

<i>Crystal data</i>	<i>Crystal data</i>
$C_{32}H_{29}ClMo_2O_4Te_3 \cdot 2CH_2Cl_2$	Mo $K\alpha$ radiation
Mr= 1257.58	$\lambda = 0.71073\text{\AA}$
Monoclinic	cell parameters from 25
P21/c(#14)	reflections
F(000) = 2304	$\theta = 14.98 - 15.83^\circ$
a= 9.856(3) $\text{\AA}$	$\mu = 3.218\text{ mm}^{-1}$
b=19.4599(6) $\text{\AA}$	T= 296K
c=20.418(3) $\text{\AA}$	
$\beta = 95.91(3)^\circ$	0.90x0.40x0.30 mm
V = 3895(2) $\text{\AA}^3$	
Z= 4	
Dx=2.083 Mg m $^{-3}$	Rint : 0.019
<i>Data collection</i>	$\theta_{\text{max}}=25^\circ$
Enraf-Nonius CAD4 diffractometer	h = -11 $\rightarrow$ 0
$\omega/2\theta$ scans	k = 0 $\rightarrow$ 23
Absorption correction: ψ scans	l = -24 $\rightarrow$ 24
(TEXSAN; Molecular Structure Corporation, 1989)	3 standard reflections
Tmin = 0.7530, Tmax = 1.000	monitored every 300
7502 measured reflection	reflections
7189 independent reflections	intensity decay: 7.1%
5953 observed reflections	scan width: ($0.75+0.35\tan\theta$) $^\circ$
[I>3 σ (I)]	
<i>Refinement</i>	$\Delta\rho_{\text{max}} = 0.706\text{ e}\text{\AA}^{-3}$
Refinement on F	$\Delta\rho_{\text{min}} = -0.495\text{ e}\text{\AA}^{-3}$
R=0.034	extinction correction: 4.51×10^{-7}
wR=0.047	atomic scattering factors
S=1.38	from International Tables
5953 reflections	for X-Ray Crystallography
434 parameters	(1974, Vol.IV)
$w=1/\sigma^2(F)$	
(Δ/σ) $_{\text{max}} = 0.001$	

Table 2. Atomic Coordinates and Equivalent Isotropic Temperature Factors for **4b**

atom	x	y	z	B(eq)
Te(1)	0.41292(4)	0.152990(19)	0.677924(17)	2.84(2)
Te(2)	0.81345(4)	0.256319(19)	0.607262(18)	2.89(2)
Te(3)	0.67706(4)	0.094944(18)	0.599988(17)	2.74(2)
Mo(1)	0.68409(5)	0.18807(2)	0.70096(2)	2.50(2)
Mo(2)	0.54381(5)	0.21803(2)	0.58295(2)	2.38(2)
Cl(1)	0.56880(14)	0.30028(7)	0.67652(7)	3.05(5)
O(1)	0.6737(5)	0.0148(2)	0.8199(2)	4.8(2)
O(2)	0.5074(5)	0.0875(3)	0.8415(2)	5.2(2)
O(3)	0.5737(5)	0.4051(2)	0.5226(2)	4.4(2)
O(4)	0.7107(5)	0.3476(2)	0.4620(2)	4.5(2)
C(11)	0.7068(6)	0.1302(3)	0.7995(3)	3.4(2)
C(12)	0.6918(7)	0.2026(3)	0.8102(3)	3.7(3)
C(13)	0.8082(7)	0.2348(3)	0.7886(3)	4.2(3)
C(14)	0.8952(6)	0.1847(4)	0.7675(3)	4.2(3)
C(15)	0.8330(6)	0.1196(3)	0.7736(3)	3.8(3)
C(16)	0.6157(7)	0.0764(3)	0.8218(3)	4.0(3)
C(17)	0.5918(9)	-0.0413(4)	0.8396(4)	6.1(4)
C(21)	0.5189(6)	0.2919(3)	0.4969(3)	3.1(2)
C(22)	0.5412(6)	0.2237(3)	0.4734(2)	3.2(2)
C(23)	0.4272(6)	0.1841(3)	0.4851(3)	3.6(3)
C(24)	0.3346(6)	0.2261(3)	0.5142(3)	3.8(3)
C(25)	0.3885(6)	0.2919(3)	0.5228(3)	3.5(3)
C(26)	0.6110(6)	0.3493(3)	0.4909(3)	3.3(2)
C(27)	0.6643(9)	0.4622(4)	0.5227(5)	6.1(4)
C(31)	0.3013(6)	0.2310(3)	0.7232(3)	3.2(2)
C(32)	0.3030(7)	0.2318(4)	0.7916(3)	4.1(3)
C(33)	0.2275(8)	0.2807(4)	0.8200(3)	5.1(3)
C(34)	0.1505(7)	0.3277(4)	0.7837(4)	5.0(3)
C(35)	0.1455(7)	0.3261(4)	0.7156(4)	4.7(3)
C(36)	0.2196(7)	0.2776(4)	0.6860(3)	4.2(3)
C(41)	0.9292(6)	0.1898(3)	0.5510(3)	3.5(3)
C(42)	0.9194(6)	0.1991(4)	0.4829(3)	4.0(3)
C(43)	0.9892(7)	0.1561(4)	0.4443(3)	5.1(4)
C(44)	1.0673(8)	0.1045(4)	0.4732(4)	5.7(4)
C(45)	1.0816(7)	0.0952(4)	0.5398(4)	5.2(4)
C(46)	1.0124(6)	0.1388(4)	0.5796(4)	4.5(3)
C(51)	0.5393(6)	0.0129(3)	0.6157(3)	3.1(2)
C(52)	0.4185(6)	0.0033(3)	0.5762(3)	3.7(3)
C(53)	0.3360(7)	-0.0528(3)	0.5862(4)	4.5(3)
C(54)	0.3739(9)	-0.0982(3)	0.6357(4)	5.1(4)
C(55)	0.4951(8)	-0.0918(3)	0.6728(4)	4.7(3)
C(56)	0.5792(7)	-0.0359(3)	0.6637(3)	4.2(3)
Cl(2)	1.0564(4)	0.00092(17)	0.69052(14)	10.1(2)
Cl(3)	1.1850(4)	-0.06631(18)	0.8022(2)	13.0(2)
Cl(4)	0.1452(4)	0.3802(3)	0.40721(17)	12.7(2)
Cl(5)	0.0715(3)	0.4053(2)	0.53571(17)	10.9(2)
C(1)	1.1896(11)	0.0030(5)	0.7521(6)	8.7(6)
C(2)	0.0199(12)	0.3942(10)	0.4512(7)	14(1)

