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$Sr_{11}InSb_9$ grown from molten In

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Key indicators: single-crystal X-ray study; T = 120 K; mean σ(b–Sb) = 0.001 Å; R factor = 0.022; wR factor = 0.034; data-to-parameter ratio = 31.6.

Single crystals of the title compound, undecastrontium indium nonaantimonide, have been synthesized from a high-temperature reaction using a stoichiometric ratio of the elements Sr and Sb and excess In to act as a self-flux. The noncentrosymmetric structure has been determined from single-crystal X-ray diffraction data and has been found to be of the $Ca_{11}InSb_9$ structure type (Pearson code $oI84$). The structure can be visualized as being built of 11 Sr^{2+} cations, an $[InSb_4]^{9-}$ tetrahedron, an $[Sb_2]^{4-}$ dimer and three Sb^{3-} anions. One of six crystallographically independent Sr atoms, one of five Sb atoms and the In atom are located on positions with ..2 symmetry.

Related literature

$Sr_{11}InSb_9$ is a Zintl (1939) compound and crystallizes in the $Ca_{11}InSb_9$ structure type (Cordier *et al.*, 1985*a*). The latter compound is reported to be a semiconductor with a large band gap (Young & Kauzlarich, 1995). The title compound is isotypic with $Yb_{11}GaSb_9$ (Bobev *et al.*, 2005), $Yb_{11}InSb_9$ and $Eu_{11}GaSb_9$ (Xia *et al.*, 2007), all with Pearson code $oI84$ (Villars & Calvert, 1991). The relationship between the $Ca_{11}InSb_9$ structure type and that of $Ca_{21}Mn_4Bi_{18}$ has been discussed by Xia & Bobev (2007). Ionic radii were taken from Shannon (1976). Crystals of $Sr_5In_2Sb_6$ (Cordier *et al.*, 1985*b*) were also present in the reaction mixture.

Experimental

Crystal data

$Sr_{11}InSb_9$
M_r = 2174.39
Orthorhombic, $Iba2$
a = 12.3885 (13) Å
b = 13.1003 (14) Å
c = 17.4966 (18) Å
V = 2839.6 (5) Å^3
Z = 4
Mo $K\alpha$ radiation
μ = 29.64 mm^{-1}
T = 120 (2) K
0.08 × 0.05 × 0.04 mm

Data collection

Bruker SMART APEX diffractometer
Absorption correction: multi-scan (*SADABS*; Sheldrick, 2003)
T_{min} = 0.172, T_{max} = 0.308
15129 measured reflections
3124 independent reflections
2972 reflections with $I > 2\sigma(I)$
R_{int} = 0.046

Refinement

$R[F^2 > 2\sigma(F^2)]$ = 0.022
$wR(F^2)$ = 0.034
S = 0.90
3124 reflections
99 parameters
1 restraint
$\Delta\rho_{max}$ = 0.90 e Å^{-3}
$\Delta\rho_{min}$ = −1.00 e Å^{-3}
Absolute structure: Flack (1983), 1496 Friedel pairs
Flack parameter: 0.017 (6)

Table 1
Selected bond lengths (Å).

Sr1—Sb3	3.1806 (9)	Sr3—Sb1^{iv}	3.5237 (10)
Sr1—Sb4	3.2466 (10)	Sr3—Sb2^{ii}	3.5434 (9)
Sr1—Sb5^{i}	3.3742 (10)	Sr4—Sb2^{ii}	3.1924 (10)
Sr1—Sb3^{ii}	3.3932 (9)	Sr4—Sb1	3.3574 (10)
Sr1—Sb2^{iii}	3.4589 (9)	Sr4—Sb5^{v}	3.4647 (10)
Sr1—Sb1^{iv}	3.5094 (10)	Sr4—Sb4	3.5726 (10)
Sr2—Sb2^{iii}	3.2082 (10)	Sr4—Sb4^{v}	3.6246 (10)
Sr2—Sb1	3.3012 (10)	Sr5—Sb3^{vii}	3.2068 (11)
Sr2—Sb4	3.6040 (10)	Sr5—Sb5^{vii}	3.3398 (11)
Sr2—Sb4^{v}	3.6137 (10)	Sr5—In1^{viii}	3.5475 (9)
Sr2—Sb3^{v}	3.6170 (9)	Sr5—Sb1^{ix}	3.6506 (9)
Sr2—Sb3^{ii}	3.6409 (10)	Sr6—Sb3	3.1990 (5)
Sr3—Sb3^{vi}	3.2340 (10)	Sr6—Sb3^{x}	3.1990 (5)
Sr3—Sb4	3.2347 (10)	Sr6—Sb5^{xi}	3.4575 (9)
Sr3—Sb5^{ii}	3.4584 (9)	Sb1—In1^{xii}	2.9213 (7)
Sr3—Sb5	3.5131 (9)	Sb4—Sb4^{v}	2.8437 (9)

Symmetry codes: (i) $-x+\frac{1}{2}, -y+\frac{1}{2}, z+\frac{1}{2}$; (ii) $x+\frac{1}{2}, -y+\frac{1}{2}, z$; (iii) $x+\frac{1}{2}, y-\frac{1}{2}, z+\frac{1}{2}$; (iv) $x-\frac{1}{2}, -y+\frac{1}{2}, z$; (v) $-x+1, -y, z$; (vi) $-x+\frac{1}{2}, -y+\frac{1}{2}, z-\frac{1}{2}$; (vii) $-x+1, y, z+\frac{1}{2}$; (viii) $x+1, -y, z+\frac{1}{2}$; (ix) $-x+2, y, z+\frac{1}{2}$; (x) $-x, -y, z$; (xi) $-x, y, z+\frac{1}{2}$; (xii) $x+1, y, z$.

Data collection: *SMART* (Bruker, 2002); cell refinement: *SAINT* (Bruker, 2002); data reduction: *SAINT*; program(s) used to solve structure: *SHELXTL* (Bruker, 2002); program(s) used to refine structure: *SHELXTL*; molecular graphics: *XP* in *SHELXTL*; software used to prepare material for publication: *SHELXTL*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: WM2135).

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supplementary materials

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$Sr_{11}InSb_9$ grown from molten In

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Comment

The flux method was successfully applied for the synthesis of $Yb_{11}GaSb_9$ (Bobev *et al.*, 2005), $Yb_{11}InSb_9$ and $Eu_{11}GaSb_9$ (Xia *et al.*, 2007). The electronic structure and the properties of $Yb_{11}GaSb_9$ (Bobev *et al.*, 2005) are shown to be consistent with the Zintl concept (Zintl, 1939) and confirm that this class of compounds are small band-gap semiconductors or poor metals, as $Eu_{11}InSb_9$ and $Yb_{11}InSb_9$ (Xia *et al.*, 2007), whereas the Ca-analogs are reported to be semiconductors with larger band-gaps (Young & Kauzlarich, 1995). The close structural relationship between the $Ca_{11}InSb_9$ structure type (Cordier *et al.*, 1985*a*) and that of the monoclinic $Ca_{21}Mn_4Bi_{18}$ structure has been discussed in an earlier publication (Xia and Bobev, 2007). In connection with these studies, we undertook a similar synthetic approach in the Sr—In—Sb system.

$Sr_{11}InSb_9$ is a new member of the orthorhombic $Ca_{11}InSb_9$ structure type (Pearson's code *oI*84; Villars & Calvert, 1991). Its structure is very complex and has 12 crystallographically unique sites in the asymmetric unit. Thus it is difficult to explain in terms of packing of spheres; however, it can be rationalized simply using the Zintl formalism (Zintl, 1939). According to these rules and assuming a complete valence electron transfer from the less electronegative element, Sr, to the more electronegative In and Sb, one can visualize the structure as being built of eleven Sr^{2+} cations, an $[InSb_4]^{9-}$ tetrahedron, an $[Sb_2]^{4-}$ dimer, and three Sb^{3-} anions (Fig. 1).

The In—Sb bonding in the In centered tetrahedron has a covalent character with In—Sb distances ranging between 2.9213 (7) and 2.9312 (6) Å. These values are comparable to the In—Sb distances in the isotypic and isoelectronic $Eu_{11}InSb_9$, 2.913 (2) and 2.932 (2) Å (Xia *et al.*, 2007). We note that since Eu is divalent in $Eu_{11}InSb_9$ and since the ionic radii of Sr^{2+} and Eu^{2+} are nearly the same (Shannon, 1976), such comparison is straightforward. Not surprisingly, the Sb—Sb distance in $Sr_{11}InSb_9$ (2.8437 (9) Å) matches closely the Sb—Sb distance in the Eu analog (2.823 (2) Å) and also signifies strong covalent bonding. The interactions between the Sr^{2+} cations and the anions are more electrostatic in nature as evidenced by the larger coordination numbers and distances.

Experimental

Handling of the raw materials and the reaction products was done inside an Ar filled glove box. The reaction was carried out by loading the elements in an alumina crucible: Sr (Aldrich, pieces, distilled 99.99%), In (Alfa, shot, 99.99%), and Sb (Alfa, shot, 99.99%) in a ratio of 11:75:9. The large excess of In was intended as a metal flux. The crucible with the reaction mixture was then flame sealed under vacuum in a silica ampoule which was then placed in a furnace and heated to 1273 K at a rate of 300 K/h. The reaction proceeded at this temperature for 24 h before being cooled to 873 K at a rate of 10 K/h. At 873 K the ampoule was removed and the In flux was decanted. The main product of the reaction consisted of black crystals with irregular shapes, which were later determined to be the title compound. Also present were silver-metallic crystals with needle-like habit, which were found to be $Sr_5In_2Sb_6$ (Cordier *et al.*, 1985*b*). Note that $Sr_{11}InSb_9$ crystals decompose in air.

