

MSG No. 151.31 $P3_112'$ [Type III, trigonal]

Table 1: Wyckoff site: 3a, site symmetry: $\dots 2'$

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

Table 2: Wyckoff site: 3b, site symmetry: $\dots 2'$

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

Table 3: Wyckoff site: 6c, site symmetry: 1

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