	C_{4v}	C_{4v}^{11}	13.4.47 $(4m'm')$	III
109.244	MSG:109.244	I_c4_1md	P_I4_2nm	tetragonal	C_{4v}	C_{4v}^{11}	13.2.45 $(4mm1')$	IV
110.245	MSG:110.245	$I4_1cd$	$I4_1cd$	tetragonal	C_{4v}	C_{4v}^{12}	13.1.44 $(4mm)$	I
110.246	MSG:110.246	$I4_1cd1'$	$I4_1cd1'$	tetragonal	C_{4v}	C_{4v}^{12}	13.2.45 $(4mm1')$	II
110.247	MSG:110.247	$I4'_1c'd$	$I4'_1c'd$	tetragonal	C_{4v}	C_{4v}^{12}	13.3.46 $(4'm'm)$	III
110.248	MSG:110.248	$I4'_1cd'$	$I4'_1cd'$	tetragonal	C_{4v}	C_{4v}^{12}	13.5.130 $(4'm'm)$	III
110.249	MSG:110.249	$I4_1c'd'$	$I4_1c'd'$	tetragonal	C_{4v}	C_{4v}^{12}	13.4.47 $(4m'm')$	III
110.250	MSG:110.250	I_c4_1cd	$P_I4_2n'm'$	tetragonal	C_{4v}	C_{4v}^{12}	13.2.45 $(4mm1')$	IV
111.251	MSG:111.251	$P\bar{4}2m$	$P\bar{4}2m$	tetragonal	D_{2d}	D_{2d}^1	14.1.48 $(\bar{4}2m)$	I
111.252	MSG:111.252	$P\bar{4}2m1'$	$P\bar{4}2m1'$	tetragonal	D_{2d}	D_{2d}^1	14.2.49 $(\bar{4}2m1')$	II
111.253	MSG:111.253	$P\bar{4}'2'm$	$P\bar{4}'2'm$	tetragonal	D_{2d}	D_{2d}^1	14.3.50 $(\bar{4}'2'm)$	III
111.254	MSG:111.254	$P\bar{4}'2m'$	$P\bar{4}'2m'$	tetragonal	D_{2d}	D_{2d}^1	14.4.51 $(\bar{4}'2m')$	III
111.255	MSG:111.255	$P\bar{4}2'm'$	$P\bar{4}2'm'$	tetragonal	D_{2d}	D_{2d}^1	14.5.52 $(\bar{4}2'm')$	III
111.256	MSG:111.256	$P_c\bar{4}2m$	$P_{2c}\bar{4}2m$	tetragonal	D_{2d}	D_{2d}^1	14.2.49 $(\bar{4}2m1')$	IV
111.257	MSG:111.257	$P_C\bar{4}2m$	$P_P\bar{4}m2$	tetragonal	D_{2d}	D_{2d}^1	14.2.49 $(\bar{4}2m1')$	IV
111.258	MSG:111.258	$P_I\bar{4}2m$	$I_P\bar{4}2m$	tetragonal	D_{2d}	D_{2d}^1	14.2.49 $(\bar{4}2m1')$	IV
112.259	MSG:112.259	$P\bar{4}2c$	$P\bar{4}2c$	tetragonal	D_{2d}	D_{2d}^2	14.1.48 $(\bar{4}2m)$	I
112.260	MSG:112.260	$P\bar{4}2c1'$	$P\bar{4}2c1'$	tetragonal	D_{2d}	D_{2d}^2	14.2.49 $(\bar{4}2m1')$	II
112.261	MSG:112.261	$P\bar{4}'2'c$	$P\bar{4}'2'c$	tetragonal	D_{2d}	D_{2d}^2	14.3.50 $(\bar{4}'2'm)$	III
112.262	MSG:112.262	$P\bar{4}'2c'$	$P\bar{4}'2c'$	tetragonal	D_{2d}	D_{2d}^2	14.4.51 $(\bar{4}'2m')$	III
112.263	MSG:112.263	$P\bar{4}2'c'$	$P\bar{4}2'c'$	tetragonal	D_{2d}	D_{2d}^2	14.5.52 $(\bar{4}2'm')$	III
112.264	MSG:112.264	$P_c\bar{4}2c$	$P_{2c}\bar{4}2'm'$	tetragonal	D_{2d}	D_{2d}^2	14.2.49 $(\bar{4}2m1')$	IV
112.265	MSG:112.265	$P_C\bar{4}2c$	$P_P\bar{4}c2$	tetragonal	D_{2d}	D_{2d}^2	14.2.49 $(\bar{4}2m1')$	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
112.266	MSG:112.266	$P_I\bar{4}2c$	$I_P\bar{4}'2m'$	tetragonal	D_{2d}	D_{2d}^2	14.2.49 ($\bar{4}2m1'$)	IV
113.267	MSG:113.267	$P\bar{4}2_1m$	$P\bar{4}2_1m$	tetragonal	D_{2d}	D_{2d}^3	14.1.48 ($\bar{4}2m$)	I
113.268	MSG:113.268	$P\bar{4}2_1m1'$	$P\bar{4}2_1m1'$	tetragonal	D_{2d}	D_{2d}^3	14.2.49 ($\bar{4}2m1'$)	II
113.269	MSG:113.269	$P\bar{4}'2_1'm$	$P\bar{4}'2_1'm$	tetragonal	D_{2d}	D_{2d}^3	14.3.50 ($\bar{4}'2'm$)	III
113.270	MSG:113.270	$P\bar{4}'2_1m'$	$P\bar{4}'2_1m'$	tetragonal	D_{2d}	D_{2d}^3	14.4.51 ($\bar{4}'2m'$)	III
113.271	MSG:113.271	$P\bar{4}2_1'm'$	$P\bar{4}2_1'm'$	tetragonal	D_{2d}	D_{2d}^3	14.5.52 ($\bar{4}2'm'$)	III
113.272	MSG:113.272	$P_c\bar{4}2_1m$	$P_{2c}\bar{4}2_1m$	tetragonal	D_{2d}	D_{2d}^3	14.2.49 ($\bar{4}2m1'$)	IV
113.273	MSG:113.273	$P_C\bar{4}2_1m$	$P_P\bar{4}'m2'$	tetragonal	D_{2d}	D_{2d}^3	14.2.49 ($\bar{4}2m1'$)	IV
113.274	MSG:113.274	$P_I\bar{4}2_1m$	$I_P\bar{4}'2'm$	tetragonal	D_{2d}	D_{2d}^3	14.2.49 ($\bar{4}2m1'$)	IV
114.275	MSG:114.275	$P\bar{4}2_1c$	$P\bar{4}2_1c$	tetragonal	D_{2d}	D_{2d}^4	14.1.48 ($\bar{4}2m$)	I
114.276	MSG:114.276	$P\bar{4}2_1c1'$	$P\bar{4}2_1c1'$	tetragonal	D_{2d}	D_{2d}^4	14.2.49 ($\bar{4}2m1'$)	II
114.277	MSG:114.277	$P\bar{4}'2_1'c$	$P\bar{4}'2_1'c$	tetragonal	D_{2d}	D_{2d}^4	14.3.50 ($\bar{4}'2'm$)	III
114.278	MSG:114.278	$P\bar{4}'2_1c'$	$P\bar{4}'2_1c'$	tetragonal	D_{2d}	D_{2d}^4	14.4.51 ($\bar{4}'2m'$)	III
114.279	MSG:114.279	$P\bar{4}2_1'c'$	$P\bar{4}2_1'c'$	tetragonal	D_{2d}	D_{2d}^4	14.5.52 ($\bar{4}2'm'$)	III
114.280	MSG:114.280	$P_c\bar{4}2_1c$	$P_{2c}\bar{4}'2_1m'$	tetragonal	D_{2d}	D_{2d}^4	14.2.49 ($\bar{4}2m1'$)	IV
114.281	MSG:114.281	$P_C\bar{4}2_1c$	$P_P\bar{4}'c2'$	tetragonal	D_{2d}	D_{2d}^4	14.2.49 ($\bar{4}2m1'$)	IV
114.282	MSG:114.282	$P_I\bar{4}2_1c$	$I_P\bar{4}2'm'$	tetragonal	D_{2d}	D_{2d}^4	14.2.49 ($\bar{4}2m1'$)	IV
115.283	MSG:115.283	$P\bar{4}m2$	$P\bar{4}m2$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.1.131 ($\bar{4}2m$)	I
115.284	MSG:115.284	$P\bar{4}m21'$	$P\bar{4}m21'$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.2.132 ($\bar{4}2m1'$)	II
115.285	MSG:115.285	$P\bar{4}'m'2$	$P\bar{4}'m'2$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.4.134 ($\bar{4}'2m'$)	III
115.286	MSG:115.286	$P\bar{4}'m2'$	$P\bar{4}'m2'$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.3.133 ($\bar{4}'2'm$)	III
115.287	MSG:115.287	$P\bar{4}m'2'$	$P\bar{4}m'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.5.135 ($\bar{4}2'm'$)	III
115.288	MSG:115.288	$P_c\bar{4}m2$	$P_{2c}\bar{4}m2$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.2.132 ($\bar{4}2m1'$)	IV
115.289	MSG:115.289	$P_C\bar{4}m2$	$P_P\bar{4}2m$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.2.132 ($\bar{4}2m1'$)	IV
115.290	MSG:115.290	$P_I\bar{4}m2$	$I_P\bar{4}m2$	tetragonal	$D_{2d}(1)$	D_{2d}^5	33.2.132 ($\bar{4}2m1'$)	IV
116.291	MSG:116.291	$P\bar{4}c2$	$P\bar{4}c2$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.1.131 ($\bar{4}2m$)	I
116.292	MSG:116.292	$P\bar{4}c21'$	$P\bar{4}c21'$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.2.132 ($\bar{4}2m1'$)	II
116.293	MSG:116.293	$P\bar{4}'c'2$	$P\bar{4}'c'2$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.4.134 ($\bar{4}'2m'$)	III
116.294	MSG:116.294	$P\bar{4}'c2'$	$P\bar{4}'c2'$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.3.133 ($\bar{4}'2'm$)	III
116.295	MSG:116.295	$P\bar{4}c'2'$	$P\bar{4}c'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.5.135 ($\bar{4}2'm'$)	III
116.296	MSG:116.296	$P_c\bar{4}c2$	$P_{2c}\bar{4}'m'2$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.2.132 ($\bar{4}2m1'$)	IV
116.297	MSG:116.297	$P_C\bar{4}c2$	$P_P\bar{4}2c$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.2.132 ($\bar{4}2m1'$)	IV
116.298	MSG:116.298	$P_I\bar{4}c2$	$I_P\bar{4}c2$	tetragonal	$D_{2d}(1)$	D_{2d}^6	33.2.132 ($\bar{4}2m1'$)	IV
117.299	MSG:117.299	$P\bar{4}b2$	$P\bar{4}b2$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.1.131 ($\bar{4}2m$)	I
117.300	MSG:117.300	$P\bar{4}b21'$	$P\bar{4}b21'$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.2.132 ($\bar{4}2m1'$)	II
117.301	MSG:117.301	$P\bar{4}'b'2$	$P\bar{4}'b'2$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.4.134 ($\bar{4}'2m'$)	III
117.302	MSG:117.302	$P\bar{4}'b2'$	$P\bar{4}'b2'$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.3.133 ($\bar{4}'2'm$)	III
117.303	MSG:117.303	$P\bar{4}b'2'$	$P\bar{4}b'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.5.135 ($\bar{4}2'm'$)	III
117.304	MSG:117.304	$P_c\bar{4}b2$	$P_{2c}\bar{4}b2$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.2.132 ($\bar{4}2m1'$)	IV
117.305	MSG:117.305	$P_C\bar{4}b2$	$P_P\bar{4}'2m'$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.2.132 ($\bar{4}2m1'$)	IV
117.306	MSG:117.306	$P_I\bar{4}b2$	$I_P\bar{4}c'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^7	33.2.132 ($\bar{4}2m1'$)	IV
118.307	MSG:118.307	$P\bar{4}n2$	$P\bar{4}n2$	tetragonal	$D_{2d}(1)$	D_{2d}^8	33.1.131 ($\bar{4}2m$)	I
118.308	MSG:118.308	$P\bar{4}n21'$	$P\bar{4}n21'$	tetragonal	$D_{2d}(1)$	D_{2d}^8	33.2.132 ($\bar{4}2m1'$)	II
118.309	MSG:118.309	$P\bar{4}'n'2$	$P\bar{4}'n'2$	tetragonal	$D_{2d}(1)$	D_{2d}^8	33.4.134 ($\bar{4}'2m'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
118.310	MSG:118.310	$P\bar{4}'n2'$	$P\bar{4}'n2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{8}	33.3.133 ($\bar{4}'2'm$)	III
118.311	MSG:118.311	$P\bar{4}n'2'$	$P\bar{4}n'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{8}	33.5.135 ($\bar{4}2'm'$)	III
118.312	MSG:118.312	$P_c\bar{4}n2$	$P_{2c}\bar{4}'b'2$	tetragonal	$D_{2d}(1)$	D_{2d}^{8}	33.2.132 ($\bar{4}2m1'$)	IV
118.313	MSG:118.313	$P_C\bar{4}n2$	$P_P\bar{4}'2c'$	tetragonal	$D_{2d}(1)$	D_{2d}^{8}	33.2.132 ($\bar{4}2m1'$)	IV
118.314	MSG:118.314	$P_I\bar{4}n2$	$I_P\bar{4}'m'2$	tetragonal	$D_{2d}(1)$	D_{2d}^{8}	33.2.132 ($\bar{4}2m1'$)	IV
119.315	MSG:119.315	$I\bar{4}m2$	$I\bar{4}m2$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.1.131 ($\bar{4}2m$)	I
119.316	MSG:119.316	$I\bar{4}m21'$	$I\bar{4}m21'$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.2.132 ($\bar{4}2m1'$)	II
119.317	MSG:119.317	$I\bar{4}'m'2$	$I\bar{4}'m'2$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.4.134 ($\bar{4}'2m'$)	III
119.318	MSG:119.318	$I\bar{4}'m2'$	$I\bar{4}'m2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.3.133 ($\bar{4}'2'm$)	III
119.319	MSG:119.319	$I\bar{4}m'2'$	$I\bar{4}m'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.5.135 ($\bar{4}2'm'$)	III
119.320	MSG:119.320	$I_c\bar{4}m2$	$P_I\bar{4}2m$	tetragonal	$D_{2d}(1)$	D_{2d}^{9}	33.2.132 ($\bar{4}2m1'$)	IV
