

MSG No. 76.10 P_c4_1 [Type IV, tetragonal]

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

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

Table 2: Wyckoff site: 4b, site symmetry: 2' ..

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

Table 3: Wyckoff site: 4c, site symmetry: 2' ..

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

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

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