Inorganic Chemistry
including bioinorganic chemistry
Inorg. Chem., 1997, 36(4), 684-687, DOI:10.1021/ic960566h

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Table S1. Summary of crystal data and structure refinement parameters for 1.

Formula	Hg3 Rb2 Te4
Formula weight	1283.11
Crystal system	Orthorhombic
Space group	Pbcn (# 60)
a, Å	12.177(2)
b, Å	7.245(2)
c, Å	14.545(2)
V, Å^3	1283.2(4)
Z	4
F(000)	2088
Density (calc), g cm^-3	6.642
Temperature, K	293(2)
Diffractometer	CAD4
Radiation (graph monochr),	0.71073
Absorption coefficient, mm^-1	52.195
Crystal size, mm	0.16 x 0.05 x 0.05
Colour	black
Shape	column
Scan method	omega
Scan interval, deg	1.0+0.35tg(theta)
Max time per reflection, s	60
Theta range, deg	3 to 27
Index ranges	0<=h<=15, 0<=k<=9,
0<=l<=18	
Reflections collected	1388
Independent reflections	1388 [R(int) = 0.0000]
Crystal decay, %	1.5
Absorption correction	psi-scan
No. azimut reflections	3
Min. transmission	0.327
Refinement method	Full-matrix Least-squares on Fo^2
Obs reflection criterion	>2sigma(I)
Extinction coefficient	0.00052(3)
Data / restraints / parameters	1388 / 0 / 43
Goodness-of-fit on Fo^2	1.106
R indices [Fo>4s(Fo)] (989 data)	R1 0.0340, wR2 0.0583
R indices (all data)	R1 0.0677, wR2 0.0653
Largest diff. peak and hole, e Å^-3	1.600 and -1.371

Weighting calc w=1/[s^2^(Fo^2^)+(0.0182P)^2^+10.6709P] where P=(Fo^2^+2Fc^2^)/3

Extinction expression:
Fc^*^=kFc[1+0.001xFc^2^\l^3^/sin(2\q)]^-1/4^

Table S2. Atomic coordinates and equivalent isotropic displacement parameters (Å^2) for 1. U(eq) is defined as one third of the trace of the orthogonalized Uij tensor.

	x	y	z	U(eq)	s.o.f.
Hg(1)	0.34384(5)	0.16204(8)	0.24495(4)	0.0380(2)	1
Hg(2)	0.0000	0.10002(11)	0.2500	0.0351(2)	1
Te(1)	0.15407(7)	0.33116(13)	0.15810(6)	0.0258(2)	1
Te(2)	0.42405(8)	0.35404(12)	0.38854(6)	0.0274(2)	1
Rb	0.36449(12)	0.8383(2)	0.45756(11)	0.0370(4)	1

Table S3. Bond lengths [Å] and angles [deg] for 1.

Hg(1)-Te(2)	2.6928(11)
Hg(1)-Te(1)#1	2.7098(12)
Hg(1)-Te(1)	2.9047(11)
Hg(1)-Hg(2)#2	3.7001(12)
Hg(1)-Te(2)#3	3.7006(12)
Hg(1)-Hg(1)#3	3.8060(14)
Hg(1)-Rb#4	3.889(2)
Hg(1)-Rb#5	4.188(2)
Hg(1)-Rb#1	4.199(2)
Hg(1)-Te(2)#1	4.4701(12)
Hg(1)-Te(1)#6	4.6911(12)
Hg(2)-Te(2)#1	2.8446(11)
Hg(2)-Te(2)#7	2.8447(11)
Hg(2)-Te(1)	2.8480(11)
Hg(2)-Te(1)#8	2.8480(11)
Hg(2)-Hg(1)#1	3.7001(12)
Hg(2)-Hg(1)#7	3.7001(12)
Hg(2)-Rb#1	3.849(2)
Hg(2)-Rb#7	3.849(2)
Hg(2)-Te(1)#1	4.8296(11)
Hg(2)-Te(1)#7	4.8297(11)
Te(1)-Hg(1)#9	2.7098(12)
Te(1)-Rb#10	3.781(2)
Te(1)-Rb#7	3.907(2)
Te(1)-Rb#5	4.072(2)
Te(1)-Te(2)#11	4.2517(13)
Te(1)-Te(1)#9	4.3106(13)
Te(1)-Te(1)#1	4.3106(13)
Te(1)-Rb#1	4.362(2)
Te(1)-Te(2)#7	4.501(2)
Te(1)-Te(1)#8	4.607(2)
Te(2)-Hg(2)#2	2.8446(11)
Te(2)-Rb#1	3.656(2)
Te(2)-Rb#12	3.685(2)
Te(2)-Hg(1)#3	3.7005(12)
Te(2)-Rb	3.721(2)
Te(2)-Rb#4	3.937(2)
Te(2)-Te(1)#13	4.2517(13)
Te(2)-Te(2)#12	4.290(2)
Te(2)-Te(2)#3	4.434(2)
Te(2)-Hg(1)#9	4.4702(12)
Te(2)-Te(1)#2	4.501(2)
Rb-Te(2)#9	3.656(2)
Rb-Te(2)#12	3.685(2)
Rb-Te(1)#14	3.781(2)
Rb-Hg(2)#2	3.849(2)

