

MSG No. 95.138  $P4_32'2'$  [ Type III, tetragonal ]

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

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

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

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

Table 3: Wyckoff site: 4c, site symmetry:  $\dots 2'$

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

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

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