

SG No. 172  $C_6^5$   $P6_4$  [ hexagonal ]

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

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

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

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

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

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	$[-x, -y, z]$	[4]
5	$[y, -x + y, z + \frac{1}{3}]$	[5]
6	$[x - y, x, z + \frac{2}{3}]$	[6]