120.321	MSG:120.321	$I\bar{4}c2$	$I\bar{4}c2$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.1.131 ($\bar{4}2m$)	I
120.322	MSG:120.322	$I\bar{4}c21'$	$I\bar{4}c21'$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.2.132 ($\bar{4}2m1'$)	II
120.323	MSG:120.323	$I\bar{4}'c'2$	$I\bar{4}'c'2$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.4.134 ($\bar{4}'2m'$)	III
120.324	MSG:120.324	$I\bar{4}'c2'$	$I\bar{4}'c2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.3.133 ($\bar{4}'2'm$)	III
120.325	MSG:120.325	$I\bar{4}c'2'$	$I\bar{4}c'2'$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.5.135 ($\bar{4}2'm'$)	III
120.326	MSG:120.326	$I_c\bar{4}c2$	$P_I\bar{4}'2m'$	tetragonal	$D_{2d}(1)$	D_{2d}^{10}	33.2.132 ($\bar{4}2m1'$)	IV
121.327	MSG:121.327	$I\bar{4}2m$	$I\bar{4}2m$	tetragonal	D_{2d}	D_{2d}^{11}	14.1.48 ($\bar{4}2m$)	I
121.328	MSG:121.328	$I\bar{4}2m1'$	$I\bar{4}2m1'$	tetragonal	D_{2d}	D_{2d}^{11}	14.2.49 ($\bar{4}2m1'$)	II
121.329	MSG:121.329	$I\bar{4}'2'm$	$I\bar{4}'2'm$	tetragonal	D_{2d}	D_{2d}^{11}	14.3.50 ($\bar{4}'2'm$)	III
121.330	MSG:121.330	$I\bar{4}'2m'$	$I\bar{4}'2m'$	tetragonal	D_{2d}	D_{2d}^{11}	14.4.51 ($\bar{4}'2m'$)	III
121.331	MSG:121.331	$I\bar{4}2'm'$	$I\bar{4}2'm'$	tetragonal	D_{2d}	D_{2d}^{11}	14.5.52 ($\bar{4}2'm'$)	III
121.332	MSG:121.332	$I_c\bar{4}2m$	$P_I\bar{4}m2$	tetragonal	D_{2d}	D_{2d}^{11}	14.2.49 ($\bar{4}2m1'$)	IV
122.333	MSG:122.333	$I\bar{4}2d$	$I\bar{4}2d$	tetragonal	D_{2d}	D_{2d}^{12}	14.1.48 ($\bar{4}2m$)	I
122.334	MSG:122.334	$I\bar{4}2d1'$	$I\bar{4}2d1'$	tetragonal	D_{2d}	D_{2d}^{12}	14.2.49 ($\bar{4}2m1'$)	II
122.335	MSG:122.335	$I\bar{4}'2'd$	$I\bar{4}'2'd$	tetragonal	D_{2d}	D_{2d}^{12}	14.3.50 ($\bar{4}'2'm$)	III
122.336	MSG:122.336	$I\bar{4}'2d'$	$I\bar{4}'2d'$	tetragonal	D_{2d}	D_{2d}^{12}	14.4.51 ($\bar{4}'2m'$)	III
122.337	MSG:122.337	$I\bar{4}2'd'$	$I\bar{4}2'd'$	tetragonal	D_{2d}	D_{2d}^{12}	14.5.52 ($\bar{4}2'm'$)	III
122.338	MSG:122.338	$I_c\bar{4}2d$	$P_I\bar{4}n2$	tetragonal	D_{2d}	D_{2d}^{12}	14.2.49 ($\bar{4}2m1'$)	IV
123.339	MSG:123.339	$P4/mmm$	$P4/mmm$	tetragonal	D_{4h}	D_{4h}^{1}	15.1.53 ($4/mmm$)	I
123.340	MSG:123.340	$P4/mmm1'$	$P4/mmm1'$	tetragonal	D_{4h}	D_{4h}^{1}	15.2.54 ($4/mmm1'$)	II
123.341	MSG:123.341	$P4/m'mm$	$P4/m'mm$	tetragonal	D_{4h}	D_{4h}^{1}	15.3.55 ($4/m'mm$)	III
123.342	MSG:123.342	$P4'/mm'm$	$P4'/mm'm$	tetragonal	D_{4h}	D_{4h}^{1}	15.4.56 ($4'/mm'm$)	III
123.343	MSG:123.343	$P4'/mmm'$	$P4'/mmm'$	tetragonal	D_{4h}	D_{4h}^{1}	15.8.136 ($4'/mm'm$)	III
123.344	MSG:123.344	$P4'/m'm'm$	$P4'/m'm'm$	tetragonal	D_{4h}	D_{4h}^{1}	15.5.57 ($4'/m'm'm$)	III
123.345	MSG:123.345	$P4/mm'm'$	$P4/mm'm'$	tetragonal	D_{4h}	D_{4h}^{1}	15.6.58 ($4/mm'm'$)	III
123.346	MSG:123.346	$P4'/m'mm'$	$P4'/m'mm'$	tetragonal	D_{4h}	D_{4h}^{1}	15.9.137 ($4'/m'm'm$)	III
123.347	MSG:123.347	$P4/m'm'm'$	$P4/m'm'm'$	tetragonal	D_{4h}	D_{4h}^{1}	15.7.59 ($4/m'm'm'$)	III
123.348	MSG:123.348	P_c4/mmm	$P_{2c}4/mmm$	tetragonal	D_{4h}	D_{4h}^{1}	15.2.54 ($4/mmm1'$)	IV
123.349	MSG:123.349	P_C4/mmm	P_P4/mmm	tetragonal	D_{4h}	D_{4h}^{1}	15.2.54 ($4/mmm1'$)	IV
123.350	MSG:123.350	P_I4/mmm	I_P4/mmm	tetragonal	D_{4h}	D_{4h}^{1}	15.2.54 ($4/mmm1'$)	IV
124.351	MSG:124.351	$P4/mcc$	$P4/mcc$	tetragonal	D_{4h}	D_{4h}^{2}	15.1.53 ($4/mmm$)	I
124.352	MSG:124.352	$P4/mcc1'$	$P4/mcc1'$	tetragonal	D_{4h}	D_{4h}^{2}	15.2.54 ($4/mmm1'$)	II
124.353	MSG:124.353	$P4/m'cc$	$P4/m'cc$	tetragonal	D_{4h}	D_{4h}^{2}	15.3.55 ($4/m'mm$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
124.354	MSG:124.354	$P4'/mc'c$	$P4'/mc'c$	tetragonal	D_{4h}	D_{4h}^2	15.4.56 $(4'/mm'm)$	III
124.355	MSG:124.355	$P4'/mcc'$	$P4'/mcc'$	tetragonal	D_{4h}	D_{4h}^2	15.8.136 $(4'/mm'm)$	III
124.356	MSG:124.356	$P4'/m'c'c$	$P4'/m'c'c$	tetragonal	D_{4h}	D_{4h}^2	15.5.57 $(4'/m'm'm)$	III
124.357	MSG:124.357	$P4/mc'c'$	$P4/mc'c'$	tetragonal	D_{4h}	D_{4h}^2	15.6.58 $(4/mm'm')$	III
124.358	MSG:124.358	$P4'/m'cc'$	$P4'/m'cc'$	tetragonal	D_{4h}	D_{4h}^2	15.9.137 $(4'/m'm'm)$	III
124.359	MSG:124.359	$P4/m'c'c'$	$P4/m'c'c'$	tetragonal	D_{4h}	D_{4h}^2	15.7.59 $(4/m'm'm')$	III
124.360	MSG:124.360	P_c4/mcc	$P_{2c}4/mm'm'$	tetragonal	D_{4h}	D_{4h}^2	15.2.54 $(4/mmm1')$	IV
124.361	MSG:124.361	P_C4/mcc	P_P4/mcc	tetragonal	D_{4h}	D_{4h}^2	15.2.54 $(4/mmm1')$	IV
124.362	MSG:124.362	P_I4/mcc	I_P4/mcm	tetragonal	D_{4h}	D_{4h}^2	15.2.54 $(4/mmm1')$	IV
125.363	MSG:125.363	$P4/nbm$	$P4/nbm$	tetragonal	D_{4h}	D_{4h}^3	15.1.53 $(4/mmm)$	I
125.364	MSG:125.364	$P4/nbm1'$	$P4/nbm1'$	tetragonal	D_{4h}	D_{4h}^3	15.2.54 $(4/mmm1')$	II
125.365	MSG:125.365	$P4/n'bm$	$P4/n'bm$	tetragonal	D_{4h}	D_{4h}^3	15.3.55 $(4/m'mm)$	III
125.366	MSG:125.366	$P4'/nb'm$	$P4'/nb'm$	tetragonal	D_{4h}	D_{4h}^3	15.4.56 $(4'/mm'm)$	III
125.367	MSG:125.367	$P4'/nbm'$	$P4'/nbm'$	tetragonal	D_{4h}	D_{4h}^3	15.8.136 $(4'/mm'm)$	III
125.368	MSG:125.368	$P4'/n'b'm$	$P4'/n'b'm$	tetragonal	D_{4h}	D_{4h}^3	15.5.57 $(4'/m'm'm)$	III
125.369	MSG:125.369	$P4/nb'm'$	$P4/nb'm'$	tetragonal	D_{4h}	D_{4h}^3	15.6.58 $(4/mm'm')$	III
125.370	MSG:125.370	$P4'/n'bm'$	$P4'/n'bm'$	tetragonal	D_{4h}	D_{4h}^3	15.9.137 $(4'/m'm'm)$	III
125.371	MSG:125.371	$P4/n'b'm'$	$P4/n'b'm'$	tetragonal	D_{4h}	D_{4h}^3	15.7.59 $(4/m'm'm')$	III
125.372	MSG:125.372	P_c4/nbm	$P_{2c}4/nbm$	tetragonal	D_{4h}	D_{4h}^3	15.2.54 $(4/mmm1')$	IV
125.373	MSG:125.373	P_C4/nbm	$P_P4'/m'mm'$	tetragonal	D_{4h}	D_{4h}^3	15.2.54 $(4/mmm1')$	IV
125.374	MSG:125.374	P_I4/nbm	$I_P4/m'c'm'$	tetragonal	D_{4h}	D_{4h}^3	15.2.54 $(4/mmm1')$	IV
126.375	MSG:126.375	$P4/nnc$	$P4/nnc$	tetragonal	D_{4h}	D_{4h}^4	15.1.53 $(4/mmm)$	I
126.376	MSG:126.376	$P4/nnc1'$	$P4/nnc1'$	tetragonal	D_{4h}	D_{4h}^4	15.2.54 $(4/mmm1')$	II
126.377	MSG:126.377	$P4/n'nc$	$P4/n'nc$	tetragonal	D_{4h}	D_{4h}^4	15.3.55 $(4/m'mm)$	III
126.378	MSG:126.378	$P4'/nn'c$	$P4'/nn'c$	tetragonal	D_{4h}	D_{4h}^4	15.4.56 $(4'/mm'm)$	III
126.379	MSG:126.379	$P4'/nnc'$	$P4'/nnc'$	tetragonal	D_{4h}	D_{4h}^4	15.8.136 $(4'/mm'm)$	III
126.380	MSG:126.380	$P4'/n'n'c$	$P4'/n'n'c$	tetragonal	D_{4h}	D_{4h}^4	15.5.57 $(4'/m'm'm)$	III
126.381	MSG:126.381	$P4/nn'c'$	$P4/nn'c'$	tetragonal	D_{4h}	D_{4h}^4	15.6.58 $(4/mm'm')$	III
126.382	MSG:126.382	$P4'/n'nc'$	$P4'/n'nc'$	tetragonal	D_{4h}	D_{4h}^4	15.9.137 $(4'/m'm'm)$	III
126.383	MSG:126.383	$P4/n'n'c'$	$P4/n'n'c'$	tetragonal	D_{4h}	D_{4h}^4	15.7.59 $(4/m'm'm')$	III
126.384	MSG:126.384	P_c4/nnc	$P_{2c}4/nb'm'$	tetragonal	D_{4h}	D_{4h}^4	15.2.54 $(4/mmm1')$	IV
126.385	MSG:126.385	P_C4/nnc	$P_P4'/m'cc'$	tetragonal	D_{4h}	D_{4h}^4	15.2.54 $(4/mmm1')$	IV
126.386	MSG:126.386	P_I4/nnc	$I_P4/m'm'm'$	tetragonal	D_{4h}	D_{4h}^4	15.2.54 $(4/mmm1')$	IV
127.387	MSG:127.387	$P4/mbm$	$P4/mbm$	tetragonal	D_{4h}	D_{4h}^5	15.1.53 $(4/mmm)$	I
127.388	MSG:127.388	$P4/mbm1'$	$P4/mbm1'$	tetragonal	D_{4h}	D_{4h}^5	15.2.54 $(4/mmm1')$	II
127.389	MSG:127.389	$P4/m'bm$	$P4/m'bm$	tetragonal	D_{4h}	D_{4h}^5	15.3.55 $(4/m'mm)$	III
127.390	MSG:127.390	$P4'/mb'm$	$P4'/mb'm$	tetragonal	D_{4h}	D_{4h}^5	15.4.56 $(4'/mm'm)$	III
127.391	MSG:127.391	$P4'/mbm'$	$P4'/mbm'$	tetragonal	D_{4h}	D_{4h}^5	15.8.136 $(4'/mm'm)$	III
127.392	MSG:127.392	$P4'/m'b'm$	$P4'/m'b'm$	tetragonal	D_{4h}	D_{4h}^5	15.5.57 $(4'/m'm'm)$	III
127.393	MSG:127.393	$P4/mb'm'$	$P4/mb'm'$	tetragonal	D_{4h}	D_{4h}^5	15.6.58 $(4/mm'm')$	III
127.394	MSG:127.394	$P4'/m'bm'$	$P4'/m'bm'$	tetragonal	D_{4h}	D_{4h}^5	15.9.137 $(4'/m'm'm)$	III
127.395	MSG:127.395	$P4/m'b'm'$	$P4/m'b'm'$	tetragonal	D_{4h}	D_{4h}^5	15.7.59 $(4/m'm'm')$	III
127.396	MSG:127.396	P_c4/mbm	$P_{2c}4/mbm$	tetragonal	D_{4h}	D_{4h}^5	15.2.54 $(4/mmm1')$	IV
127.397	MSG:127.397	P_C4/mbm	P_P4'/mmm'	tetragonal	D_{4h}	D_{4h}^5	15.2.54 $(4/mmm1')$	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
127.398	MSG:127.398	P_I4/mbm	$I_P4/mc'm'$	tetragonal	D_{4h}	D^5_{4h}	15.2.54 $(4/mmm1')$	IV
128.399	MSG:128.399	$P4/mnc$	$P4/mnc$	tetragonal	D_{4h}	D^6_{4h}	15.1.53 $(4/mmm)$	I
128.400	MSG:128.400	$P4/mnc1'$	$P4/mnc1'$	tetragonal	D_{4h}	D^6_{4h}	15.2.54 $(4/mmm1')$	II
128.401	MSG:128.401	$P4/m'nc$	$P4/m'nc$	tetragonal	D_{4h}	D^6_{4h}	15.3.55 $(4/m'mm)$	III
128.402	MSG:128.402	$P4'/mn'c$	$P4'/mn'c$	tetragonal	D_{4h}	D^6_{4h}	15.4.56 $(4'/mm'm)$	III
128.403	MSG:128.403	$P4'/mnc'$	$P4'/mnc'$	tetragonal	D_{4h}	D^6_{4h}	15.8.136 $(4'/mm'm)$	III
128.404	MSG:128.404	$P4'/m'n'c$	$P4'/m'n'c$	tetragonal	D_{4h}	D^6_{4h}	15.5.57 $(4'/m'm'm)$	III
128.405	MSG:128.405	$P4/mn'c'$	$P4/mn'c'$	tetragonal	D_{4h}	D^6_{4h}	15.6.58 $(4/mm'm')$	III
128.406	MSG:128.406	$P4'/m'nc'$	$P4'/m'nc'$	tetragonal	D_{4h}	D^6_{4h}	15.9.137 $(4'/m'm'm)$	III
128.407	MSG:128.407	$P4/m'n'c'$	$P4/m'n'c'$	tetragonal	D_{4h}	D^6_{4h}	15.7.59 $(4/m'm'm')$	III
128.408	MSG:128.408	P_c4/mnc	$P_{2c}4/mb'm'$	tetragonal	D_{4h}	D^6_{4h}	15.2.54 $(4/mmm1')$	IV
128.409	MSG:128.409	P_C4/mnc	P_P4'/mcc'	tetragonal	D_{4h}	D^6_{4h}	15.2.54 $(4/mmm1')$	IV
128.410	MSG:128.410	P_I4/mnc	$I_P4/mm'm'$	tetragonal	D_{4h}	D^6_{4h}	15.2.54 $(4/mmm1')$	IV
