

MSG No. 156.51 $P3m'1$ [Type III, 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	$[\frac{1}{3}, \frac{2}{3}, z]$	$[1, 2, 3, 4, 5, 6]$

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

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

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	$[x, x - y, z]$	$[6]$