MSG No. 12.62 $C2'/m'$ [Type III, monoclinic]

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

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

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

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

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

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

Table 4: Wyckoff site: `2d`, site symmetry: `2'/m'`

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

Table 5: Wyckoff site: `4e`, site symmetry: `-1`

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

Table 6: Wyckoff site: `4f`, site symmetry: `-1`

No.	position	mapping
1	$\left[\frac{1}{4},\ \frac{1}{4},\ \frac{1}{2}\right]$	`[1,6]`
2	$\left[\frac{3}{4},\ \frac{3}{4},\ \frac{1}{2}\right]$	`[2,5]`
3	$\left[\frac{3}{4},\ \frac{1}{4},\ \frac{1}{2}\right]$	`[3,8]`
4	$\left[\frac{1}{4},\ \frac{3}{4},\ \frac{1}{2}\right]$	`[4,7]`

Table 7: Wyckoff site: `4g`, site symmetry: `2'`

No.	position	mapping
1	$[0,\ y,\ 0]$	`[1,3]`
2	$[0,\ -y,\ 0]$	`[2,4]`
3	$\left[\frac{1}{2},\ y+\frac{1}{2},\ 0\right]$	`[5,7]`
4	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ 0\right]$	`[6,8]`

Table 8: Wyckoff site: `4h`, site symmetry: `2'`

No.	position	mapping
1	$\left[0,\ y,\ \frac{1}{2}\right]$	`[1,3]`
2	$\left[0,\ -y,\ \frac{1}{2}\right]$	`[2,4]`
3	$\left[\frac{1}{2},\ y+\frac{1}{2},\ \frac{1}{2}\right]$	`[5,7]`
4	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ \frac{1}{2}\right]$	`[6,8]`

Table 9: Wyckoff site: `4i`, site symmetry: `m'`

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

Table 10: Wyckoff site: `8j`, site symmetry: `1`

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

continued ...

Table 10

No.	position	mapping
5	$\left[x+\frac{1}{2}, y+\frac{1}{2}, z\right]$	[5]
6	$\left[\frac{1}{2}-x, \frac{1}{2}-y, -z\right]$	[6]
7	$\left[\frac{1}{2}-x, y+\frac{1}{2}, -z\right]$	[7]
8	$\left[x+\frac{1}{2}, \frac{1}{2}-y, z\right]$	[8]