

MSG No. 20.31 $C222_1$ [Type I, orthorhombic]

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

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

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

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

Table 3: Wyckoff site: **8c**, site symmetry: 1

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