SG No. 66 D_{2h}^{20} $Cccm$ [orthorhombic]

* plus set: $+[0,\ 0,\ 0]$, $+\left[\frac{1}{2},\ \frac{1}{2},\ 0\right]$

Table 1: Wyckoff site: `4a`, site symmetry: `222`

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

Table 2: Wyckoff site: `4b`, site symmetry: `222`

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

Table 3: Wyckoff site: `4c`, site symmetry: `..2/m`

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

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

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

Table 5: Wyckoff site: `4e`, site symmetry: `..2/m`

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

Table 6: Wyckoff site: `4f`, site symmetry: `..2/m`

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

Table 7: Wyckoff site: `8g`, site symmetry: `2..`

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

Table 8: Wyckoff site: `8h`, site symmetry: `.2.`

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

Table 9: Wyckoff site: `8i`, site symmetry: `..2`

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

Table 10: Wyckoff site: `8j`, site symmetry: `..2`

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

Table 11: Wyckoff site: `8k`, site symmetry: `..2`

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

Table 12: Wyckoff site: `8l`, site symmetry: `..m`

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

Table 13: Wyckoff site: `16m`, site symmetry: `1`

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