

MSG No. 151.32 P_c3_112 [Type IV, trigonal]

Table 1: Wyckoff site: **6a**, site symmetry: $\dots 2$

No.	position	mapping
1	$[x, -x, \frac{1}{3}]$	[1,6]
2	$[x, 2x, \frac{2}{3}]$	[2,4]
3	$[-2x, -x, 0]$	[3,5]
4	$[x, -x, \frac{5}{6}]$	[7,12]
5	$[x, 2x, \frac{1}{6}]$	[8,10]
6	$[-2x, -x, \frac{1}{2}]$	[9,11]

Table 2: Wyckoff site: **6b**, site symmetry: $\dots 2'$

No.	position	mapping
1	$[x, -x, \frac{1}{12}]$	[1,12]
2	$[x, 2x, \frac{5}{12}]$	[2,10]
3	$[-2x, -x, \frac{3}{4}]$	[3,11]
4	$[x, 2x, \frac{11}{12}]$	[4,8]
5	$[-2x, -x, \frac{1}{4}]$	[5,9]
6	$[x, -x, \frac{7}{12}]$	[6,7]

Table 3: Wyckoff site: **12c**, 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	$[x, x - y, -z]$	[4]
5	$[-x + y, y, \frac{1}{3} - z]$	[5]
6	$[-y, -x, \frac{2}{3} - z]$	[6]
7	$[x, y, z + \frac{1}{2}]$	[7]
8	$[-y, x - y, z + \frac{5}{6}]$	[8]
9	$[-x + y, -x, z + \frac{1}{6}]$	[9]
10	$[x, x - y, \frac{1}{2} - z]$	[10]
11	$[-x + y, y, \frac{5}{6} - z]$	[11]
12	$[-y, -x, \frac{1}{6} - z]$	[12]