

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: $..2'$

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	$[-y, -x, \frac{3}{4} - z]$	$[8]$