MSG No. 16.3 $P2'2'2$ [Type III, orthorhombic]

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

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

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

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

Table 3: Wyckoff site: `1c`, site symmetry: `2'2'2`

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

Table 4: Wyckoff site: `1d`, site symmetry: `2'2'2`

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

Table 5: Wyckoff site: `1e`, site symmetry: `2'2'2`

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

Table 6: Wyckoff site: `1f`, site symmetry: `2'2'2`

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

Table 7: Wyckoff site: `1g`, site symmetry: `2'2'2`

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

Table 8: Wyckoff site: `1h`, site symmetry: `2'2'2`

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

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

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

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

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

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

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

Table 12: Wyckoff site: `2l`, site symmetry: `2'..`

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

Table 13: Wyckoff site: 2m, site symmetry: .2'.

No.	position	mapping
1	$[0,\ y,\ 0]$	[1,4]
2	$[0,\ -y,\ 0]$	[2,3]

Table 14: Wyckoff site: 2n, site symmetry: .2'.

No.	position	mapping
1	$\left[0,\ y,\ \frac{1}{2}\right]$	[1,4]
2	$\left[0,\ -y,\ \frac{1}{2}\right]$	[2,3]

Table 15: Wyckoff site: 2o, site symmetry: .2'.

No.	position	mapping
1	$\left[\frac{1}{2},\ y,\ 0\right]$	[1,4]
2	$\left[\frac{1}{2},\ -y,\ 0\right]$	[2,3]

Table 16: Wyckoff site: 2p, site symmetry: .2'.

No.	position	mapping
1	$\left[\frac{1}{2},\ y,\ \frac{1}{2}\right]$	[1,4]
2	$\left[\frac{1}{2},\ -y,\ \frac{1}{2}\right]$	[2,3]

Table 17: Wyckoff site: 2q, site symmetry: ..2

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

Table 18: Wyckoff site: 2r, site symmetry: ..2

No.	position	mapping
1	$\left[\frac{1}{2},\ 0,\ z\right]$	[1,2]
2	$\left[\frac{1}{2},\ 0,\ -z\right]$	[3,4]

Table 19: Wyckoff site: `2s`, site symmetry: `..2`

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

Table 20: Wyckoff site: `2t`, site symmetry: `..2`

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

Table 21: Wyckoff site: `4u`, 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]`