Supporting information for:

Synthesis, Structure, and Reactivity of Osmium Silyl and Silylene Complexes $Cp^*(Me_3P)_2OsSiR_2X$ and $[Cp^*(Me_3P)_2OsSiR_2][B(C_6F_5)_4]$ (R= Me, ^{i}Pr; X = Cl, OTf)

Table 3. Structural Parameters for $Cp^*(Me_3P)_2OsSi^iPr_2Cl$ (2)

Table 3a. Atomic coordinates and $B_{iso}/B_{eq,}$ for 2

atom	x	y	z	B_{eq}
Os(1)	0.18854(4)	0.13623(2)	0.74833(2)	1.257(7)
Cl(1)	-0.1381(3)	0.1711(2)	0.8786(2)	3.35(7)
P(1)	0.0231(3)	0.0507(2)	0.7224(2)	1.97(6)
P(2)	0.2618(3)	0.0873(2)	0.8871(2)	2.09(6)
Si(1)	0.0429(3)	0.2170(2)	0.8223(2)	1.74(6)
C(1)	0.374(1)	0.2005(5)	0.7154(7)	1.9(2)
C(2)	0.400(1)	0.1272(6)	0.6939(7)	2.2(2)
C(3)	0.303(1)	0.1074(6)	0.6230(8)	2.7(2)
C(4)	0.216(1)	0.1679(6)	0.5995(7)	2.0(2)
C(5)	0.262(1)	0.2260(6)	0.6568(7)	2.1(2)
C(6)	0.471(1)	0.2504(8)	0.7714(9)	4.9(4)
C(7)	0.526(1)	0.0837(10)	0.723(1)	8.2(5)
C(8)	0.316(2)	0.0417(8)	0.5633(10)	6.0(5)
C(9)	0.114(1)	0.1769(10)	0.5152(8)	4.6(4)
C(10)	0.228(2)	0.3033(6)	0.6376(10)	4.5(4)
C(11)	-0.056(1)	0.0031(8)	0.8142(8)	4.0(4)
C(12)	-0.132(1)	0.0732(7)	0.6494(8)	3.4(3)
C(13)	0.070(1)	-0.0298(7)	0.6616(9)	4.5(4)
C(14)	0.159(1)	0.0805(7)	0.9840(8)	3.6(3)
C(15)	0.320(1)	-0.0057(7)	0.8848(8)	3.2(3)
C(16)	0.415(1)	0.1276(6)	0.9476(7)	2.6(3)
C(17)	-0.052(1)	0.2913(6)	0.7521(7)	3.2(3)
C(18)	-0.141(1)	0.2627(7)	0.6696(7)	2.5(3)
C(19)	-0.141(1)	0.3433(8)	0.8069(9)	4.3(4)
C(20)	0.1253(10)	0.2641(6)	0.9319(7)	2.3(2)
C(21)	0.198(1)	0.3330(7)	0.9065(8)	3.2(3)
C(22)	0.037(1)	0.2797(7)	1.0108(7)	2.8(3)
C(100)	0.3108	0.1650	0.6575	0.0025
H(1)	0.5399	0.2230	0.8055	5.9357
H(2)	0.5127	0.2823	0.7312	5.9357
H(3)	0.4229	0.2777	0.8126	5.9357
H(4)	0.5014	0.0375	0.7417	9.8216
H(5)	0.5805	0.0809	0.6732	9.8216
H(6)	0.5758	0.1081	0.7734	9.8216
H(7)	0.3205	-0.0001	0.6013	7.2022
H(8)	0.2401	0.0383	0.5188	7.2022
H(9)	0.3970	0.0453	0.5334	7.2022
H(10)	0.0319	0.1963	0.5330	5.4992
H(11)	0.1506	0.2084	0.4724	5.4992
H(12)	0.0971	0.1311	0.4873	5.4992
H(13)	0.2703	0.3325	0.6861	5.4155