Refinement

The full occupancies for all sites were verified by freeing the site occupation factor for an individual atom, while other remaining parameters were kept fixed. This proved that all positions are fully occupied with corresponding deviations from full occupancy within 3σ. The maximum peak and deepest hole are located 1.36 Å away from Sr6 and 0.73 Å away from Sb4, respectively.

Figures

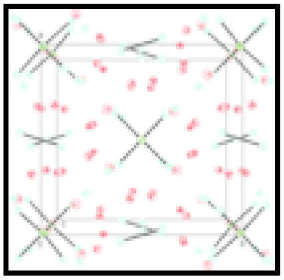

Fig. 1. A view of the structure of $Sr_{11}InSb_9$ along the *c* axis. Thermal ellipsoids are drawn at the 90% probability level. The Sr, In and Sb atoms are represented in red, green and light blue color, respectively.

undecastrontium indium nonaantimonide

Crystal data

$Sr_{11}InSb_9$

$M_r = 2174.39$

Orthorhombic, *Iba*2

Hall symbol: I 2 -2c

$a = 12.3885$ (13) Å

$b = 13.1003$ (14) Å

$c = 17.4966$ (18) Å

$V = 2839.6$ (5) Å^3

$Z = 4$

$F_{000} = 3704$

$D_x = 5.086$ Mg m^{-3}

Mo *K*α radiation
λ = 0.71073 Å

Cell parameters from 3124 reflections

θ = 2.3–27.1°

$\mu = 29.64$ mm^{-1}

$T = 120$ (2) K

Irregular, black

0.08 × 0.05 × 0.04 mm

Data collection

Bruker SMART APEX
diffractometer

Radiation source: fine-focus sealed tube

Monochromator: graphite

$T = 120(2)$ K

ω scans

Absorption correction: multi-scan
(SADABS; Sheldrick, 2003)

$T_{min} = 0.172$, $T_{max} = 0.308$

15129 measured reflections

3124 independent reflections

2972 reflections with $I > 2\sigma(I)$

$R_{int} = 0.046$

$\theta_{max} = 27.1°$

$\theta_{min} = 2.3°$

$h = -15 \rightarrow 15$

$k = -16 \rightarrow 16$

$l = -22 \rightarrow 22$

Refinement

Refinement on F^2	$w = 1/[\sigma^2(F_o^2) + (0.001P)^2]$ where $P = (F_o^2 + 2F_c^2)/3$
Least-squares matrix: full	$(\Delta/\sigma)_{max} < 0.001$
$R[F^2 > 2\sigma(F^2)] = 0.022$	$\Delta\rho_{max} = 0.90$ e Å^{-3}
$wR(F^2) = 0.034$	$\Delta\rho_{min} = -1.00$ e Å^{-3}
$S = 0.90$	Extinction correction: SHELXTL (Bruker, 2002)
3124 reflections	Extinction coefficient: 0.000020 (3)
99 parameters	Absolute structure: Flack (1983), 1496 Friedel pairs
1 restraint	Flack parameter: 0.017 (6)

Special details

Experimental. Crystals were selected in the glove box and cut in a Paratone N oil bath to the desired dimensions. A suitable crystal was then chosen mounted on the tip of a glass fiber and quickly placed under the cold nitrogen stream (*ca* 150 K) in a Bruker *SMART* CCD-based diffractometer.

Data collection is performed with four batch runs at φ = 0.00 ° (450 frames), at φ = 90.00 ° (450 frames), at φ = 180.00 ° (450 frames), and at φ = 270.00 (450 frames). Frame width = 0.40 ° in ω. Data are merged, corrected for decay, and treated with multi-scan absorption corrections.

Geometry. All e.s.d.'s (except the e.s.d. in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell e.s.d.'s are taken into account individually in the estimation of e.s.d.'s in distances, angles and torsion angles; correlations between e.s.d.'s in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell e.s.d.'s is used for estimating e.s.d.'s involving l.s. planes.

Refinement. Refinement of F^2 against ALL reflections. The weighted *R*-factor *wR* and goodness of fit S are based on F^2, conventional *R*-factors *R* are based on F, with F set to zero for negative F^2. The threshold expression of $F^2 > 2\text{sigma}(F^2)$ is used only for calculating *R*-factors(gt) *etc*. and is not relevant to the choice of reflections for refinement. *R*-factors based on F^2 are statistically about twice as large as those based on F, and R– factors based on ALL data will be even larger.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters (Å^2)

	x	*y*	*z*	$U_{iso}*/U_{eq}$
Sr1	0.42681 (6)	0.22217 (5)	0.65758 (5)	0.01021 (16)
Sr2	0.68413 (6)	0.05401 (6)	0.62855 (4)	0.01204 (16)
Sr3	0.41024 (6)	0.22651 (6)	0.34159 (4)	0.01095 (17)
Sr4	0.68627 (7)	0.05890 (6)	0.36909 (5)	0.01248 (17)
Sr5	0.84036 (5)	0.17355 (5)	0.99994 (6)	0.01271 (14)
Sr6	0.0000	0.0000	0.67821 (6)	0.0126 (2)
Sb1	0.87132 (3)	0.11611 (3)	0.50258 (4)	0.01040 (10)
Sb2	0.0000	0.5000	0.25098 (5)	0.00951 (14)
Sb3	0.17692 (4)	0.17776 (4)	0.68278 (3)	0.01071 (11)
Sb4	0.46656 (4)	0.10383 (3)	0.49699 (3)	0.01059 (10)
Sb5	0.14600 (4)	0.13808 (4)	0.31116 (3)	0.01019 (11)
In1	0.0000	0.0000	0.39295 (4)	0.01094 (17)

Atomic displacement parameters (Å^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Sr1	0.0093 (4)	0.0111 (4)	0.0103 (4)	−0.0002 (3)	0.0005 (3)	−0.0007 (3)
Sr2	0.0110 (4)	0.0122 (4)	0.0129 (4)	−0.0004 (3)	0.0026 (3)	0.0013 (3)
Sr3	0.0109 (4)	0.0118 (4)	0.0101 (4)	0.0007 (3)	−0.0004 (3)	0.0005 (3)
Sr4	0.0110 (4)	0.0133 (4)	0.0132 (4)	0.0009 (3)	−0.0022 (3)	−0.0020 (3)
Sr5	0.0142 (3)	0.0144 (4)	0.0095 (3)	0.0010 (3)	0.0000 (3)	−0.0006 (4)
Sr6	0.0100 (5)	0.0099 (5)	0.0179 (6)	−0.0008 (4)	0.000	0.000
Sb1	0.0097 (2)	0.0122 (2)	0.0092 (2)	−0.00036 (18)	−0.0001 (3)	−0.0003 (2)
Sb2	0.0094 (3)	0.0108 (3)	0.0084 (3)	0.0000 (4)	0.000	0.000
Sb3	0.0096 (2)	0.0123 (2)	0.0102 (3)	−0.0004 (2)	0.0004 (2)	−0.0011 (2)
Sb4	0.0119 (2)	0.0109 (2)	0.0089 (2)	0.00097 (18)	−0.0004 (3)	0.0003 (2)
Sb5	0.0093 (2)	0.0121 (2)	0.0091 (3)	0.0006 (2)	−0.0005 (2)	0.0004 (2)
In1	0.0103 (4)	0.0116 (4)	0.0109 (4)	−0.0009 (3)	0.000	0.000

Geometric parameters (Å, °)

Sr1—Sb3	3.1806 (9)	Sr5—Sr1^{xiv}	4.2183 (12)
Sr1—Sb4	3.2466 (10)	Sr6—Sb3	3.1990 (5)
Sr1—Sb5^{i}	3.3742 (10)	Sr6—Sb3^{xvi}	3.1990 (5)
Sr1—Sb3^{ii}	3.3932 (9)	Sr6—Sb5^{xvii}	3.4575 (9)
Sr1—Sb2^{iii}	3.4589 (9)	Sr6—Sb5^{xv}	3.4575 (9)
Sr1—Sb1^{iv}	3.5094 (10)	Sr6—In1^{xv}	3.7572 (14)
Sr1—Sr6^{ii}	3.7682 (8)	Sr6—Sr1^{xviii}	3.7682 (8)
Sr1—Sr3^{v}	3.8005 (10)	Sr6—Sr1^{iv}	3.7682 (8)
Sr1—Sr2^{vi}	3.9034 (11)	Sr6—Sb1^{xix}	3.7814 (11)
Sr1—Sr2	3.9081 (11)	Sr6—Sb1^{vi}	3.7814 (11)
Sr1—Sr5^{vii}	4.2183 (11)	Sr6—Sr2^{xix}	4.0704 (9)
Sr1—Sr2^{iv}	4.2301 (11)	Sr6—Sr2^{vi}	4.0704 (9)
Sr2—Sb2^{iii}	3.2082 (10)	Sr6—Sr5^{xx}	4.3371 (12)
Sr2—Sb1	3.3012 (10)	Sb1—In1^{viii}	2.9213 (7)
Sr2—Sb4	3.6040 (10)	Sb1—Sr1^{ii}	3.5094 (10)
Sr2—Sb4^{vi}	3.6137 (10)	Sb1—Sr3^{ii}	3.5238 (10)
Sr2—Sb3^{vi}	3.6170 (9)	Sb1—Sr5^{xxi}	3.6506 (9)
Sr2—Sb3^{ii}	3.6409 (10)	Sb1—Sr6^{viii}	3.7813 (11)
Sr2—Sr1^{vi}	3.9034 (11)	Sb1—Sr5^{vii}	3.8041 (9)
Sr2—Sb5^{v}	3.9812 (10)	Sb1—Sr5^{ix}	3.8143 (9)
Sr2—Sr6^{viii}	4.0704 (9)	Sb2—Sr4^{iv}	3.1924 (10)
Sr2—Sr5^{ix}	4.2067 (12)	Sb2—Sr4^{xxii}	3.1924 (10)
Sr2—Sr1^{ii}	4.2301 (11)	Sb2—Sr2^{x}	3.2081 (10)
Sr3—Sb3^{x}	3.2340 (10)	Sb2—Sr2^{xxiii}	3.2081 (10)
Sr3—Sb4	3.2347 (10)	Sb2—Sr1^{x}	3.4588 (9)

