SG No. 73 D_{2h}^{27} *Ibca* [orthorhombic]

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

Table 1: Wyckoff site: `8a`, site symmetry: `-1`

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

Table 2: Wyckoff site: `8b`, site symmetry: `-1`

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

Table 3: Wyckoff site: `8c`, site symmetry: `2..`

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

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

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

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

No.	position	mapping
1	$\left[0,\ \frac{1}{4},\ z\right]$	`[1,2]`

continued ...

Table 5

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

Table 6: Wyckoff site: `16f`, site symmetry: `1`

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