129.411	MSG:129.411	$P4/nmm$	$P4/nmm$	tetragonal	D_{4h}	D^7_{4h}	15.1.53 $(4/mmm)$	I
129.412	MSG:129.412	$P4/nmm1'$	$P4/nmm1'$	tetragonal	D_{4h}	D^7_{4h}	15.2.54 $(4/mmm1')$	II
129.413	MSG:129.413	$P4/n'mm$	$P4/n'mm$	tetragonal	D_{4h}	D^7_{4h}	15.3.55 $(4/m'mm)$	III
129.414	MSG:129.414	$P4'/nm'm$	$P4'/nm'm$	tetragonal	D_{4h}	D^7_{4h}	15.4.56 $(4'/mm'm)$	III
129.415	MSG:129.415	$P4'/nmm'$	$P4'/nmm'$	tetragonal	D_{4h}	D^7_{4h}	15.8.136 $(4'/mm'm)$	III
129.416	MSG:129.416	$P4'/n'm'm$	$P4'/n'm'm$	tetragonal	D_{4h}	D^7_{4h}	15.5.57 $(4'/m'm'm)$	III
129.417	MSG:129.417	$P4/nm'm'$	$P4/nm'm'$	tetragonal	D_{4h}	D^7_{4h}	15.6.58 $(4/mm'm')$	III
129.418	MSG:129.418	$P4'/n'mm'$	$P4'/n'mm'$	tetragonal	D_{4h}	D^7_{4h}	15.9.137 $(4'/m'm'm)$	III
129.419	MSG:129.419	$P4/n'm'm'$	$P4/n'm'm'$	tetragonal	D_{4h}	D^7_{4h}	15.7.59 $(4/m'm'm')$	III
129.420	MSG:129.420	P_c4/nmm	$P_{2c}4/nmm$	tetragonal	D_{4h}	D^7_{4h}	15.2.54 $(4/mmm1')$	IV
129.421	MSG:129.421	P_C4/nmm	$P_P4/m'mm$	tetragonal	D_{4h}	D^7_{4h}	15.2.54 $(4/mmm1')$	IV
129.422	MSG:129.422	P_I4/nmm	$I_P4/m'mm$	tetragonal	D_{4h}	D^7_{4h}	15.2.54 $(4/mmm1')$	IV
130.423	MSG:130.423	$P4/ncc$	$P4/ncc$	tetragonal	D_{4h}	D^8_{4h}	15.1.53 $(4/mmm)$	I
130.424	MSG:130.424	$P4/ncc1'$	$P4/ncc1'$	tetragonal	D_{4h}	D^8_{4h}	15.2.54 $(4/mmm1')$	II
130.425	MSG:130.425	$P4/n'cc$	$P4/n'cc$	tetragonal	D_{4h}	D^8_{4h}	15.3.55 $(4/m'mm)$	III
130.426	MSG:130.426	$P4'/nc'c$	$P4'/nc'c$	tetragonal	D_{4h}	D^8_{4h}	15.4.56 $(4'/mm'm)$	III
130.427	MSG:130.427	$P4'/ncc'$	$P4'/ncc'$	tetragonal	D_{4h}	D^8_{4h}	15.8.136 $(4'/mm'm)$	III
130.428	MSG:130.428	$P4'/n'c'c$	$P4'/n'c'c$	tetragonal	D_{4h}	D^8_{4h}	15.5.57 $(4'/m'm'm)$	III
130.429	MSG:130.429	$P4/nc'c'$	$P4/nc'c'$	tetragonal	D_{4h}	D^8_{4h}	15.6.58 $(4/mm'm')$	III
130.430	MSG:130.430	$P4'/n'cc'$	$P4'/n'cc'$	tetragonal	D_{4h}	D^8_{4h}	15.9.137 $(4'/m'm'm)$	III
130.431	MSG:130.431	$P4/n'c'c'$	$P4/n'c'c'$	tetragonal	D_{4h}	D^8_{4h}	15.7.59 $(4/m'm'm')$	III
130.432	MSG:130.432	P_c4/ncc	$P_{2c}4/nm'm'$	tetragonal	D_{4h}	D^8_{4h}	15.2.54 $(4/mmm1')$	IV
130.433	MSG:130.433	P_C4/ncc	$P_P4/m'cc$	tetragonal	D_{4h}	D^8_{4h}	15.2.54 $(4/mmm1')$	IV
130.434	MSG:130.434	P_I4/ncc	$I_P4/m'cm$	tetragonal	D_{4h}	D^8_{4h}	15.2.54 $(4/mmm1')$	IV
131.435	MSG:131.435	$P4_2/mmc$	$P4_2/mmc$	tetragonal	D_{4h}	D^9_{4h}	15.1.53 $(4/mmm)$	I
131.436	MSG:131.436	$P4_2/mmc1'$	$P4_2/mmc1'$	tetragonal	D_{4h}	D^9_{4h}	15.2.54 $(4/mmm1')$	II
131.437	MSG:131.437	$P4_2/m'mc$	$P4_2/m'mc$	tetragonal	D_{4h}	D^9_{4h}	15.3.55 $(4/m'mm)$	III
131.438	MSG:131.438	$P4'_2/mm'c$	$P4'_2/mm'c$	tetragonal	D_{4h}	D^9_{4h}	15.4.56 $(4'/mm'm)$	III
131.439	MSG:131.439	$P4'_2/mmc'$	$P4'_2/mmc'$	tetragonal	D_{4h}	D^9_{4h}	15.8.136 $(4'/mm'm)$	III
131.440	MSG:131.440	$P4'_2/m'm'c$	$P4'_2/m'm'c$	tetragonal	D_{4h}	D^9_{4h}	15.5.57 $(4'/m'm'm)$	III
131.441	MSG:131.441	$P4_2/mm'c'$	$P4_2/mm'c'$	tetragonal	D_{4h}	D^9_{4h}	15.6.58 $(4/mm'm')$	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
131.442	MSG:131.442	$P4'_2/m'mc'$	$P4'_2/m'mc'$	tetragonal	D_{4h}	D^9_{4h}	15.9.137 $(4'/m'm'm)$	III
131.443	MSG:131.443	$P4_2/m'm'c'$	$P4_2/m'm'c'$	tetragonal	D_{4h}	D^9_{4h}	15.7.59 $(4/m'm'm')$	III
131.444	MSG:131.444	P_c4_2/mmc	$P_{2c}4'/mmm'$	tetragonal	D_{4h}	D^9_{4h}	15.2.54 $(4/mmm1')$	IV
131.445	MSG:131.445	P_C4_2/mmc	P_P4_2/mcm	tetragonal	D_{4h}	D^9_{4h}	15.2.54 $(4/mmm1')$	IV
131.446	MSG:131.446	P_I4_2/mmc	I_P4'/mmm'	tetragonal	D_{4h}	D^9_{4h}	15.2.54 $(4/mmm1')$	IV
132.447	MSG:132.447	$P4_2/mcm$	$P4_2/mcm$	tetragonal	D_{4h}	D^{10}_{4h}	15.1.53 $(4/mmm)$	I
132.448	MSG:132.448	$P4_2/mcm1'$	$P4_2/mcm1'$	tetragonal	D_{4h}	D^{10}_{4h}	15.2.54 $(4/mmm1')$	II
132.449	MSG:132.449	$P4_2/m'cm$	$P4_2/m'cm$	tetragonal	D_{4h}	D^{10}_{4h}	15.3.55 $(4/m'mm)$	III
132.450	MSG:132.450	$P4'_2/mc'm$	$P4'_2/mc'm$	tetragonal	D_{4h}	D^{10}_{4h}	15.4.56 $(4'/mm'm)$	III
132.451	MSG:132.451	$P4'_2/mcm'$	$P4'_2/mcm'$	tetragonal	D_{4h}	D^{10}_{4h}	15.8.136 $(4'/mm'm)$	III
132.452	MSG:132.452	$P4'_2/m'c'm$	$P4'_2/m'c'm$	tetragonal	D_{4h}	D^{10}_{4h}	15.5.57 $(4'/m'm'm)$	III
132.453	MSG:132.453	$P4_2/mc'm'$	$P4_2/mc'm'$	tetragonal	D_{4h}	D^{10}_{4h}	15.6.58 $(4/mm'm')$	III
132.454	MSG:132.454	$P4'_2/m'cm'$	$P4'_2/m'cm'$	tetragonal	D_{4h}	D^{10}_{4h}	15.9.137 $(4'/m'm'm)$	III
132.455	MSG:132.455	$P4_2/m'c'm'$	$P4_2/m'c'm'$	tetragonal	D_{4h}	D^{10}_{4h}	15.7.59 $(4/m'm'm')$	III
132.456	MSG:132.456	P_c4_2/mcm	$P_{2c}4'/mm'm$	tetragonal	D_{4h}	D^{10}_{4h}	15.2.54 $(4/mmm1')$	IV
132.457	MSG:132.457	P_C4_2/mcm	P_P4_2/mmc	tetragonal	D_{4h}	D^{10}_{4h}	15.2.54 $(4/mmm1')$	IV
132.458	MSG:132.458	P_I4_2/mcm	I_P4'/mcm'	tetragonal	D_{4h}	D^{10}_{4h}	15.2.54 $(4/mmm1')$	IV
133.459	MSG:133.459	$P4_2/nbc$	$P4_2/nbc$	tetragonal	D_{4h}	D^{11}_{4h}	15.1.53 $(4/mmm)$	I
133.460	MSG:133.460	$P4_2/nbc1'$	$P4_2/nbc1'$	tetragonal	D_{4h}	D^{11}_{4h}	15.2.54 $(4/mmm1')$	II
133.461	MSG:133.461	$P4_2/n'bc$	$P4_2/n'bc$	tetragonal	D_{4h}	D^{11}_{4h}	15.3.55 $(4/m'mm)$	III
133.462	MSG:133.462	$P4'_2/nb'c$	$P4'_2/nb'c$	tetragonal	D_{4h}	D^{11}_{4h}	15.4.56 $(4'/mm'm)$	III
133.463	MSG:133.463	$P4'_2/nbc'$	$P4'_2/nbc'$	tetragonal	D_{4h}	D^{11}_{4h}	15.8.136 $(4'/mm'm)$	III
133.464	MSG:133.464	$P4'_2/n'b'c$	$P4'_2/n'b'c$	tetragonal	D_{4h}	D^{11}_{4h}	15.5.57 $(4'/m'm'm)$	III
133.465	MSG:133.465	$P4_2/nb'c'$	$P4_2/nb'c'$	tetragonal	D_{4h}	D^{11}_{4h}	15.6.58 $(4/mm'm')$	III
133.466	MSG:133.466	$P4'_2/n'bc'$	$P4'_2/n'bc'$	tetragonal	D_{4h}	D^{11}_{4h}	15.9.137 $(4'/m'm'm)$	III
133.467	MSG:133.467	$P4_2/n'b'c'$	$P4_2/n'b'c'$	tetragonal	D_{4h}	D^{11}_{4h}	15.7.59 $(4/m'm'm')$	III
133.468	MSG:133.468	P_c4_2/nbc	$P_{2c}4'/nbm'$	tetragonal	D_{4h}	D^{11}_{4h}	15.2.54 $(4/mmm1')$	IV
133.469	MSG:133.469	P_C4_2/nbc	$P_P4'_2/m'cm'$	tetragonal	D_{4h}	D^{11}_{4h}	15.2.54 $(4/mmm1')$	IV
133.470	MSG:133.470	P_I4_2/nbc	$I_P4'/m'c'm$	tetragonal	D_{4h}	D^{11}_{4h}	15.2.54 $(4/mmm1')$	IV
134.471	MSG:134.471	$P4_2/nnm$	$P4_2/nnm$	tetragonal	D_{4h}	D^{12}_{4h}	15.1.53 $(4/mmm)$	I
134.472	MSG:134.472	$P4_2/nnm1'$	$P4_2/nnm1'$	tetragonal	D_{4h}	D^{12}_{4h}	15.2.54 $(4/mmm1')$	II
134.473	MSG:134.473	$P4_2/n'nm$	$P4_2/n'nm$	tetragonal	D_{4h}	D^{12}_{4h}	15.3.55 $(4/m'mm)$	III
134.474	MSG:134.474	$P4'_2/nn'm$	$P4'_2/nn'm$	tetragonal	D_{4h}	D^{12}_{4h}	15.4.56 $(4'/mm'm)$	III
134.475	MSG:134.475	$P4'_2/nnm'$	$P4'_2/nnm'$	tetragonal	D_{4h}	D^{12}_{4h}	15.8.136 $(4'/mm'm)$	III
134.476	MSG:134.476	$P4'_2/n'n'm$	$P4'_2/n'n'm$	tetragonal	D_{4h}	D^{12}_{4h}	15.5.57 $(4'/m'm'm)$	III
134.477	MSG:134.477	$P4_2/nn'm'$	$P4_2/nn'm'$	tetragonal	D_{4h}	D^{12}_{4h}	15.6.58 $(4/mm'm')$	III
134.478	MSG:134.478	$P4'_2/n'nm'$	$P4'_2/n'nm'$	tetragonal	D_{4h}	D^{12}_{4h}	15.9.137 $(4'/m'm'm)$	III
134.479	MSG:134.479	$P4_2/n'n'm'$	$P4_2/n'n'm'$	tetragonal	D_{4h}	D^{12}_{4h}	15.7.59 $(4/m'm'm')$	III
134.480	MSG:134.480	P_c4_2/nnm	$P_{2c}4'/nb'm$	tetragonal	D_{4h}	D^{12}_{4h}	15.2.54 $(4/mmm1')$	IV
134.481	MSG:134.481	P_C4_2/nnm	$P_P4'_2/m'mc'$	tetragonal	D_{4h}	D^{12}_{4h}	15.2.54 $(4/mmm1')$	IV
134.482	MSG:134.482	P_I4_2/nnm	$I_P4'/m'm'm$	tetragonal	D_{4h}	D^{12}_{4h}	15.2.54 $(4/mmm1')$	IV
135.483	MSG:135.483	$P4_2/mbc$	$P4_2/mbc$	tetragonal	D_{4h}	D^{13}_{4h}	15.1.53 $(4/mmm)$	I
135.484	MSG:135.484	$P4_2/mbc1'$	$P4_2/mbc1'$	tetragonal	D_{4h}	D^{13}_{4h}	15.2.54 $(4/mmm1')$	II
135.485	MSG:135.485	$P4_2/m'bc$	$P4_2/m'bc$	tetragonal	D_{4h}	D^{13}_{4h}	15.3.55 $(4/m'mm)$	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
135.486	MSG:135.486	$P4'_2/mb'c$	$P4'_2/mb'c$	tetragonal	D_{4h}	D_{4h}^{13}	15.4.56 $(4'/mm'm)$	III
135.487	MSG:135.487	$P4'_2/mbc'$	$P4'_2/mbc'$	tetragonal	D_{4h}	D_{4h}^{13}	15.8.136 $(4'/mm'm)$	III
135.488	MSG:135.488	$P4'_2/m'b'c$	$P4'_2/m'b'c$	tetragonal	D_{4h}	D_{4h}^{13}	15.5.57 $(4'/m'm'm)$	III
135.489	MSG:135.489	$P4_2/mb'c'$	$P4_2/mb'c'$	tetragonal	D_{4h}	D_{4h}^{13}	15.6.58 $(4/mm'm')$	III
135.490	MSG:135.490	$P4'_2/m'bc'$	$P4'_2/m'bc'$	tetragonal	D_{4h}	D_{4h}^{13}	15.9.137 $(4'/m'm'm)$	III
135.491	MSG:135.491	$P4_2/m'b'c'$	$P4_2/m'b'c'$	tetragonal	D_{4h}	D_{4h}^{13}	15.7.59 $(4/m'm'm')$	III
135.492	MSG:135.492	P_c4_2/mbc	$P_{2c}4'/mbm'$	tetragonal	D_{4h}	D_{4h}^{13}	15.2.54 $(4/mmm1')$	IV
135.493	MSG:135.493	P_C4_2/mbc	$P_P4'_2/mcm'$	tetragonal	D_{4h}	D_{4h}^{13}	15.2.54 $(4/mmm1')$	IV
135.494	MSG:135.494	P_I4_2/mbc	$I_P4'/mc'm$	tetragonal	D_{4h}	D_{4h}^{13}	15.2.54 $(4/mmm1')$	IV
136.495	MSG:136.495	$P4_2/mnm$	$P4_2/mnm$	tetragonal	D_{4h}	D_{4h}^{14}	15.1.53 $(4/mmm)$	I
136.496	MSG:136.496	$P4_2/mnm1'$	$P4_2/mnm1'$	tetragonal	D_{4h}	D_{4h}^{14}	15.2.54 $(4/mmm1')$	II
136.497	MSG:136.497	$P4_2/m'nm$	$P4_2/m'nm$	tetragonal	D_{4h}	D_{4h}^{14}	15.3.55 $(4/m'mm)$	III
136.498	MSG:136.498	$P4'_2/mn'm$	$P4'_2/mn'm$	tetragonal	D_{4h}	D_{4h}^{14}	15.4.56 $(4'/mm'm)$	III
136.499	MSG:136.499	$P4'_2/mnm'$	$P4'_2/mnm'$	tetragonal	D_{4h}	D_{4h}^{14}	15.8.136 $(4'/mm'm)$	III
136.500	MSG:136.500	$P4'_2/m'n'm$	$P4'_2/m'n'm$	tetragonal	D_{4h}	D_{4h}^{14}	15.5.57 $(4'/m'm'm)$	III
