MSG No. 156.52 P_c3m1 [Type IV, trigonal]

Table 1: Wyckoff site: `2a`, site symmetry: `3m`.

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,3,4,5,6]`
2	$\left[0,\ 0,\ z+\frac{1}{2}\right]$	`[7,8,9,10,11,12]`

Table 2: Wyckoff site: `2b`, site symmetry: `3m`.

No.	position	mapping
1	$\left[\frac{1}{3},\ \frac{2}{3},\ z\right]$	`[1,2,3,4,5,6]`
2	$\left[\frac{1}{3},\ \frac{2}{3},\ z+\frac{1}{2}\right]$	`[7,8,9,10,11,12]`

Table 3: Wyckoff site: `2c`, site symmetry: `3m`.

No.	position	mapping
1	$\left[\frac{2}{3},\ \frac{1}{3},\ z\right]$	`[1,2,3,4,5,6]`
2	$\left[\frac{2}{3},\ \frac{1}{3},\ z+\frac{1}{2}\right]$	`[7,8,9,10,11,12]`

Table 4: Wyckoff site: `6d`, site symmetry: `.m.`.

No.	position	mapping
1	$[x,\ -x,\ z]$	`[1,5]`
2	$[x,\ 2x,\ z]$	`[2,6]`
3	$[-2x,\ -x,\ z]$	`[3,4]`
4	$\left[x,\ -x,\ z+\frac{1}{2}\right]$	`[7,11]`
5	$\left[x,\ 2x,\ z+\frac{1}{2}\right]$	`[8,12]`
6	$\left[-2x,\ -x,\ z+\frac{1}{2}\right]$	`[9,10]`

Table 5: Wyckoff site: `12e`, site symmetry: `1`

No.	position	mapping
1	$[x,\ y,\ z]$	`[1]`
2	$[-y,\ x-y,\ z]$	`[2]`
3	$[-x+y,\ -x,\ z]$	`[3]`
4	$[-x+y,\ y,\ z]$	`[4]`
5	$[-y,\ -x,\ z]$	`[5]`
6	$[x,\ x-y,\ z]$	`[6]`

continued ...

Table 5

No.	position	mapping
7	$\left[x,\, y,\, z+\frac{1}{2}\right]$	[7]
8	$\left[-y,\, x-y,\, z+\frac{1}{2}\right]$	[8]
9	$\left[-x+y,\, -x,\, z+\frac{1}{2}\right]$	[9]
10	$\left[-x+y,\, y,\, z+\frac{1}{2}\right]$	[10]
11	$\left[-y,\, -x,\, z+\frac{1}{2}\right]$	[11]
12	$\left[x,\, x-y,\, z+\frac{1}{2}\right]$	[12]