Sr3—Sb5^{ii}	3.4584 (9)	Sb2—Sr1^{xxiii}	3.4588 (9)
Sr3—Sb5	3.5131 (9)	Sb2—Sr3^{xxii}	3.5434 (9)
Sr3—Sb1^{iv}	3.5237 (10)	Sb2—Sr3^{iv}	3.5434 (9)
Sr3—Sb2^{ii}	3.5434 (9)	Sb3—Sr5^{xi}	3.2068 (11)
Sr3—Sr1^{xi}	3.8006 (10)	Sb3—Sr3^{i}	3.2340 (10)
Sr3—In1^{ii}	3.8575 (8)	Sb3—Sr1^{iv}	3.3932 (9)
Sr3—Sr4^{vi}	3.9550 (11)	Sb3—Sr2^{vi}	3.6170 (9)
Sr3—Sr4^{iv}	3.9790 (11)	Sb3—Sr2^{iv}	3.6408 (10)
Sr3—Sr4	4.0923 (11)	Sb3—Sr4^{v}	3.9903 (10)
Sr3—Sr5^{xi}	4.2184 (12)	Sb4—Sb4^{vi}	2.8437 (9)
Sr4—Sb2^{ii}	3.1924 (10)	Sb4—Sr2^{vi}	3.6137 (10)
Sr4—Sb1	3.3574 (10)	Sb4—Sr4^{vi}	3.6246 (10)
Sr4—Sb5^{vi}	3.4647 (10)	Sb4—Sr5^{vii}	3.7722 (9)
Sr4—Sb4	3.5726 (10)	Sb4—Sr5^{xi}	3.9107 (9)
Sr4—Sb4^{vi}	3.6246 (10)	Sb5—In1	2.9311 (6)
Sr4—Sr3^{vi}	3.9550 (11)	Sb5—Sr5^{xi}	3.3398 (11)
Sr4—Sr3^{ii}	3.9789 (11)	Sb5—Sr1^{x}	3.3743 (10)
Sr4—In1^{viii}	3.9844 (9)	Sb5—Sr6^{ix}	3.4575 (9)
Sr4—Sb3^{xi}	3.9903 (10)	Sb5—Sr3^{iv}	3.4584 (9)
Sr4—Sr5^{vii}	4.1993 (12)	Sb5—Sr4^{vi}	3.4647 (10)
Sr4—Sr5^{ix}	4.2613 (11)	Sb5—Sr2^{xi}	3.9812 (10)
Sr5—Sb3^{v}	3.2068 (11)	In1—Sb1^{vi}	2.9213 (7)
Sr5—Sb5^{v}	3.3398 (11)	In1—Sb1^{xix}	2.9213 (7)
Sr5—In1^{xii}	3.5475 (9)	In1—Sb5^{xvi}	2.9312 (6)
Sr5—Sb1^{xiii}	3.6506 (9)	In1—Sr5^{xi}	3.5475 (9)
Sr5—Sb4^{xiv}	3.7722 (9)	In1—Sr5^{xx}	3.5475 (9)
Sr5—Sb1^{xiv}	3.8041 (9)	In1—Sr6^{ix}	3.7572 (14)
Sr5—Sb1^{xv}	3.8143 (9)	In1—Sr3^{xviii}	3.8575 (8)
Sr5—Sb4^{v}	3.9108 (9)	In1—Sr3^{iv}	3.8575 (8)
Sr5—Sr4^{xiv}	4.1993 (12)	In1—Sr4^{xix}	3.9844 (9)
Sr5—Sr2^{xv}	4.2067 (12)	In1—Sr4^{vi}	3.9844 (9)
Sr5—Sr3^{v}	4.2185 (12)		
?···?	?		
Sb3—Sr1—Sb4	100.39 (2)	Sb4^{xiv}—Sr5—Sr2^{xv}	147.88 (3)
Sb3—Sr1—Sb5^{i}	74.26 (2)	Sb1^{xiv}—Sr5—Sr2^{xv}	100.93 (2)
Sb4—Sr1—Sb5^{i}	171.42 (3)	Sb1^{xv}—Sr5—Sr2^{xv}	48.302 (17)
Sb3—Sr1—Sb3^{ii}	160.29 (3)	Sb4^{v}—Sr5—Sr2^{xv}	52.715 (16)
Sb4—Sr1—Sb3^{ii}	99.12 (2)	Sr4^{xiv}—Sr5—Sr2^{xv}	147.88 (3)
Sb5^{i}—Sr1—Sb3^{ii}	86.04 (2)	Sb3^{v}—Sr5—Sr3^{v}	127.10 (2)
Sb3—Sr1—Sb2^{iii}	92.05 (2)	Sb5^{v}—Sr5—Sr3^{v}	53.885 (19)

