VSe_2O_6 Structure: A6B2C_tP72_103_abc5d_2d_abc-001

This structure originally had the label `A6B2C_tP72_103_abc5d_2d_abc`. Calls to that address will be redirected here.

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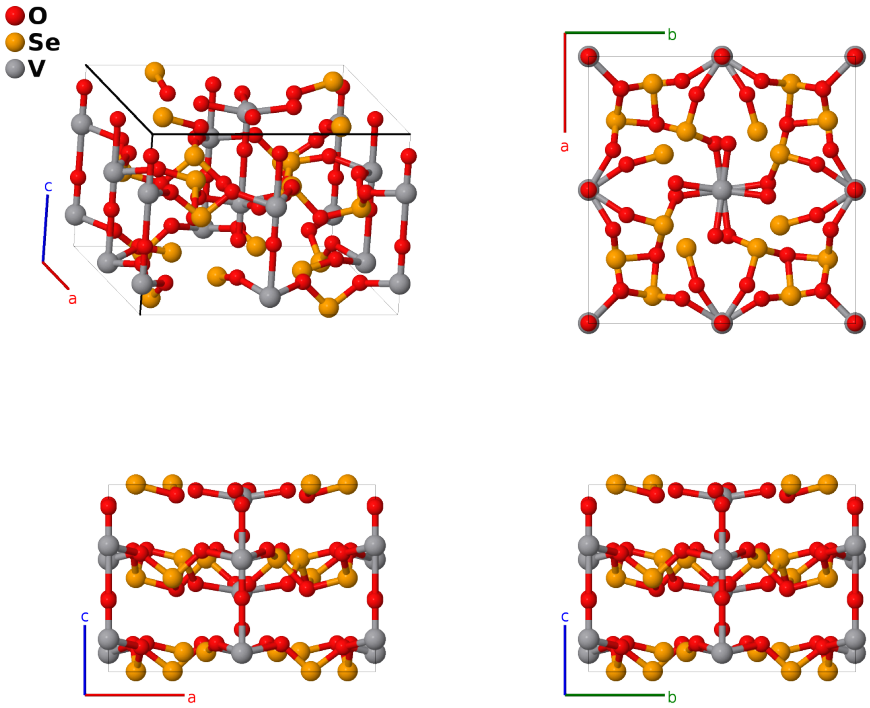
https://aflow.org/p/9ZX1

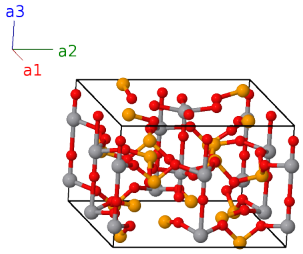
https://aflow.org/p/A6B2C_tP72_103_abc5d_2d_abc-001



Prototype	O_6Se_2V
AFLOW prototype label	A6B2C_tP72_103_abc5d_2d_abc-001
ICSD	2354
Pearson symbol	tP72
Space group number	103
Space group symbol	*P4cc*
AFLOW prototype command	`aflow --proto=A6B2C_tP72_103_abc5d_2d_abc-001 --params=`$a, c/a, z_1, z_2, z_3, z_4, z_5, z_6, x_7, y_7, z_7, x_8, y_8, z_8, x_9, y_9, z_9, x_{10}, y_{10}, z_{10}, x_{11}, y_{11}, z_{11}, x_{12}, y_{12}, z_{12}, x_{13}, y_{13}, z_{13}$

Simple Tetragonal primitive vectors

$$\mathbf{a_1} = a\,\hat{\mathbf{x}}$$
$$\mathbf{a_2} = a\,\hat{\mathbf{y}}$$
$$\mathbf{a_3} = c\,\hat{\mathbf{z}}$$



