MSG No. 64.475 $Cmc'a'$ [Type III, orthorhombic]

Table 1: Wyckoff site: `4a`, site symmetry: `2/m..`

No.	position	mapping
1	$[0,\ 0,\ 0]$	`[1,2,3,4]`
2	$\left[\frac{1}{2},\ 0,\ \frac{1}{2}\right]$	`[5,6,7,8]`
3	$\left[\frac{1}{2},\ \frac{1}{2},\ 0\right]$	`[9,10,11,12]`
4	$\left[0,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[13,14,15,16]`

Table 2: Wyckoff site: `4b`, site symmetry: `2/m..`

No.	position	mapping
1	$\left[\frac{1}{2},\ 0,\ 0\right]$	`[1,2,3,4]`
2	$\left[0,\ 0,\ \frac{1}{2}\right]$	`[5,6,7,8]`
3	$\left[0,\ \frac{1}{2},\ 0\right]$	`[9,10,11,12]`
4	$\left[\frac{1}{2},\ \frac{1}{2},\ \frac{1}{2}\right]$	`[13,14,15,16]`

Table 3: Wyckoff site: `8c`, site symmetry: `-1`

No.	position	mapping
1	$\left[\frac{1}{4},\ \frac{1}{4},\ 0\right]$	`[1,11]`
2	$\left[\frac{1}{4},\ \frac{3}{4},\ 0\right]$	`[2,12]`
3	$\left[\frac{3}{4},\ \frac{3}{4},\ 0\right]$	`[3,9]`
4	$\left[\frac{3}{4},\ \frac{1}{4},\ 0\right]$	`[4,10]`
5	$\left[\frac{1}{4},\ \frac{1}{4},\ \frac{1}{2}\right]$	`[5,15]`
6	$\left[\frac{1}{4},\ \frac{3}{4},\ \frac{1}{2}\right]$	`[6,16]`
7	$\left[\frac{3}{4},\ \frac{3}{4},\ \frac{1}{2}\right]$	`[7,13]`
8	$\left[\frac{3}{4},\ \frac{1}{4},\ \frac{1}{2}\right]$	`[8,14]`

Table 4: Wyckoff site: `8d`, site symmetry: `2..`

No.	position	mapping
1	$[x,\ 0,\ 0]$	`[1,2]`
2	$[-x,\ 0,\ 0]$	`[3,4]`
3	$\left[\frac{1}{2}-x,\ 0,\ \frac{1}{2}\right]$	`[5,6]`
4	$\left[x+\frac{1}{2},\ 0,\ \frac{1}{2}\right]$	`[7,8]`
5	$\left[x+\frac{1}{2},\ \frac{1}{2},\ 0\right]$	`[9,10]`
6	$\left[\frac{1}{2}-x,\ \frac{1}{2},\ 0\right]$	`[11,12]`
7	$\left[-x,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[13,14]`
8	$\left[x,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[15,16]`

Table 5: Wyckoff site: `8e`, site symmetry: `.2'.`

No.	position	mapping
1	$\left[\frac{1}{4},\ y,\ \frac{1}{4}\right]$	`[1,5]`
2	$\left[\frac{1}{4},\ -y,\ \frac{3}{4}\right]$	`[2,6]`
3	$\left[\frac{3}{4},\ -y,\ \frac{3}{4}\right]$	`[3,7]`
4	$\left[\frac{3}{4},\ y,\ \frac{1}{4}\right]$	`[4,8]`
5	$\left[\frac{3}{4},\ y+\frac{1}{2},\ \frac{1}{4}\right]$	`[9,13]`
6	$\left[\frac{3}{4},\ \frac{1}{2}-y,\ \frac{3}{4}\right]$	`[10,14]`
7	$\left[\frac{1}{4},\ \frac{1}{2}-y,\ \frac{3}{4}\right]$	`[11,15]`
8	$\left[\frac{1}{4},\ y+\frac{1}{2},\ \frac{1}{4}\right]$	`[12,16]`

Table 6: Wyckoff site: `8f`, site symmetry: `m..`

No.	position	mapping
1	$[0,\ y,\ z]$	`[1,4]`
2	$[0,\ -y,\ -z]$	`[2,3]`
3	$\left[\frac{1}{2},\ y,\ \frac{1}{2}-z\right]$	`[5,8]`
4	$\left[\frac{1}{2},\ -y,\ z+\frac{1}{2}\right]$	`[6,7]`
5	$\left[\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	`[9,12]`
6	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	`[10,11]`
7	$\left[0,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	`[13,16]`
8	$\left[0,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	`[14,15]`

Table 7: Wyckoff site: `16g`, site symmetry: `1`

No.	position	mapping
1	$[x,\ y,\ z]$	`[1]`
2	$[x,\ -y,\ -z]$	`[2]`
3	$[-x,\ -y,\ -z]$	`[3]`
4	$[-x,\ y,\ z]$	`[4]`
5	$\left[\frac{1}{2}-x,\ y,\ \frac{1}{2}-z\right]$	`[5]`
6	$\left[\frac{1}{2}-x,\ -y,\ z+\frac{1}{2}\right]$	`[6]`
7	$\left[x+\frac{1}{2},\ -y,\ z+\frac{1}{2}\right]$	`[7]`
8	$\left[x+\frac{1}{2},\ y,\ \frac{1}{2}-z\right]$	`[8]`
9	$\left[x+\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	`[9]`
10	$\left[x+\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	`[10]`
11	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ -z\right]$	`[11]`
12	$\left[\frac{1}{2}-x,\ y+\frac{1}{2},\ z\right]$	`[12]`
13	$\left[-x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	`[13]`
14	$\left[-x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	`[14]`
15	$\left[x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	`[15]`
16	$\left[x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	`[16]`