Sb4—Sr1—Sb2$^{\mathrm{iii}}$	88.12 (2)
Sb5$^{\mathrm{i}}$—Sr1—Sb2$^{\mathrm{iii}}$	98.65 (3)
Sb3$^{\mathrm{ii}}$—Sr1—Sb2$^{\mathrm{iii}}$	91.39 (2)
Sb3—Sr1—Sb1$^{\mathrm{iv}}$	91.54 (2)
Sb4—Sr1—Sb1$^{\mathrm{iv}}$	69.46 (2)
Sb5$^{\mathrm{i}}$—Sr1—Sb1$^{\mathrm{iv}}$	103.62 (2)
Sb3$^{\mathrm{ii}}$—Sr1—Sb1$^{\mathrm{iv}}$	92.64 (2)
Sb2$^{\mathrm{iii}}$—Sr1—Sb1$^{\mathrm{iv}}$	157.58 (3)
Sb3—Sr1—Sr6$^{\mathrm{ii}}$	113.43 (2)
Sb4—Sr1—Sr6$^{\mathrm{ii}}$	120.51 (3)
Sb5$^{\mathrm{i}}$—Sr1—Sr6$^{\mathrm{ii}}$	57.59 (2)
Sb3$^{\mathrm{ii}}$—Sr1—Sr6$^{\mathrm{ii}}$	52.747 (13)
Sb2$^{\mathrm{iii}}$—Sr1—Sr6$^{\mathrm{ii}}$	134.78 (3)
Sb1$^{\mathrm{iv}}$—Sr1—Sr6$^{\mathrm{ii}}$	62.49 (2)
Sb3—Sr1—Sr3$^{\mathrm{v}}$	113.72 (2)
Sb4—Sr1—Sr3$^{\mathrm{v}}$	131.28 (3)
Sb5$^{\mathrm{i}}$—Sr1—Sr3$^{\mathrm{v}}$	57.265 (19)
Sb3$^{\mathrm{ii}}$—Sr1—Sr3$^{\mathrm{v}}$	53.062 (19)
Sb2$^{\mathrm{iii}}$—Sr1—Sr3$^{\mathrm{v}}$	58.21 (2)
Sb1$^{\mathrm{iv}}$—Sr1—Sr3$^{\mathrm{v}}$	138.56 (3)
Sr6$^{\mathrm{ii}}$—Sr1—Sr3$^{\mathrm{v}}$	77.09 (2)
Sb3—Sr1—Sr2$^{\mathrm{vi}}$	60.385 (19)
Sb4—Sr1—Sr2$^{\mathrm{vi}}$	59.880 (19)
Sb5$^{\mathrm{i}}$—Sr1—Sr2$^{\mathrm{vi}}$	120.82 (3)
Sb3$^{\mathrm{ii}}$—Sr1—Sr2$^{\mathrm{vi}}$	134.15 (3)
Sb2$^{\mathrm{iii}}$—Sr1—Sr2$^{\mathrm{vi}}$	51.232 (18)
Sb1$^{\mathrm{iv}}$—Sr1—Sr2$^{\mathrm{vi}}$	112.96 (3)
Sr6$^{\mathrm{ii}}$—Sr1—Sr2$^{\mathrm{vi}}$	172.95 (3)
Sr3$^{\mathrm{v}}$—Sr1—Sr2$^{\mathrm{vi}}$	108.13 (3)
Sb3—Sr1—Sr2	135.14 (3)
Sb4—Sr1—Sr2	59.643 (19)
Sb5$^{\mathrm{i}}$—Sr1—Sr2	128.86 (3)
Sb3$^{\mathrm{ii}}$—Sr1—Sr2	59.32 (2)
Sb2$^{\mathrm{iii}}$—Sr1—Sr2	51.188 (17)
Sb1$^{\mathrm{iv}}$—Sr1—Sr2	113.55 (3)
Sr6$^{\mathrm{ii}}$—Sr1—Sr2	111.14 (2)
Sr3$^{\mathrm{v}}$—Sr1—Sr2	71.65 (2)
Sr2$^{\mathrm{vi}}$—Sr1—Sr2	75.39 (2)
Sb3—Sr1—Sr5$^{\mathrm{vii}}$	144.63 (3)
Sb4—Sr1—Sr5$^{\mathrm{vii}}$	59.01 (2)
Sb5$^{\mathrm{i}}$—Sr1—Sr5$^{\mathrm{vii}}$	121.86 (2)
In1$^{\mathrm{xii}}$—Sr5—Sr3$^{\mathrm{v}}$	99.74 (3)
Sb1$^{\mathrm{xiii}}$—Sr5—Sr3$^{\mathrm{v}}$	139.66 (3)
Sb4$^{\mathrm{xiv}}$—Sr5—Sr3$^{\mathrm{v}}$	109.30 (2)
Sb1$^{\mathrm{xiv}}$—Sr5—Sr3$^{\mathrm{v}}$	51.795 (17)
Sb1$^{\mathrm{xv}}$—Sr5—Sr3$^{\mathrm{v}}$	104.22 (2)
Sb4$^{\mathrm{v}}$—Sr5—Sr3$^{\mathrm{v}}$	46.706 (17)
Sr4$^{\mathrm{xiv}}$—Sr5—Sr3$^{\mathrm{v}}$	56.416 (19)
Sr2$^{\mathrm{xv}}$—Sr5—Sr3$^{\mathrm{v}}$	97.43 (2)
Sb3$^{\mathrm{v}}$—Sr5—Sr1$^{\mathrm{xiv}}$	52.249 (19)
Sb5$^{\mathrm{v}}$—Sr5—Sr1$^{\mathrm{xiv}}$	131.08 (2)
In1$^{\mathrm{xii}}$—Sr5—Sr1$^{\mathrm{xiv}}$	99.87 (2)
Sb1$^{\mathrm{xiii}}$—Sr5—Sr1$^{\mathrm{xiv}}$	52.369 (18)
Sb4$^{\mathrm{xiv}}$—Sr5—Sr1$^{\mathrm{xiv}}$	47.542 (16)
Sb1$^{\mathrm{xiv}}$—Sr5—Sr1$^{\mathrm{xiv}}$	103.23 (2)
Sb1$^{\mathrm{xv}}$—Sr5—Sr1$^{\mathrm{xiv}}$	104.21 (2)
Sb4$^{\mathrm{v}}$—Sr5—Sr1$^{\mathrm{xiv}}$	138.51 (3)
Sr4$^{\mathrm{xiv}}$—Sr5—Sr1$^{\mathrm{xiv}}$	98.04 (2)
Sr2$^{\mathrm{xv}}$—Sr5—Sr1$^{\mathrm{xiv}}$	101.21 (3)
Sr3$^{\mathrm{v}}$—Sr5—Sr1$^{\mathrm{xiv}}$	151.57 (2)
Sb3—Sr6—Sb3$^{\mathrm{xvi}}$	177.13 (4)
Sb3—Sr6—Sb5$^{\mathrm{xvii}}$	87.749 (19)
Sb3$^{\mathrm{xvi}}$—Sr6—Sb5$^{\mathrm{xvii}}$	90.321 (19)
Sb3—Sr6—Sb5$^{\mathrm{xv}}$	90.322 (19)
Sb3$^{\mathrm{xvi}}$—Sr6—Sb5$^{\mathrm{xv}}$	87.749 (19)
Sb5$^{\mathrm{xvii}}$—Sr6—Sb5$^{\mathrm{xv}}$	95.44 (3)
Sb3—Sr6—In1$^{\mathrm{xv}}$	88.57 (2)
Sb3$^{\mathrm{xvi}}$—Sr6—In1$^{\mathrm{xv}}$	88.57 (2)
Sb5$^{\mathrm{xvii}}$—Sr6—In1$^{\mathrm{xv}}$	47.719 (16)
Sb5$^{\mathrm{xv}}$—Sr6—In1$^{\mathrm{xv}}$	47.719 (16)
Sb3—Sr6—Sr1$^{\mathrm{xviii}}$	122.728 (16)
Sb3$^{\mathrm{xvi}}$—Sr6—Sr1$^{\mathrm{xviii}}$	57.598 (16)
Sb5$^{\mathrm{xvii}}$—Sr6—Sr1$^{\mathrm{xviii}}$	134.08 (3)
Sb5$^{\mathrm{xv}}$—Sr6—Sr1$^{\mathrm{xviii}}$	55.475 (16)
In1$^{\mathrm{xv}}$—Sr6—Sr1$^{\mathrm{xviii}}$	95.50 (2)
Sb3—Sr6—Sr1$^{\mathrm{iv}}$	57.598 (16)
Sb3$^{\mathrm{xvi}}$—Sr6—Sr1$^{\mathrm{iv}}$	122.728 (16)
Sb5$^{\mathrm{xvii}}$—Sr6—Sr1$^{\mathrm{iv}}$	55.475 (16)
Sb5$^{\mathrm{xv}}$—Sr6—Sr1$^{\mathrm{iv}}$	134.08 (3)
In1$^{\mathrm{xv}}$—Sr6—Sr1$^{\mathrm{iv}}$	95.50 (2)
Sr1$^{\mathrm{xviii}}$—Sr6—Sr1$^{\mathrm{iv}}$	169.01 (4)
Sb3—Sr6—Sb1$^{\mathrm{xix}}$	90.94 (2)

Sb3^{ii}—Sr1—Sr5^{vii}	48.352 (18)	Sb3^{xvi}—Sr6—Sb1^{xix}	91.39 (2)
Sb2^{iii}—Sr1—Sr5^{vii}	113.71 (2)	Sb5^{xvii}—Sr6—Sb1^{xix}	96.647 (14)
Sb1^{iv}—Sr1—Sr5^{vii}	55.470 (17)	Sb5^{xv}—Sr6—Sb1^{xix}	167.89 (3)
Sr6^{ii}—Sr1—Sr5^{vii}	65.50 (2)	In1^{xv}—Sr6—Sb1^{xix}	144.359 (13)
Sr3^{v}—Sr1—Sr5^{vii}	100.71 (2)	Sr1^{xviii}—Sr6—Sb1^{xix}	114.34 (3)
Sr2^{vi}—Sr1—Sr5^{vii}	117.12 (2)	Sr1^{iv}—Sr6—Sb1^{xix}	55.401 (16)
Sr2—Sr1—Sr5^{vii}	62.599 (19)	Sb3—Sr6—Sb1^{vi}	91.39 (2)
Sb3—Sr1—Sr2^{iv}	56.749 (18)	Sb3^{xvi}—Sr6—Sb1^{vi}	90.94 (2)
Sb4—Sr1—Sr2^{iv}	109.57 (2)	Sb5^{xvii}—Sr6—Sb1^{vi}	167.89 (3)
Sb5^{i}—Sr1—Sr2^{iv}	61.937 (18)	Sb5^{xv}—Sr6—Sb1^{vi}	96.647 (14)
Sb3^{ii}—Sr1—Sr2^{iv}	113.38 (2)	In1^{xv}—Sr6—Sb1^{vi}	144.359 (13)
Sb2^{iii}—Sr1—Sr2^{iv}	145.72 (3)	Sr1^{xviii}—Sr6—Sb1^{vi}	55.401 (16)
Sb1^{iv}—Sr1—Sr2^{iv}	49.425 (17)	Sr1^{iv}—Sr6—Sb1^{vi}	114.34 (3)
Sr6^{ii}—Sr1—Sr2^{iv}	60.858 (17)	Sb1^{xix}—Sr6—Sb1^{vi}	71.28 (3)
Sr3^{v}—Sr1—Sr2^{iv}	117.96 (2)	Sb3—Sr6—Sr2^{xix}	122.512 (16)
Sr2^{vi}—Sr1—Sr2^{iv}	112.12 (2)	Sb3^{xvi}—Sr6—Sr2^{xix}	58.210 (15)
Sr2—Sr1—Sr2^{iv}	162.72 (3)	Sb5^{xvii}—Sr6—Sr2^{xix}	63.240 (15)
Sr5^{vii}—Sr1—Sr2^{iv}	100.55 (2)	Sb5^{xv}—Sr6—Sr2^{xix}	137.52 (2)
Sb2^{iii}—Sr2—Sb1	178.44 (3)	In1^{xv}—Sr6—Sr2^{xix}	102.325 (18)
Sb2^{iii}—Sr2—Sb4	86.25 (2)	Sr1^{xviii}—Sr6—Sr2^{xix}	112.258 (18)
Sb1—Sr2—Sb4	93.11 (2)	Sr1^{iv}—Sr6—Sr2^{xix}	65.186 (16)
Sb2^{iii}—Sr2—Sb4^{vi}	86.09 (2)	Sb1^{xix}—Sr6—Sr2^{xix}	49.557 (15)
Sb1—Sr2—Sb4^{vi}	94.51 (2)	Sb1^{vi}—Sr6—Sr2^{xix}	107.56 (3)
Sb4—Sr2—Sb4^{vi}	46.406 (18)	Sb3—Sr6—Sr2^{vi}	58.210 (15)
Sb2^{iii}—Sr2—Sb3^{vi}	88.74 (2)	Sb3^{xvi}—Sr6—Sr2^{vi}	122.513 (16)
Sb1—Sr2—Sb3^{vi}	92.74 (2)	Sb5^{xvii}—Sr6—Sr2^{vi}	137.52 (2)
Sb4—Sr2—Sb3^{vi}	132.49 (3)	Sb5^{xv}—Sr6—Sr2^{vi}	63.240 (15)
Sb4^{vi}—Sr2—Sb3^{vi}	86.14 (2)	In1^{xv}—Sr6—Sr2^{vi}	102.325 (19)
Sb2^{iii}—Sr2—Sb3^{ii}	91.23 (2)	Sr1^{xviii}—Sr6—Sr2^{vi}	65.186 (16)
Sb1—Sr2—Sb3^{ii}	87.33 (2)	Sr1^{iv}—Sr6—Sr2^{vi}	112.258 (18)
Sb4—Sr2—Sb3^{ii}	88.47 (2)	Sb1^{xix}—Sr6—Sr2^{vi}	107.56 (3)
Sb4^{vi}—Sr2—Sb3^{ii}	134.88 (3)	Sb1^{vi}—Sr6—Sr2^{vi}	49.557 (15)
Sb3^{vi}—Sr2—Sb3^{ii}	138.89 (3)	Sr2^{xix}—Sr6—Sr2^{vi}	155.35 (4)
Sb2^{iii}—Sr2—Sr1^{vi}	57.205 (18)	Sb3—Sr6—Sr5^{xx}	135.40 (3)
Sb1—Sr2—Sr1^{vi}	124.24 (3)	Sb3^{xvi}—Sr6—Sr5^{xx}	47.463 (18)
Sb4—Sr2—Sr1^{vi}	89.29 (2)	Sb5^{xvii}—Sr6—Sr5^{xx}	121.303 (14)
Sb4^{vi}—Sr2—Sr1^{vi}	50.998 (18)	Sb5^{xv}—Sr6—Sr5^{xx}	116.624 (14)
Sb3^{vi}—Sr2—Sr1^{vi}	49.860 (18)	In1^{xv}—Sr6—Sr5^{xx}	135.988 (15)
Sb3^{ii}—Sr2—Sr1^{vi}	148.43 (3)	Sr1^{xviii}—Sr6—Sr5^{xx}	62.257 (18)
Sb2^{iii}—Sr2—Sr1	57.150 (18)	Sr1^{iv}—Sr6—Sr5^{xx}	109.13 (2)
Sb1—Sr2—Sr1	121.39 (3)	Sb1^{xix}—Sr6—Sr5^{xx}	55.539 (18)

