MSG No. 159.63 $P31c'$ [Type III, trigonal]

Table 1: Wyckoff site: 2a, site symmetry: 3..

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

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

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

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

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