

MSG No. 8.36  $C_{2m}$  [ Type IV, monoclinic ]

Table 1: Wyckoff site: 4a, site symmetry:  $m$

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

Table 2: Wyckoff site: 4b, site symmetry:  $m'$

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

Table 3: Wyckoff site: 8c, site symmetry: 1

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