

# SG No. 146 $C_3^4$ $R\bar{3}$ [ 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	$[-X + Y, -X, Z]$	$[-x + y, -x, z]$	$[3]$