Sb4—Sr2—Sr1	51.015 (19)	Sb1^{vi}—Sr6—Sr5^{xx}	52.908 (17)
Sb4^{vi}—Sr2—Sr1	89.08 (2)	Sr2^{xix}—Sr6—Sr5^{xx}	59.948 (17)
Sb3^{vi}—Sr2—Sr1	145.82 (3)	Sr2^{vi}—Sr6—Sr5^{xx}	101.17 (2)
Sb3^{ii}—Sr2—Sr1	53.280 (18)	In1^{viii}—Sb1—Sr2	133.90 (2)
Sr1^{vi}—Sr2—Sr1	102.61 (2)	In1^{viii}—Sb1—Sr4	78.44 (2)
Sb2^{iii}—Sr2—Sb5^{v}	84.32 (2)	Sr2—Sb1—Sr4	85.97 (2)
Sb1—Sr2—Sb5^{v}	95.53 (2)	In1^{viii}—Sb1—Sr1^{ii}	135.63 (2)
Sb4—Sr2—Sb5^{v}	149.07 (3)	Sr2—Sb1—Sr1^{ii}	76.73 (2)
Sb4^{vi}—Sr2—Sb5^{v}	160.48 (3)	Sr4—Sb1—Sr1^{ii}	143.72 (2)
Sb3^{vi}—Sr2—Sb5^{v}	76.71 (2)	In1^{viii}—Sb1—Sr3^{ii}	72.85 (2)
Sb3^{ii}—Sr2—Sb5^{v}	62.406 (17)	Sr2—Sb1—Sr3^{ii}	140.72 (2)
Sr1^{vi}—Sr2—Sb5^{v}	109.76 (2)	Sr4—Sb1—Sr3^{ii}	70.61 (2)
Sr1—Sr2—Sb5^{v}	99.84 (2)	Sr1^{ii}—Sb1—Sr3^{ii}	103.75 (2)
Sb2^{iii}—Sr2—Sr6^{viii}	120.18 (3)	In1^{viii}—Sb1—Sr5^{xxi}	64.221 (17)
Sb1—Sr2—Sr6^{viii}	60.66 (2)	Sr2—Sb1—Sr5^{xxi}	138.30 (3)
Sb4—Sr2—Sr6^{viii}	152.47 (3)	Sr4—Sb1—Sr5^{xxi}	134.85 (3)
Sb4^{vi}—Sr2—Sr6^{viii}	122.22 (2)	Sr1^{ii}—Sb1—Sr5^{xxi}	72.16 (2)
Sb3^{vi}—Sr2—Sr6^{viii}	48.743 (13)	Sr3^{ii}—Sb1—Sr5^{xxi}	74.66 (2)
Sb3^{ii}—Sr2—Sr6^{viii}	97.80 (2)	In1^{viii}—Sb1—Sr6^{viii}	95.40 (2)
Sr1^{vi}—Sr2—Sr6^{viii}	98.60 (2)	Sr2—Sb1—Sr6^{viii}	69.78 (2)
Sr1—Sr2—Sr6^{viii}	148.70 (3)	Sr4—Sb1—Sr6^{viii}	139.77 (2)
Sb5^{v}—Sr2—Sr6^{viii}	50.847 (18)	Sr1^{ii}—Sb1—Sr6^{viii}	62.111 (18)
Sb2^{iii}—Sr2—Sr5^{ix}	121.87 (2)	Sr3^{ii}—Sb1—Sr6^{viii}	145.822 (19)
Sb1—Sr2—Sr5^{ix}	59.623 (19)	Sr5^{xxi}—Sb1—Sr6^{viii}	71.380 (18)
Sb4—Sr2—Sr5^{ix}	97.51 (2)	In1^{viii}—Sb1—Sr5^{vii}	138.19 (3)
Sb4^{vi}—Sr2—Sr5^{ix}	59.433 (18)	Sr2—Sb1—Sr5^{vii}	72.68 (2)
Sb3^{vi}—Sr2—Sr5^{ix}	47.663 (18)	Sr4—Sb1—Sr5^{vii}	71.49 (2)
Sb3^{ii}—Sr2—Sr5^{ix}	146.58 (3)	Sr1^{ii}—Sb1—Sr5^{vii}	72.97 (2)
Sr1^{vi}—Sr2—Sr5^{ix}	64.83 (2)	Sr3^{ii}—Sb1—Sr5^{vii}	70.17 (2)
Sr1—Sr2—Sr5^{ix}	147.59 (3)	Sr5^{xxi}—Sb1—Sr5^{vii}	121.670 (15)
Sb5^{v}—Sr2—Sr5^{ix}	112.47 (2)	Sr6^{viii}—Sb1—Sr5^{vii}	126.29 (3)
Sr6^{viii}—Sr2—Sr5^{ix}	63.174 (19)	In1^{viii}—Sb1—Sr5^{ix}	61.896 (17)
Sb2^{iii}—Sr2—Sr1^{ii}	125.31 (3)	Sr2—Sb1—Sr5^{ix}	72.08 (2)
Sb1—Sr2—Sr1^{ii}	53.848 (19)	Sr4—Sb1—Sr5^{ix}	72.59 (2)
Sb4—Sr2—Sr1^{ii}	118.86 (2)	Sr1^{ii}—Sb1—Sr5^{ix}	129.02 (3)
Sb4^{vi}—Sr2—Sr1^{ii}	147.17 (3)	Sr3^{ii}—Sb1—Sr5^{ix}	125.88 (3)
Sb3^{vi}—Sr2—Sr1^{ii}	102.25 (2)	Sr5^{xxi}—Sb1—Sr5^{ix}	107.658 (16)
Sb3^{ii}—Sr2—Sr1^{ii}	46.933 (16)	Sr6^{viii}—Sb1—Sr5^{ix}	69.637 (17)
Sr1^{vi}—Sr2—Sr1^{ii}	151.29 (3)	Sr5^{vii}—Sb1—Sr5^{ix}	130.627 (14)
Sr1—Sr2—Sr1^{ii}	99.985 (19)	Sr4^{iv}—Sb2—Sr4^{xxii}	99.32 (4)
Sb5^{v}—Sr2—Sr1^{ii}	48.409 (16)	Sr4^{iv}—Sb2—Sr2^{x}	153.237 (17)