136.501	MSG:136.501	$P4_2/mn'm'$	$P4_2/mn'm'$	tetragonal	D_{4h}	D_{4h}^{14}	15.6.58 $(4/mm'm')$	III
136.502	MSG:136.502	$P4'_2/m'nm'$	$P4'_2/m'nm'$	tetragonal	D_{4h}	D_{4h}^{14}	15.9.137 $(4'/m'm'm)$	III
136.503	MSG:136.503	$P4_2/m'n'm'$	$P4_2/m'n'm'$	tetragonal	D_{4h}	D_{4h}^{14}	15.7.59 $(4/m'm'm')$	III
136.504	MSG:136.504	P_c4_2/mnm	$P_{2c}4'/mb'm$	tetragonal	D_{4h}	D_{4h}^{14}	15.2.54 $(4/mmm1')$	IV
136.505	MSG:136.505	P_C4_2/mnm	$P_P4_2/mm'c'$	tetragonal	D_{4h}	D_{4h}^{14}	15.2.54 $(4/mmm1')$	IV
136.506	MSG:136.506	P_I4_2/mnm	$I_P4'/mm'm$	tetragonal	D_{4h}	D_{4h}^{14}	15.2.54 $(4/mmm1')$	IV
137.507	MSG:137.507	$P4_2/nmc$	$P4_2/nmc$	tetragonal	D_{4h}	D_{4h}^{15}	15.1.53 $(4/mmm)$	I
137.508	MSG:137.508	$P4_2/nmc1'$	$P4_2/nmc1'$	tetragonal	D_{4h}	D_{4h}^{15}	15.2.54 $(4/mmm1')$	II
137.509	MSG:137.509	$P4_2/n'mc$	$P4_2/n'mc$	tetragonal	D_{4h}	D_{4h}^{15}	15.3.55 $(4/m'mm)$	III
137.510	MSG:137.510	$P4'_2/nm'c$	$P4'_2/nm'c$	tetragonal	D_{4h}	D_{4h}^{15}	15.4.56 $(4'/mm'm)$	III
137.511	MSG:137.511	$P4'_2/nmc'$	$P4'_2/nmc'$	tetragonal	D_{4h}	D_{4h}^{15}	15.8.136 $(4'/mm'm)$	III
137.512	MSG:137.512	$P4'_2/n'm'c$	$P4'_2/n'm'c$	tetragonal	D_{4h}	D_{4h}^{15}	15.5.57 $(4'/m'm'm)$	III
137.513	MSG:137.513	$P4_2/nm'c'$	$P4_2/nm'c'$	tetragonal	D_{4h}	D_{4h}^{15}	15.6.58 $(4/mm'm')$	III
137.514	MSG:137.514	$P4'_2/n'mc'$	$P4'_2/n'mc'$	tetragonal	D_{4h}	D_{4h}^{15}	15.9.137 $(4'/m'm'm)$	III
137.515	MSG:137.515	$P4_2/n'm'c'$	$P4_2/n'm'c'$	tetragonal	D_{4h}	D_{4h}^{15}	15.7.59 $(4/m'm'm')$	III
137.516	MSG:137.516	P_c4_2/nmc	$P_{2c}4'/nmm'$	tetragonal	D_{4h}	D_{4h}^{15}	15.2.54 $(4/mmm1')$	IV
137.517	MSG:137.517	P_C4_2/nmc	$P_P4_2/m'cm$	tetragonal	D_{4h}	D_{4h}^{15}	15.2.54 $(4/mmm1')$	IV
137.518	MSG:137.518	P_I4_2/nmc	$I_P4'/m'mm'$	tetragonal	D_{4h}	D_{4h}^{15}	15.2.54 $(4/mmm1')$	IV
138.519	MSG:138.519	$P4_2/ncm$	$P4_2/ncm$	tetragonal	D_{4h}	D_{4h}^{16}	15.1.53 $(4/mmm)$	I
138.520	MSG:138.520	$P4_2/ncm1'$	$P4_2/ncm1'$	tetragonal	D_{4h}	D_{4h}^{16}	15.2.54 $(4/mmm1')$	II
138.521	MSG:138.521	$P4_2/n'cm$	$P4_2/n'cm$	tetragonal	D_{4h}	D_{4h}^{16}	15.3.55 $(4/m'mm)$	III
138.522	MSG:138.522	$P4'_2/nc'm$	$P4'_2/nc'm$	tetragonal	D_{4h}	D_{4h}^{16}	15.4.56 $(4'/mm'm)$	III
138.523	MSG:138.523	$P4'_2/ncm'$	$P4'_2/ncm'$	tetragonal	D_{4h}	D_{4h}^{16}	15.8.136 $(4'/mm'm)$	III
138.524	MSG:138.524	$P4'_2/n'c'm$	$P4'_2/n'c'm$	tetragonal	D_{4h}	D_{4h}^{16}	15.5.57 $(4'/m'm'm)$	III
138.525	MSG:138.525	$P4_2/nc'm'$	$P4_2/nc'm'$	tetragonal	D_{4h}	D_{4h}^{16}	15.6.58 $(4/mm'm')$	III
138.526	MSG:138.526	$P4'_2/n'cm'$	$P4'_2/n'cm'$	tetragonal	D_{4h}	D_{4h}^{16}	15.9.137 $(4'/m'm'm)$	III
138.527	MSG:138.527	$P4_2/n'c'm'$	$P4_2/n'c'm'$	tetragonal	D_{4h}	D_{4h}^{16}	15.7.59 $(4/m'm'm')$	III
138.528	MSG:138.528	P_c4_2/ncm	$P_{2c}4'/nm'm$	tetragonal	D_{4h}	D_{4h}^{16}	15.2.54 $(4/mmm1')$	IV
138.529	MSG:138.529	P_C4_2/ncm	$P_P4_2/m'mc$	tetragonal	D_{4h}	D_{4h}^{16}	15.2.54 $(4/mmm1')$	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
138.530	MSG:138.530	P_I4_2/ncm	$I_P4'/m'cm'$	tetragonal	D_{4h}	D_{4h}^{16}	15.2.54 $(4/mmm1')$	IV
139.531	MSG:139.531	$I4/mmm$	$I4/mmm$	tetragonal	D_{4h}	D_{4h}^{17}	15.1.53 $(4/mmm)$	I
139.532	MSG:139.532	$I4/mmm1'$	$I4/mmm1'$	tetragonal	D_{4h}	D_{4h}^{17}	15.2.54 $(4/mmm1')$	II
139.533	MSG:139.533	$I4/m'mm$	$I4/m'mm$	tetragonal	D_{4h}	D_{4h}^{17}	15.3.55 $(4/m'mm)$	III
139.534	MSG:139.534	$I4'/mm'm$	$I4'/mm'm$	tetragonal	D_{4h}	D_{4h}^{17}	15.4.56 $(4'/mm'm)$	III
139.535	MSG:139.535	$I4'/mmm'$	$I4'/mmm'$	tetragonal	D_{4h}	D_{4h}^{17}	15.8.136 $(4'/mm'm)$	III
139.536	MSG:139.536	$I4'/m'm'm$	$I4'/m'm'm$	tetragonal	D_{4h}	D_{4h}^{17}	15.5.57 $(4'/m'm'm)$	III
139.537	MSG:139.537	$I4/mm'm'$	$I4/mm'm'$	tetragonal	D_{4h}	D_{4h}^{17}	15.6.58 $(4/mm'm')$	III
139.538	MSG:139.538	$I4'/m'mm'$	$I4'/m'mm'$	tetragonal	D_{4h}	D_{4h}^{17}	15.9.137 $(4'/m'm'm)$	III
139.539	MSG:139.539	$I4/m'm'm'$	$I4/m'm'm'$	tetragonal	D_{4h}	D_{4h}^{17}	15.7.59 $(4/m'm'm')$	III
139.540	MSG:139.540	I_c4/mmm	P_I4/mmm	tetragonal	D_{4h}	D_{4h}^{17}	15.2.54 $(4/mmm1')$	IV
140.541	MSG:140.541	$I4/mcm$	$I4/mcm$	tetragonal	D_{4h}	D_{4h}^{18}	15.1.53 $(4/mmm)$	I
140.542	MSG:140.542	$I4/mcm1'$	$I4/mcm1'$	tetragonal	D_{4h}	D_{4h}^{18}	15.2.54 $(4/mmm1')$	II
140.543	MSG:140.543	$I4/m'cm$	$I4/m'cm$	tetragonal	D_{4h}	D_{4h}^{18}	15.3.55 $(4/m'mm)$	III
140.544	MSG:140.544	$I4'/mc'm$	$I4'/mc'm$	tetragonal	D_{4h}	D_{4h}^{18}	15.4.56 $(4'/mm'm)$	III
140.545	MSG:140.545	$I4'/mcm'$	$I4'/mcm'$	tetragonal	D_{4h}	D_{4h}^{18}	15.8.136 $(4'/mm'm)$	III
140.546	MSG:140.546	$I4'/m'c'm$	$I4'/m'c'm$	tetragonal	D_{4h}	D_{4h}^{18}	15.5.57 $(4'/m'm'm)$	III
140.547	MSG:140.547	$I4/mc'm'$	$I4/mc'm'$	tetragonal	D_{4h}	D_{4h}^{18}	15.6.58 $(4/mm'm')$	III
140.548	MSG:140.548	$I4'/m'cm'$	$I4'/m'cm'$	tetragonal	D_{4h}	D_{4h}^{18}	15.9.137 $(4'/m'm'm)$	III
140.549	MSG:140.549	$I4/m'c'm'$	$I4/m'c'm'$	tetragonal	D_{4h}	D_{4h}^{18}	15.7.59 $(4/m'm'm')$	III
140.550	MSG:140.550	I_c4/mcm	$P_I4/mm'm'$	tetragonal	D_{4h}	D_{4h}^{18}	15.2.54 $(4/mmm1')$	IV
141.551	MSG:141.551	$I4_1/amd$	$I4_1/amd$	tetragonal	D_{4h}	D_{4h}^{19}	15.1.53 $(4/mmm)$	I
141.552	MSG:141.552	$I4_1/amd1'$	$I4_1/amd1'$	tetragonal	D_{4h}	D_{4h}^{19}	15.2.54 $(4/mmm1')$	II
141.553	MSG:141.553	$I4_1/a'md$	$I4_1/a'md$	tetragonal	D_{4h}	D_{4h}^{19}	15.3.55 $(4/m'mm)$	III
141.554	MSG:141.554	$I4_1'/am'd$	$I4_1'/am'd$	tetragonal	D_{4h}	D_{4h}^{19}	15.4.56 $(4'/mm'm)$	III
141.555	MSG:141.555	$I4_1'/amd'$	$I4_1'/amd'$	tetragonal	D_{4h}	D_{4h}^{19}	15.8.136 $(4'/mm'm)$	III
141.556	MSG:141.556	$I4_1'/a'm'd$	$I4_1'/a'm'd$	tetragonal	D_{4h}	D_{4h}^{19}	15.5.57 $(4'/m'm'm)$	III
141.557	MSG:141.557	$I4_1/am'd'$	$I4_1/am'd'$	tetragonal	D_{4h}	D_{4h}^{19}	15.6.58 $(4/mm'm')$	III
141.558	MSG:141.558	$I4_1'/a'md'$	$I4_1'/a'md'$	tetragonal	D_{4h}	D_{4h}^{19}	15.9.137 $(4'/m'm'm)$	III
141.559	MSG:141.559	$I4_1/a'm'd'$	$I4_1/a'm'd'$	tetragonal	D_{4h}	D_{4h}^{19}	15.7.59 $(4/m'm'm')$	III
141.560	MSG:141.560	I_c4_1/amd	P_I4_2/nnm	tetragonal	D_{4h}	D_{4h}^{19}	15.2.54 $(4/mmm1')$	IV
142.561	MSG:142.561	$I4_1/acd$	$I4_1/acd$	tetragonal	D_{4h}	D_{4h}^{20}	15.1.53 $(4/mmm)$	I
142.562	MSG:142.562	$I4_1/acd1'$	$I4_1/acd1'$	tetragonal	D_{4h}	D_{4h}^{20}	15.2.54 $(4/mmm1')$	II
142.563	MSG:142.563	$I4_1/a'cd$	$I4_1/a'cd$	tetragonal	D_{4h}	D_{4h}^{20}	15.3.55 $(4/m'mm)$	III
142.564	MSG:142.564	$I4_1'/ac'd$	$I4_1'/ac'd$	tetragonal	D_{4h}	D_{4h}^{20}	15.4.56 $(4'/mm'm)$	III
142.565	MSG:142.565	$I4_1'/acd'$	$I4_1'/acd'$	tetragonal	D_{4h}	D_{4h}^{20}	15.8.136 $(4'/mm'm)$	III
142.566	MSG:142.566	$I4_1'/a'c'd$	$I4_1'/a'c'd$	tetragonal	D_{4h}	D_{4h}^{20}	15.5.57 $(4'/m'm'm)$	III
142.567	MSG:142.567	$I4_1/ac'd'$	$I4_1/ac'd'$	tetragonal	D_{4h}	D_{4h}^{20}	15.6.58 $(4/mm'm')$	III
142.568	MSG:142.568	$I4_1'/a'cd'$	$I4_1'/a'cd'$	tetragonal	D_{4h}	D_{4h}^{20}	15.9.137 $(4'/m'm'm)$	III
142.569	MSG:142.569	$I4_1/a'c'd'$	$I4_1/a'c'd'$	tetragonal	D_{4h}	D_{4h}^{20}	15.7.59 $(4/m'm'm')$	III
142.570	MSG:142.570	I_c4_1/acd	$P_I4_2/nn'm'$	tetragonal	D_{4h}	D_{4h}^{20}	15.2.54 $(4/mmm1')$	IV
143.1	MSG:143.1	$P3$	$P3$	trigonal	C_3	C_3^1	16.1.60 (3)	I
143.2	MSG:143.2	$P31'$	$P31'$	trigonal	C_3	C_3^1	16.2.61 $(31')$	II
143.3	MSG:143.3	P_c3	$P_{2c}3$	trigonal	C_3	C_3^1	16.2.61 $(31')$	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
144.4	MSG:144.4	$P3_1$	$P3_1$	trigonal	C_3	C_3^2	16.1.60 (3)	I
144.5	MSG:144.5	$P3_11'$	$P3_11'$	trigonal	C_3	C_3^2	16.2.61 (31′)	II
144.6	MSG:144.6	P_c3_1	$P_{2c}3_1$	trigonal	C_3	C_3^2	16.2.61 (31′)	IV
145.7	MSG:145.7	$P3_2$	$P3_2$	trigonal	C_3	C_3^3	16.1.60 (3)	I
145.8	MSG:145.8	$P3_21'$	$P3_21'$	trigonal	C_3	C_3^3	16.2.61 (31′)	II
145.9	MSG:145.9	P_c3_2	$P_{2c}3_2$	trigonal	C_3	C_3^3	16.2.61 (31′)	IV
146.10	MSG:146.10	$R3$	$R3$	trigonal	C_3	C_3^4	16.1.60 (3)	I
146.11	MSG:146.11	$R31'$	$R31'$	trigonal	C_3	C_3^4	16.2.61 (31′)	II
146.12	MSG:146.12	R_I3	R_R3	trigonal	C_3	C_3^4	16.2.61 (31′)	IV
147.13	MSG:147.13	$P\bar{3}$	$P\bar{3}$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^1$	17.1.62 ($\bar{3}$)	I
147.14	MSG:147.14	$P\bar{3}1'$	$P\bar{3}1'$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^1$	17.2.63 ($\bar{3}1'$)	II
147.15	MSG:147.15	$P\bar{3}'$	$P\bar{3}'$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^1$	17.3.64 ($\bar{3}'$)	III
147.16	MSG:147.16	$P_c\bar{3}$	$P_{2c}\bar{3}$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^1$	17.2.63 ($\bar{3}1'$)	IV
148.17	MSG:148.17	$R\bar{3}$	$R\bar{3}$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^2$	17.1.62 ($\bar{3}$)	I
148.18	MSG:148.18	$R\bar{3}1'$	$R\bar{3}1'$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^2$	17.2.63 ($\bar{3}1'$)	II
148.19	MSG:148.19	$R\bar{3}'$	$R\bar{3}'$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^2$	17.3.64 ($\bar{3}'$)	III
148.20	MSG:148.20	$R_I\bar{3}$	$R_R\bar{3}$	trigonal	$C_{3\mathrm{i}}$	$C_{3\mathrm{i}}^2$	17.2.63 ($\bar{3}1'$)	IV
149.21	MSG:149.21	$P312$	$P312$	trigonal	$D_3(1)$	D_3^1	34.1.138 (32)	I