Table 3. Bond Lengths (Å) for 4b

atom	atom	distance	atom	atom	distance
Mo (1)	Mo (2)	2.714(6)	C (12)	C (13)	1.42(1)
Te (1)	Mo (2)	2.747(4)	C (13)	C (14)	1.39(1)
Te (1)	Mo (1)	2.752(2)	C (14)	C (15)	1.42(1)
Te (2)	Mo (1)	2.748(4)	C (21)	C (22)	1.436(8)
Te (2)	Mo (2)	2.756(3)	C (21)	C (25)	1.440(9)
Te (3)	Mo (2)	2.735(1)	C (21)	C (26)	1.453(8)
Te (3)	Mo (1)	2.741(1)	C (22)	C (23)	1.403(9)
Mo (1)	Cl (1)	2.487(2)	C (23)	C (24)	1.401(9)
Mo (2)	Cl (1)	2.486(2)	C (24)	C (25)	1.391(9)
Te (1)	C (31)	2.140(6)	C (31)	C (36)	1.384(9)
Te (2)	C (41)	2.137(7)	C (31)	C (32)	1.396(8)
Te (3)	C (51)	2.142(6)	C (32)	C (33)	1.37(1)
Mo (1)	C (12)	2.242(6)	C (33)	C (34)	1.36(1)
Mo (1)	C (13)	2.254(8)	C (34)	C (35)	1.39(1)
Mo (1)	C (11)	2.296(5)	C (35)	C (36)	1.37(1)
Mo (1)	C (14)	2.366(8)	C (41)	C (46)	1.377(9)
Mo (1)	C (15)	2.382(7)	C (41)	C (42)	1.395(8)
Mo (2)	C (22)	2.237(5)	C (42)	C (43)	1.38(1)
Mo (2)	C (21)	2.263(6)	C (43)	C (44)	1.36(1)
Mo (2)	C (23)	2.298(7)	C (44)	C (45)	1.36(1)
Mo (2)	C (25)	2.350(7)	C (45)	C (46)	1.40(1)
Mo (2)	C (24)	2.376(8)	C (51)	C (52)	1.381(9)
O (1)	C (16)	1.330(8)	C (51)	C (56)	1.392(8)
O (1)	C (17)	1.441(9)	C (52)	C (53)	1.391(9)
O (2)	C (16)	1.198(8)	C (53)	C (54)	1.36(1)
O (3)	C (26)	1.336(7)	C (54)	C (55)	1.35(1)
O (3)	C (27)	1.426(9)	C (55)	C (56)	1.39(1)
O (4)	C (26)	1.197(8)	Cl (2)	C (1)	1.72(1)
C (11)	C (15)	1.415(9)	Cl (3)	C (1)	1.70(1)
C (11)	C (12)	1.435(8)	Cl (4)	C (2)	1.62(1)
C (11)	C (16)	1.482(9)	Cl (5)	C (2)	1.76(1)

Distances are in angstroms. Estimated standard deviations in the least significant figure are given in parentheses.