Sr6^{viii}—Sr2—Sr1^{ii}	53.956 (15)	Sr4^{xxii}—Sb2—Sr2^{x}	88.370 (18)
Sr5^{ix}—Sr2—Sr1^{ii}	103.21 (2)	Sr4^{iv}—Sb2—Sr2^{xxiii}	88.370 (18)
Sb3^{x}—Sr3—Sb4	170.71 (3)	Sr4^{xxii}—Sb2—Sr2^{xxiii}	153.237 (17)
Sb3^{x}—Sr3—Sb5^{ii}	87.18 (2)	Sr2^{x}—Sb2—Sr2^{xxiii}	96.22 (4)
Sb4—Sr3—Sb5^{ii}	101.66 (2)	Sr4^{iv}—Sb2—Sr1^{x}	85.00 (2)
Sb3^{x}—Sr3—Sb5	71.732 (19)	Sr4^{xxii}—Sb2—Sr1^{x}	134.33 (2)
Sb4—Sr3—Sb5	99.47 (2)	Sr2^{x}—Sb2—Sr1^{x}	71.66 (2)
Sb5^{ii}—Sr3—Sb5	158.87 (3)	Sr2^{xxiii}—Sb2—Sr1^{x}	71.56 (2)
Sb3^{x}—Sr3—Sb1^{iv}	114.47 (3)	Sr4^{iv}—Sb2—Sr1^{xxiii}	134.33 (2)
Sb4—Sr3—Sb1^{iv}	69.41 (2)	Sr4^{xxii}—Sb2—Sr1^{xxiii}	85.00 (2)
Sb5^{ii}—Sr3—Sb1^{iv}	86.48 (2)	Sr2^{x}—Sb2—Sr1^{xxiii}	71.56 (2)
Sb5—Sr3—Sb1^{iv}	100.75 (2)	Sr2^{xxiii}—Sb2—Sr1^{xxiii}	71.66 (2)
Sb3^{x}—Sr3—Sb2^{ii}	92.58 (2)	Sr1^{x}—Sb2—Sr1^{xxiii}	123.61 (4)
Sb4—Sr3—Sb2^{ii}	83.82 (2)	Sr4^{iv}—Sb2—Sr3^{xxii}	71.70 (2)
Sb5^{ii}—Sr3—Sb2^{ii}	95.49 (2)	Sr4^{xxii}—Sb2—Sr3^{xxii}	74.62 (2)
Sb5—Sr3—Sb2^{ii}	87.044 (19)	Sr2^{x}—Sb2—Sr3^{xxii}	134.96 (2)
Sb1^{iv}—Sr3—Sb2^{ii}	152.95 (3)	Sr2^{xxiii}—Sb2—Sr3^{xxii}	83.74 (2)
Sb3^{x}—Sr3—Sr1^{xi}	56.998 (19)	Sr1^{x}—Sb2—Sr3^{xxii}	146.491 (17)
Sb4—Sr3—Sr1^{xi}	126.16 (3)	Sr1^{xxiii}—Sb2—Sr3^{xxii}	65.730 (16)
Sb5^{ii}—Sr3—Sr1^{xi}	55.156 (19)	Sr4^{iv}—Sb2—Sr3^{iv}	74.62 (2)
Sb5—Sr3—Sr1^{xi}	111.20 (2)	Sr4^{xxii}—Sb2—Sr3^{iv}	71.70 (2)
Sb1^{iv}—Sr3—Sr1^{xi}	139.34 (3)	Sr2^{x}—Sb2—Sr3^{iv}	83.74 (2)
Sb2^{ii}—Sr3—Sr1^{xi}	56.064 (19)	Sr2^{xxiii}—Sb2—Sr3^{iv}	134.96 (2)
Sb3^{x}—Sr3—In1^{ii}	86.35 (2)	Sr1^{x}—Sb2—Sr3^{iv}	65.730 (16)
Sb4—Sr3—In1^{ii}	101.74 (2)	Sr1^{xxiii}—Sb2—Sr3^{iv}	146.491 (16)
Sb5^{ii}—Sr3—In1^{ii}	46.846 (13)	Sr3^{xxii}—Sb2—Sr3^{iv}	126.84 (4)
Sb5—Sr3—In1^{ii}	127.60 (2)	Sr1—Sb3—Sr6	142.80 (2)
Sb1^{iv}—Sr3—In1^{ii}	46.356 (16)	Sr1—Sb3—Sr5^{xi}	85.97 (2)
Sb2^{ii}—Sr3—In1^{ii}	142.33 (2)	Sr6—Sb3—Sr5^{xi}	85.23 (3)
Sr1^{xi}—Sr3—In1^{ii}	93.33 (2)	Sr1—Sb3—Sr3^{i}	111.91 (3)
Sb3^{x}—Sr3—Sr4^{vi}	111.73 (3)	Sr6—Sb3—Sr3^{i}	94.30 (3)
Sb4—Sr3—Sr4^{vi}	59.55 (2)	Sr5^{xi}—Sb3—Sr3^{i}	147.30 (2)
Sb5^{ii}—Sr3—Sr4^{vi}	139.37 (3)	Sr1—Sb3—Sr1^{iv}	143.14 (2)
Sb5—Sr3—Sr4^{vi}	54.898 (18)	Sr6—Sb3—Sr1^{iv}	69.655 (18)
Sb1^{iv}—Sr3—Sr4^{vi}	114.49 (3)	Sr5^{xi}—Sb3—Sr1^{iv}	79.40 (2)
Sb2^{ii}—Sr3—Sr4^{vi}	50.027 (18)	Sr3^{i}—Sb3—Sr1^{iv}	69.94 (2)
Sr1^{xi}—Sr3—Sr4^{vi}	104.45 (3)	Sr1—Sb3—Sr2^{vi}	69.75 (2)
In1^{ii}—Sr3—Sr4^{vi}	159.54 (3)	Sr6—Sb3—Sr2^{vi}	73.047 (18)
Sb3^{x}—Sr3—Sr4^{iv}	66.24 (2)	Sr5^{xi}—Sb3—Sr2^{vi}	75.85 (2)
Sb4—Sr3—Sr4^{iv}	113.57 (3)	Sr3^{i}—Sb3—Sr2^{vi}	135.22 (2)
Sb5^{ii}—Sr3—Sr4^{iv}	104.19 (2)	Sr1^{iv}—Sb3—Sr2^{vi}	136.45 (2)

Sb5—Sr3—Sr4^{iv}	66.52 (2)	Sr1—Sb3—Sr2^{iv}	76.32 (2)
Sb1^{iv}—Sr3—Sr4^{iv}	52.740 (17)	Sr6—Sb3—Sr2^{iv}	135.47 (2)
Sb2^{ii}—Sr3—Sr4^{iv}	149.83 (3)	Sr5^{xi}—Sb3—Sr2^{iv}	76.01 (2)
Sr1^{xi}—Sr3—Sr4^{iv}	118.91 (3)	Sr3^{i}—Sb3—Sr2^{iv}	81.83 (2)
In1^{ii}—Sr3—Sr4^{iv}	61.098 (17)	Sr1^{iv}—Sb3—Sr2^{iv}	67.40 (2)
Sr4^{vi}—Sr3—Sr4^{iv}	116.26 (2)	Sr2^{vi}—Sb3—Sr2^{iv}	136.90 (2)
Sb3^{x}—Sr3—Sr4	126.02 (3)	Sr1—Sb3—Sr4^{v}	76.78 (2)
Sb4—Sr3—Sr4	56.930 (19)	Sr6—Sb3—Sr4^{v}	91.57 (2)
Sb5^{ii}—Sr3—Sr4	65.64 (2)	Sr5^{xi}—Sb3—Sr4^{v}	146.78 (2)
Sb5—Sr3—Sr4	128.28 (3)	Sr3^{i}—Sb3—Sr4^{v}	65.87 (2)
Sb1^{iv}—Sr3—Sr4	109.53 (2)	Sr1^{iv}—Sb3—Sr4^{v}	130.15 (2)
Sb2^{ii}—Sr3—Sr4	48.779 (16)	Sr2^{vi}—Sb3—Sr4^{v}	71.615 (18)
Sr1^{xi}—Sr3—Sr4	69.37 (2)	Sr2^{iv}—Sb3—Sr4^{v}	125.39 (2)
In1^{ii}—Sr3—Sr4	103.30 (2)	Sb4^{vi}—Sb4—Sr3	122.558 (17)
Sr4^{vi}—Sr3—Sr4	74.40 (2)	Sb4^{vi}—Sb4—Sr1	120.068 (16)
Sr4^{iv}—Sr3—Sr4	161.36 (3)	Sr3—Sb4—Sr1	117.22 (2)
Sb3^{x}—Sr3—Sr5^{xi}	112.48 (2)	Sb4^{vi}—Sb4—Sr4	67.693 (18)
Sb4—Sr3—Sr5^{xi}	61.64 (2)	Sr3—Sb4—Sr4	73.72 (2)
Sb5^{ii}—Sr3—Sr5^{xi}	143.80 (3)	Sr1—Sb4—Sr4	137.42 (2)
Sb5—Sr3—Sr5^{xi}	50.174 (18)	Sb4^{vi}—Sb4—Sr2	66.976 (18)
Sb1^{iv}—Sr3—Sr5^{xi}	58.031 (18)	Sr3—Sb4—Sr2	142.01 (2)
Sb2^{ii}—Sr3—Sr5^{xi}	112.77 (2)	Sr1—Sb4—Sr2	69.34 (2)
Sr1^{xi}—Sr3—Sr5^{xi}	160.88 (3)	Sr4—Sb4—Sr2	78.488 (19)
In1^{ii}—Sr3—Sr5^{xi}	102.23 (2)	Sb4^{vi}—Sb4—Sr2^{vi}	66.620 (19)
Sr4^{vi}—Sr3—Sr5^{xi}	62.750 (19)	Sr3—Sb4—Sr2^{vi}	135.10 (2)
Sr4^{iv}—Sr3—Sr5^{xi}	61.549 (19)	Sr1—Sb4—Sr2^{vi}	69.12 (2)
Sr4—Sr3—Sr5^{xi}	116.71 (2)	Sr4—Sb4—Sr2^{vi}	134.29 (2)
Sb2^{ii}—Sr4—Sb1	176.25 (3)	Sr2—Sb4—Sr2^{vi}	82.87 (3)
Sb2^{ii}—Sr4—Sb5^{vi}	93.68 (2)	Sb4^{vi}—Sb4—Sr4^{vi}	65.767 (19)
Sb1—Sr4—Sb5^{vi}	87.72 (2)	Sr3—Sb4—Sr4^{vi}	70.16 (2)
Sb2^{ii}—Sr4—Sb4	83.95 (2)	Sr1—Sb4—Sr4^{vi}	137.39 (2)
Sb1—Sr4—Sb4	92.73 (2)	Sr4—Sb4—Sr4^{vi}	85.09 (3)
Sb5^{vi}—Sr4—Sb4	139.72 (3)	Sr2—Sb4—Sr4^{vi}	132.72 (2)
Sb2^{ii}—Sr4—Sb4^{vi}	83.10 (2)	Sr2^{vi}—Sb4—Sr4^{vi}	77.696 (18)
Sb1—Sr4—Sb4^{vi}	93.35 (2)	Sb4^{vi}—Sb4—Sr5^{vii}	123.70 (3)
Sb5^{vi}—Sr4—Sb4^{vi}	93.20 (2)	Sr3—Sb4—Sr5^{vii}	76.36 (2)
Sb4—Sr4—Sb4^{vi}	46.539 (18)	Sr1—Sb4—Sr5^{vii}	73.45 (2)
Sb2^{ii}—Sr4—Sr3^{vi}	58.277 (18)	Sr4—Sb4—Sr5^{vii}	69.68 (2)
Sb1—Sr4—Sr3^{vi}	120.14 (3)	Sr2—Sb4—Sr5^{vii}	69.94 (2)
Sb5^{vi}—Sr4—Sr3^{vi}	56.052 (19)	Sr2^{vi}—Sb4—Sr5^{vii}	139.57 (3)
Sb4—Sr4—Sr3^{vi}	90.09 (2)	Sr4^{vi}—Sb4—Sr5^{vii}	142.60 (3)