149.22	MSG:149.22	$P3121'$	$P3121'$	trigonal	$D_3(1)$	D_3^1	34.2.139 (321′)	II
149.23	MSG:149.23	$P312'$	$P312'$	trigonal	$D_3(1)$	D_3^1	34.3.140 (32′)	III
149.24	MSG:149.24	P_c312	$P_{2c}312$	trigonal	$D_3(1)$	D_3^1	34.2.139 (321′)	IV
150.25	MSG:150.25	$P321$	$P321$	trigonal	D_3	D_3^2	18.1.65 (32)	I
150.26	MSG:150.26	$P3211'$	$P3211'$	trigonal	D_3	D_3^2	18.2.66 (321′)	II
150.27	MSG:150.27	$P32'1$	$P32'1$	trigonal	D_3	D_3^2	18.3.67 (32′)	III
150.28	MSG:150.28	P_c321	$P_{2c}321$	trigonal	D_3	D_3^2	18.2.66 (321′)	IV
151.29	MSG:151.29	$P3_112$	$P3_112$	trigonal	$D_3(1)$	D_3^3	34.1.138 (32)	I
151.30	MSG:151.30	$P3_1121'$	$P3_1121'$	trigonal	$D_3(1)$	D_3^3	34.2.139 (321′)	II
151.31	MSG:151.31	$P3_112'$	$P3_112'$	trigonal	$D_3(1)$	D_3^3	34.3.140 (32′)	III
151.32	MSG:151.32	P_c3_112	$P_{2c}3_112$	trigonal	$D_3(1)$	D_3^3	34.2.139 (321′)	IV
152.33	MSG:152.33	$P3_121$	$P3_121$	trigonal	D_3	D_3^4	18.1.65 (32)	I
152.34	MSG:152.34	$P3_1211'$	$P3_1211'$	trigonal	D_3	D_3^4	18.2.66 (321′)	II
152.35	MSG:152.35	$P3_12'1$	$P3_12'1$	trigonal	D_3	D_3^4	18.3.67 (32′)	III
152.36	MSG:152.36	P_c3_121	$P_{2c}3_121$	trigonal	D_3	D_3^4	18.2.66 (321′)	IV
153.37	MSG:153.37	$P3_212$	$P3_212$	trigonal	$D_3(1)$	D_3^5	34.1.138 (32)	I
153.38	MSG:153.38	$P3_2121'$	$P3_2121'$	trigonal	$D_3(1)$	D_3^5	34.2.139 (321′)	II
153.39	MSG:153.39	$P3_212'$	$P3_212'$	trigonal	$D_3(1)$	D_3^5	34.3.140 (32′)	III
153.40	MSG:153.40	P_c3_212	$P_{2c}3_212$	trigonal	$D_3(1)$	D_3^5	34.2.139 (321′)	IV
154.41	MSG:154.41	$P3_221$	$P3_221$	trigonal	D_3	D_3^6	18.1.65 (32)	I
154.42	MSG:154.42	$P3_2211'$	$P3_2211'$	trigonal	D_3	D_3^6	18.2.66 (321′)	II
154.43	MSG:154.43	$P3_22'1$	$P3_22'1$	trigonal	D_3	D_3^6	18.3.67 (32′)	III
154.44	MSG:154.44	P_c3_221	$P_{2c}3_221$	trigonal	D_3	D_3^6	18.2.66 (321′)	IV
155.45	MSG:155.45	$R32$	$R32$	trigonal	D_3	D_3^7	18.1.65 (32)	I
155.46	MSG:155.46	$R321'$	$R321'$	trigonal	D_3	D_3^7	18.2.66 (321′)	II
155.47	MSG:155.47	$R32'$	$R32'$	trigonal	D_3	D_3^7	18.3.67 (32′)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
155.48	MSG:155.48	R_I32	R_R32	trigonal	D_3	D_3^7	18.2.66 ($321'$)	IV
156.49	MSG:156.49	$P3m1$	$P3m1$	trigonal	C_{3v}	C_{3v}^1	19.1.68 ($3m$)	I
156.50	MSG:156.50	$P3m11'$	$P3m11'$	trigonal	C_{3v}	C_{3v}^1	19.2.69 ($3m1'$)	II
156.51	MSG:156.51	$P3m'1$	$P3m'1$	trigonal	C_{3v}	C_{3v}^1	19.3.70 ($3m'$)	III
156.52	MSG:156.52	P_c3m1	$P_{2c}3m1$	trigonal	C_{3v}	C_{3v}^1	19.2.69 ($3m1'$)	IV
157.53	MSG:157.53	$P31m$	$P31m$	trigonal	$C_{3v}(1)$	C_{3v}^2	35.1.141 ($3m$)	I
157.54	MSG:157.54	$P31m1'$	$P31m1'$	trigonal	$C_{3v}(1)$	C_{3v}^2	35.2.142 ($3m1'$)	II
157.55	MSG:157.55	$P31m'$	$P31m'$	trigonal	$C_{3v}(1)$	C_{3v}^2	35.3.143 ($3m'$)	III
157.56	MSG:157.56	P_c31m	$P_{2c}31m$	trigonal	$C_{3v}(1)$	C_{3v}^2	35.2.142 ($3m1'$)	IV
158.57	MSG:158.57	$P3c1$	$P3c1$	trigonal	C_{3v}	C_{3v}^3	19.1.68 ($3m$)	I
158.58	MSG:158.58	$P3c11'$	$P3c11'$	trigonal	C_{3v}	C_{3v}^3	19.2.69 ($3m1'$)	II
158.59	MSG:158.59	$P3c'1$	$P3c'1$	trigonal	C_{3v}	C_{3v}^3	19.3.70 ($3m'$)	III
158.60	MSG:158.60	P_c3c1	$P_{2c}3m'1$	trigonal	C_{3v}	C_{3v}^3	19.2.69 ($3m1'$)	IV
159.61	MSG:159.61	$P31c$	$P31c$	trigonal	$C_{3v}(1)$	C_{3v}^4	35.1.141 ($3m$)	I
159.62	MSG:159.62	$P31c1'$	$P31c1'$	trigonal	$C_{3v}(1)$	C_{3v}^4	35.2.142 ($3m1'$)	II
159.63	MSG:159.63	$P31c'$	$P31c'$	trigonal	$C_{3v}(1)$	C_{3v}^4	35.3.143 ($3m'$)	III
159.64	MSG:159.64	P_c31c	$P_{2c}31m'$	trigonal	$C_{3v}(1)$	C_{3v}^4	35.2.142 ($3m1'$)	IV
160.65	MSG:160.65	$R3m$	$R3m$	trigonal	C_{3v}	C_{3v}^5	19.1.68 ($3m$)	I
160.66	MSG:160.66	$R3m1'$	$R3m1'$	trigonal	C_{3v}	C_{3v}^5	19.2.69 ($3m1'$)	II
160.67	MSG:160.67	$R3m'$	$R3m'$	trigonal	C_{3v}	C_{3v}^5	19.3.70 ($3m'$)	III
160.68	MSG:160.68	R_I3m	R_R3m	trigonal	C_{3v}	C_{3v}^5	19.2.69 ($3m1'$)	IV
161.69	MSG:161.69	$R3c$	$R3c$	trigonal	C_{3v}	C_{3v}^6	19.1.68 ($3m$)	I
161.70	MSG:161.70	$R3c1'$	$R3c1'$	trigonal	C_{3v}	C_{3v}^6	19.2.69 ($3m1'$)	II
161.71	MSG:161.71	$R3c'$	$R3c'$	trigonal	C_{3v}	C_{3v}^6	19.3.70 ($3m'$)	III
161.72	MSG:161.72	R_I3c	R_R3m'	trigonal	C_{3v}	C_{3v}^6	19.2.69 ($3m1'$)	IV
162.73	MSG:162.73	$P\bar{3}1m$	$P\bar{3}1m$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.1.144 ($\bar{3}m$)	I
162.74	MSG:162.74	$P\bar{3}1m1'$	$P\bar{3}1m1'$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.2.145 ($\bar{3}m1'$)	II
162.75	MSG:162.75	$P\bar{3}'1m$	$P\bar{3}'1m$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.3.146 ($\bar{3}'m$)	III
162.76	MSG:162.76	$P\bar{3}'1m'$	$P\bar{3}'1m'$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.4.147 ($\bar{3}'m'$)	III
162.77	MSG:162.77	$P\bar{3}1m'$	$P\bar{3}1m'$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.5.148 ($\bar{3}m'$)	III
162.78	MSG:162.78	$P_c\bar{3}1m$	$P_{2c}\bar{3}1m$	trigonal	$D_{3d}(1)$	D_{3d}^1	36.2.145 ($\bar{3}m1'$)	IV
163.79	MSG:163.79	$P\bar{3}1c$	$P\bar{3}1c$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.1.144 ($\bar{3}m$)	I
163.80	MSG:163.80	$P\bar{3}1c1'$	$P\bar{3}1c1'$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.2.145 ($\bar{3}m1'$)	II
163.81	MSG:163.81	$P\bar{3}'1c$	$P\bar{3}'1c$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.3.146 ($\bar{3}'m$)	III
163.82	MSG:163.82	$P\bar{3}'1c'$	$P\bar{3}'1c'$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.4.147 ($\bar{3}'m'$)	III
163.83	MSG:163.83	$P\bar{3}1c'$	$P\bar{3}1c'$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.5.148 ($\bar{3}m'$)	III
163.84	MSG:163.84	$P_c\bar{3}1c$	$P_{2c}\bar{3}1m'$	trigonal	$D_{3d}(1)$	D_{3d}^2	36.2.145 ($\bar{3}m1'$)	IV
164.85	MSG:164.85	$P\bar{3}m1$	$P\bar{3}m1$	trigonal	D_{3d}	D_{3d}^3	20.1.71 ($\bar{3}m$)	I
164.86	MSG:164.86	$P\bar{3}m11'$	$P\bar{3}m11'$	trigonal	D_{3d}	D_{3d}^3	20.2.72 ($\bar{3}m1'$)	II
164.87	MSG:164.87	$P\bar{3}'m1$	$P\bar{3}'m1$	trigonal	D_{3d}	D_{3d}^3	20.3.73 ($\bar{3}'m$)	III
164.88	MSG:164.88	$P\bar{3}'m'1$	$P\bar{3}'m'1$	trigonal	D_{3d}	D_{3d}^3	20.4.74 ($\bar{3}'m'$)	III
164.89	MSG:164.89	$P\bar{3}m'1$	$P\bar{3}m'1$	trigonal	D_{3d}	D_{3d}^3	20.5.75 ($\bar{3}m'$)	III
164.90	MSG:164.90	$P_c\bar{3}m1$	$P_{2c}\bar{3}m1$	trigonal	D_{3d}	D_{3d}^3	20.2.72 ($\bar{3}m1'$)	IV
165.91	MSG:165.91	$P\bar{3}c1$	$P\bar{3}c1$	trigonal	D_{3d}	D_{3d}^4	20.1.71 ($\bar{3}m$)	I

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
165.92	MSG:165.92	$P\bar{3}c11'$	$P\bar{3}c11'$	trigonal	D_{3d}	D_{3d}^4	20.2.72 ($\bar{3}m1'$)	II
165.93	MSG:165.93	$P\bar{3}'c1$	$P\bar{3}'c1$	trigonal	D_{3d}	D_{3d}^4	20.3.73 ($\bar{3}'m$)	III
165.94	MSG:165.94	$P\bar{3}'c'1$	$P\bar{3}'c'1$	trigonal	D_{3d}	D_{3d}^4	20.4.74 ($\bar{3}'m'$)	III
165.95	MSG:165.95	$P\bar{3}c'1$	$P\bar{3}c'1$	trigonal	D_{3d}	D_{3d}^4	20.5.75 ($\bar{3}m'$)	III
165.96	MSG:165.96	$P_c\bar{3}c1$	$P_{2c}\bar{3}m'1$	trigonal	D_{3d}	D_{3d}^4	20.2.72 ($\bar{3}m1'$)	IV
166.97	MSG:166.97	$R\bar{3}m$	$R\bar{3}m$	trigonal	D_{3d}	D_{3d}^5	20.1.71 ($\bar{3}m$)	I
166.98	MSG:166.98	$R\bar{3}m1'$	$R\bar{3}m1'$	trigonal	D_{3d}	D_{3d}^5	20.2.72 ($\bar{3}m1'$)	II
166.99	MSG:166.99	$R\bar{3}'m$	$R\bar{3}'m$	trigonal	D_{3d}	D_{3d}^5	20.3.73 ($\bar{3}'m$)	III
166.100	MSG:166.100	$R\bar{3}'m'$	$R\bar{3}'m'$	trigonal	D_{3d}	D_{3d}^5	20.4.74 ($\bar{3}'m'$)	III
166.101	MSG:166.101	$R\bar{3}m'$	$R\bar{3}m'$	trigonal	D_{3d}	D_{3d}^5	20.5.75 ($\bar{3}m'$)	III
166.102	MSG:166.102	$R_I\bar{3}m$	$R_R\bar{3}m$	trigonal	D_{3d}	D_{3d}^5	20.2.72 ($\bar{3}m1'$)	IV
167.103	MSG:167.103	$R\bar{3}c$	$R\bar{3}c$	trigonal	D_{3d}	D_{3d}^6	20.1.71 ($\bar{3}m$)	I
167.104	MSG:167.104	$R\bar{3}c1'$	$R\bar{3}c1'$	trigonal	D_{3d}	D_{3d}^6	20.2.72 ($\bar{3}m1'$)	II
167.105	MSG:167.105	$R\bar{3}'c$	$R\bar{3}'c$	trigonal	D_{3d}	D_{3d}^6	20.3.73 ($\bar{3}'m$)	III
167.106	MSG:167.106	$R\bar{3}'c'$	$R\bar{3}'c'$	trigonal	D_{3d}	D_{3d}^6	20.4.74 ($\bar{3}'m'$)	III
167.107	MSG:167.107	$R\bar{3}c'$	$R\bar{3}c'$	trigonal	D_{3d}	D_{3d}^6	20.5.75 ($\bar{3}m'$)	III
167.108	MSG:167.108	$R_I\bar{3}c$	$R_R\bar{3}m'$	trigonal	D_{3d}	D_{3d}^6	20.2.72 ($\bar{3}m1'$)	IV
168.109	MSG:168.109	$P6$	$P6$	hexagonal	C_6	C_6^1	21.1.76 (6)	I
168.110	MSG:168.110	$P61'$	$P61'$	hexagonal	C_6	C_6^1	21.2.77 ($61'$)	II
168.111	MSG:168.111	$P6'$	$P6'$	hexagonal	C_6	C_6^1	21.3.78 ($6'$)	III
168.112	MSG:168.112	P_c6	$P_{2c}6$	hexagonal	C_6	C_6^1	21.2.77 ($61'$)	IV
169.113	MSG:169.113	$P6_1$	$P6_1$	hexagonal	C_6	C_6^2	21.1.76 (6)	I
169.114	MSG:169.114	$P6_11'$	$P6_11'$	hexagonal	C_6	C_6^2	21.2.77 ($61'$)	II
169.115	MSG:169.115	$P6_1'$	$P6_1'$	hexagonal	C_6	C_6^2	21.3.78 ($6'$)	III
169.116	MSG:169.116	P_c6_1	$P_{2c}6_2$	hexagonal	C_6	C_6^2	21.2.77 ($61'$)	IV
170.117	MSG:170.117	$P6_5$	$P6_5$	hexagonal	C_6	C_6^3	21.1.76 (6)	I
170.118	MSG:170.118	$P6_51'$	$P6_51'$	hexagonal	C_6	C_6^3	21.2.77 ($61'$)	II
170.119	MSG:170.119	$P6_5'$	$P6_5'$	hexagonal	C_6	C_6^3	21.3.78 ($6'$)	III
170.120	MSG:170.120	P_c6_5	$P_{2c}6_4'$	hexagonal	C_6	C_6^3	21.2.77 ($61'$)	IV
171.121	MSG:171.121	$P6_2$	$P6_2$	hexagonal	C_6	C_6^4	21.1.76 (6)	I
171.122	MSG:171.122	$P6_21'$	$P6_21'$	hexagonal	C_6	C_6^4	21.2.77 ($61'$)	II
