

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