SG No. 152 D_3^4 $P3_121$ [trigonal]

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

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

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

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

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

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