

SG No. 148 C_{3i}^2 $R\bar{3}$ [trigonal]

* plus set: $+ [0, 0, 0]$, $+ [\frac{2}{3}, \frac{1}{3}, \frac{1}{3}]$, $+ [\frac{1}{3}, \frac{2}{3}, \frac{2}{3}]$

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

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

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

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

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

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

Table 4: Wyckoff site: 9d, site symmetry: -1

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

Table 5: Wyckoff site: 9e, site symmetry: -1

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

Table 6: Wyckoff site: **18f**, site symmetry: **1**

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