MSG No. 101.184 P_c4_2cm [Type IV, tetragonal]

Table 1: Wyckoff site: `2a`, site symmetry: `4'm'm`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,4,7,8,10,11,13,14]`
2	$\left[0,\ 0,\ z+\frac{1}{2}\right]$	`[2,3,5,6,9,12,15,16]`

Table 2: Wyckoff site: `2b`, site symmetry: `4'm'm`

No.	position	mapping
1	$\left[\frac{1}{2},\ \frac{1}{2},\ z\right]$	`[1,4,7,8,10,11,13,14]`
2	$\left[\frac{1}{2},\ \frac{1}{2},\ z+\frac{1}{2}\right]$	`[2,3,5,6,9,12,15,16]`

Table 3: Wyckoff site: `4c`, site symmetry: `2m'm'.`

No.	position	mapping
1	$\left[\frac{1}{2},\ 0,\ z\right]$	`[1,4,13,14]`
2	$\left[0,\ \frac{1}{2},\ z+\frac{1}{2}\right]$	`[2,3,15,16]`
3	$\left[\frac{1}{2},\ 0,\ z+\frac{1}{2}\right]$	`[5,6,9,12]`
4	$\left[0,\ \frac{1}{2},\ z\right]$	`[7,8,10,11]`

Table 4: Wyckoff site: `8d`, site symmetry: `..m`

No.	position	mapping
1	$[x,\ x,\ z]$	`[1,8]`
2	$\left[-x,\ x,\ z+\frac{1}{2}\right]$	`[2,5]`
3	$\left[x,\ -x,\ z+\frac{1}{2}\right]$	`[3,6]`
4	$[-x,\ -x,\ z]$	`[4,7]`
5	$\left[x,\ x,\ z+\frac{1}{2}\right]$	`[9,16]`
6	$[-x,\ x,\ z]$	`[10,13]`
7	$[x,\ -x,\ z]$	`[11,14]`
8	$\left[-x,\ -x,\ z+\frac{1}{2}\right]$	`[12,15]`

Table 5: Wyckoff site: `8e`, site symmetry: `.m'.`

No.	position	mapping
1	$[x,\ 0,\ z]$	`[1,14]`
2	$\left[0,\ x,\ z+\frac{1}{2}\right]$	`[2,16]`

continued ...

Table 5

No.	position	mapping
3	$\left[0,\, -x,\, z+\frac{1}{2}\right]$	[3,15]
4	$[-x,\, 0,\, z]$	[4,13]
5	$\left[-x,\, 0,\, z+\frac{1}{2}\right]$	[5,12]
6	$\left[x,\, 0,\, z+\frac{1}{2}\right]$	[6,9]
7	$[0,\, -x,\, z]$	[7,11]
8	$[0,\, x,\, z]$	[8,10]

Table 6: Wyckoff site: 8f, site symmetry: .m'.

No.	position	mapping
1	$\left[x,\, \frac{1}{2},\, z\right]$	[1,14]
2	$\left[\frac{1}{2},\, x,\, z+\frac{1}{2}\right]$	[2,16]
3	$\left[\frac{1}{2},\, -x,\, z+\frac{1}{2}\right]$	[3,15]
4	$\left[-x,\, \frac{1}{2},\, z\right]$	[4,13]
5	$\left[-x,\, \frac{1}{2},\, z+\frac{1}{2}\right]$	[5,12]
6	$\left[x,\, \frac{1}{2},\, z+\frac{1}{2}\right]$	[6,9]
7	$\left[\frac{1}{2},\, -x,\, z\right]$	[7,11]
8	$\left[\frac{1}{2},\, x,\, z\right]$	[8,10]

Table 7: Wyckoff site: 16g, site symmetry: 1

No.	position	mapping
1	$[x,\, y,\, z]$	[1]
2	$\left[-y,\, x,\, z+\frac{1}{2}\right]$	[2]
3	$\left[y,\, -x,\, z+\frac{1}{2}\right]$	[3]
4	$[-x,\, -y,\, z]$	[4]
5	$\left[-x,\, y,\, z+\frac{1}{2}\right]$	[5]
6	$\left[x,\, -y,\, z+\frac{1}{2}\right]$	[6]
7	$[-y,\, -x,\, z]$	[7]
8	$[y,\, x,\, z]$	[8]
9	$\left[x,\, y,\, z+\frac{1}{2}\right]$	[9]
10	$[-y,\, x,\, z]$	[10]
11	$[y,\, -x,\, z]$	[11]
12	$\left[-x,\, -y,\, z+\frac{1}{2}\right]$	[12]
13	$[-x,\, y,\, z]$	[13]
14	$[x,\, -y,\, z]$	[14]
15	$\left[-y,\, -x,\, z+\frac{1}{2}\right]$	[15]
16	$\left[y,\, x,\, z+\frac{1}{2}\right]$	[16]