Table 4. Bond Angles (deg.) for 4b

atom	atom	atom	angle	atom	atom	atom	angle
C (31)	Te (1)	Mo (2)	106.1 (2)	C (11)	Mo (1)	C (14)	58.9 (3)
C (31)	Te (1)	Mo (1)	106.4 (2)	C (11)	Mo (1)	C (15)	35.2 (2)
Mo (2)	Te (1)	Mo (1)	59.2 (2)	C (11)	Mo (1)	Cl (1)	127.4 (2)
C (41)	Te (2)	Mo (1)	113.1 (2)	C (11)	Mo (1)	Mo (2)	151.3 (2)
C (41)	Te (2)	Mo (2)	107.3 (2)	C (11)	Mo (1)	Te (3)	109.1 (2)
Mo (1)	Te (2)	Mo (2)	59.1 (2)	C (11)	Mo (1)	Te (2)	146.8 (2)
C (51)	Te (3)	Mo (2)	111.6 (1)	C (11)	Mo (1)	Te (1)	91.9 (3)
C (51)	Te (3)	Mo (1)	110.4 (2)	C (14)	Mo (1)	C (15)	34.8 (2)
Mo (2)	Te (3)	Mo (1)	59.4 (1)	C (14)	Mo (1)	Cl (1)	119.7 (2)
C (12)	Mo (1)	C (13)	36.7 (3)	C (14)	Mo (1)	Mo (2)	148.6 (2)
C (12)	Mo (1)	C (11)	36.9 (2)	C (14)	Mo (1)	Te (3)	111.6 (2)
C (12)	Mo (1)	C (14)	59.6 (3)	C (14)	Mo (1)	Te (2)	88.2 (2)
C (12)	Mo (1)	C (15)	59.7 (3)	C (14)	Mo (1)	Te (1)	150.7 (2)
C (12)	Mo (1)	Cl (1)	93.2 (2)	C (15)	Mo (1)	Cl (1)	148.7 (2)
C (12)	Mo (1)	Mo (2)	144.9 (2)	C (15)	Mo (1)	Mo (2)	153.8 (2)
C (12)	Mo (1)	Te (3)	145.9 (2)	C (15)	Mo (1)	Te (3)	93.8 (2)
C (12)	Mo (1)	Te (2)	131.3 (2)	C (15)	Mo (1)	Te (2)	113.8 (2)
C (12)	Mo (1)	Te (1)	97.7 (3)	C (15)	Mo (1)	Te (1)	119.5 (2)
C (13)	Mo (1)	C (11)	60.4 (2)	Cl (1)	Mo (1)	Mo (2)	56.90 (8)
C (13)	Mo (1)	C (14)	35.0 (3)	Cl (1)	Mo (1)	Te (3)	117.0 (1)
C (13)	Mo (1)	C (15)	58.8 (3)	Cl (1)	Mo (1)	Te (2)	70.8 (1)
C (13)	Mo (1)	Cl (1)	90.2 (2)	Cl (1)	Mo (1)	Te (1)	76.63 (7)
C (13)	Mo (1)	Mo (2)	143.5 (2)	Mo (2)	Mo (1)	Te (3)	60.18 (6)
C (13)	Mo (1)	Te (3)	146.5 (2)	Mo (2)	Mo (1)	Te (2)	60.60 (4)
C (13)	Mo (1)	Te (2)	96.0 (2)	Mo (2)	Mo (1)	Te (1)	60.3 (2)
C (13)	Mo (1)	Te (1)	132.4 (3)	Te (3)	Mo (1)	Te (2)	76.93 (8)
Te (3)	Mo (1)	Te (1)	76.0 (2)	C (25)	Mo (2)	C (24)	34.2 (2)
Te (2)	Mo (1)	Te (1)	120.9 (2)	C (25)	Mo (2)	Cl (1)	90.9 (2)
C (22)	Mo (2)	C (21)	37.2 (2)	C (25)	Mo (2)	Mo (1)	147.1 (2)
C (22)	Mo (2)	C (23)	36.0 (2)	C (25)	Mo (2)	Te (3)	151.5 (2)
C (22)	Mo (2)	C (25)	60.5 (3)	C (25)	Mo (2)	Te (1)	108.8 (2)
C (22)	Mo (2)	C (24)	59.1 (3)	C (25)	Mo (2)	Te (2)	119.5 (2)
C (22)	Mo (2)	Cl (1)	136.6 (2)	C (24)	Mo (2)	Cl (1)	115.1 (2)
C (22)	Mo (2)	Mo (1)	148.3 (2)	C (24)	Mo (2)	Mo (1)	150.4 (2)
C (22)	Mo (2)	Te (3)	97.2 (2)	C (24)	Mo (2)	Te (3)	120.5 (2)
C (22)	Mo (2)	Te (1)	140.4 (2)	C (24)	Mo (2)	Te (1)	90.3 (2)
C (22)	Mo (2)	Te (2)	94.5 (3)	C (24)	Mo (2)	Te (2)	148.3 (2)
C (21)	Mo (2)	C (23)	60.2 (2)	Cl (1)	Mo (2)	Mo (1)	56.94 (7)
C (21)	Mo (2)	C (25)	36.3 (2)	Cl (1)	Mo (2)	Te (3)	117.2 (1)
C (21)	Mo (2)	C (24)	58.8 (2)	Cl (1)	Mo (2)	Te (1)	76.76 (7)
C (21)	Mo (2)	Cl (1)	100.5 (2)	Cl (1)	Mo (2)	Te (2)	70.7 (2)
C (21)	Mo (2)	Mo (1)	146.0 (1)	Mo (1)	Mo (2)	Te (3)	60.40 (8)
C (21)	Mo (2)	Te (3)	131.8 (2)	Mo (1)	Mo (2)	Te (1)	60.53 (4)
C (21)	Mo (2)	Te (1)	145.0 (1)	Mo (1)	Mo (2)	Te (2)	60.3 (2)
C (21)	Mo (2)	Te (2)	89.6 (3)	Te (3)	Mo (2)	Te (1)	76.2 (1)
C (23)	Mo (2)	C (25)	58.7 (3)	Te (3)	Mo (2)	Te (2)	76.90 (5)
C (23)	Mo (2)	C (24)	34.8 (3)	Te (1)	Mo (2)	Te (2)	120.8 (2)
C (23)	Mo (2)	Cl (1)	148.8 (2)	Mo (2)	Cl (1)	Mo (1)	66.2 (1)
C (23)	Mo (2)	Mo (1)	150.9 (2)	C (16)	O (1)	C (17)	114.9 (6)
C (23)	Mo (2)	Te (3)	92.8 (2)	C (26)	O (3)	C (27)	115.5 (6)
C (23)	Mo (2)	Te (1)	104.6 (2)	C (15)	C (11)	C (12)	107.9 (6)
C (23)	Mo (2)	Te (2)	128.4 (3)	C (15)	C (11)	C (16)	126.6 (6)