Basis vectors

		Lattice coordinates		Cartesian coordinates	Wyckoff position	Atom type
$\mathbf{B_1}$	=	$z_1\,\mathbf{a}_3$	=	$cz_1\,\hat{\mathbf{z}}$	(2a)	O I
$\mathbf{B_2}$	=	$\left(z_1+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$c\left(z_1+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(2a)	O I
$\mathbf{B_3}$	=	$z_2\,\mathbf{a}_3$	=	$cz_2\,\hat{\mathbf{z}}$	(2a)	V I
$\mathbf{B_4}$	=	$\left(z_2+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$c\left(z_2+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(2a)	V I
$\mathbf{B_5}$	=	$\frac{1}{2}\,\mathbf{a}_1+\frac{1}{2}\,\mathbf{a}_2+z_3\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+\frac{1}{2}a\,\hat{\mathbf{y}}+cz_3\,\hat{\mathbf{z}}$	(2b)	O II
$\mathbf{B_6}$	=	$\frac{1}{2}\,\mathbf{a}_1+\frac{1}{2}\,\mathbf{a}_2+\left(z_3+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+\frac{1}{2}a\,\hat{\mathbf{y}}+c\left(z_3+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(2b)	O II
$\mathbf{B_7}$	=	$\frac{1}{2}\,\mathbf{a}_1+\frac{1}{2}\,\mathbf{a}_2+z_4\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+\frac{1}{2}a\,\hat{\mathbf{y}}+cz_4\,\hat{\mathbf{z}}$	(2b)	V II
$\mathbf{B_8}$	=	$\frac{1}{2}\,\mathbf{a}_1+\frac{1}{2}\,\mathbf{a}_2+\left(z_4+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+\frac{1}{2}a\,\hat{\mathbf{y}}+c\left(z_4+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(2b)	V II
$\mathbf{B_9}$	=	$\frac{1}{2}\,\mathbf{a}_2+z_5\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{y}}+cz_5\,\hat{\mathbf{z}}$	(4c)	O III
$\mathbf{B_{10}}$	=	$\frac{1}{2}\,\mathbf{a}_1+z_5\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+cz_5\,\hat{\mathbf{z}}$	(4c)	O III
$\mathbf{B_{11}}$	=	$\frac{1}{2}\,\mathbf{a}_2+\left(z_5+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{y}}+c\left(z_5+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(4c)	O III
$\mathbf{B_{12}}$	=	$\frac{1}{2}\,\mathbf{a}_1+\left(z_5+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+c\left(z_5+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(4c)	O III
$\mathbf{B_{13}}$	=	$\frac{1}{2}\,\mathbf{a}_2+z_6\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{y}}+cz_6\,\hat{\mathbf{z}}$	(4c)	V III
$\mathbf{B_{14}}$	=	$\frac{1}{2}\,\mathbf{a}_1+z_6\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+cz_6\,\hat{\mathbf{z}}$	(4c)	V III
$\mathbf{B_{15}}$	=	$\frac{1}{2}\,\mathbf{a}_2+\left(z_6+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{y}}+c\left(z_6+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(4c)	V III
$\mathbf{B_{16}}$	=	$\frac{1}{2}\,\mathbf{a}_1+\left(z_6+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$\frac{1}{2}a\,\hat{\mathbf{x}}+c\left(z_6+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(4c)	V III
