

MSG No. 146.11 $R31'$ [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]