

SG No. 46 C_{2v}^{22} *Ima2* [orthorhombic]

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

* Wyckoff site: **4a**, site symmetry: $. . 2$

Table 1: Wyckoff bond: **4a@4a**

No.	vector	center	mapping
1	[X, Y, 0]	[0, 0, z]	[1, -2]
2	[X, -Y, 0]	[$\frac{1}{2}$, 0, z]	[3, -4]

Table 2: Wyckoff bond: **4b@4a**

No.	vector	center	mapping
1	[0, 0, Z]	[0, 0, z]	[1, 2]
2	[0, 0, Z]	[$\frac{1}{2}$, 0, z]	[3, 4]

Table 3: Wyckoff bond: **8c@4a**

No.	vector	center	mapping
1	[X, Y, Z]	[0, 0, z]	[1]
2	[-X, -Y, Z]	[0, 0, z]	[2]
3	[X, -Y, Z]	[$\frac{1}{2}$, 0, z]	[3]
4	[-X, Y, Z]	[$\frac{1}{2}$, 0, z]	[4]

* Wyckoff site: **4b**, site symmetry: $m . .$

Table 4: Wyckoff bond: **4a@4b**

No.	vector	center	mapping
1	[0, Y, Z]	[$\frac{1}{4}$, y, z]	[1, 4]
2	[0, -Y, Z]	[$\frac{3}{4}$, -y, z]	[2, 3]

Table 5: Wyckoff bond: **4b@4b**

No.	vector	center	mapping
1	[X, 0, 0]	[$\frac{1}{4}$, y, z]	[1, -4]
2	[-X, 0, 0]	[$\frac{3}{4}$, -y, z]	[2, -3]

Table 6: Wyckoff bond: **8c@4b**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{1}{4}, y, z]$	[1]
2	$[-X, -Y, Z]$	$[\frac{3}{4}, -y, z]$	[2]
3	$[X, -Y, Z]$	$[\frac{3}{4}, -y, z]$	[3]
4	$[-X, Y, Z]$	$[\frac{1}{4}, y, z]$	[4]

* Wyckoff site: **8c**, site symmetry: **1**

Table 7: Wyckoff bond: **8a@8c**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-X, -Y, Z]$	$[-x, -y, z]$	[2]
3	$[X, -Y, Z]$	$[x + \frac{1}{2}, -y, z]$	[3]
4	$[-X, Y, Z]$	$[\frac{1}{2} - x, y, z]$	[4]