$\mathbf{B_{17}}$	=	$x_7\,\mathbf{a}_1+y_7\,\mathbf{a}_2+z_7\,\mathbf{a}_3$	=	$ax_7\,\hat{\mathbf{x}}+ay_7\,\hat{\mathbf{y}}+cz_7\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{18}}$	=	$-x_7\,\mathbf{a}_1-y_7\,\mathbf{a}_2+z_7\,\mathbf{a}_3$	=	$-ax_7\,\hat{\mathbf{x}}-ay_7\,\hat{\mathbf{y}}+cz_7\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{19}}$	=	$-y_7\,\mathbf{a}_1+x_7\,\mathbf{a}_2+z_7\,\mathbf{a}_3$	=	$-ay_7\,\hat{\mathbf{x}}+ax_7\,\hat{\mathbf{y}}+cz_7\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{20}}$	=	$y_7\,\mathbf{a}_1-x_7\,\mathbf{a}_2+z_7\,\mathbf{a}_3$	=	$ay_7\,\hat{\mathbf{x}}-ax_7\,\hat{\mathbf{y}}+cz_7\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{21}}$	=	$x_7\,\mathbf{a}_1-y_7\,\mathbf{a}_2+\left(z_7+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$ax_7\,\hat{\mathbf{x}}-ay_7\,\hat{\mathbf{y}}+c\left(z_7+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{22}}$	=	$-x_7\,\mathbf{a}_1+y_7\,\mathbf{a}_2+\left(z_7+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$-ax_7\,\hat{\mathbf{x}}+ay_7\,\hat{\mathbf{y}}+c\left(z_7+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{23}}$	=	$-y_7\,\mathbf{a}_1-x_7\,\mathbf{a}_2+\left(z_7+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$-ay_7\,\hat{\mathbf{x}}-ax_7\,\hat{\mathbf{y}}+c\left(z_7+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{24}}$	=	$y_7\,\mathbf{a}_1+x_7\,\mathbf{a}_2+\left(z_7+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$ay_7\,\hat{\mathbf{x}}+ax_7\,\hat{\mathbf{y}}+c\left(z_7+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O IV
$\mathbf{B_{25}}$	=	$x_8\,\mathbf{a}_1+y_8\,\mathbf{a}_2+z_8\,\mathbf{a}_3$	=	$ax_8\,\hat{\mathbf{x}}+ay_8\,\hat{\mathbf{y}}+cz_8\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{26}}$	=	$-x_8\,\mathbf{a}_1-y_8\,\mathbf{a}_2+z_8\,\mathbf{a}_3$	=	$-ax_8\,\hat{\mathbf{x}}-ay_8\,\hat{\mathbf{y}}+cz_8\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{27}}$	=	$-y_8\,\mathbf{a}_1+x_8\,\mathbf{a}_2+z_8\,\mathbf{a}_3$	=	$-ay_8\,\hat{\mathbf{x}}+ax_8\,\hat{\mathbf{y}}+cz_8\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{28}}$	=	$y_8\,\mathbf{a}_1-x_8\,\mathbf{a}_2+z_8\,\mathbf{a}_3$	=	$ay_8\,\hat{\mathbf{x}}-ax_8\,\hat{\mathbf{y}}+cz_8\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{29}}$	=	$x_8\,\mathbf{a}_1-y_8\,\mathbf{a}_2+\left(z_8+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$ax_8\,\hat{\mathbf{x}}-ay_8\,\hat{\mathbf{y}}+c\left(z_8+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{30}}$	=	$-x_8\,\mathbf{a}_1+y_8\,\mathbf{a}_2+\left(z_8+\frac{1}{2}\right)\,\mathbf{a}_3$	=	$-ax_8\,\hat{\mathbf{x}}+ay_8\,\hat{\mathbf{y}}+c\left(z_8+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O V