H(14)	0.2602	0.3172	0.5812	5.4155

Table 3a. Atomic coordinates and $B_{iso}/B_{eq,}$ for 2 (continued)

atom	x	y	z	B_{eq}
H(15)	0.1326	0.3095	0.6346	5.4155
H(16)	-0.0091	-0.0566	0.6413	5.3543
H(17)	0.1156	-0.0164	0.6093	5.3543
H(18)	0.1291	-0.0589	0.7012	5.3543
H(19)	0.1215	0.1261	0.9955	4.2917
H(20)	0.0888	0.0464	0.9702	4.2917
H(21)	0.2153	0.0651	1.0372	4.2917
H(22)	0.2439	-0.0369	0.8752	3.8796
H(23)	0.3774	-0.0117	0.8372	3.8796
H(24)	0.3692	-0.0171	0.9426	3.8796
H(25)	0.4504	0.0964	0.9955	3.1139
H(26)	0.4810	0.1349	0.9054	3.1139
H(27)	0.3920	0.1726	0.9732	3.1139
H(28)	0.0150	0.3205	0.7282	3.8322
H(29)	-0.1738	0.3016	0.6313	2.9909
H(30)	-0.0901	0.2308	0.6354	2.9909
H(31)	-0.2167	0.2374	0.6901	2.9909
H(32)	-0.0870	0.3623	0.8583	5.2174
H(33)	-0.1747	0.3813	0.7677	5.2174
H(34)	-0.2151	0.3171	0.8273	5.2174
H(35)	0.1949	0.2327	0.9569	2.7434
H(36)	0.2540	0.3499	0.9577	3.7852
H(37)	0.2511	0.3231	0.8569	3.7852
H(38)	0.1317	0.3687	0.8873	3.7852
H(39)	0.0924	0.2969	1.0628	3.3787
H(40)	-0.0293	0.3151	0.9916	3.3787
H(41)	-0.0076	0.2367	1.0266	3.3787
H(42)	-0.0884	0.0375	0.8556	4.7914
H(43)	-0.1309	-0.0246	0.7878	4.7914
H(44)	0.0082	-0.0275	0.8465	4.7914
H(45)	-0.1709	0.1155	0.6718	4.1233
H(46)	-0.1095	0.0812	0.5880	4.1233
H(47)	-0.1942	0.0344	0.6496	4.1233

Table 3b. Anisotropic Displacement Parameters for 2.

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.0148(2)	0.0214(2)	0.0092(2)	-0.0022(2)	0.0006(1)	0.0004(2)
Cl(1)	0.024(1)	0.083(2)	0.025(2)	-0.014(2)	0.010(1)	-0.005(2)
P(1)	0.025(2)	0.034(2)	0.016(1)	-0.011(1)	0.002(1)	-0.005(1)
P(2)	0.034(2)	0.027(2)	0.016(1)	-0.005(1)	-0.006(1)	0.005(1)
Si(1)	0.015(2)	0.034(2)	0.017(1)	-0.001(1)	0.004(1)	-0.006(1)
C(6)	0.051(9)	0.09(1)	0.047(9)	-0.048(8)	0.007(7)	-0.011(8)
C(7)	0.043(9)	0.14(2)	0.07(1)	0.059(10)	0.035(8)	0.03(1)
C(8)	0.16(2)	0.06(1)	0.06(1)	-0.02(1)	0.08(1)	-0.023(8)
C(9)	0.024(7)	0.19(2)	0.010(6)	-0.014(9)	0.002(5)	0.014(8)
C(10)	0.11(1)	0.028(8)	0.07(1)	0.017(8)	0.059(9)	0.017(7)
C(11)	0.073(10)	0.076(10)	0.030(7)	-0.064(8)	0.018(7)	-0.013(7)
C(12)	0.027(7)	0.067(10)	0.054(9)	-0.016(7)	-0.020(6)	0.000(7)
C(13)	0.049(9)	0.045(8)	0.065(10)	-0.017(7)	0.004(7)	-0.020(7)
C(14)	0.060(9)	0.057(9)	0.024(6)	-0.019(7)	0.003(6)	0.010(6)
C(15)	0.09(1)	0.037(8)	0.031(7)	-0.002(7)	-0.016(7)	0.000(6)
C(16)	0.028(6)	0.034(7)	0.033(6)	0.001(5)	-0.014(5)	0.008(5)
C(17)	0.035(7)	0.048(8)	0.026(6)	0.008(6)	0.001(5)	-0.005(6)
C(18)	0.036(7)	0.056(8)	0.023(6)	0.014(6)	0.001(5)	0.005(6)
C(19)	0.060(9)	0.09(1)	0.042(8)	0.042(8)	-0.008(7)	-0.025(7)
C(20)	0.013(6)	0.043(7)	0.027(6)	-0.001(5)	0.001(4)	-0.004(5)
C(21)	0.050(8)	0.046(8)	0.030(7)	-0.002(6)	0.000(6)	-0.005(6)
C(22)	0.036(7)	0.08(1)	0.019(6)	-0.004(7)	0.008(5)	-0.017(7)

