MSG No. 149.21 $P312$ [Type I, trigonal]

Table 1: Wyckoff site: `1a`, site symmetry: `3.2`

No.	position	mapping
1	$[0, 0, 0]$	`[1,2,3,4,5,6]`

Table 2: Wyckoff site: `1b`, site symmetry: `3.2`

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

Table 3: Wyckoff site: `1c`, site symmetry: `3.2`

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

Table 4: Wyckoff site: `1d`, site symmetry: `3.2`

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

Table 5: Wyckoff site: `1e`, site symmetry: `3.2`

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

Table 6: Wyckoff site: `1f`, site symmetry: `3.2`

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

Table 7: Wyckoff site: `2g`, site symmetry: `3..`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,3]`
2	$[0,\ 0,\ -z]$	`[4,5,6]`

Table 8: Wyckoff site: `2h`, site symmetry: `3..`

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

Table 9: Wyckoff site: `2i`, site symmetry: `3..`

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

Table 10: Wyckoff site: `3j`, site symmetry: `..2`

No.	position	mapping
1	$[x,\ -x,\ 0]$	`[1,6]`
2	$[x,\ 2x,\ 0]$	`[2,4]`
3	$[-2x,\ -x,\ 0]$	`[3,5]`

Table 11: Wyckoff site: `3k`, site symmetry: `..2`

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

Table 12: Wyckoff site: `6l`, site symmetry: `1`

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

continued ...

Table 12

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