

MSG No. 34.163  $P_{Cnn2}$  [ Type IV, orthorhombic ]

Table 1: Wyckoff site: **4a**, site symmetry:  $\dots 2$

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

Table 2: Wyckoff site: **4b**, site symmetry:  $\dots 2$

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

Table 3: Wyckoff site: **4c**, site symmetry:  $\dots 2'$

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

Table 4: Wyckoff site: **8d**, site symmetry:  $1$

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