Rb-Hg(1)#15	3.889(2)
Rb-Te(1)#2	3.907(2)
Rb-Te(2)#15	3.937(2)
Rb-Te(1)#16	4.072(2)
Rb-Hg(1)#16	4.188(2)
Rb-Hg(1)#9	4.199(2)
Rb-Rb#17	4.232(3)

Te(2)-Hg(1)-Te(1)#1	144.60(4)
Te(2)-Hg(1)-Te(1)	114.08(3)
Te(1)#1-Hg(1)-Te(1)	100.25(3)
Te(2)-Hg(1)-Hg(2)#2	49.85(2)
Te(1)#1-Hg(1)-Hg(2)#2	139.74(3)
Te(1)-Hg(1)-Hg(2)#2	93.19(3)
Te(2)-Hg(1)-Te(2)#3	86.32(3)
Te(1)#1-Hg(1)-Te(2)#3	94.63(3)
Te(1)-Hg(1)-Te(2)#3	102.76(3)
Hg(2)#2-Hg(1)-Te(2)#3	45.21(2)
Te(2)-Hg(1)-Hg(1)#3	66.90(3)
Te(1)#1-Hg(1)-Hg(1)#3	90.49(3)
Te(1)-Hg(1)-Hg(1)#3	144.27(3)
Hg(2)#2-Hg(1)-Hg(1)#3	59.048(14)
Te(2)#3-Hg(1)-Hg(1)#3	42.02(2)
Te(2)-Hg(1)-Rb#4	70.82(4)
Te(1)#1-Hg(1)-Rb#4	80.59(3)
Te(1)-Hg(1)-Rb#4	130.66(3)
Hg(2)#2-Hg(1)-Rb#4	117.92(3)
Te(2)#3-Hg(1)-Rb#4	126.48(3)
Hg(1)#3-Hg(1)-Rb#4	84.53(3)
Te(2)-Hg(1)-Rb#5	138.83(4)
Te(1)#1-Hg(1)-Rb#5	62.20(3)
Te(1)-Hg(1)-Rb#5	67.28(3)
Hg(2)#2-Hg(1)-Rb#5	89.39(2)
Te(2)#3-Hg(1)-Rb#5	55.29(3)
Hg(1)#3-Hg(1)-Rb#5	88.77(3)
Rb#4-Hg(1)-Rb#5	142.13(2)
Te(2)-Hg(1)-Rb#1	59.39(3)
Te(1)#1-Hg(1)-Rb#1	128.18(3)
Te(1)-Hg(1)-Rb#1	73.22(3)
Hg(2)#2-Hg(1)-Rb#1	92.01(3)
Te(2)#3-Hg(1)-Rb#1	137.19(3)
Hg(1)#3-Hg(1)-Rb#1	125.12(3)
Rb#4-Hg(1)-Rb#1	68.71(4)
Rb#5-Hg(1)-Rb#1	140.50(2)
Te(2)-Hg(1)-Te(2)#1	99.22(3)
Te(1)#1-Hg(1)-Te(2)#1	77.47(3)
Te(1)-Hg(1)-Te(2)#1	80.40(3)
Hg(2)#2-Hg(1)-Te(2)#1	142.55(2)
Te(2)#3-Hg(1)-Te(2)#1	171.96(3)
Hg(1)#3-Hg(1)-Te(2)#1	135.33(2)

