

SG No. 150 D_3^2 $P321$ [trigonal]

* plus set: + [0, 0, 0]

Table 1: Wyckoff site: 1a, site symmetry: 32.

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

Table 2: Wyckoff site: 1b, site symmetry: 32.

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

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

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

Table 4: Wyckoff site: 2d, site symmetry: 3..

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

Table 5: Wyckoff site: 3e, site symmetry: .2.

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

Table 6: Wyckoff site: 3f, site symmetry: .2.

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

continued ...

Table 6

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

Table 7: Wyckoff site: 6g, site symmetry: 1

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