Angles are in degrees. Estimated standard deviations in the least significant figure are given in parentheses.

Intramolecular Bond Angles Involving the Nonhydrogen Atoms (cont)

atom	atom	atom	angle	atom	atom	atom	angle
C(15)	C(11)	Mo(1)	75.7(4)	C(23)	C(22)	Mo(2)	74.4(4)
C(12)	C(11)	C(16)	124.9(6)	C(21)	C(22)	Mo(2)	72.4(3)
C(12)	C(11)	Mo(1)	69.5(3)	C(24)	C(23)	C(22)	108.7(5)
C(16)	C(11)	Mo(1)	127.5(4)	C(24)	C(23)	Mo(2)	75.6(4)
C(13)	C(12)	C(11)	106.7(6)	C(22)	C(23)	Mo(2)	69.6(3)
C(13)	C(12)	Mo(1)	72.1(4)	C(25)	C(24)	C(23)	109.5(5)
C(11)	C(12)	Mo(1)	73.6(3)	C(25)	C(24)	Mo(2)	71.9(3)
C(14)	C(13)	C(12)	109.3(6)	C(23)	C(24)	Mo(2)	69.5(3)
C(14)	C(13)	Mo(1)	76.9(4)	C(24)	C(25)	C(21)	107.4(5)
C(12)	C(13)	Mo(1)	71.2(4)	C(24)	C(25)	Mo(2)	73.9(4)
C(13)	C(14)	C(15)	108.2(6)	C(21)	C(25)	Mo(2)	68.6(3)
C(13)	C(14)	Mo(1)	68.1(3)	O(4)	C(26)	O(3)	122.8(6)
C(15)	C(14)	Mo(1)	73.2(3)	O(4)	C(26)	C(21)	125.0(6)
C(11)	C(15)	C(14)	107.9(6)	O(3)	C(26)	C(21)	112.2(5)
C(11)	C(15)	Mo(1)	69.1(3)	C(36)	C(31)	C(32)	119.2(6)
C(14)	C(15)	Mo(1)	72.0(4)	C(36)	C(31)	Te(1)	121.5(4)
O(2)	C(16)	O(1)	124.9(6)	C(32)	C(31)	Te(1)	119.1(5)
O(2)	C(16)	C(11)	124.4(6)	C(33)	C(32)	C(31)	118.6(6)
O(1)	C(16)	C(11)	110.6(6)	C(34)	C(33)	C(32)	122.2(6)
C(22)	C(21)	C(25)	107.1(5)	C(33)	C(34)	C(35)	119.4(6)
C(22)	C(21)	C(26)	124.4(5)	C(36)	C(35)	C(34)	119.4(7)
C(22)	C(21)	Mo(2)	70.4(3)	C(35)	C(36)	C(31)	121.0(6)
C(25)	C(21)	C(26)	128.4(5)	C(46)	C(41)	C(42)	119.6(6)
C(25)	C(21)	Mo(2)	75.1(4)	C(46)	C(41)	Te(2)	122.3(5)
C(26)	C(21)	Mo(2)	122.4(4)	C(42)	C(41)	Te(2)	118.1(5)
C(23)	C(22)	C(21)	107.4(5)	C(43)	C(42)	C(41)	120.2(7)
C(44)	C(43)	C(42)	119.5(7)				
C(43)	C(44)	C(45)	121.7(7)				
C(44)	C(45)	C(46)	119.5(7)				
C(41)	C(46)	C(45)	119.6(7)				
C(52)	C(51)	C(56)	118.9(6)				
C(52)	C(51)	Te(3)	122.4(4)				
C(56)	C(51)	Te(3)	118.5(5)				
C(51)	C(52)	C(53)	120.2(6)				
C(54)	C(53)	C(52)	119.9(7)				
C(55)	C(54)	C(53)	120.9(7)				
C(54)	C(55)	C(56)	120.1(7)				
C(51)	C(56)	C(55)	119.9(7)				
Cl(3)	C(1)	Cl(2)	110.8(6)				
Cl(4)	C(2)	Cl(5)	113.8(7)				