Rb#4-Hg(1)-Te(2)#1	51.29(3)
Rb#5-Hg(1)-Te(2)#1	120.66(3)
Rb#1-Hg(1)-Te(2)#1	50.71(3)
Te(2)-Hg(1)-Te(1)#6	74.85(3)
Te(1)#1-Hg(1)-Te(1)#6	71.37(3)
Te(1)-Hg(1)-Te(1)#6	170.74(2)
Hg(2)#2-Hg(1)-Te(1)#6	91.05(2)
Te(2)#3-Hg(1)-Te(1)#6	74.62(2)
Hg(1)#3-Hg(1)-Te(1)#6	35.28(2)
Rb#4-Hg(1)-Te(1)#6	53.18(3)
Rb#5-Hg(1)-Te(1)#6	104.56(3)
Rb#1-Hg(1)-Te(1)#6	114.87(3)
Te(2)#1-Hg(1)-Te(1)#6	101.08(2)
Te(2)#1-Hg(2)-Te(2)#7	102.42(5)
Te(2)#1-Hg(2)-Te(1)	119.12(3)
Te(2)#7-Hg(2)-Te(1)	104.48(3)
Te(2)#1-Hg(2)-Te(1)#8	104.48(3)
Te(2)#7-Hg(2)-Te(1)#8	119.13(3)
Te(1)-Hg(2)-Te(1)#8	107.97(5)
Te(2)#1-Hg(2)-Hg(1)#1	46.34(2)
Te(2)#7-Hg(2)-Hg(1)#1	67.40(3)
Te(1)-Hg(2)-Hg(1)#1	99.00(3)
Te(1)#8-Hg(2)-Hg(1)#1	148.44(3)
Te(2)#1-Hg(2)-Hg(1)#7	67.40(3)
Te(2)#7-Hg(2)-Hg(1)#7	46.35(2)
Te(1)-Hg(2)-Hg(1)#7	148.45(3)
Te(1)#8-Hg(2)-Hg(1)#7	99.00(3)
Hg(1)#1-Hg(2)-Hg(1)#7	61.90(3)
Te(2)#1-Hg(2)-Rb#1	65.54(3)
Te(2)#7-Hg(2)-Rb#1	167.40(4)
Te(1)-Hg(2)-Rb#1	79.75(3)
Te(1)#8-Hg(2)-Rb#1	69.55(3)
Hg(1)#1-Hg(2)-Rb#1	100.36(3)
Hg(1)#7-Hg(2)-Rb#1	126.11(3)
Te(2)#1-Hg(2)-Rb#7	167.40(4)
Te(2)#7-Hg(2)-Rb#7	65.54(3)
Te(1)-Hg(2)-Rb#7	69.55(3)
Te(1)#8-Hg(2)-Rb#7	79.75(3)
Hg(1)#1-Hg(2)-Rb#7	126.11(3)
Hg(1)#7-Hg(2)-Rb#7	100.36(3)
Rb#1-Hg(2)-Rb#7	126.71(5)
Te(2)#1-Hg(2)-Te(1)#1	70.11(2)
Te(2)#7-Hg(2)-Te(1)#1	80.49(3)
Te(1)-Hg(2)-Te(1)#1	62.14(2)
Te(1)#8-Hg(2)-Te(1)#1	160.32(3)
Hg(1)#1-Hg(2)-Te(1)#1	36.906(14)
Hg(1)#7-Hg(2)-Te(1)#1	96.19(3)
Rb#1-Hg(2)-Te(1)#1	91.38(3)
Rb#7-Hg(2)-Te(1)#1	109.74(3)
Te(2)#1-Hg(2)-Te(1)#7	80.49(3)

