

MSG No. 100.174  $P4'bm'$  [ Type III, tetragonal ]

Table 1: Wyckoff site: 2a, site symmetry: 4' ..

No.	position	mapping
1	[0, 0, z]	[1, 2, 5, 6]
2	[\frac{1}{2}, \frac{1}{2}, z]	[3, 4, 7, 8]

Table 2: Wyckoff site: 2b, site symmetry: 2.m'm'

No.	position	mapping
1	[\frac{1}{2}, 0, z]	[1, 2, 7, 8]
2	[0, \frac{1}{2}, z]	[3, 4, 5, 6]

Table 3: Wyckoff site: 4c, site symmetry: .m'

No.	position	mapping
1	[x, x + \frac{1}{2}, z]	[1, 8]
2	[-x, \frac{1}{2} - x, z]	[2, 7]
3	[\frac{1}{2} - x, x, z]	[3, 5]
4	[x + \frac{1}{2}, -x, z]	[4, 6]

Table 4: Wyckoff site: 8d, site symmetry: 1

No.	position	mapping
1	[x, y, z]	[1]
2	[-x, -y, z]	[2]
3	[\frac{1}{2} - x, y + \frac{1}{2}, z]	[3]
4	[x + \frac{1}{2}, \frac{1}{2} - y, z]	[4]
5	[-y, x, z]	[5]
6	[y, -x, z]	[6]
7	[\frac{1}{2} - y, \frac{1}{2} - x, z]	[7]
8	[y + \frac{1}{2}, x + \frac{1}{2}, z]	[8]