

MPG No. 11.3.37  $4'/m$  [ Type III, tetragonal ]

Table 1: Wyckoff site: **1o**, site symmetry:  $4'/\mathbf{m}$

No.	position	mapping
1	[0, 0, 0]	[1, 2, 3, 4, 5, 6, 7, 8]

Table 2: Wyckoff site: **2a**, site symmetry:  $4'..\mathbf{m}$

No.	position	mapping
1	[0, 0, $z$ ]	[1, 2, 5, 6]
2	[0, 0, $-z$ ]	[3, 4, 7, 8]

Table 3: Wyckoff site: **4b**, site symmetry:  $\mathbf{m}..\mathbf{m}$

No.	position	mapping
1	[ $x$ , $y$ , 0]	[1, 4]
2	[ $-x$ , $-y$ , 0]	[2, 3]
3	[ $-y$ , $x$ , 0]	[5, 8]
4	[ $y$ , $-x$ , 0]	[6, 7]

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

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