Angles are in degrees. Estimated standard deviations in the least significant figure are given in parentheses.

Table 5. Data Collection and Processing Parameters for **9**

<i>Crystal data</i>	<i>Crystal data</i>
$C_{30}H_{24}Mo_2O_8Te_2$	Mo K α radiation
Mr= 959.59	$\lambda = 0.71069 \text{ \AA}$
Triclinic	cell parameters from 20
P-1(#2)	reflections
F(000) = 928	$\theta = 7.21 - 8.81^\circ$
a= 11.949(4) $\text{\AA}$	$\mu = 2.524 \text{ mm}^{-1}$
b= 12.809(7) $\text{\AA}$	T= 296K
c= 11.503(4) $\text{\AA}$	
$\alpha = 82.48(4)^\circ$	0.60x0.20x0.10 mm
$\beta = 78.62(2)^\circ$	
$\gamma = 73.92(4)^\circ$	
V = 1653(3) $\text{\AA}^3$	Rint : 0.028
Z= 2	$\theta_{\text{max}} = 25^\circ$
Dx= 1.960 Mg m^{-3}	h = 0 $\rightarrow$ 14
	k = -15 $\rightarrow$ 15
<i>Data collection</i>	l = -14 $\rightarrow$ 14
Rigaku-AFC5R diffractometer	3 standard reflections
$\omega/2\theta$ scans	monitored every 250
Absorption correction: ψ scans	reflections
(TEXSAN; Molecular Structure	intensity decay: 2.2%
Corporation, 1989)	scan width: (1.375+0.35tan θ) $^\circ$
Tmin = 0.8191, Tmax = 1.000	
6128 measured reflection	$\Delta \rho_{\text{max}} = 2.76 \text{ e\AA}^{-3}$
5820 independent reflections	$\Delta \rho_{\text{min}} = -1.88 \text{ e\AA}^{-3}$
4148 observed reflections	atomic scattering factors
[I>3 σ (I)]	from International Tables
	for X-Ray Crystallography
<i>Refinement</i>	(1974, Vol.IV)
Refinement on F	
R=0.073	
wR=0.094	
S=2.30	
4148 reflections	
388 parameters	
$w = 1/\sigma^2(F)$	
(Δ/σ) $_{\text{max}} = 0.09$	

