

Table 20A-1-001. BiSbCl. Structure [80Vou]. Fractional coordinates of atoms at RT.

Atom		
Bi	<i>x</i>	0.13966(4)
	<i>y</i>	0.13230(3)
	<i>z</i>	1/4
S	<i>x</i>	0.8214(3)
	<i>y</i>	0.0486(2)
	<i>z</i>	1/4
Cl	<i>x</i>	0.5194(3)
	<i>y</i>	0.8073(2)
	<i>z</i>	1/4

Table 20A-1-002. BiSbCl. Structure [80Vou]. Anisotropic temperature parameters. U_{ij} [\AA^2] is defined by Eq. (d) in Introduction.

Atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{23}	U_{13}
Bi	0.0150(2)	0.0138(2)	0.0157(2)	−0.0022(1)	0	0
S	0.0140(8)	0.0124(7)	0.0130(8)	−0.0012(6)	0	0
Cl	0.0215(9)	0.0169(9)	0.0218(9)	−0.0037(7)	0	0

Table 20A-1-003. BiSbCl. Structure [80Vou]. Interatomic distances [\AA] at RT. See Fig. 22A-1-002 for the numbers assigned to the atoms.

Bi–Cl(1)	2.927(2) \AA	Cl(2)–Cl(3)	4.041(4) \AA
Cl(2)	2.927(2)	S(1)	3.492(3)
Cl(3)	3.367(2)	S(2)	3.873(3)
Cl(4)	3.367(2)		
S(1)	2.605(2)	Cl(3)–Cl(4)	3.996(0)
S(2)	2.711(1)	S(2)	3.360(3)
S(3)	2.711(1)	Cl(4)–S(3)	3.360(3)
Cl(1)–Cl(2)	3.996(0)	S(1)–S(2)	3.549(3)
Cl(4)	4.041(4)	S(3)	3.549(3)
S(1)	3.492(3)		
S(3)	3.873(3)	S(2)–S(3)	3.996(0)

Table 20A-1-004. BiSCI. Bond angles [°] [80Vou]. See Fig. 20A-1-002 for the numbers assigned to the atoms.

Cl(1)–Bi–Cl(2)	86.08(5)°	Bi–Cl(1)–Cl(2)	46.96(4)°
Cl(3)	128.93(6)	Cl(4)	55.03(4)
Cl(4)	79.55(6)	S(1)	46.86(4)
S(1)	78.05(6)	S(2)	44.33(3)
S(2)	161.45(7)		
S(3)	86.68(5)	Bi–Cl(2)–Cl(3)	55.03(4)
		S(1)	46.86(4)
Cl(2)–Bi–Cl(3)	79.55(6)	S(2)	44.33(3)
Cl(4)	128.93(6)		
S(1)	78.05(6)	Bi–Cl(3)–Cl(2)	45.43(4)
S(2)	86.68(5)	Cl(4)	53.61(4)
S(3)	161.45(7)	S(2)	47.52(4)
Cl(3)–Bi–Cl(4)	72.79(4)	Bi–Cl(4)–Cl(1)	45.43(4)
S(1)	143.20(3)	Cl(3)	53.61(4)
S(2)	66.11(6)	S(3)	47.52(4)
S(3)	118.01(6)		
		Bi–S(1)–Cl(1)	55.09(5)
Cl(4)–Bi–S(1)	143.20(3)	Cl(2)	55.09(5)
S(2)	118.01(6)	S(2)	49.40(4)
S(3)	66.11(6)	S(3)	49.40(4)
S(1)–Bi–S(2)	83.75(6)	Bi–S(2)–Cl(2)	48.99(4)
S(3)	83.75(6)	Cl(3)	66.37(5)
		S(1)	46.85(4)
S(2)–Bi–S(3)	94.96(5)	S(3)	42.52(3)
		Bi–S(3)–Cl(1)	48.99(4)
		Cl(4)	66.37(5)
		S(1)	46.85(4)
		S(2)	42.52(3)