$\mathbf{B_{31}}$	$=$	$-y_8\,\mathbf{a}_1 - x_8\,\mathbf{a}_2 + \left(z_8+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_8\,\hat{\mathbf{x}} - ax_8\,\hat{\mathbf{y}} + c\left(z_8+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{32}}$	$=$	$y_8\,\mathbf{a}_1 + x_8\,\mathbf{a}_2 + \left(z_8+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ay_8\,\hat{\mathbf{x}} + ax_8\,\hat{\mathbf{y}} + c\left(z_8+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O V
$\mathbf{B_{33}}$	$=$	$x_9\,\mathbf{a}_1 + y_9\,\mathbf{a}_2 + z_9\,\mathbf{a}_3$	$=$	$ax_9\,\hat{\mathbf{x}} + ay_9\,\hat{\mathbf{y}} + cz_9\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{34}}$	$=$	$-x_9\,\mathbf{a}_1 - y_9\,\mathbf{a}_2 + z_9\,\mathbf{a}_3$	$=$	$-ax_9\,\hat{\mathbf{x}} - ay_9\,\hat{\mathbf{y}} + cz_9\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{35}}$	$=$	$-y_9\,\mathbf{a}_1 + x_9\,\mathbf{a}_2 + z_9\,\mathbf{a}_3$	$=$	$-ay_9\,\hat{\mathbf{x}} + ax_9\,\hat{\mathbf{y}} + cz_9\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{36}}$	$=$	$y_9\,\mathbf{a}_1 - x_9\,\mathbf{a}_2 + z_9\,\mathbf{a}_3$	$=$	$ay_9\,\hat{\mathbf{x}} - ax_9\,\hat{\mathbf{y}} + cz_9\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{37}}$	$=$	$x_9\,\mathbf{a}_1 - y_9\,\mathbf{a}_2 + \left(z_9+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ax_9\,\hat{\mathbf{x}} - ay_9\,\hat{\mathbf{y}} + c\left(z_9+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{38}}$	$=$	$-x_9\,\mathbf{a}_1 + y_9\,\mathbf{a}_2 + \left(z_9+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ax_9\,\hat{\mathbf{x}} + ay_9\,\hat{\mathbf{y}} + c\left(z_9+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{39}}$	$=$	$-y_9\,\mathbf{a}_1 - x_9\,\mathbf{a}_2 + \left(z_9+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_9\,\hat{\mathbf{x}} - ax_9\,\hat{\mathbf{y}} + c\left(z_9+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{40}}$	$=$	$y_9\,\mathbf{a}_1 + x_9\,\mathbf{a}_2 + \left(z_9+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ay_9\,\hat{\mathbf{x}} + ax_9\,\hat{\mathbf{y}} + c\left(z_9+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VI
$\mathbf{B_{41}}$	$=$	$x_{10}\,\mathbf{a}_1 + y_{10}\,\mathbf{a}_2 + z_{10}\,\mathbf{a}_3$	$=$	$ax_{10}\,\hat{\mathbf{x}} + ay_{10}\,\hat{\mathbf{y}} + cz_{10}\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{42}}$	$=$	$-x_{10}\,\mathbf{a}_1 - y_{10}\,\mathbf{a}_2 + z_{10}\,\mathbf{a}_3$	$=$	$-ax_{10}\,\hat{\mathbf{x}} - ay_{10}\,\hat{\mathbf{y}} + cz_{10}\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{43}}$	$=$	$-y_{10}\,\mathbf{a}_1 + x_{10}\,\mathbf{a}_2 + z_{10}\,\mathbf{a}_3$	$=$	$-ay_{10}\,\hat{\mathbf{x}} + ax_{10}\,\hat{\mathbf{y}} + cz_{10}\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{44}}$	$=$	$y_{10}\,\mathbf{a}_1 - x_{10}\,\mathbf{a}_2 + z_{10}\,\mathbf{a}_3$	$=$	$ay_{10}\,\hat{\mathbf{x}} - ax_{10}\,\hat{\mathbf{y}} + cz_{10}\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{45}}$	$=$	$x_{10}\,\mathbf{a}_1 - y_{10}\,\mathbf{a}_2 + \left(z_{10}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ax_{10}\,\hat{\mathbf{x}} - ay_{10}\,\hat{\mathbf{y}} + c\left(z_{10}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{46}}$	$=$	$-x_{10}\,\mathbf{a}_1 + y_{10}\,\mathbf{a}_2 + \left(z_{10}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ax_{10}\,\hat{\mathbf{x}} + ay_{10}\,\hat{\mathbf{y}} + c\left(z_{10}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{47}}$	$=$	$-y_{10}\,\mathbf{a}_1 - x_{10}\,\mathbf{a}_2 + \left(z_{10}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_{10}\,\hat{\mathbf{x}} - ax_{10}\,\hat{\mathbf{y}} + c\left(z_{10}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{48}}$	$=$	$y_{10}\,\mathbf{a}_1 + x_{10}\,\mathbf{a}_2 + \left(z_{10}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ay_{10}\,\hat{\mathbf{x}} + ax_{10}\,\hat{\mathbf{y}} + c\left(z_{10}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VII
$\mathbf{B_{49}}$	$=$	$x_{11}\,\mathbf{a}_1 + y_{11}\,\mathbf{a}_2 + z_{11}\,\mathbf{a}_3$	$=$	$ax_{11}\,\hat{\mathbf{x}} + ay_{11}\,\hat{\mathbf{y}} + cz_{11}\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{50}}$	$=$	$-x_{11}\,\mathbf{a}_1 - y_{11}\,\mathbf{a}_2 + z_{11}\,\mathbf{a}_3$	$=$	$-ax_{11}\,\hat{\mathbf{x}} - ay_{11}\,\hat{\mathbf{y}} + cz_{11}\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{51}}$	$=$	$-y_{11}\,\mathbf{a}_1 + x_{11}\,\mathbf{a}_2 + z_{11}\,\mathbf{a}_3$	$=$	$-ay_{11}\,\hat{\mathbf{x}} + ax_{11}\,\hat{\mathbf{y}} + cz_{11}\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{52}}$	$=$	$y_{11}\,\mathbf{a}_1 - x_{11}\,\mathbf{a}_2 + z_{11}\,\mathbf{a}_3$	$=$	$ay_{11}\,\hat{\mathbf{x}} - ax_{11}\,\hat{\mathbf{y}} + cz_{11}\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{53}}$	$=$	$x_{11}\,\mathbf{a}_1 - y_{11}\,\mathbf{a}_2 + \left(z_{11}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ax_{11}\,\hat{\mathbf{x}} - ay_{11}\,\hat{\mathbf{y}} + c\left(z_{11}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{54}}$	$=$	$-x_{11}\,\mathbf{a}_1 + y_{11}\,\mathbf{a}_2 + \left(z_{11}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ax_{11}\,\hat{\mathbf{x}} + ay_{11}\,\hat{\mathbf{y}} + c\left(z_{11}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{55}}$	$=$	$-y_{11}\,\mathbf{a}_1 - x_{11}\,\mathbf{a}_2 + \left(z_{11}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_{11}\,\hat{\mathbf{x}} - ax_{11}\,\hat{\mathbf{y}} + c\left(z_{11}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{56}}$	$=$	$y_{11}\,\mathbf{a}_1 + x_{11}\,\mathbf{a}_2 + \left(z_{11}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ay_{11}\,\hat{\mathbf{x}} + ax_{11}\,\hat{\mathbf{y}} + c\left(z_{11}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	O VIII
$\mathbf{B_{57}}$	$=$	$x_{12}\,\mathbf{a}_1 + y_{12}\,\mathbf{a}_2 + z_{12}\,\mathbf{a}_3$	$=$	$ax_{12}\,\hat{\mathbf{x}} + ay_{12}\,\hat{\mathbf{y}} + cz_{12}\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{58}}$	$=$	$-x_{12}\,\mathbf{a}_1 - y_{12}\,\mathbf{a}_2 + z_{12}\,\mathbf{a}_3$	$=$	$-ax_{12}\,\hat{\mathbf{x}} - ay_{12}\,\hat{\mathbf{y}} + cz_{12}\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{59}}$	$=$	$-y_{12}\,\mathbf{a}_1 + x_{12}\,\mathbf{a}_2 + z_{12}\,\mathbf{a}_3$	$=$	$-ay_{12}\,\hat{\mathbf{x}} + ax_{12}\,\hat{\mathbf{y}} + cz_{12}\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{60}}$	$=$	$y_{12}\,\mathbf{a}_1 - x_{12}\,\mathbf{a}_2 + z_{12}\,\mathbf{a}_3$	$=$	