171.123	MSG:171.123	$P6_2'$	$P6_2'$	hexagonal	C_6	C_6^4	21.3.78 ($6'$)	III
171.124	MSG:171.124	P_c6_2	$P_{2c}6_4$	hexagonal	C_6	C_6^4	21.2.77 ($61'$)	IV
172.125	MSG:172.125	$P6_4$	$P6_4$	hexagonal	C_6	C_6^5	21.1.76 (6)	I
172.126	MSG:172.126	$P6_41'$	$P6_41'$	hexagonal	C_6	C_6^5	21.2.77 ($61'$)	II
172.127	MSG:172.127	$P6_4'$	$P6_4'$	hexagonal	C_6	C_6^5	21.3.78 ($6'$)	III
172.128	MSG:172.128	P_c6_4	$P_{2c}6_2'$	hexagonal	C_6	C_6^5	21.2.77 ($61'$)	IV
173.129	MSG:173.129	$P6_3$	$P6_3$	hexagonal	C_6	C_6^6	21.1.76 (6)	I
173.130	MSG:173.130	$P6_31'$	$P6_31'$	hexagonal	C_6	C_6^6	21.2.77 ($61'$)	II
173.131	MSG:173.131	$P6_3'$	$P6_3'$	hexagonal	C_6	C_6^6	21.3.78 ($6'$)	III
173.132	MSG:173.132	P_c6_3	$P_{2c}6'$	hexagonal	C_6	C_6^6	21.2.77 ($61'$)	IV
174.133	MSG:174.133	$P\bar{6}$	$P\bar{6}$	hexagonal	C_{3h}	C_{3h}^1	22.1.79 ($\bar{6}$)	I
174.134	MSG:174.134	$P\bar{6}1'$	$P\bar{6}1'$	hexagonal	C_{3h}	C_{3h}^1	22.2.80 ($\bar{6}1'$)	II
174.135	MSG:174.135	$P\bar{6}'$	$P\bar{6}'$	hexagonal	C_{3h}	C_{3h}^1	22.3.81 ($\bar{6}'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
174.136	MSG:174.136	$P_c\bar{6}$	$P_{2c}\bar{6}$	hexagonal	C_{3h}	C_{3h}^1	22.2.80 ($\bar{6}1'$)	IV
175.137	MSG:175.137	$P6/m$	$P6/m$	hexagonal	C_{6h}	C_{6h}^1	23.1.82 ($6/m$)	I
175.138	MSG:175.138	$P6/m1'$	$P6/m1'$	hexagonal	C_{6h}	C_{6h}^1	23.2.83 ($6/m1'$)	II
175.139	MSG:175.139	$P6'/m$	$P6'/m$	hexagonal	C_{6h}	C_{6h}^1	23.3.84 ($6'/m$)	III
175.140	MSG:175.140	$P6/m'$	$P6/m'$	hexagonal	C_{6h}	C_{6h}^1	23.4.85 ($6/m'$)	III
175.141	MSG:175.141	$P6'/m'$	$P6'/m'$	hexagonal	C_{6h}	C_{6h}^1	23.5.86 ($6'/m'$)	III
175.142	MSG:175.142	P_c6/m	$P_{2c}6/m$	hexagonal	C_{6h}	C_{6h}^1	23.2.83 ($6/m1'$)	IV
176.143	MSG:176.143	$P6_3/m$	$P6_3/m$	hexagonal	C_{6h}	C_{6h}^2	23.1.82 ($6/m$)	I
176.144	MSG:176.144	$P6_3/m1'$	$P6_3/m1'$	hexagonal	C_{6h}	C_{6h}^2	23.2.83 ($6/m1'$)	II
176.145	MSG:176.145	$P6_3'/m$	$P6_3'/m$	hexagonal	C_{6h}	C_{6h}^2	23.3.84 ($6'/m$)	III
176.146	MSG:176.146	$P6_3/m'$	$P6_3/m'$	hexagonal	C_{6h}	C_{6h}^2	23.4.85 ($6/m'$)	III
176.147	MSG:176.147	$P6_3'/m'$	$P6_3'/m'$	hexagonal	C_{6h}	C_{6h}^2	23.5.86 ($6'/m'$)	III
176.148	MSG:176.148	P_c6_3/m	$P_{2c}6'/m$	hexagonal	C_{6h}	C_{6h}^2	23.2.83 ($6/m1'$)	IV
177.149	MSG:177.149	$P622$	$P622$	hexagonal	D_6	D_6^1	24.1.87 (622)	I
177.150	MSG:177.150	$P6221'$	$P6221'$	hexagonal	D_6	D_6^1	24.2.88 ($6221'$)	II
177.151	MSG:177.151	$P6'2'2$	$P6'2'2$	hexagonal	D_6	D_6^1	24.5.149 ($6'22'$)	III
177.152	MSG:177.152	$P6'22'$	$P6'22'$	hexagonal	D_6	D_6^1	24.3.89 ($6'22'$)	III
177.153	MSG:177.153	$P62'2'$	$P62'2'$	hexagonal	D_6	D_6^1	24.4.90 ($62'2'$)	III
177.154	MSG:177.154	P_c622	$P_{2c}622$	hexagonal	D_6	D_6^1	24.2.88 ($6221'$)	IV
178.155	MSG:178.155	$P6_122$	$P6_122$	hexagonal	D_6	D_6^2	24.1.87 (622)	I
178.156	MSG:178.156	$P6_1221'$	$P6_1221'$	hexagonal	D_6	D_6^2	24.2.88 ($6221'$)	II
178.157	MSG:178.157	$P6_1'2'2$	$P6_1'2'2$	hexagonal	D_6	D_6^2	24.5.149 ($6'22'$)	III
178.158	MSG:178.158	$P6_1'22'$	$P6_1'22'$	hexagonal	D_6	D_6^2	24.3.89 ($6'22'$)	III
178.159	MSG:178.159	$P6_12'2'$	$P6_12'2'$	hexagonal	D_6	D_6^2	24.4.90 ($62'2'$)	III
178.160	MSG:178.160	P_c6_122	$P_{2c}6_222$	hexagonal	D_6	D_6^2	24.2.88 ($6221'$)	IV
179.161	MSG:179.161	$P6_522$	$P6_522$	hexagonal	D_6	D_6^3	24.1.87 (622)	I
179.162	MSG:179.162	$P6_5221'$	$P6_5221'$	hexagonal	D_6	D_6^3	24.2.88 ($6221'$)	II
179.163	MSG:179.163	$P6_5'2'2$	$P6_5'2'2$	hexagonal	D_6	D_6^3	24.5.149 ($6'22'$)	III
179.164	MSG:179.164	$P6_5'22'$	$P6_5'22'$	hexagonal	D_6	D_6^3	24.3.89 ($6'22'$)	III
179.165	MSG:179.165	$P6_52'2'$	$P6_52'2'$	hexagonal	D_6	D_6^3	24.4.90 ($62'2'$)	III
179.166	MSG:179.166	P_c6_522	$P_{2c}6_4'2'2$	hexagonal	D_6	D_6^3	24.2.88 ($6221'$)	IV
180.167	MSG:180.167	$P6_222$	$P6_222$	hexagonal	D_6	D_6^4	24.1.87 (622)	I
180.168	MSG:180.168	$P6_2221'$	$P6_2221'$	hexagonal	D_6	D_6^4	24.2.88 ($6221'$)	II
180.169	MSG:180.169	$P6_2'2'2$	$P6_2'2'2$	hexagonal	D_6	D_6^4	24.5.149 ($6'22'$)	III
180.170	MSG:180.170	$P6_2'22'$	$P6_2'22'$	hexagonal	D_6	D_6^4	24.3.89 ($6'22'$)	III
180.171	MSG:180.171	$P6_22'2'$	$P6_22'2'$	hexagonal	D_6	D_6^4	24.4.90 ($62'2'$)	III
180.172	MSG:180.172	P_c6_222	$P_{2c}6_422$	hexagonal	D_6	D_6^4	24.2.88 ($6221'$)	IV
181.173	MSG:181.173	$P6_422$	$P6_422$	hexagonal	D_6	D_6^5	24.1.87 (622)	I
181.174	MSG:181.174	$P6_4221'$	$P6_4221'$	hexagonal	D_6	D_6^5	24.2.88 ($6221'$)	II
181.175	MSG:181.175	$P6_4'2'2$	$P6_4'2'2$	hexagonal	D_6	D_6^5	24.5.149 ($6'22'$)	III
181.176	MSG:181.176	$P6_4'22'$	$P6_4'22'$	hexagonal	D_6	D_6^5	24.3.89 ($6'22'$)	III
181.177	MSG:181.177	$P6_42'2'$	$P6_42'2'$	hexagonal	D_6	D_6^5	24.4.90 ($62'2'$)	III
181.178	MSG:181.178	P_c6_422	$P_{2c}6_2'22'$	hexagonal	D_6	D_6^5	24.2.88 ($6221'$)	IV
182.179	MSG:182.179	$P6_322$	$P6_322$	hexagonal	D_6	D_6^6	24.1.87 (622)	I

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
182.180	MSG:182.180	$P6_322'1'$	$P6_322'1'$	hexagonal	D_6	D_6^6	24.2.88 ($6221'$)	II
182.181	MSG:182.181	$P6_3'2'2$	$P6_3'2'2$	hexagonal	D_6	D_6^6	24.5.149 ($6'22'$)	III
182.182	MSG:182.182	$P6_3'22'$	$P6_3'22'$	hexagonal	D_6	D_6^6	24.3.89 ($6'22'$)	III
182.183	MSG:182.183	$P6_32'2'$	$P6_32'2'$	hexagonal	D_6	D_6^6	24.4.90 ($62'2'$)	III
182.184	MSG:182.184	P_c6_322	$P_{2c}6'22'$	hexagonal	D_6	D_6^6	24.2.88 ($6221'$)	IV
183.185	MSG:183.185	$P6mm$	$P6mm$	hexagonal	C_{6v}	C_{6v}^1	25.1.91 ($6mm$)	I
183.186	MSG:183.186	$P6mm1'$	$P6mm1'$	hexagonal	C_{6v}	C_{6v}^1	25.2.92 ($6mm1'$)	II
183.187	MSG:183.187	$P6'm'm$	$P6'm'm$	hexagonal	C_{6v}	C_{6v}^1	25.5.150 ($6'mm'$)	III
183.188	MSG:183.188	$P6'mm'$	$P6'mm'$	hexagonal	C_{6v}	C_{6v}^1	25.3.93 ($6'mm'$)	III
183.189	MSG:183.189	$P6m'm'$	$P6m'm'$	hexagonal	C_{6v}	C_{6v}^1	25.4.94 ($6m'm'$)	III
183.190	MSG:183.190	P_c6mm	$P_{2c}6mm$	hexagonal	C_{6v}	C_{6v}^1	25.2.92 ($6mm1'$)	IV
184.191	MSG:184.191	$P6cc$	$P6cc$	hexagonal	C_{6v}	C_{6v}^2	25.1.91 ($6mm$)	I
184.192	MSG:184.192	$P6cc1'$	$P6cc1'$	hexagonal	C_{6v}	C_{6v}^2	25.2.92 ($6mm1'$)	II
184.193	MSG:184.193	$P6'c'c$	$P6'c'c$	hexagonal	C_{6v}	C_{6v}^2	25.5.150 ($6'mm'$)	III
184.194	MSG:184.194	$P6'cc'$	$P6'cc'$	hexagonal	C_{6v}	C_{6v}^2	25.3.93 ($6'mm'$)	III
184.195	MSG:184.195	$P6c'c'$	$P6c'c'$	hexagonal	C_{6v}	C_{6v}^2	25.4.94 ($6m'm'$)	III
184.196	MSG:184.196	P_c6cc	$P_{2c}6m'm'$	hexagonal	C_{6v}	C_{6v}^2	25.2.92 ($6mm1'$)	IV
185.197	MSG:185.197	$P6_3cm$	$P6_3cm$	hexagonal	C_{6v}	C_{6v}^3	25.1.91 ($6mm$)	I
185.198	MSG:185.198	$P6_3cm1'$	$P6_3cm1'$	hexagonal	C_{6v}	C_{6v}^3	25.2.92 ($6mm1'$)	II
185.199	MSG:185.199	$P6_3'c'm$	$P6_3'c'm$	hexagonal	C_{6v}	C_{6v}^3	25.5.150 ($6'mm'$)	III
185.200	MSG:185.200	$P6_3'cm'$	$P6_3'cm'$	hexagonal	C_{6v}	C_{6v}^3	25.3.93 ($6'mm'$)	III
185.201	MSG:185.201	$P6_3c'm'$	$P6_3c'm'$	hexagonal	C_{6v}	C_{6v}^3	25.4.94 ($6m'm'$)	III
185.202	MSG:185.202	P_c6_3cm	$P_{2c}6'm'm$	hexagonal	C_{6v}	C_{6v}^3	25.2.92 ($6mm1'$)	IV
186.203	MSG:186.203	$P6_3mc$	$P6_3mc$	hexagonal	C_{6v}	C_{6v}^4	25.1.91 ($6mm$)	I
186.204	MSG:186.204	$P6_3mc1'$	$P6_3mc1'$	hexagonal	C_{6v}	C_{6v}^4	25.2.92 ($6mm1'$)	II
186.205	MSG:186.205	$P6_3'm'c$	$P6_3'm'c$	hexagonal	C_{6v}	C_{6v}^4	25.5.150 ($6'mm'$)	III
186.206	MSG:186.206	$P6_3'mc'$	$P6_3'mc'$	hexagonal	C_{6v}	C_{6v}^4	25.3.93 ($6'mm'$)	III
186.207	MSG:186.207	$P6_3m'c'$	$P6_3m'c'$	hexagonal	C_{6v}	C_{6v}^4	25.4.94 ($6m'm'$)	III
186.208	MSG:186.208	P_c6_3mc	$P_{2c}6'mm'$	hexagonal	C_{6v}	C_{6v}^4	25.2.92 ($6mm1'$)	IV
187.209	MSG:187.209	$P\bar{6}m2$	$P\bar{6}m2$	hexagonal	D_{3h}	D_{3h}^1	26.1.95 ($\bar{6}m2$)	I
187.210	MSG:187.210	$P\bar{6}m21'$	$P\bar{6}m21'$	hexagonal	D_{3h}	D_{3h}^1	26.2.96 ($\bar{6}m21'$)	II
187.211	MSG:187.211	$P\bar{6}'m'2$	$P\bar{6}'m'2$	hexagonal	D_{3h}	D_{3h}^1	26.3.97 ($\bar{6}'m'2$)	III
187.212	MSG:187.212	$P\bar{6}'m2'$	$P\bar{6}'m2'$	hexagonal	D_{3h}	D_{3h}^1	26.4.98 ($\bar{6}'m2'$)	III
187.213	MSG:187.213	$P\bar{6}m'2'$	$P\bar{6}m'2'$	hexagonal	D_{3h}	D_{3h}^1	26.5.99 ($\bar{6}m'2'$)	III
187.214	MSG:187.214	$P_c\bar{6}m2$	$P_{2c}\bar{6}m2$	hexagonal	D_{3h}	D_{3h}^1	26.2.96 ($\bar{6}m21'$)	IV
188.215	MSG:188.215	$P\bar{6}c2$	$P\bar{6}c2$	hexagonal	D_{3h}	D_{3h}^2	26.1.95 ($\bar{6}m2$)	I
188.216	MSG:188.216	$P\bar{6}c21'$	$P\bar{6}c21'$	hexagonal	D_{3h}	D_{3h}^2	26.2.96 ($\bar{6}m21'$)	II
188.217	MSG:188.217	$P\bar{6}'c'2$	$P\bar{6}'c'2$	hexagonal	D_{3h}	D_{3h}^2	26.3.97 ($\bar{6}'m'2$)	III
188.218	MSG:188.218	$P\bar{6}'c2'$	$P\bar{6}'c2'$	hexagonal	D_{3h}	D_{3h}^2	26.4.98 ($\bar{6}'m2'$)	III
188.219	MSG:188.219	$P\bar{6}c'2'$	$P\bar{6}c'2'$	hexagonal	D_{3h}	D_{3h}^2	26.5.99 ($\bar{6}m'2'$)	III
188.220	MSG:188.220	$P_c\bar{6}c2$	$P_{2c}\bar{6}'m'2$	hexagonal	D_{3h}	D_{3h}^2	26.2.96 ($\bar{6}m21'$)	IV
189.221	MSG:189.221	$P\bar{6}2m$	$P\bar{6}2m$	hexagonal	$D_{3h}(1)$	D_{3h}^3	37.1.151 ($\bar{6}m2$)	I
189.222	MSG:189.222	$P\bar{6}2m1'$	$P\bar{6}2m1'$	hexagonal	$D_{3h}(1)$	D_{3h}^3	37.2.152 ($\bar{6}m21'$)	II
189.223	MSG:189.223	$P\bar{6}'2'm$	$P\bar{6}'2'm$	hexagonal	$D_{3h}(1)$	D_{3h}^3	37.4.154 ($\bar{6}'m2'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
