

MSG No. 146.11 $R\bar{3}1'$ [Type II, trigonal]

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

No.	position	mapping
1	$[0, 0, z]$	$[1, 2, 3, 10, 11, 12]$
2	$[\frac{2}{3}, \frac{1}{3}, z + \frac{1}{3}]$	$[4, 5, 6, 13, 14, 15]$
3	$[\frac{1}{3}, \frac{2}{3}, z + \frac{2}{3}]$	$[7, 8, 9, 16, 17, 18]$

Table 2: Wyckoff site: $9b$, site symmetry: $11'$

No.	position	mapping
1	$[x, y, z]$	$[1, 10]$
2	$[-y, x - y, z]$	$[2, 11]$
3	$[-x + y, -x, z]$	$[3, 12]$
4	$[x + \frac{2}{3}, y + \frac{1}{3}, z + \frac{1}{3}]$	$[4, 13]$
5	$[\frac{2}{3} - y, x - y + \frac{1}{3}, z + \frac{1}{3}]$	$[5, 14]$
6	$[-x + y + \frac{2}{3}, \frac{1}{3} - x, z + \frac{1}{3}]$	$[6, 15]$
7	$[x + \frac{1}{3}, y + \frac{2}{3}, z + \frac{2}{3}]$	$[7, 16]$
8	$[\frac{1}{3} - y, x - y + \frac{2}{3}, z + \frac{2}{3}]$	$[8, 17]$
9	$[-x + y + \frac{1}{3}, \frac{2}{3} - x, z + \frac{2}{3}]$	$[9, 18]$