MSG No. 100.173 $P4'b'm$ [Type III, tetragonal]

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

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

Table 2: Wyckoff site: `2b`, site symmetry: `2.mm`

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

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

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

Table 4: Wyckoff site: `8d`, site symmetry: `1`

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