Table 3c. Selected Bond Lengths for 2 (Å)

atom	atom	distance
Os(1)	P(1)	2.285(3)
Os(1)	P(2)	2.274(3)
Os(1)	Si(1)	2.404(3)
Os(1)	C(1)	2.280(10)
Os(1)	C(2)	2.31(1)
Os(1)	C(3)	2.30(1)
Os(1)	C(4)	2.29(1)
Os(1)	C(5)	2.30(1)
Os(1)	C(100)	1.9510(5)
Cl(1)	Si(1)	2.209(4)
P(1)	C(11)	1.84(1)
P(1)	C(12)	1.83(1)
P(1)	C(13)	1.82(1)
P(2)	C(14)	1.82(1)
P(2)	C(15)	1.82(1)
P(2)	C(16)	1.838(10)
Si(1)	C(17)	1.91(1)
Si(1)	C(20)	1.94(1)
C(1)	C(2)	1.42(1)
C(1)	C(5)	1.42(1)
C(1)	C(6)	1.52(1)
C(2)	C(3)	1.39(1)
C(2)	C(7)	1.51(2)
C(3)	C(4)	1.43(1)
C(3)	C(8)	1.51(2)
C(4)	C(5)	1.41(1)
C(4)	C(9)	1.52(1)
C(5)	C(10)	1.49(1)
C(17)	C(18)	1.52(1)
C(17)	C(19)	1.57(2)
C(20)	C(21)	1.53(2)
C(20)	C(22)	1.54(1)

Table 3d. Selected Bond Anglesfor 2. (°)

atom	atom	atom	angle
P(1)	Os(1)	C(100)	123.89(7)
P(2)	Os(1)	C(100)	123.28(8)
Si(1)	Os(1)	C(100)	124.77(7)
P(1)	Os(1)	P(2)	91.85(10)
P(1)	Os(1)	Si(1)	93.3(1)
P(2)	Os(1)	Si(1)	90.2(1)
Os(1)	P(1)	C(11)	124.1(4)
Os(1)	P(1)	C(12)	119.0(4)
Os(1)	P(1)	C(13)	116.0(4)
C(11)	P(1)	C(12)	98.2(6)
C(11)	P(1)	C(13)	96.1(6)
C(12)	P(1)	C(13)	98.1(6)
Os(1)	P(2)	C(14)	124.5(4)
Os(1)	P(2)	C(15)	115.9(4)
Os(1)	P(2)	C(16)	116.3(4)
C(14)	P(2)	C(15)	98.5(6)
C(14)	P(2)	C(16)	98.6(5)
C(15)	P(2)	C(16)	98.5(5)
Os(1)	Si(1)	Cl(1)	117.9(2)
Os(1)	Si(1)	C(17)	119.6(4)
Os(1)	Si(1)	C(20)	115.5(3)
Cl(1)	Si(1)	C(17)	95.9(4)
Cl(1)	Si(1)	C(20)	99.2(3)
C(17)	Si(1)	C(20)	105.2(5)
C(2)	C(1)	C(5)	109.3(9)
C(2)	C(1)	C(6)	125(1)
C(5)	C(1)	C(6)	122(1)
C(1)	C(2)	C(3)	107.1(9)
C(1)	C(2)	C(7)	127(1)
C(3)	C(2)	C(7)	124(1)
C(2)	C(3)	C(4)	108.9(10)
C(2)	C(3)	C(8)	123(1)
C(4)	C(3)	C(8)	125(1)
C(3)	C(4)	C(5)	107.9(9)
C(3)	C(4)	C(9)	127(1)
C(5)	C(4)	C(9)	122(1)
C(1)	C(5)	C(4)	106.8(9)
C(1)	C(5)	C(10)	125(1)
C(4)	C(5)	C(10)	124(1)
Si(1)	C(17)	C(18)	113.0(8)
Si(1)	C(17)	C(19)	116.1(8)
C(18)	C(17)	C(19)	107.9(9)
Si(1)	C(20)	C(21)	110.4(7)