189.224	MSG:189.224	$P\bar{6}'2m'$	$P\bar{6}'2m'$	hexagonal	$D_{3h}(1)$	D^3_{3h}	37.3.153 ($\bar{6}'m'2$)	III
189.225	MSG:189.225	$P\bar{6}2'm'$	$P\bar{6}2'm'$	hexagonal	$D_{3h}(1)$	D^3_{3h}	37.5.155 ($\bar{6}m'2'$)	III
189.226	MSG:189.226	$P_c\bar{6}2m$	$P_{2c}\bar{6}2m$	hexagonal	$D_{3h}(1)$	D^3_{3h}	37.2.152 ($\bar{6}m21'$)	IV
190.227	MSG:190.227	$P\bar{6}2c$	$P\bar{6}2c$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.1.151 ($\bar{6}m2$)	I
190.228	MSG:190.228	$P\bar{6}2c1'$	$P\bar{6}2c1'$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.2.152 ($\bar{6}m21'$)	II
190.229	MSG:190.229	$P\bar{6}'2'c$	$P\bar{6}'2'c$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.4.154 ($\bar{6}'m2'$)	III
190.230	MSG:190.230	$P\bar{6}'2c'$	$P\bar{6}'2c'$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.3.153 ($\bar{6}'m'2$)	III
190.231	MSG:190.231	$P\bar{6}2'c'$	$P\bar{6}2'c'$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.5.155 ($\bar{6}m'2'$)	III
190.232	MSG:190.232	$P_c\bar{6}2c$	$P_{2c}\bar{6}'2m'$	hexagonal	$D_{3h}(1)$	D^4_{3h}	37.2.152 ($\bar{6}m21'$)	IV
191.233	MSG:191.233	$P6/mmm$	$P6/mmm$	hexagonal	D_{6h}	D^1_{6h}	27.1.100 ($6/mmm$)	I
191.234	MSG:191.234	$P6/mmm1'$	$P6/mmm1'$	hexagonal	D_{6h}	D^1_{6h}	27.2.101 ($6/mmm1'$)	II
191.235	MSG:191.235	$P6/m'mm$	$P6/m'mm$	hexagonal	D_{6h}	D^1_{6h}	27.3.102 ($6/m'mm$)	III
191.236	MSG:191.236	$P6'/mm'm$	$P6'/mm'm$	hexagonal	D_{6h}	D^1_{6h}	27.8.156 ($6'/mmm'$)	III
191.237	MSG:191.237	$P6'/mmm'$	$P6'/mmm'$	hexagonal	D_{6h}	D^1_{6h}	27.4.103 ($6'/mmm'$)	III
191.238	MSG:191.238	$P6'/m'm'm$	$P6'/m'm'm$	hexagonal	D_{6h}	D^1_{6h}	27.9.157 ($6'/m'mm'$)	III
191.239	MSG:191.239	$P6'/m'mm'$	$P6'/m'mm'$	hexagonal	D_{6h}	D^1_{6h}	27.5.104 ($6'/m'mm'$)	III
191.240	MSG:191.240	$P6/mm'm'$	$P6/mm'm'$	hexagonal	D_{6h}	D^1_{6h}	27.6.105 ($6/mm'm'$)	III
191.241	MSG:191.241	$P6/m'm'm'$	$P6/m'm'm'$	hexagonal	D_{6h}	D^1_{6h}	27.7.106 ($6/m'm'm'$)	III
191.242	MSG:191.242	P_c6/mmm	$P_{2c}6/mmm$	hexagonal	D_{6h}	D^1_{6h}	27.2.101 ($6/mmm1'$)	IV
192.243	MSG:192.243	$P6/mcc$	$P6/mcc$	hexagonal	D_{6h}	D^2_{6h}	27.1.100 ($6/mmm$)	I
192.244	MSG:192.244	$P6/mcc1'$	$P6/mcc1'$	hexagonal	D_{6h}	D^2_{6h}	27.2.101 ($6/mmm1'$)	II
192.245	MSG:192.245	$P6/m'cc$	$P6/m'cc$	hexagonal	D_{6h}	D^2_{6h}	27.3.102 ($6/m'mm$)	III
192.246	MSG:192.246	$P6'/mc'c$	$P6'/mc'c$	hexagonal	D_{6h}	D^2_{6h}	27.8.156 ($6'/mmm'$)	III
192.247	MSG:192.247	$P6'/mcc'$	$P6'/mcc'$	hexagonal	D_{6h}	D^2_{6h}	27.4.103 ($6'/mmm'$)	III
192.248	MSG:192.248	$P6'/m'c'c$	$P6'/m'c'c$	hexagonal	D_{6h}	D^2_{6h}	27.9.157 ($6'/m'mm'$)	III
192.249	MSG:192.249	$P6'/m'cc'$	$P6'/m'cc'$	hexagonal	D_{6h}	D^2_{6h}	27.5.104 ($6'/m'mm'$)	III
192.250	MSG:192.250	$P6/mc'c'$	$P6/mc'c'$	hexagonal	D_{6h}	D^2_{6h}	27.6.105 ($6/mm'm'$)	III
192.251	MSG:192.251	$P6/m'c'c'$	$P6/m'c'c'$	hexagonal	D_{6h}	D^2_{6h}	27.7.106 ($6/m'm'm'$)	III
192.252	MSG:192.252	P_c6/mcc	$P_{2c}6/mm'm'$	hexagonal	D_{6h}	D^2_{6h}	27.2.101 ($6/mmm1'$)	IV
193.253	MSG:193.253	$P6_3/mcm$	$P6_3/mcm$	hexagonal	D_{6h}	D^3_{6h}	27.1.100 ($6/mmm$)	I
193.254	MSG:193.254	$P6_3/mcm1'$	$P6_3/mcm1'$	hexagonal	D_{6h}	D^3_{6h}	27.2.101 ($6/mmm1'$)	II
193.255	MSG:193.255	$P6_3/m'cm$	$P6_3/m'cm$	hexagonal	D_{6h}	D^3_{6h}	27.3.102 ($6/m'mm$)	III
193.256	MSG:193.256	$P6'_3/mc'm$	$P6'_3/mc'm$	hexagonal	D_{6h}	D^3_{6h}	27.8.156 ($6'/mmm'$)	III
193.257	MSG:193.257	$P6'_3/mcm'$	$P6'_3/mcm'$	hexagonal	D_{6h}	D^3_{6h}	27.4.103 ($6'/mmm'$)	III
193.258	MSG:193.258	$P6'_3/m'c'm$	$P6'_3/m'c'm$	hexagonal	D_{6h}	D^3_{6h}	27.9.157 ($6'/m'mm'$)	III
193.259	MSG:193.259	$P6'_3/m'cm'$	$P6'_3/m'cm'$	hexagonal	D_{6h}	D^3_{6h}	27.5.104 ($6'/m'mm'$)	III
193.260	MSG:193.260	$P6_3/mc'm'$	$P6_3/mc'm'$	hexagonal	D_{6h}	D^3_{6h}	27.6.105 ($6/mm'm'$)	III
193.261	MSG:193.261	$P6_3/m'c'm'$	$P6_3/m'c'm'$	hexagonal	D_{6h}	D^3_{6h}	27.7.106 ($6/m'm'm'$)	III
193.262	MSG:193.262	P_c6_3/mcm	$P_{2c}6'/mm'm$	hexagonal	D_{6h}	D^3_{6h}	27.2.101 ($6/mmm1'$)	IV
194.263	MSG:194.263	$P6_3/mmc$	$P6_3/mmc$	hexagonal	D_{6h}	D^4_{6h}	27.1.100 ($6/mmm$)	I
194.264	MSG:194.264	$P6_3/mmc1'$	$P6_3/mmc1'$	hexagonal	D_{6h}	D^4_{6h}	27.2.101 ($6/mmm1'$)	II
194.265	MSG:194.265	$P6_3/m'mc$	$P6_3/m'mc$	hexagonal	D_{6h}	D^4_{6h}	27.3.102 ($6/m'mm$)	III
194.266	MSG:194.266	$P6'_3/mm'c$	$P6'_3/mm'c$	hexagonal	D_{6h}	D^4_{6h}	27.8.156 ($6'/mmm'$)	III
194.267	MSG:194.267	$P6'_3/mmc'$	$P6'_3/mmc'$	hexagonal	D_{6h}	D^4_{6h}	27.4.103 ($6'/mmm'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
194.268	MSG:194.268	$P6'_3/m'm'c$	$P6'_3/m'm'c$	hexagonal	D_{6h}	D^4_{6h}	27.9.157 $(6'/m'mm')$	III
194.269	MSG:194.269	$P6'_3/m'mc'$	$P6'_3/m'mc'$	hexagonal	D_{6h}	D^4_{6h}	27.5.104 $(6'/m'mm')$	III
194.270	MSG:194.270	$P6_3/mm'c'$	$P6_3/mm'c'$	hexagonal	D_{6h}	D^4_{6h}	27.6.105 $(6/mm'm')$	III
194.271	MSG:194.271	$P6_3/m'm'c'$	$P6_3/m'm'c'$	hexagonal	D_{6h}	D^4_{6h}	27.7.106 $(6/m'm'm')$	III
194.272	MSG:194.272	P_c6_3/mmc	$P_{2c}6'/mmm'$	hexagonal	D_{6h}	D^4_{6h}	27.2.101 $(6/mmm1')$	IV
195.1	MSG:195.1	$P23$	$P23$	cubic	T	T^1	28.1.107 (23)	I
195.2	MSG:195.2	$P231'$	$P231'$	cubic	T	T^1	28.2.108 $(231')$	II
195.3	MSG:195.3	P_I23	I_P23	cubic	T	T^1	28.2.108 $(231')$	IV
196.4	MSG:196.4	$F23$	$F23$	cubic	T	T^2	28.1.107 (23)	I
196.5	MSG:196.5	$F231'$	$F231'$	cubic	T	T^2	28.2.108 $(231')$	II
196.6	MSG:196.6	F_S23	P_F23	cubic	T	T^2	28.2.108 $(231')$	IV
197.7	MSG:197.7	$I23$	$I23$	cubic	T	T^3	28.1.107 (23)	I
197.8	MSG:197.8	$I231'$	$I231'$	cubic	T	T^3	28.2.108 $(231')$	II
198.9	MSG:198.9	$P2_13$	$P2_13$	cubic	T	T^4	28.1.107 (23)	I
198.10	MSG:198.10	$P2_131'$	$P2_131'$	cubic	T	T^4	28.2.108 $(231')$	II
198.11	MSG:198.11	P_I2_13	I_P2_13	cubic	T	T^4	28.2.108 $(231')$	IV
199.12	MSG:199.12	$I2_13$	$I2_13$	cubic	T	T^5	28.1.107 (23)	I
199.13	MSG:199.13	$I2_131'$	$I2_131'$	cubic	T	T^5	28.2.108 $(231')$	II
200.14	MSG:200.14	$Pm\bar{3}$	$Pm\bar{3}$	cubic	T_h	T^1_h	29.1.109 $(m\bar{3})$	I
200.15	MSG:200.15	$Pm\bar{3}1'$	$Pm\bar{3}1'$	cubic	T_h	T^1_h	29.2.110 $(m\bar{3}1')$	II
200.16	MSG:200.16	$Pm'\bar{3}'$	$Pm'\bar{3}'$	cubic	T_h	T^1_h	29.3.111 $(m'\bar{3}')$	III
200.17	MSG:200.17	$P_Im\bar{3}$	$I_Pm\bar{3}$	cubic	T_h	T^1_h	29.2.110 $(m\bar{3}1')$	IV
201.18	MSG:201.18	$Pn\bar{3}$	$Pn\bar{3}$	cubic	T_h	T^2_h	29.1.109 $(m\bar{3})$	I
201.19	MSG:201.19	$Pn\bar{3}1'$	$Pn\bar{3}1'$	cubic	T_h	T^2_h	29.2.110 $(m\bar{3}1')$	II
201.20	MSG:201.20	$Pn'\bar{3}'$	$Pn'\bar{3}'$	cubic	T_h	T^2_h	29.3.111 $(m'\bar{3}')$	III
201.21	MSG:201.21	$P_In\bar{3}$	$I_Pm'\bar{3}'$	cubic	T_h	T^2_h	29.2.110 $(m\bar{3}1')$	IV
202.22	MSG:202.22	$Fm\bar{3}$	$Fm\bar{3}$	cubic	T_h	T^3_h	29.1.109 $(m\bar{3})$	I
202.23	MSG:202.23	$Fm\bar{3}1'$	$Fm\bar{3}1'$	cubic	T_h	T^3_h	29.2.110 $(m\bar{3}1')$	II
202.24	MSG:202.24	$Fm'\bar{3}'$	$Fm'\bar{3}'$	cubic	T_h	T^3_h	29.3.111 $(m'\bar{3}')$	III
202.25	MSG:202.25	$F_Sm\bar{3}$	$P_Fm\bar{3}$	cubic	T_h	T^3_h	29.2.110 $(m\bar{3}1')$	IV
203.26	MSG:203.26	$Fd\bar{3}$	$Fd\bar{3}$	cubic	T_h	T^4_h	29.1.109 $(m\bar{3})$	I
203.27	MSG:203.27	$Fd\bar{3}1'$	$Fd\bar{3}1'$	cubic	T_h	T^4_h	29.2.110 $(m\bar{3}1')$	II
203.28	MSG:203.28	$Fd'\bar{3}'$	$Fd'\bar{3}'$	cubic	T_h	T^4_h	29.3.111 $(m'\bar{3}')$	III
203.29	MSG:203.29	$F_Sd\bar{3}$	$P_Fn\bar{3}$	cubic	T_h	T^4_h	29.2.110 $(m\bar{3}1')$	IV
204.30	MSG:204.30	$Im\bar{3}$	$Im\bar{3}$	cubic	T_h	T^5_h	29.1.109 $(m\bar{3})$	I
204.31	MSG:204.31	$Im\bar{3}1'$	$Im\bar{3}1'$	cubic	T_h	T^5_h	29.2.110 $(m\bar{3}1')$	II
204.32	MSG:204.32	$Im'\bar{3}'$	$Im'\bar{3}'$	cubic	T_h	T^5_h	29.3.111 $(m'\bar{3}')$	III
205.33	MSG:205.33	$Pa\bar{3}$	$Pa\bar{3}$	cubic	T_h	T^6_h	29.1.109 $(m\bar{3})$	I
205.34	MSG:205.34	$Pa\bar{3}1'$	$Pa\bar{3}1'$	cubic	T_h	T^6_h	29.2.110 $(m\bar{3}1')$	II
205.35	MSG:205.35	$Pa'\bar{3}'$	$Pa'\bar{3}'$	cubic	T_h	T^6_h	29.3.111 $(m'\bar{3}')$	III
205.36	MSG:205.36	$P_Ia\bar{3}$	$I_Pa\bar{3}'$	cubic	T_h	T^6_h	29.2.110 $(m\bar{3}1')$	IV
206.37	MSG:206.37	$Ia\bar{3}$	$Ia\bar{3}$	cubic	T_h	T^7_h	29.1.109 $(m\bar{3})$	I
206.38	MSG:206.38	$Ia\bar{3}1'$	$Ia\bar{3}1'$	cubic	T_h	T^7_h	29.2.110 $(m\bar{3}1')$	II
206.39	MSG:206.39	$Ia'\bar{3}'$	$Ia'\bar{3}'$	cubic	T_h	T^7_h	29.3.111 $(m'\bar{3}')$	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
207.40	MSG:207.40	$P432$	$P432$	cubic	O	O^1	30.1.112 (432)	I
207.41	MSG:207.41	$P4321'$	$P4321'$	cubic	O	O^1	30.2.113 ($4321'$)	II
207.42	MSG:207.42	$P4'32'$	$P4'32'$	cubic	O	O^1	30.3.114 ($4'32'$)	III
207.43	MSG:207.43	P_I432	I_P432	cubic	O	O^1	30.2.113 ($4321'$)	IV
208.44	MSG:208.44	$P4_232$	$P4_232$	cubic	O	O^2	30.1.112 (432)	I
208.45	MSG:208.45	$P4_2321'$	$P4_2321'$	cubic	O	O^2	30.2.113 ($4321'$)	II
208.46	MSG:208.46	$P4_2'32'$	$P4_2'32'$	cubic	O	O^2	30.3.114 ($4'32'$)	III
208.47	MSG:208.47	P_I4_232	$I_P4'32'$	cubic	O	O^2	30.2.113 ($4321'$)	IV
209.48	MSG:209.48	$F432$	$F432$	cubic	O	O^3	30.1.112 (432)	I
209.49	MSG:209.49	$F4321'$	$F4321'$	cubic	O	O^3	30.2.113 ($4321'$)	II
209.50	MSG:209.50	$F4'32'$	$F4'32'$	cubic	O	O^3	30.3.114 ($4'32'$)	III
