

SG No. 146 C_3^4 R3 [trigonal]

* plus set: $+ [0, 0, 0], + [\frac{2}{3}, \frac{1}{3}, \frac{1}{3}], + [\frac{1}{3}, \frac{2}{3}, \frac{2}{3}]$

* Wyckoff site: 3a, site symmetry: 3.

Table 1: Wyckoff bond: 3a@3a

No.	vector	center	mapping
1	$[0, 0, Z]$	$[0, 0, z]$	[1,2,3]

Table 2: Wyckoff bond: 9b@3a

No.	vector	center	mapping
1	$[X, Y, Z]$	$[0, 0, z]$	[1]
2	$[-Y, X - Y, Z]$	$[0, 0, z]$	[2]
3	$[-X + Y, -X, Z]$	$[0, 0, z]$	[3]

* Wyckoff site: 9b, site symmetry: 1

Table 3: Wyckoff bond: 9a@9b

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-Y, X - Y, Z]$	$[-y, x - y, z]$	[2]
3	$[-X + Y, -X, Z]$	$[-x + y, -x, z]$	[3]