Table 6. Atomic Coordinates and Equivalent Isotropic Temperature Factors for 9

atom	x	y	z	B (eq)
Te (1)	0.38958 (9)	-0.06931 (8)	0.2821 (1)	2.39 (7)
Te (2)	0.17661 (9)	-0.19144 (9)	0.3186 (1)	2.51 (7)
Mo (1)	0.4189 (1)	-0.2897 (1)	0.2450 (1)	2.44 (9)
Mo (2)	0.1697 (1)	0.0174 (1)	0.2038 (1)	2.20 (8)
O (1)	0.611 (1)	-0.312 (1)	0.401 (1)	6 (1)
O (2)	0.129 (1)	-0.094 (1)	-0.003 (1)	4 (1)
O (3)	0.363 (2)	-0.463 (1)	0.449 (1)	7 (1)
O (4)	0.352 (1)	0.068 (1)	-0.014 (1)	4 (1)
O (5)	0.725 (1)	-0.498 (1)	0.172 (1)	6 (1)
O (6)	0.593 (1)	-0.594 (1)	0.199 (1)	5 (1)
O (7)	0.212 (1)	0.322 (1)	0.132 (1)	5 (1)
O (8)	0.275 (1)	0.249 (1)	0.300 (1)	5 (1)
C (1)	0.538 (2)	-0.303 (1)	0.345 (2)	4 (1)
C (2)	0.145 (1)	-0.057 (1)	0.081 (2)	4 (1)
C (3)	0.377 (2)	-0.398 (2)	0.373 (2)	4 (1)
C (4)	0.288 (1)	0.047 (1)	0.065 (2)	3 (1)
C (11)	0.353 (1)	-0.060 (1)	0.470 (1)	1.8 (9)
C (12)	0.345 (1)	0.035 (1)	0.513 (2)	3 (1)
C (13)	0.326 (1)	0.047 (2)	0.633 (2)	4 (1)
C (14)	0.324 (2)	-0.042 (2)	0.714 (2)	4 (1)
C (15)	0.334 (2)	-0.138 (2)	0.672 (2)	4 (1)
C (16)	0.346 (1)	-0.149 (1)	0.553 (2)	3 (1)
C (21)	0.076 (1)	-0.263 (1)	0.231 (1)	3 (1)
C (22)	-0.036 (2)	-0.200 (2)	0.212 (2)	4 (1)
C (23)	-0.108 (2)	-0.246 (2)	0.160 (2)	5 (2)
C (24)	-0.062 (2)	-0.348 (2)	0.125 (2)	5 (2)
C (25)	0.046 (2)	-0.412 (2)	0.139 (2)	4 (2)
C (26)	0.118 (2)	-0.366 (2)	0.193 (2)	4 (1)
C (31)	0.428 (1)	-0.400 (1)	0.102 (1)	3 (1)
C (32)	0.381 (2)	-0.293 (1)	0.044 (2)	4 (1)
C (33)	0.469 (2)	-0.235 (2)	0.038 (1)	4 (1)
C (34)	0.571 (2)	-0.305 (1)	0.085 (2)	4 (1)
C (35)	0.543 (2)	-0.407 (2)	0.123 (2)	4 (1)
C (36)	0.620 (2)	-0.508 (1)	0.172 (2)	4 (1)
C (41)	0.092 (2)	0.134 (1)	0.358 (2)	3 (1)
C (42)	0.000 (1)	0.086 (2)	0.353 (2)	4 (1)
C (43)	-0.030 (1)	0.117 (1)	0.237 (1)	3 (1)
C (44)	0.044 (1)	0.185 (1)	0.175 (1)	3 (1)
C (45)	0.121 (2)	0.193 (1)	0.251 (2)	3 (1)
C (46)	0.204 (2)	0.264 (2)	0.217 (2)	4 (1)
C (47)	0.361 (2)	0.312 (2)	0.285 (2)	7 (2)
C (37)	0.811 (2)	-0.591 (2)	0.209 (4)	10 (3)
O (9)	0.998 (2)	0.402 (1)	0.458 (1)	6 (1)

Table 7. Bond Lengths (Å) for **9**

atom	atom	distance	atom	atom	distance
Mo (1)	Mo (2)	4.259 (3)	O (5)	C (37)	1.42 (3)
Te (1)	Mo (1)	2.825 (2)	O (6)	C (36)	1.22 (2)
Te (1)	Mo (2)	2.829 (2)	O (7)	C (46)	1.16 (2)
Te (2)	Mo (2)	2.811 (2)	O (8)	C (46)	1.36 (2)
Te (2)	Mo (1)	2.824 (2)	O (8)	C (47)	1.44 (2)
Te (1)	C (11)	2.13 (1)	C (11)	C (12)	1.34 (2)
Te (2)	C (21)	2.15 (2)	C (11)	C (16)	1.40 (2)
Mo (1)	C (1)	1.95 (2)	C (12)	C (13)	1.38 (3)
Mo (1)	C (3)	1.97 (2)	C (13)	C (14)	1.37 (3)
Mo (1)	C (35)	2.22 (2)	C (14)	C (15)	1.35 (2)
Mo (1)	C (31)	2.27 (2)	C (15)	C (16)	1.37 (2)
Mo (1)	C (34)	2.30 (2)	C (21)	C (26)	1.37 (2)
Mo (1)	C (33)	2.40 (2)	C (21)	C (22)	1.40 (2)
Mo (1)	C (32)	2.45 (2)	C (22)	C (23)	1.42 (3)
Mo (2)	C (2)	1.92 (2)	C (23)	C (24)	1.35 (3)
Mo (2)	C (4)	1.99 (2)	C (24)	C (25)	1.35 (3)
Mo (2)	C (45)	2.28 (2)	C (25)	C (26)	1.44 (3)
Mo (2)	C (44)	2.28 (2)	C (31)	C (35)	1.42 (2)
Mo (2)	C (41)	2.35 (2)	C (31)	C (32)	1.46 (2)
Mo (2)	C (43)	2.35 (2)	C (32)	C (33)	1.43 (3)
Mo (2)	C (42)	2.42 (2)	C (33)	C (34)	1.45 (2)
O (1)	C (1)	1.16 (2)	C (34)	C (35)	1.44 (3)
O (2)	C (2)	1.18 (2)	C (35)	C (36)	1.48 (3)
O (3)	C (3)	1.15 (2)	C (41)	C (45)	1.39 (2)
O (4)	C (4)	1.12 (2)	C (41)	C (42)	1.41 (2)
O (5)	C (36)	1.30 (2)	C (42)	C (43)	1.43 (2)
			C (43)	C (44)	1.44 (2)
			C (44)	C (45)	1.42 (2)
			C (45)	C (46)	1.49 (3)