209.51	MSG:209.51	F_S432	P_F432	cubic	O	O^3	30.2.113 ($4321'$)	IV
210.52	MSG:210.52	$F4_132$	$F4_132$	cubic	O	O^4	30.1.112 (432)	I
210.53	MSG:210.53	$F4_1321'$	$F4_1321'$	cubic	O	O^4	30.2.113 ($4321'$)	II
210.54	MSG:210.54	$F4_1'32'$	$F4_1'32'$	cubic	O	O^4	30.3.114 ($4'32'$)	III
210.55	MSG:210.55	F_S4_132	P_F4_232	cubic	O	O^4	30.2.113 ($4321'$)	IV
211.56	MSG:211.56	$I432$	$I432$	cubic	O	O^5	30.1.112 (432)	I
211.57	MSG:211.57	$I4321'$	$I4321'$	cubic	O	O^5	30.2.113 ($4321'$)	II
211.58	MSG:211.58	$I4'32'$	$I4'32'$	cubic	O	O^5	30.3.114 ($4'32'$)	III
212.59	MSG:212.59	$P4_332$	$P4_332$	cubic	O	O^6	30.1.112 (432)	I
212.60	MSG:212.60	$P4_3321'$	$P4_3321'$	cubic	O	O^6	30.2.113 ($4321'$)	II
212.61	MSG:212.61	$P4_3'32'$	$P4_3'32'$	cubic	O	O^6	30.3.114 ($4'32'$)	III
212.62	MSG:212.62	P_I4_332	I_P4_132	cubic	O	O^6	30.2.113 ($4321'$)	IV
213.63	MSG:213.63	$P4_132$	$P4_132$	cubic	O	O^7	30.1.112 (432)	I
213.64	MSG:213.64	$P4_1321'$	$P4_1321'$	cubic	O	O^7	30.2.113 ($4321'$)	II
213.65	MSG:213.65	$P4_1'32'$	$P4_1'32'$	cubic	O	O^7	30.3.114 ($4'32'$)	III
213.66	MSG:213.66	P_I4_132	$I_P4_1'32'$	cubic	O	O^7	30.2.113 ($4321'$)	IV
214.67	MSG:214.67	$I4_132$	$I4_132$	cubic	O	O^8	30.1.112 (432)	I
214.68	MSG:214.68	$I4_1321'$	$I4_1321'$	cubic	O	O^8	30.2.113 ($4321'$)	II
214.69	MSG:214.69	$I4_1'32'$	$I4_1'32'$	cubic	O	O^8	30.3.114 ($4'32'$)	III
215.70	MSG:215.70	$P\bar{4}3m$	$P\bar{4}3m$	cubic	T_d	T_d^1	31.1.115 ($\bar{4}3m$)	I
215.71	MSG:215.71	$P\bar{4}3m1'$	$P\bar{4}3m1'$	cubic	T_d	T_d^1	31.2.116 ($\bar{4}3m1'$)	II
215.72	MSG:215.72	$P\bar{4}'3m'$	$P\bar{4}'3m'$	cubic	T_d	T_d^1	31.3.117 ($\bar{4}'3m'$)	III
215.73	MSG:215.73	$P_I\bar{4}3m$	$I_P\bar{4}3m$	cubic	T_d	T_d^1	31.2.116 ($\bar{4}3m1'$)	IV
216.74	MSG:216.74	$F\bar{4}3m$	$F\bar{4}3m$	cubic	T_d	T_d^2	31.1.115 ($\bar{4}3m$)	I
216.75	MSG:216.75	$F\bar{4}3m1'$	$F\bar{4}3m1'$	cubic	T_d	T_d^2	31.2.116 ($\bar{4}3m1'$)	II
216.76	MSG:216.76	$F\bar{4}'3m'$	$F\bar{4}'3m'$	cubic	T_d	T_d^2	31.3.117 ($\bar{4}'3m'$)	III
216.77	MSG:216.77	$F_S\bar{4}3m$	$P_F\bar{4}3m$	cubic	T_d	T_d^2	31.2.116 ($\bar{4}3m1'$)	IV
217.78	MSG:217.78	$I\bar{4}3m$	$I\bar{4}3m$	cubic	T_d	T_d^3	31.1.115 ($\bar{4}3m$)	I
217.79	MSG:217.79	$I\bar{4}3m1'$	$I\bar{4}3m1'$	cubic	T_d	T_d^3	31.2.116 ($\bar{4}3m1'$)	II
217.80	MSG:217.80	$I\bar{4}'3m'$	$I\bar{4}'3m'$	cubic	T_d	T_d^3	31.3.117 ($\bar{4}'3m'$)	III
218.81	MSG:218.81	$P\bar{4}3n$	$P\bar{4}3n$	cubic	T_d	T_d^4	31.1.115 ($\bar{4}3m$)	I
218.82	MSG:218.82	$P\bar{4}3n1'$	$P\bar{4}3n1'$	cubic	T_d	T_d^4	31.2.116 ($\bar{4}3m1'$)	II
218.83	MSG:218.83	$P\bar{4}'3n'$	$P\bar{4}'3n'$	cubic	T_d	T_d^4	31.3.117 ($\bar{4}'3m'$)	III

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
218.84	MSG:218.84	$P_I\bar{4}3n$	$I_P\bar{4}'3m'$	cubic	T_d	T_d^4	31.2.116 ($\bar{4}3m1'$)	IV
219.85	MSG:219.85	$F\bar{4}3c$	$F\bar{4}3c$	cubic	T_d	T_d^5	31.1.115 ($\bar{4}3m$)	I
219.86	MSG:219.86	$F\bar{4}3c1'$	$F\bar{4}3c1'$	cubic	T_d	T_d^5	31.2.116 ($\bar{4}3m1'$)	II
219.87	MSG:219.87	$F\bar{4}'3c'$	$F\bar{4}'3c'$	cubic	T_d	T_d^5	31.3.117 ($\bar{4}'3m'$)	III
219.88	MSG:219.88	$F_S\bar{4}3c$	$P_F\bar{4}'3m'$	cubic	T_d	T_d^5	31.2.116 ($\bar{4}3m1'$)	IV
220.89	MSG:220.89	$I\bar{4}3d$	$I\bar{4}3d$	cubic	T_d	T_d^6	31.1.115 ($\bar{4}3m$)	I
220.90	MSG:220.90	$I\bar{4}3d1'$	$I\bar{4}3d1'$	cubic	T_d	T_d^6	31.2.116 ($\bar{4}3m1'$)	II
220.91	MSG:220.91	$I\bar{4}'3d'$	$I\bar{4}'3d'$	cubic	T_d	T_d^6	31.3.117 ($\bar{4}'3m'$)	III
221.92	MSG:221.92	$Pm\bar{3}m$	$Pm\bar{3}m$	cubic	O_h	O_h^1	32.1.118 ($m\bar{3}m$)	I
221.93	MSG:221.93	$Pm\bar{3}m1'$	$Pm\bar{3}m1'$	cubic	O_h	O_h^1	32.2.119 ($m\bar{3}m1'$)	II
221.94	MSG:221.94	$Pm'\bar{3}'m$	$Pm'\bar{3}'m$	cubic	O_h	O_h^1	32.3.120 ($m'\bar{3}'m$)	III
221.95	MSG:221.95	$Pm\bar{3}m'$	$Pm\bar{3}m'$	cubic	O_h	O_h^1	32.4.121 ($m\bar{3}m'$)	III
221.96	MSG:221.96	$Pm'\bar{3}'m'$	$Pm'\bar{3}'m'$	cubic	O_h	O_h^1	32.5.122 ($m'\bar{3}'m'$)	III
221.97	MSG:221.97	$P_Im\bar{3}m$	$I_Pm\bar{3}m$	cubic	O_h	O_h^1	32.2.119 ($m\bar{3}m1'$)	IV
222.98	MSG:222.98	$Pn\bar{3}n$	$Pn\bar{3}n$	cubic	O_h	O_h^2	32.1.118 ($m\bar{3}m$)	I
222.99	MSG:222.99	$Pn\bar{3}n1'$	$Pn\bar{3}n1'$	cubic	O_h	O_h^2	32.2.119 ($m\bar{3}m1'$)	II
222.100	MSG:222.100	$Pn'\bar{3}'n$	$Pn'\bar{3}'n$	cubic	O_h	O_h^2	32.3.120 ($m'\bar{3}'m$)	III
222.101	MSG:222.101	$Pn\bar{3}n'$	$Pn\bar{3}n'$	cubic	O_h	O_h^2	32.4.121 ($m\bar{3}m'$)	III
222.102	MSG:222.102	$Pn'\bar{3}'n'$	$Pn'\bar{3}'n'$	cubic	O_h	O_h^2	32.5.122 ($m'\bar{3}'m'$)	III
222.103	MSG:222.103	$P_In\bar{3}n$	$I_Pm'\bar{3}'m'$	cubic	O_h	O_h^2	32.2.119 ($m\bar{3}m1'$)	IV
223.104	MSG:223.104	$Pm\bar{3}n$	$Pm\bar{3}n$	cubic	O_h	O_h^3	32.1.118 ($m\bar{3}m$)	I
223.105	MSG:223.105	$Pm\bar{3}n1'$	$Pm\bar{3}n1'$	cubic	O_h	O_h^3	32.2.119 ($m\bar{3}m1'$)	II
223.106	MSG:223.106	$Pm'\bar{3}'n$	$Pm'\bar{3}'n$	cubic	O_h	O_h^3	32.3.120 ($m'\bar{3}'m$)	III
223.107	MSG:223.107	$Pm\bar{3}n'$	$Pm\bar{3}n'$	cubic	O_h	O_h^3	32.4.121 ($m\bar{3}m'$)	III
223.108	MSG:223.108	$Pm'\bar{3}'n'$	$Pm'\bar{3}'n'$	cubic	O_h	O_h^3	32.5.122 ($m'\bar{3}'m'$)	III
223.109	MSG:223.109	$P_Im\bar{3}n$	$I_Pm\bar{3}m'$	cubic	O_h	O_h^3	32.2.119 ($m\bar{3}m1'$)	IV
224.110	MSG:224.110	$Pn\bar{3}m$	$Pn\bar{3}m$	cubic	O_h	O_h^4	32.1.118 ($m\bar{3}m$)	I
224.111	MSG:224.111	$Pn\bar{3}m1'$	$Pn\bar{3}m1'$	cubic	O_h	O_h^4	32.2.119 ($m\bar{3}m1'$)	II
224.112	MSG:224.112	$Pn'\bar{3}'m$	$Pn'\bar{3}'m$	cubic	O_h	O_h^4	32.3.120 ($m'\bar{3}'m$)	III
224.113	MSG:224.113	$Pn\bar{3}m'$	$Pn\bar{3}m'$	cubic	O_h	O_h^4	32.4.121 ($m\bar{3}m'$)	III
224.114	MSG:224.114	$Pn'\bar{3}'m'$	$Pn'\bar{3}'m'$	cubic	O_h	O_h^4	32.5.122 ($m'\bar{3}'m'$)	III
224.115	MSG:224.115	$P_In\bar{3}m$	$I_Pm'\bar{3}'m$	cubic	O_h	O_h^4	32.2.119 ($m\bar{3}m1'$)	IV
225.116	MSG:225.116	$Fm\bar{3}m$	$Fm\bar{3}m$	cubic	O_h	O_h^5	32.1.118 ($m\bar{3}m$)	I
225.117	MSG:225.117	$Fm\bar{3}m1'$	$Fm\bar{3}m1'$	cubic	O_h	O_h^5	32.2.119 ($m\bar{3}m1'$)	II
225.118	MSG:225.118	$Fm'\bar{3}'m$	$Fm'\bar{3}'m$	cubic	O_h	O_h^5	32.3.120 ($m'\bar{3}'m$)	III
225.119	MSG:225.119	$Fm\bar{3}m'$	$Fm\bar{3}m'$	cubic	O_h	O_h^5	32.4.121 ($m\bar{3}m'$)	III
225.120	MSG:225.120	$Fm'\bar{3}'m'$	$Fm'\bar{3}'m'$	cubic	O_h	O_h^5	32.5.122 ($m'\bar{3}'m'$)	III
225.121	MSG:225.121	$F_Sm\bar{3}m$	$P_Fm\bar{3}m$	cubic	O_h	O_h^5	32.2.119 ($m\bar{3}m1'$)	IV
226.122	MSG:226.122	$Fm\bar{3}c$	$Fm\bar{3}c$	cubic	O_h	O_h^6	32.1.118 ($m\bar{3}m$)	I
226.123	MSG:226.123	$Fm\bar{3}c1'$	$Fm\bar{3}c1'$	cubic	O_h	O_h^6	32.2.119 ($m\bar{3}m1'$)	II
226.124	MSG:226.124	$Fm'\bar{3}'c$	$Fm'\bar{3}'c$	cubic	O_h	O_h^6	32.3.120 ($m'\bar{3}'m$)	III
226.125	MSG:226.125	$Fm\bar{3}c'$	$Fm\bar{3}c'$	cubic	O_h	O_h^6	32.4.121 ($m\bar{3}m'$)	III
226.126	MSG:226.126	$Fm'\bar{3}'c'$	$Fm'\bar{3}'c'$	cubic	O_h	O_h^6	32.5.122 ($m'\bar{3}'m'$)	III
226.127	MSG:226.127	$F_Sm\bar{3}c$	$P_Fm\bar{3}m'$	cubic	O_h	O_h^6	32.2.119 ($m\bar{3}m1'$)	IV

continued ...

Table 1

ID	tag	BNS	OG	crystal	PG	SG	MPG	type
227.128	MSG:227.128	$Fd\bar{3}m$	$Fd\bar{3}m$	cubic	O_h	O_h^7	32.1.118 $(m\bar{3}m)$	I
227.129	MSG:227.129	$Fd\bar{3}m1'$	$Fd\bar{3}m1'$	cubic	O_h	O_h^7	32.2.119 $(m\bar{3}m1')$	II
227.130	MSG:227.130	$Fd'\bar{3}'m$	$Fd'\bar{3}'m$	cubic	O_h	O_h^7	32.3.120 $(m'\bar{3}'m)$	III
227.131	MSG:227.131	$Fd\bar{3}m'$	$Fd\bar{3}m'$	cubic	O_h	O_h^7	32.4.121 $(m\bar{3}m')$	III
227.132	MSG:227.132	$Fd'\bar{3}'m'$	$Fd'\bar{3}'m'$	cubic	O_h	O_h^7	32.5.122 $(m'\bar{3}'m')$	III
227.133	MSG:227.133	$F_Sd\bar{3}m$	$P_Fn\bar{3}m$	cubic	O_h	O_h^7	32.2.119 $(m\bar{3}m1')$	IV
228.134	MSG:228.134	$Fd\bar{3}c$	$Fd\bar{3}c$	cubic	O_h	O_h^8	32.1.118 $(m\bar{3}m)$	I
228.135	MSG:228.135	$Fd\bar{3}c1'$	$Fd\bar{3}c1'$	cubic	O_h	O_h^8	32.2.119 $(m\bar{3}m1')$	II
228.136	MSG:228.136	$Fd'\bar{3}'c$	$Fd'\bar{3}'c$	cubic	O_h	O_h^8	32.3.120 $(m'\bar{3}'m)$	III
228.137	MSG:228.137	$Fd\bar{3}c'$	$Fd\bar{3}c'$	cubic	O_h	O_h^8	32.4.121 $(m\bar{3}m')$	III
228.138	MSG:228.138	$Fd'\bar{3}'c'$	$Fd'\bar{3}'c'$	cubic	O_h	O_h^8	32.5.122 $(m'\bar{3}'m')$	III
228.139	MSG:228.139	$F_Sd\bar{3}c$	$P_Fn\bar{3}m'$	cubic	O_h	O_h^8	32.2.119 $(m\bar{3}m1')$	IV
229.140	MSG:229.140	$Im\bar{3}m$	$Im\bar{3}m$	cubic	O_h	O_h^9	32.1.118 $(m\bar{3}m)$	I
229.141	MSG:229.141	$Im\bar{3}m1'$	$Im\bar{3}m1'$	cubic	O_h	O_h^9	32.2.119 $(m\bar{3}m1')$	II
229.142	MSG:229.142	$Im'\bar{3}'m$	$Im'\bar{3}'m$	cubic	O_h	O_h^9	32.3.120 $(m'\bar{3}'m)$	III
229.143	MSG:229.143	$Im\bar{3}m'$	$Im\bar{3}m'$	cubic	O_h	O_h^9	32.4.121 $(m\bar{3}m')$	III
229.144	MSG:229.144	$Im'\bar{3}'m'$	$Im'\bar{3}'m'$	cubic	O_h	O_h^9	32.5.122 $(m'\bar{3}'m')$	III
230.145	MSG:230.145	$Ia\bar{3}d$	$Ia\bar{3}d$	cubic	O_h	O_h^{10}	32.1.118 $(m\bar{3}m)$	I
230.146	MSG:230.146	$Ia\bar{3}d1'$	$Ia\bar{3}d1'$	cubic	O_h	O_h^{10}	32.2.119 $(m\bar{3}m1')$	II
230.147	MSG:230.147	$Ia'\bar{3}'d$	$Ia'\bar{3}'d$	cubic	O_h	O_h^{10}	32.3.120 $(m'\bar{3}'m)$	III
230.148	MSG:230.148	$Ia\bar{3}d'$	$Ia\bar{3}d'$	cubic	O_h	O_h^{10}	32.4.121 $(m\bar{3}m')$	III
230.149	MSG:230.149	$Ia'\bar{3}'d'$	$Ia'\bar{3}'d'$	cubic	O_h	O_h^{10}	32.5.122 $(m'\bar{3}'m')$	III