

MSG No. 17.8 $P222_11'$ [Type II, orthorhombic]

Table 1: Wyckoff site: 2a, site symmetry: $2..1'$

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

Table 2: Wyckoff site: 2b, site symmetry: $2..1'$

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

Table 3: Wyckoff site: 2c, site symmetry: $.2.1'$

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

Table 4: Wyckoff site: 2d, site symmetry: $.2.1'$

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

Table 5: Wyckoff site: 4e, site symmetry: $11'$

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