PG No. 19 C_{3v} $3m$ (3m1 setting)   [trigonal]

Table 1: Wyckoff site: 1a, site symmetry: 3m.

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

Table 2: Wyckoff site: 3b, site symmetry: .m.

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

Table 3: Wyckoff site: 6c, site symmetry: 1

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