

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	$[-X + Y, -X, Z]$	$[-x + y, -x, z]$	$[3]$