$ay_{12}\,\hat{\mathbf{x}} - ax_{12}\,\hat{\mathbf{y}} + cz_{12}\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{61}}$	$=$	$x_{12}\,\mathbf{a}_1 - y_{12}\,\mathbf{a}_2 + \left(z_{12}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ax_{12}\,\hat{\mathbf{x}} - ay_{12}\,\hat{\mathbf{y}} + c\left(z_{12}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{62}}$	$=$	$-x_{12}\,\mathbf{a}_1 + y_{12}\,\mathbf{a}_2 + \left(z_{12}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ax_{12}\,\hat{\mathbf{x}} + ay_{12}\,\hat{\mathbf{y}} + c\left(z_{12}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{63}}$	$=$	$-y_{12}\,\mathbf{a}_1 - x_{12}\,\mathbf{a}_2 + \left(z_{12}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_{12}\,\hat{\mathbf{x}} - ax_{12}\,\hat{\mathbf{y}} + c\left(z_{12}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{64}}$	$=$	$y_{12}\,\mathbf{a}_1 + x_{12}\,\mathbf{a}_2 + \left(z_{12}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ay_{12}\,\hat{\mathbf{x}} + ax_{12}\,\hat{\mathbf{y}} + c\left(z_{12}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se I
$\mathbf{B_{65}}$	$=$	$x_{13}\,\mathbf{a}_1 + y_{13}\,\mathbf{a}_2 + z_{13}\,\mathbf{a}_3$	$=$	$ax_{13}\,\hat{\mathbf{x}} + ay_{13}\,\hat{\mathbf{y}} + cz_{13}\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{66}}$	$=$	$-x_{13}\,\mathbf{a}_1 - y_{13}\,\mathbf{a}_2 + z_{13}\,\mathbf{a}_3$	$=$	$-ax_{13}\,\hat{\mathbf{x}} - ay_{13}\,\hat{\mathbf{y}} + cz_{13}\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{67}}$	$=$	$-y_{13}\,\mathbf{a}_1 + x_{13}\,\mathbf{a}_2 + z_{13}\,\mathbf{a}_3$	$=$	$-ay_{13}\,\hat{\mathbf{x}} + ax_{13}\,\hat{\mathbf{y}} + cz_{13}\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{68}}$	$=$	$y_{13}\,\mathbf{a}_1 - x_{13}\,\mathbf{a}_2 + z_{13}\,\mathbf{a}_3$	$=$	$ay_{13}\,\hat{\mathbf{x}} - ax_{13}\,\hat{\mathbf{y}} + cz_{13}\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{69}}$	$=$	$x_{13}\,\mathbf{a}_1 - y_{13}\,\mathbf{a}_2 + \left(z_{13}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$ax_{13}\,\hat{\mathbf{x}} - ay_{13}\,\hat{\mathbf{y}} + c\left(z_{13}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{70}}$	$=$	$-x_{13}\,\mathbf{a}_1 + y_{13}\,\mathbf{a}_2 + \left(z_{13}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ax_{13}\,\hat{\mathbf{x}} + ay_{13}\,\hat{\mathbf{y}} + c\left(z_{13}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se II
$\mathbf{B_{71}}$	$=$	$-y_{13}\,\mathbf{a}_1 - x_{13}\,\mathbf{a}_2 + \left(z_{13}+\frac{1}{2}\right)\,\mathbf{a}_3$	$=$	$-ay_{13}\,\hat{\mathbf{x}} - ax_{13}\,\hat{\mathbf{y}} + c\left(z_{13}+\frac{1}{2}\right)\,\hat{\mathbf{z}}$	(8d)	Se II

$$\mathbf{B_{72}} = y_{13}\,\mathbf{a}_1 + x_{13}\,\mathbf{a}_2 + \left(z_{13} + \tfrac{1}{2}\right)\,\mathbf{a}_3 = a y_{13}\,\hat{\mathbf{x}} + a x_{13}\,\hat{\mathbf{y}} + c\left(z_{13} + \tfrac{1}{2}\right)\,\hat{\mathbf{z}} \quad \text{(8d)} \quad \text{Se II}$$

References

[1] G. Meunier, M. Bertaud, and J. Galy, *Cristallochimie du sélénium(+IV). I. VSe_2O_6, une structure à trois chaines parallèles $(VO_5)_n^{6n-}$ indépendantes pontées par des groupements $(Se_2O)^{6+}$*, Acta Crystallogr. Sect. B **30**, 2834–2839 (1974), doi:10.1107/S0567740874008260.