

SG No. 156  $C_{3v}^1$   $P3m1$  [ trigonal ]

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

Table 1: Wyckoff site: 1a, site symmetry:  $3m$ .

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

Table 2: Wyckoff site: 1b, site symmetry:  $3m$ .

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

Table 3: Wyckoff site: 1c, site symmetry:  $3m$ .

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

Table 4: Wyckoff site: 3d, site symmetry:  $\bar{3}m$ .

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

Table 5: Wyckoff site: 6e, 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	$[x, x - y, z]$	$[6]$