Distances are in angstroms. Estimated standard deviations in the least significant figure are given in parentheses.

Table 8. Bond Angles (deg.) for 9

atom	atom	atom	angle	atom	atom	atom	angle
Te (2)	Mo (1)	Te (1)	70.81 (6)	C (35)	Mo (1)	C (32)	60.2 (6)
Te (2)	Mo (2)	Te (1)	70.94 (6)	C (35)	Mo (1)	Te (2)	142.9 (5)
Mo (1)	Te (1)	Mo (2)	97.76 (6)	C (35)	Mo (1)	Te (1)	135.2 (5)
Mo (2)	Te (2)	Mo (1)	98.19 (6)	C (31)	Mo (1)	C (34)	61.0 (6)
C (11)	Te (1)	Mo (1)	106.3 (4)	C (31)	Mo (1)	C (33)	58.7 (6)
C (11)	Te (1)	Mo (2)	105.8 (4)	C (31)	Mo (1)	C (32)	35.7 (6)
C (21)	Te (2)	Mo (2)	106.9 (4)	C (31)	Mo (1)	Te (2)	106.1 (4)
C (21)	Te (2)	Mo (1)	108.3 (4)	C (31)	Mo (1)	Te (1)	142.1 (4)
C (1)	Mo (1)	C (3)	78.8 (8)	C (34)	Mo (1)	C (33)	35.8 (6)
C (1)	Mo (1)	C (35)	92.0 (8)	C (34)	Mo (1)	C (32)	59.6 (7)
C (1)	Mo (1)	C (31)	126.8 (7)	C (34)	Mo (1)	Te (2)	143.6 (5)
C (1)	Mo (1)	C (34)	86.9 (8)	C (34)	Mo (1)	Te (1)	98.4 (5)
C (1)	Mo (1)	C (33)	117.0 (8)	C (33)	Mo (1)	C (32)	34.2 (7)
C (1)	Mo (1)	C (32)	146.4 (8)	C (33)	Mo (1)	Te (2)	107.9 (5)
C (1)	Mo (1)	Te (2)	122.7 (6)	C (33)	Mo (1)	Te (1)	85.7 (5)
C (1)	Mo (1)	Te (1)	78.7 (5)	C (32)	Mo (1)	Te (2)	89.6 (5)
C (3)	Mo (1)	C (35)	97.2 (7)	C (32)	Mo (1)	Te (1)	107.0 (4)
C (3)	Mo (1)	C (31)	91.9 (7)	C (2)	Mo (2)	C (4)	76.5 (7)
C (3)	Mo (1)	C (34)	131.6 (7)	C (2)	Mo (2)	C (45)	135.9 (7)
C (3)	Mo (1)	C (33)	150.6 (7)	C (2)	Mo (2)	C (44)	101.0 (6)
C (3)	Mo (1)	C (32)	120.3 (7)	C (2)	Mo (2)	C (41)	149.3 (6)
C (3)	Mo (1)	Te (2)	79.0 (5)	C (2)	Mo (2)	C (43)	92.0 (6)
C (3)	Mo (1)	Te (1)	123.0 (5)	C (2)	Mo (2)	C (42)	117.0 (6)
C (35)	Mo (1)	C (31)	36.9 (6)	C (2)	Mo (2)	Te (2)	78.3 (5)
C (35)	Mo (1)	C (34)	37.0 (6)	C (2)	Mo (2)	Te (1)	115.0 (5)
C (35)	Mo (1)	C (33)	59.7 (6)	C (4)	Mo (2)	C (45)	91.5 (7)
C (4)	Mo (2)	C (44)	92.2 (6)	C (36)	O (5)	C (37)	118 (2)
C (4)	Mo (2)	C (41)	122.8 (7)	C (46)	O (8)	C (47)	119 (2)
C (4)	Mo (2)	C (43)	124.2 (6)	O (1)	C (1)	Mo (1)	178 (2)
C (4)	Mo (2)	C (42)	149.0 (7)	O (2)	C (2)	Mo (2)	173 (2)
C (4)	Mo (2)	Te (2)	123.6 (5)	O (3)	C (3)	Mo (1)	174 (2)
C (4)	Mo (2)	Te (1)	75.6 (5)	O (4)	C (4)	Mo (2)	177 (2)
C (45)	Mo (2)	C (44)	36.3 (6)	C (12)	C (11)	C (16)	117 (1)
C (45)	Mo (2)	C (41)	35.1 (6)	C (12)	C (11)	Te (1)	119 (1)
C (45)	Mo (2)	C (43)	59.9 (6)	C (16)	C (11)	Te (1)	124 (1)
C (45)	Mo (2)	C (42)	58.9 (6)	C (11)	C (12)	C (13)	123 (2)
C (45)	Mo (2)	Te (2)	138.8 (5)	C (14)	C (13)	C (12)	120 (2)
C (45)	Mo (2)	Te (1)	102.2 (5)	C (15)	C (14)	C (13)	118 (2)
C (44)	Mo (2)	C (41)	58.4 (6)	C (14)	C (15)	C (16)	122 (2)
C (44)	Mo (2)	C (43)	36.0 (6)	C (15)	C (16)	C (11)	120 (2)
C (44)	Mo (2)	C (42)	58.8 (6)	C (26)	C (21)	C (22)	120 (2)
C (44)	Mo (2)	Te (2)	142.0 (4)	C (26)	C (21)	Te (2)	123 (1)
C (44)	Mo (2)	Te (1)	137.3 (4)	C (22)	C (21)	Te (2)	118 (1)
C (41)	Mo (2)	C (43)	57.7 (6)	C (21)	C (22)	C (23)	120 (2)
C (41)	Mo (2)	C (42)	34.3 (6)	C (24)	C (23)	C (22)	118 (2)
C (41)	Mo (2)	Te (2)	103.8 (5)	C (25)	C (24)	C (23)	125 (2)
C (41)	Mo (2)	Te (1)	94.0 (4)	C (24)	C (25)	C (26)	117 (2)
C (43)	Mo (2)	C (42)	34.8 (6)	C (21)	C (26)	C (25)	121 (2)
C (43)	Mo (2)	Te (2)	106.2 (4)	C (35)	C (31)	C (32)	110 (2)
C (43)	Mo (2)	Te (1)	150.7 (4)	C (35)	C (31)	Mo (1)	70 (1)
C (42)	Mo (2)	Te (2)	87.3 (5)	C (32)	C (31)	Mo (1)	79 (1)
C (42)	Mo (2)	Te (1)	117.0 (5)	C (33)	C (32)	C (31)	105 (2)