Te(2)#7-Hg(2)-Te(1)#7	70.12(2)
Te(1)-Hg(2)-Te(1)#7	160.33(3)
Te(1)#8-Hg(2)-Te(1)#7	62.14(2)
Hg(1)#1-Hg(2)-Te(1)#7	96.19(3)
Hg(1)#7-Hg(2)-Te(1)#7	36.906(14)
Rb#1-Hg(2)-Te(1)#7	109.74(3)
Rb#7-Hg(2)-Te(1)#7	91.38(3)
Te(1)#1-Hg(2)-Te(1)#7	132.43(3)
Hg(1)#9-Te(1)-Hg(2)	107.91(4)
Hg(1)#9-Te(1)-Hg(1)	99.38(3)
Hg(2)-Te(1)-Hg(1)	94.12(3)
Hg(1)#9-Te(1)-Rb#10	78.46(4)
Hg(2)-Te(1)-Rb#10	134.04(4)
Hg(1)-Te(1)-Rb#10	130.56(4)
Hg(1)#9-Te(1)-Rb#7	101.39(4)
Hg(2)-Te(1)-Rb#7	67.38(3)
Hg(1)-Te(1)-Rb#7	155.61(4)
Rb#10-Te(1)-Rb#7	66.77(4)
Hg(1)#9-Te(1)-Rb#5	126.50(4)
Hg(2)-Te(1)-Rb#5	124.99(4)
Hg(1)-Te(1)-Rb#5	71.57(3)
Rb#10-Te(1)-Rb#5	71.09(4)
Rb#7-Te(1)-Rb#5	105.27(3)
Hg(1)#9-Te(1)-Te(2)#11	135.33(3)
Hg(2)-Te(1)-Te(2)#11	95.73(3)
Hg(1)-Te(1)-Te(2)#11	116.48(3)
Rb#10-Te(1)-Te(2)#11	58.34(3)
Rb#7-Te(1)-Te(2)#11	53.50(3)
Rb#5-Te(1)-Te(2)#11	52.05(3)
Hg(1)#9-Te(1)-Te(1)#9	41.54(2)
Hg(2)-Te(1)-Te(1)#9	148.34(2)
Hg(1)-Te(1)-Te(1)#9	85.60(4)
Rb#10-Te(1)-Te(1)#9	60.00(3)
Rb#7-Te(1)-Te(1)#9	118.56(3)
Rb#5-Te(1)-Te(1)#9	84.97(3)
Te(2)#11-Te(1)-Te(1)#9	112.74(2)
Hg(1)#9-Te(1)-Te(1)#1	137.59(4)
Hg(2)-Te(1)-Te(1)#1	82.12(2)
Hg(1)-Te(1)-Te(1)#1	38.22(2)
Rb#10-Te(1)-Te(1)#1	124.38(3)
Rb#7-Te(1)-Te(1)#1	120.02(3)
Rb#5-Te(1)-Te(1)#1	53.53(3)
Te(2)#11-Te(1)-Te(1)#1	81.72(2)
Te(1)#9-Te(1)-Te(1)#1	114.36(4)
Hg(1)#9-Te(1)-Rb#1	61.61(3)
Hg(2)-Te(1)-Rb#1	60.27(3)
Hg(1)-Te(1)-Rb#1	67.16(3)
Rb#10-Te(1)-Rb#1	139.45(3)
Rb#7-Te(1)-Rb#1	112.52(3)
Rb#5-Te(1)-Rb#1	138.72(3)

Te(2)#11-Te(1)-Rb#1	155.92(3)
Te(1)#9-Te(1)-Rb#1	91.04(2)
Te(1)#1-Te(1)-Rb#1	92.18(2)
Hg(1)#9-Te(1)-Te(2)#7	139.08(4)
Hg(2)-Te(1)-Te(2)#7	37.73(2)
Hg(1)-Te(1)-Te(2)#7	103.69(3)
Rb#10-Te(1)-Te(2)#7	109.45(3)
Rb#7-Te(1)-Te(2)#7	51.94(3)
Rb#5-Te(1)-Te(2)#7	92.98(3)
Te(2)#11-Te(1)-Te(2)#7	58.62(2)
Te(1)#9-Te(1)-Te(2)#7	169.36(2)
Te(1)#1-Te(1)-Te(2)#7	72.05(2)
Rb#1-Te(1)-Te(2)#7	97.32(3)
Hg(1)#9-Te(1)-Te(1)#8	74.76(3)
Hg(2)-Te(1)-Te(1)#8	36.02(2)
Hg(1)-Te(1)-Te(1)#8	113.30(3)
Rb#10-Te(1)-Te(1)#8	113.52(3)
Rb#7-Te(1)-Te(1)#8	60.98(3)
Rb#5-Te(1)-Te(1)#8	158.15(3)
Te(2)#11-Te(1)-Te(1)#8	110.66(3)
Te(1)#9-Te(1)-Te(1)#8	116.194(14)
Te(1)#1-Te(1)-Te(1)#8	116.194(14)
Rb#1-Te(1)-Te(1)#8	51.56(3)
Te(2)#7-Te(1)-Te(1)#8	65.21(2)
Hg(1)-Te(2)-Hg(2)#2	83.81(3)
Hg(1)-Te(2)-Rb#1	81.27(4)
Hg(2)#2-Te(2)-Rb#1	121.77(4)
Hg(1)-Te(2)-Rb#12	121.95(4)
Hg(2)#2-Te(2)-Rb#12	116.10(4)
Rb#1-Te(2)-Rb#12	119.53(3)
Hg(1)-Te(2)-Hg(1)#3	71.09(3)
Hg(2)#2-Te(2)-Hg(1)#3	67.39(3)
Rb#1-Te(2)-Hg(1)#3	150.04(4)
Rb#12-Te(2)-Hg(1)#3	69.08(3)
Hg(1)-Te(2)-Rb	128.73(4)
Hg(2)#2-Te(2)-Rb	70.35(4)
Rb#1-Te(2)-Rb	76.58(3)
Rb#12-Te(2)-Rb	109.20(4)
Hg(1)#3-Te(2)-Rb	130.16(4)
Hg(1)-Te(2)-Rb#4	68.93(3)
Hg(2)#2-Te(2)-Rb#4	146.64(4)
Rb#1-Te(2)-Rb#4	73.93(4)
Rb#12-Te(2)-Rb#4	67.36(4)
Hg(1)#3-Te(2)-Rb#4	85.28(3)
Rb-Te(2)-Rb#4	142.22(5)
Hg(1)-Te(2)-Te(1)#13	118.10(3)
Hg(2)#2-Te(2)-Te(1)#13	157.47(3)
Rb#1-Te(2)-Te(1)#13	61.44(3)
Rb#12-Te(2)-Te(1)#13	58.46(3)
Hg(1)#3-Te(2)-Te(1)#13	122.42(3)

