MSG No. 81.34 $P\bar{4}1'$ [Type II, tetragonal]

Table 1: Wyckoff site: `1a`, site symmetry: `-4..1'`

No.	position	mapping
1	$[0, 0, 0]$	`[1,2,3,4,5,6,7,8]`

Table 2: Wyckoff site: `1b`, site symmetry: `-4..1'`

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

Table 3: Wyckoff site: `1c`, site symmetry: `-4..1'`

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

Table 4: Wyckoff site: `1d`, site symmetry: `-4..1'`

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

Table 5: Wyckoff site: `2e`, site symmetry: `2..1'`

No.	position	mapping
1	$[0, 0, z]$	`[1,2,5,6]`
2	$[0, 0, -z]$	`[3,4,7,8]`

Table 6: Wyckoff site: `2f`, site symmetry: `2..1'`

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

Table 7: Wyckoff site: `2g`, site symmetry: `2..1'`

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

Table 8: Wyckoff site: `4h`, site symmetry: `11'`

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