

MSG No. 143.2 $P31'$ [Type II, trigonal]

Table 1: Wyckoff site: 1a, site symmetry: $3..1'$

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

Table 2: Wyckoff site: 1b, site symmetry: $3..1'$

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

Table 3: Wyckoff site: 1c, site symmetry: $3..1'$

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

Table 4: Wyckoff site: 3d, site symmetry: $11'$

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