Rb-Te(2)-Te(1)#13	90.30(3)
Rb#4-Te(2)-Te(1)#13	54.83(3)
Hg(1)-Te(2)-Te(2)#12	175.70(5)
Hg(2)#2-Te(2)-Te(2)#12	94.95(4)
Rb#1-Te(2)-Te(2)#12	102.84(4)
Rb#12-Te(2)-Te(2)#12	54.98(3)
Hg(1)#3-Te(2)-Te(2)#12	104.63(4)
Rb-Te(2)-Te(2)#12	54.22(3)
Rb#4-Te(2)-Te(2)#12	110.77(4)
Te(1)#13-Te(2)-Te(2)#12	63.59(3)
Hg(1)-Te(2)-Te(2)#3	56.39(2)
Hg(2)#2-Te(2)-Te(2)#3	38.79(2)
Rb#1-Te(2)-Te(2)#3	130.57(4)
Rb#12-Te(2)-Te(2)#3	105.10(4)
Hg(1)#3-Te(2)-Te(2)#3	37.30(2)
Rb-Te(2)-Te(2)#3	109.06(3)
Rb#4-Te(2)-Te(2)#3	107.98(3)
Te(1)#13-Te(2)-Te(2)#3	158.66(3)
Te(2)#12-Te(2)-Te(2)#3	120.47(4)
Hg(1)-Te(2)-Hg(1)#9	68.33(3)
Hg(2)#2-Te(2)-Hg(1)#9	66.02(2)
Rb#1-Te(2)-Hg(1)#9	56.12(3)
Rb#12-Te(2)-Hg(1)#9	169.22(3)
Hg(1)#3-Te(2)-Hg(1)#9	119.99(2)
Rb-Te(2)-Hg(1)#9	60.86(3)
Rb#4-Te(2)-Hg(1)#9	117.29(3)
Te(1)#13-Te(2)-Hg(1)#9	115.16(3)
Te(2)#12-Te(2)-Hg(1)#9	114.94(3)
Te(2)#3-Te(2)-Hg(1)#9	83.09(2)
Hg(1)-Te(2)-Te(1)#2	120.38(3)
Hg(2)#2-Te(2)-Te(1)#2	37.79(2)
Rb#1-Te(2)-Te(1)#2	131.57(4)
Rb#12-Te(2)-Te(1)#2	86.97(4)
Hg(1)#3-Te(2)-Te(1)#2	74.59(3)
Rb-Te(2)-Te(1)#2	55.79(3)
Rb#4-Te(2)-Te(1)#2	151.91(3)
Te(1)#13-Te(2)-Te(1)#2	121.37(2)
Te(2)#12-Te(2)-Te(1)#2	57.79(2)
Te(2)#3-Te(2)-Te(1)#2	66.64(2)
Hg(1)#9-Te(2)-Te(1)#2	90.02(3)
Te(2)#9-Rb-Te(2)#12	148.22(5)
Te(2)#9-Rb-Te(2)	98.20(4)
Te(2)#12-Rb-Te(2)	70.80(4)
Te(2)#9-Rb-Te(1)#14	97.74(4)
Te(2)#12-Rb-Te(1)#14	79.20(4)
Te(2)-Rb-Te(1)#14	144.80(5)
Te(2)#9-Rb-Hg(2)#2	102.16(4)
Te(2)#12-Rb-Hg(2)#2	90.42(4)
Te(2)-Rb-Hg(2)#2	44.10(2)
Te(1)#14-Rb-Hg(2)#2	156.17(5)