Sb4^{vi}—Sr4—Sr3^{vi}	50.294 (18)	Sb4^{vi}—Sb4—Sr5^{xi}	120.45 (2)
Sb2^{ii}—Sr4—Sr3^{ii}	126.62 (3)	Sr3—Sb4—Sr5^{xi}	71.66 (2)
Sb1—Sr4—Sr3^{ii}	56.65 (2)	Sr1—Sb4—Sr5^{xi}	74.31 (2)
Sb5^{vi}—Sr4—Sr3^{ii}	94.16 (2)	Sr4—Sb4—Sr5^{xi}	141.95 (3)
Sb4—Sr4—Sr3^{ii}	119.38 (3)	Sr2—Sb4—Sr5^{xi}	139.55 (3)
Sb4^{vi}—Sr4—Sr3^{ii}	148.70 (3)	Sr2^{vi}—Sb4—Sr5^{xi}	67.85 (2)
Sr3^{vi}—Sr4—Sr3^{ii}	149.77 (3)	Sr4^{vi}—Sb4—Sr5^{xi}	68.76 (2)
Sb2^{ii}—Sr4—In1^{viii}	136.56 (3)	Sr5^{vii}—Sb4—Sr5^{xi}	115.834 (14)
Sb1—Sr4—In1^{viii}	45.916 (16)	In1—Sb5—Sr5^{xi}	68.55 (2)
Sb5^{vi}—Sr4—In1^{viii}	45.685 (15)	In1—Sb5—Sr1^{x}	123.97 (2)
Sb4—Sr4—In1^{viii}	135.19 (3)	Sr5^{xi}—Sb5—Sr1^{x}	136.52 (2)
Sb4^{vi}—Sr4—In1^{viii}	109.33 (2)	In1—Sb5—Sr6^{ix}	71.51 (2)
Sr3^{vi}—Sr4—In1^{viii}	97.15 (2)	Sr5^{xi}—Sb5—Sr6^{ix}	139.88 (2)
Sr3^{ii}—Sr4—In1^{viii}	57.947 (17)	Sr1^{x}—Sb5—Sr6^{ix}	66.94 (2)
Sb2^{ii}—Sr4—Sb3^{xi}	82.68 (2)	In1—Sb5—Sr3^{iv}	73.754 (18)
Sb1—Sr4—Sb3^{xi}	101.02 (2)	Sr5^{xi}—Sb5—Sr3^{iv}	79.58 (2)
Sb5^{vi}—Sr4—Sb3^{xi}	78.28 (2)	Sr1^{x}—Sb5—Sr3^{iv}	67.577 (18)
Sb4—Sr4—Sb3^{xi}	140.45 (3)	Sr6^{ix}—Sb5—Sr3^{iv}	85.992 (18)
Sb4^{vi}—Sr4—Sb3^{xi}	162.89 (3)	In1—Sb5—Sr4^{vi}	76.562 (19)
Sr3^{vi}—Sr4—Sb3^{xi}	113.45 (2)	Sr5^{xi}—Sb5—Sr4^{vi}	77.52 (2)
Sr3^{ii}—Sr4—Sb3^{xi}	47.883 (17)	Sr1^{x}—Sb5—Sr4^{vi}	142.88 (2)
In1^{viii}—Sr4—Sb3^{xi}	75.34 (2)	Sr6^{ix}—Sb5—Sr4^{vi}	96.94 (2)
Sb2^{ii}—Sr4—Sr3	56.602 (18)	Sr3^{iv}—Sb5—Sr4^{vi}	147.51 (2)
Sb1—Sr4—Sr3	122.18 (3)	In1—Sb5—Sr3	134.79 (2)
Sb5^{vi}—Sr4—Sr3	150.04 (3)	Sr5^{xi}—Sb5—Sr3	75.94 (2)
Sb4—Sr4—Sr3	49.353 (18)	Sr1^{x}—Sb5—Sr3	101.00 (2)
Sb4^{vi}—Sr4—Sr3	87.23 (2)	Sr6^{ix}—Sb5—Sr3	139.64 (2)
Sr3^{vi}—Sr4—Sr3	103.91 (2)	Sr3^{iv}—Sb5—Sr3	126.475 (18)
Sr3^{ii}—Sr4—Sr3	100.919 (19)	Sr4^{vi}—Sb5—Sr3	69.05 (2)
In1^{viii}—Sr4—Sr3	158.65 (2)	In1—Sb5—Sr2^{xi}	123.18 (2)
Sb3^{xi}—Sr4—Sr3	92.84 (2)	Sr5^{xi}—Sb5—Sr2^{xi}	143.65 (2)
Sb2^{ii}—Sr4—Sr5^{vii}	119.86 (2)	Sr1^{x}—Sb5—Sr2^{xi}	69.65 (2)
Sb1—Sr4—Sr5^{vii}	59.208 (19)	Sr6^{ix}—Sb5—Sr2^{xi}	65.912 (19)
Sb5^{vi}—Sr4—Sr5^{vii}	145.92 (3)	Sr3^{iv}—Sb5—Sr2^{xi}	135.39 (2)
Sb4—Sr4—Sr5^{vii}	57.395 (18)	Sr4^{vi}—Sb5—Sr2^{xi}	73.244 (19)
Sb4^{vi}—Sr4—Sr5^{vii}	96.50 (2)	Sr3—Sb5—Sr2^{xi}	73.76 (2)
Sr3^{vi}—Sr4—Sr5^{vii}	146.27 (3)	Sb1^{vi}—In1—Sb1^{xix}	97.92 (3)
Sr3^{ii}—Sr4—Sr5^{vii}	62.03 (2)	Sb1^{vi}—In1—Sb5	107.767 (15)
In1^{viii}—Sr4—Sr5^{vii}	100.44 (2)	Sb1^{xix}—In1—Sb5	109.632 (15)
Sb3^{xi}—Sr4—Sr5^{vii}	98.80 (2)	Sb1^{vi}—In1—Sb5^{xvi}	109.632 (15)
Sr3—Sr4—Sr5^{vii}	63.297 (19)	Sb1^{xix}—In1—Sb5^{xvi}	107.768 (15)

