

MSG No. 5.17 C_{a2} [Type IV, monoclinic]

Table 1: Wyckoff site: **4a**, site symmetry: 2

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

Table 2: Wyckoff site: **4b**, site symmetry: 2

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

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

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

Table 4: Wyckoff site: **4d**, site symmetry: $2'$

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

Table 5: Wyckoff site: **8e**, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[-x, y, -z]$	[2]

continued ...

Table 5

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