

MPG No. 20.4.74 $\bar{3}'m'$ (-3'm'1 setting) [Type III, trigonal]

Table 1: Wyckoff site: 1o, site symmetry: -3'm'1

No.	position	mapping
1	[0, 0, 0]	[1,2,3,4,5,6,7,8,9,10,11,12]

Table 2: Wyckoff site: 2a, site symmetry: 3m'.

No.	position	mapping
1	[0, 0, z]	[1,2,3,10,11,12]
2	[0, 0, -z]	[4,5,6,7,8,9]

Table 3: Wyckoff site: 6b, site symmetry: .2.

No.	position	mapping
1	[x, 0, 0]	[1,4]
2	[0, x, 0]	[2,5]
3	[-x, -x, 0]	[3,6]
4	[-x, 0, 0]	[7,10]
5	[0, -x, 0]	[8,11]
6	[x, x, 0]	[9,12]

Table 4: Wyckoff site: 6c, site symmetry: .m.

No.	position	mapping
1	[x, -x, z]	[1,11]
2	[x, 2x, z]	[2,12]
3	[-2x, -x, z]	[3,10]
4	[-x, x, -z]	[5,7]
5	[2x, x, -z]	[4,9]
6	[-x, -2x, -z]	[6,8]

Table 5: Wyckoff site: 12d, site symmetry: 1

No.	position	mapping
1	[x, y, z]	[1]
2	[-y, x - y, z]	[2]
3	[-x + y, -x, z]	[3]

continued ...

Table 5

No.	position	mapping
4	$[y, x, -z]$	[5]
5	$[x - y, -y, -z]$	[4]
6	$[-x, -x + y, -z]$	[6]
7	$[-x, -y, -z]$	[7]
8	$[y, -x + y, -z]$	[8]
9	$[x - y, x, -z]$	[9]
10	$[-y, -x, z]$	[11]
11	$[-x + y, y, z]$	[10]
12	$[x, x - y, z]$	[12]