Sb2$^{\mathrm{ii}}$—Sr4—Sr5$^{\mathrm{ix}}$	119.92 (2)	Sb5—In1—Sb5$^{\mathrm{xvi}}$	121.55 (3)
Sb1—Sr4—Sr5$^{\mathrm{ix}}$	58.662 (19)	Sb1$^{\mathrm{vi}}$—In1—Sr5$^{\mathrm{xi}}$	71.52 (2)
Sb5$^{\mathrm{vi}}$—Sr4—Sr5$^{\mathrm{ix}}$	49.929 (19)	Sb1$^{\mathrm{xix}}$—In1—Sr5$^{\mathrm{xi}}$	67.92 (2)
Sb4—Sr4—Sr5$^{\mathrm{ix}}$	97.03 (2)	Sb5—In1—Sr5$^{\mathrm{xi}}$	61.189 (19)
Sb4$^{\mathrm{vi}}$—Sr4—Sr5$^{\mathrm{ix}}$	58.800 (18)	Sb5i—In1—Sr5i	175.69 (2)
Sr3$^{\mathrm{vi}}$—Sr4—Sr5$^{\mathrm{ix}}$	61.65 (2)	Sb1i—In1—Sr5i	67.92 (2)
Sr3$^{\mathrm{ii}}$—Sr4—Sr5$^{\mathrm{ix}}$	104.92 (2)	Sb1i—In1—Sr5i	71.52 (2)
In1$^{\mathrm{viii}}$—Sr4—Sr5$^{\mathrm{ix}}$	50.828 (15)	Sb5—In1—Sr5i	175.69 (2)
Sb3$^{\mathrm{xi}}$—Sr4—Sr5$^{\mathrm{ix}}$	121.84 (2)	Sb5i—In1—Sr5i	61.190 (19)
Sr3—Sr4—Sr5$^{\mathrm{ix}}$	145.18 (3)	Sr5i—In1—Sr5i	116.30 (4)
Sr5$^{\mathrm{vii}}$—Sr4—Sr5$^{\mathrm{ix}}$	109.80 (3)	Sb1i—In1—Sr6i	131.039 (16)
Sb3$^{\mathrm{v}}$—Sr5—Sb5$^{\mathrm{v}}$	172.93 (3)	Sb1i—In1—Sr6i	131.039 (16)
Sb3$^{\mathrm{v}}$—Sr5—In1$^{\mathrm{xii}}$	125.08 (3)	Sb5—In1—Sr6i	60.776 (17)
Sb5$^{\mathrm{v}}$—Sr5—In1$^{\mathrm{xii}}$	50.264 (19)	Sb5i—In1—Sr6i	60.775 (17)
Sb3$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xiii}}$	93.22 (2)	Sr5i—In1—Sr6i	121.848 (18)
Sb5$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xiii}}$	86.23 (2)	Sr5i—In1—Sr6i	121.848 (18)
In1$^{\mathrm{xii}}$—Sr5—Sb1$^{\mathrm{xiii}}$	47.861 (14)	Sb1i—In1—Sr3i	60.794 (16)
Sb3$^{\mathrm{v}}$—Sr5—Sb4$^{\mathrm{xiv}}$	92.45 (2)	Sb1i—In1—Sr3i	142.55 (2)
Sb5$^{\mathrm{v}}$—Sr5—Sb4$^{\mathrm{xiv}}$	93.55 (2)	Sb5—In1—Sr3i	106.35 (2)
In1$^{\mathrm{xii}}$—Sr5—Sb4$^{\mathrm{xiv}}$	97.74 (2)	Sb5i—In1—Sr3i	59.400 (16)
Sb1$^{\mathrm{xiii}}$—Sr5—Sb4$^{\mathrm{xiv}}$	62.555 (16)	Sr5i—In1—Sr3i	123.881 (18)
Sb3$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xiv}}$	85.95 (2)	Sr5i—In1—Sr3i	71.844 (18)
Sb5$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xiv}}$	98.49 (2)	Sr6i—In1—Sr3i	76.528 (16)
In1$^{\mathrm{xii}}$—Sr5—Sb1$^{\mathrm{xiv}}$	148.75 (3)	Sb1i—In1—Sr3i	142.55 (2)
Sb1$^{\mathrm{xiii}}$—Sr5—Sb1$^{\mathrm{xiv}}$	145.45 (2)	Sb1i—In1—Sr3i	60.794 (17)
Sb4$^{\mathrm{xiv}}$—Sr5—Sb1$^{\mathrm{xiv}}$	82.951 (18)	Sb5—In1—Sr3i	59.401 (16)
Sb3$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xv}}$	90.67 (2)	Sb5i—In1—Sr3i	106.35 (2)
Sb5$^{\mathrm{v}}$—Sr5—Sb1$^{\mathrm{xv}}$	82.44 (2)	Sr5i—In1—Sr3i	71.844 (18)
In1$^{\mathrm{xii}}$—Sr5—Sb1$^{\mathrm{xv}}$	46.585 (14)	Sr5i—In1—Sr3i	123.881 (18)
Sb1$^{\mathrm{xiii}}$—Sr5—Sb1$^{\mathrm{xv}}$	72.325 (16)	Sr6i—In1—Sr3i	76.528 (16)
Sb4$^{\mathrm{xiv}}$—Sr5—Sb1$^{\mathrm{xv}}$	134.87 (2)	Sr3i—In1—Sr3i	153.06 (3)
Sb1$^{\mathrm{xiv}}$—Sr5—Sb1$^{\mathrm{xv}}$	142.17 (2)	Sb1i—In1—Sr4i	134.58 (2)
Sb3$^{\mathrm{v}}$—Sr5—Sb4$^{\mathrm{v}}$	87.26 (2)	Sb1i—In1—Sr4i	55.642 (15)
Sb5$^{\mathrm{v}}$—Sr5—Sb4$^{\mathrm{v}}$	90.21 (2)	Sb5—In1—Sr4i	115.55 (2)
In1$^{\mathrm{xii}}$—Sr5—Sb4$^{\mathrm{v}}$	112.67 (2)	Sb5i—In1—Sr4i	57.754 (16)
Sb1$^{\mathrm{xiii}}$—Sr5—Sb4$^{\mathrm{v}}$	154.60 (2)	Sr5i—In1—Sr4i	118.359 (18)
Sb4$^{\mathrm{xiv}}$—Sr5—Sb4$^{\mathrm{v}}$	142.84 (2)	Sr5i—In1—Sr4i	68.629 (18)
Sb1$^{\mathrm{xiv}}$—Sr5—Sb4$^{\mathrm{v}}$	59.942 (15)	Sr6i—In1—Sr4i	83.985 (17)
Sb1$^{\mathrm{xv}}$—Sr5—Sb4$^{\mathrm{v}}$	82.274 (16)	Sr3i—In1—Sr4i	115.891 (17)
Sb3$^{\mathrm{v}}$—Sr5—Sr4$^{\mathrm{xiv}}$	121.62 (3)	Sr3i—In1—Sr4i	60.955 (16)
Sb5$^{\mathrm{v}}$—Sr5—Sr4$^{\mathrm{xiv}}$	65.22 (2)	Sb1i—In1—Sr4i	55.642 (15)

In1^{xii}—Sr5—Sr4^{xiv}	106.92 (3)	Sb1i—In1—Sr4i	134.58 (2)
Sb1^{xiii}—Sr5—Sr4^{xiv}	104.82 (2)	Sb5—In1—Sr4i	57.753 (16)
Sb4^{xiv}—Sr5—Sr4^{xiv}	52.922 (17)	Sb5i—In1—Sr4i	115.55 (2)
Sb1^{xiv}—Sr5—Sr4^{xiv}	49.300 (17)	Sr5i—In1—Sr4i	68.629 (18)
Sb1^{xv}—Sr5—Sr4^{xiv}	147.65 (3)	Sr5i—In1—Sr4i	118.359 (18)
Sb4^{v}—Sr5—Sr4^{xiv}	96.39 (2)	Sr6i—In1—Sr4i	83.985 (17)
Sb3^{v}—Sr5—Sr2^{xv}	56.484 (19)	Sr3i—In1—Sr4i	60.955 (16)
Sb5^{v}—Sr5—Sr2^{xv}	116.98 (2)	Sr3i—In1—Sr4i	115.891 (17)
In1^{xii}—Sr5—Sr2^{xv}	94.85 (2)	Sr4i—In1—Sr4i	167.97 (3)
Sb1^{xiii}—Sr5—Sr2^{xv}	107.30 (2)		
?—?—?—?	?		

Symmetry codes: (i) −*x*+1/2, −*y*+1/2, *z*+1/2; (ii) *x*+1/2, −*y*+1/2, *z*; (iii) *x*+1/2, *y*−1/2, *z*+1/2; (iv) *x*−1/2, −*y*+1/2, *z*; (v) −*x*+1, *y*, *z*+1/2; (vi) −*x*+1, −*y*, *z*; (vii) −*x*+3/2, −*y*+1/2, *z*−1/2; (viii) *x*+1, *y*, *z*; (ix) *x*, −*y*, *z*−1/2; (x) −*x*+1/2, −*y*+1/2, *z*−1/2; (xi) −*x*+1, *y*, *z*−1/2; (xii) *x*+1, −*y*, *z*+1/2; (xiii) −*x*+2, *y*, *z*+1/2; (xiv) −*x*+3/2, −*y*+1/2, *z*+1/2; (xv) *x*, −*y*, *z*+1/2; (xvi) −*x*, −*y*, *z*; (xvii) −*x*, *y*, *z*+1/2; (xviii) −*x*+1/2, *y*−1/2, *z*; (xix) *x*−1, *y*, *z*; (xx) *x*−1, −*y*, *z*−1/2; (xxi) −*x*+2, *y*, *z*−1/2; (xxii) −*x*+1/2, *y*+1/2, *z*; (xxiii) *x*−1/2, *y*+1/2, *z*−1/2.

Hydrogen-bond geometry (Å, °)

D—H···*A*	*D*—H	H···*A*	*D*···*A*	*D*—H···*A*
?—?···?	?	?	?	?

Fig. 1