Intramolecular Bond Angles for SYC-3-19 (cont.)

atom	atom	atom	angle	atom	atom	atom	angle
C(33)	C(32)	Mo(1)	71(1)	C(45)	C(44)	C(43)	108(1)
C(31)	C(32)	Mo(1)	65(1)	C(45)	C(44)	Mo(2)	72(1)
C(32)	C(33)	C(34)	111(2)	C(43)	C(44)	Mo(2)	75(1)
C(32)	C(33)	Mo(1)	75(1)	C(41)	C(45)	C(44)	107(2)
C(34)	C(33)	Mo(1)	68(1)	C(41)	C(45)	C(46)	131(2)
C(35)	C(34)	C(33)	106(2)	C(41)	C(45)	Mo(2)	75(1)
C(35)	C(34)	Mo(1)	68(1)	C(44)	C(45)	C(46)	122(2)
C(33)	C(34)	Mo(1)	76(1)	C(44)	C(45)	Mo(2)	72(1)
C(31)	C(35)	C(34)	109(2)	C(46)	C(45)	Mo(2)	122(1)
C(31)	C(35)	C(36)	124(2)	O(7)	C(46)	O(8)	123(2)
C(31)	C(35)	Mo(1)	73(1)	O(7)	C(46)	C(45)	127(2)
C(34)	C(35)	C(36)	128(2)	O(8)	C(46)	C(45)	110(2)
C(34)	C(35)	Mo(1)	75(1)				
C(36)	C(35)	Mo(1)	120(1)				
O(6)	C(36)	O(5)	123(2)				
O(6)	C(36)	C(35)	125(2)				
O(5)	C(36)	C(35)	112(2)				
C(45)	C(41)	C(42)	111(2)				
C(45)	C(41)	Mo(2)	70(1)				
C(42)	C(41)	Mo(2)	75(1)				
C(41)	C(42)	C(43)	106(2)				
C(41)	C(42)	Mo(2)	70(1)				
C(43)	C(42)	Mo(2)	70.2(9)				
C(42)	C(43)	C(44)	108(1)				
C(42)	C(43)	Mo(2)	75.0(9)				
C(44)	C(43)	Mo(2)	69.4(8)				

Angles are in degrees. Estimated standard deviations in the least significant figure are given in parentheses.