Te(2)#9-Rb-Hg(1)#15	72.59(3)
Te(2)#12-Rb-Hg(1)#15	139.12(5)
Te(2)-Rb-Hg(1)#15	111.52(4)
Te(1)#14-Rb-Hg(1)#15	103.15(4)
Hg(2)#2-Rb-Hg(1)#15	71.01(3)
Te(2)#9-Rb-Te(1)#2	138.55(5)
Te(2)#12-Rb-Te(1)#2	68.03(3)
Te(2)-Rb-Te(1)#2	72.27(3)
Te(1)#14-Rb-Te(1)#2	113.23(4)
Hg(2)#2-Rb-Te(1)#2	43.08(2)
Hg(1)#15-Rb-Te(1)#2	73.98(3)
Te(2)#9-Rb-Te(2)#15	94.44(4)
Te(2)#12-Rb-Te(2)#15	112.65(4)
Te(2)-Rb-Te(2)#15	142.22(5)
Te(1)#14-Rb-Te(2)#15	66.83(3)
Hg(2)#2-Rb-Te(2)#15	98.44(4)
Hg(1)#15-Rb-Te(2)#15	40.24(2)
Te(1)#2-Rb-Te(2)#15	74.72(3)
Te(2)#9-Rb-Te(1)#16	66.51(3)
Te(2)#12-Rb-Te(1)#16	83.72(4)
Te(2)-Rb-Te(1)#16	91.81(4)
Te(1)#14-Rb-Te(1)#16	66.47(3)
Hg(2)#2-Rb-Te(1)#16	134.13(5)
Hg(1)#15-Rb-Te(1)#16	135.29(4)
Te(1)#2-Rb-Te(1)#16	150.73(4)
Te(2)#15-Rb-Te(1)#16	125.79(4)
Te(2)#9-Rb-Hg(1)#16	102.50(4)
Te(2)#12-Rb-Hg(1)#16	55.63(3)
Te(2)-Rb-Hg(1)#16	106.29(4)
Te(1)#14-Rb-Hg(1)#16	39.35(2)
Hg(2)#2-Rb-Hg(1)#16	143.94(4)
Hg(1)#15-Rb-Hg(1)#16	142.19(4)
Te(1)#2-Rb-Hg(1)#16	118.94(4)
Te(2)#15-Rb-Hg(1)#16	105.44(4)
Te(1)#16-Rb-Hg(1)#16	41.15(2)
Te(2)#9-Rb-Hg(1)#9	39.34(2)
Te(2)#12-Rb-Hg(1)#9	138.98(5)
Te(2)-Rb-Hg(1)#9	68.42(3)
Te(1)#14-Rb-Hg(1)#9	136.45(4)
Hg(2)#2-Rb-Hg(1)#9	62.93(3)
Hg(1)#15-Rb-Hg(1)#9	63.82(3)
Te(1)#2-Rb-Hg(1)#9	102.95(4)
Te(2)#15-Rb-Hg(1)#9	102.25(4)
Te(1)#16-Rb-Hg(1)#9	93.19(3)
Hg(1)#16-Rb-Hg(1)#9	134.33(4)
Te(2)#9-Rb-Rb#17	144.33(7)
Te(2)#12-Rb-Rb#17	59.15(4)
Te(2)-Rb-Rb#17	116.67(6)
Te(1)#14-Rb-Rb#17	58.05(4)
Hg(2)#2-Rb-Rb#17	98.21(5)

Hg(1)#15-Rb-Rb#17	87.04(5)
Te(1)#2-Rb-Rb#17	55.18(4)
Te(2)#15-Rb-Rb#17	53.49(4)
Te(1)#16-Rb-Rb#17	116.66(6)
Hg(1)#16-Rb-Rb#17	75.87(4)
Hg(1)#9-Rb-Rb#17	148.70(6)

Symmetry transformations used to generate equivalent atoms:

#1 -x+1/2,y-1/2,z #2 x+1/2,y+1/2,-z+1/2
#3 -x+1,y,-z+1/2 #4 x,y-1,z #5 x,-y+1,z-1/2
#6 x+1/2,y-1/2,-z+1/2 #7 x-1/2,y-1/2,-z+1/2
#8 -x,y,-z+1/2 #9 -x+1/2,y+1/2,z
#10 -x+1/2,-y+3/2,z-1/2
#11 -x+1/2,-y+1/2,z-1/2 #12 -x+1,-y+1,-z+1
#13 -x+1/2,-y+1/2,z+1/2 #14 -x+1/2,-y+3/2,z+1/2
#15 x,y+1,z #16 x,-y+1,z+1/2 #17 -x+1,-y+2,-z+1

