MSG No. 156.49 $P3m1$ [Type I, trigonal]

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

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

Table 2: Wyckoff site: 1b, site symmetry: 3m.

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

Table 3: Wyckoff site: 1c, site symmetry: 3m.

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

Table 4: Wyckoff site: 3d, site symmetry: .m.

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

Table 5: Wyckoff site: 6e, 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]