Table S4. Anisotropic displacement parameters (Å^2) for 1.
The anisotropic displacement factor exponent takes the form:
-2 p^2 [h^2 a*^2 U11 + ... + 2 h k a* b* U12]

	U11	U22	U33	U23	U13	U12
Hg(1)	0.0451(4)	0.0310(3)	0.0380(3)	-0.0069(3)	-0.0045(3)	-0.0009(3)
Hg(2)	0.0378(5)	0.0282(4)	0.0392(5)	0.000	-0.0067(4)	0.000
Te(1)	0.0257(5)	0.0222(4)	0.0294(5)	-0.0001(4)	-0.0019(4)	-0.0003(4)
Te(2)	0.0310(5)	0.0242(5)	0.0271(5)	0.0025(4)	-0.0018(4)	-0.0023(5)
Rb	0.0327(8)	0.0362(7)	0.0422(8)	-0.0056(7)	-0.0064(7)	0.0030(7)

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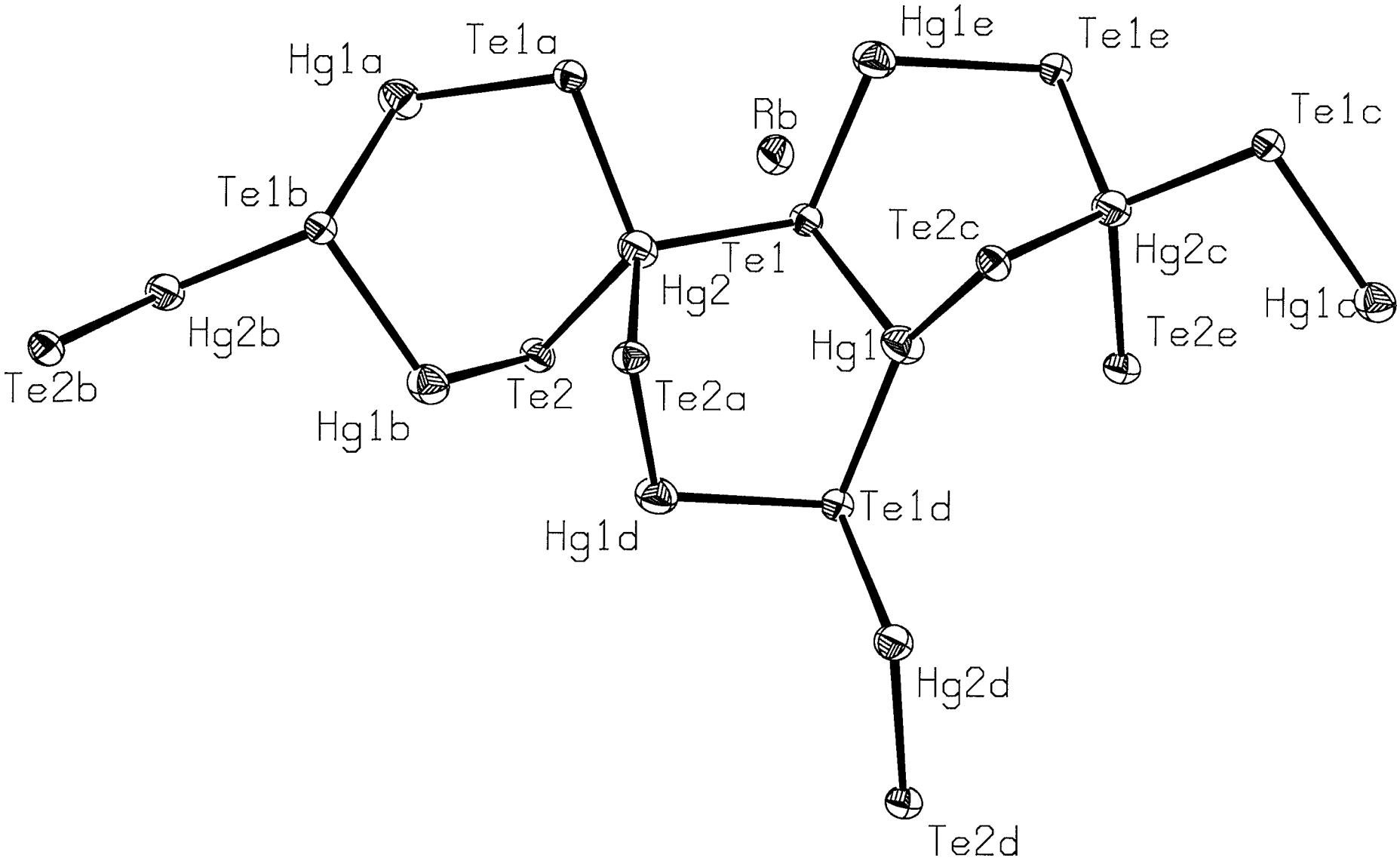
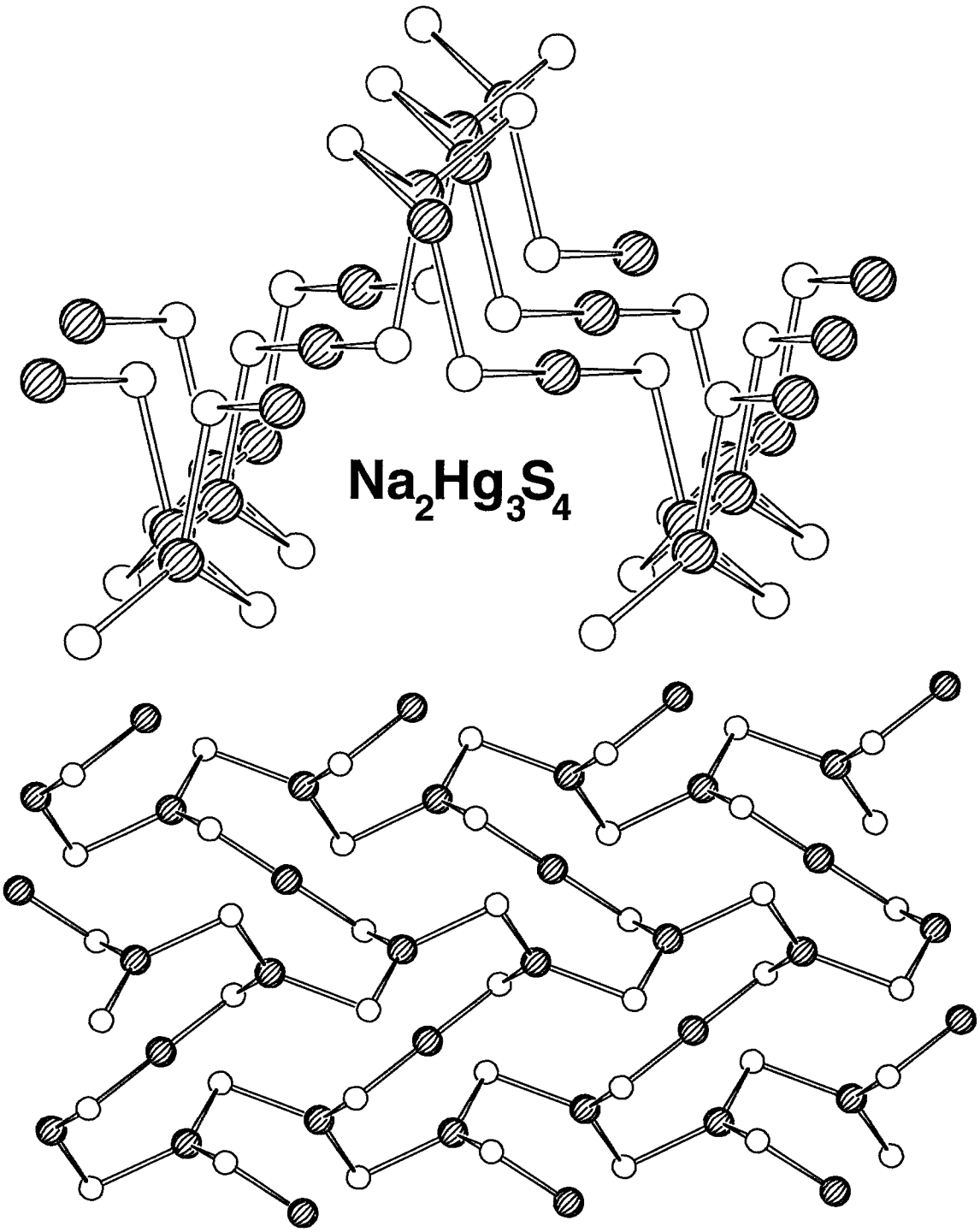


a view of $Rb_2Hg_3Te_4$ showing thermal vibration ellipsoids



a plot of $Na_2Hg_3S_4$