Table 3d. Selected Bond Angles (°) for 2 (continued)

atom	atom	atom	angle
Si(1)	C(20)	C(22)	118.6(7)
C(21)	C(20)	C(22)	109.7(10)

Table 4. Structural Parameters for $Cp^*(Me_3P)_2OsSi^iPr_2OTf$ (3)

Table 4a. Atomic coordinates and B_{iso}/B_{eq} for 3

atom	x	y	z	B_{eq}
Os(1)	-0.19867(3)	-0.04483(2)	-0.64578(2)	1.616(6)
S(1)	0.0456(2)	-0.0446(2)	-0.4598(1)	2.23(4)
P(1)	-0.3358(2)	0.0586(2)	-0.6928(1)	2.36(5)
P(2)	-0.3331(2)	-0.0562(2)	-0.5508(1)	2.30(5)
Si(1)	-0.0574(2)	0.0612(1)	-0.5952(1)	1.87(5)
F(1)	0.1616(6)	0.0794(4)	-0.3880(3)	4.5(2)
F(2)	0.2938(7)	0.0048(5)	-0.4505(3)	5.0(2)
F(3)	0.2127(6)	-0.0518(4)	-0.3587(3)	3.9(1)
O(1)	0.0450(6)	0.0129(4)	-0.5217(3)	2.5(1)
O(2)	-0.0646(6)	-0.0313(5)	-0.4152(3)	3.1(2)
O(3)	0.0824(8)	-0.1343(4)	-0.4746(4)	3.6(2)
C(1)	-0.203(1)	-0.1266(5)	-0.7457(4)	2.3(2)
C(2)	-0.2430(9)	-0.1819(5)	-0.6908(5)	2.6(2)
C(3)	-0.1303(8)	-0.1896(5)	-0.6455(5)	2.3(2)
C(4)	-0.0260(9)	-0.1385(6)	-0.6722(4)	1.9(2)
C(5)	-0.0711(10)	-0.0963(6)	-0.7344(5)	2.6(2)
C(6)	-0.276(1)	-0.1178(7)	-0.8128(5)	3.3(2)
C(7)	-0.366(1)	-0.2367(6)	-0.6880(5)	2.9(2)
C(8)	-0.108(1)	-0.2592(6)	-0.5915(5)	3.1(2)
C(9)	0.1142(9)	-0.1449(6)	-0.6504(6)	2.8(2)
C(10)	0.013(1)	-0.0547(8)	-0.7877(5)	4.2(2)
C(11)	-0.490(1)	0.0150(7)	-0.7309(6)	3.3(3)
C(12)	-0.4096(9)	0.1491(6)	-0.6446(6)	3.0(2)
C(13)	-0.274(1)	0.1219(7)	-0.7664(5)	3.9(3)
C(14)	-0.3533(10)	0.0301(7)	-0.4864(5)	2.6(2)
C(15)	-0.5098(10)	-0.0788(8)	-0.5671(6)	3.3(3)
C(16)	-0.303(1)	-0.1475(6)	-0.4909(5)	3.1(2)
C(17)	0.1029(9)	0.0910(6)	-0.6435(6)	2.4(2)
C(18)	0.210(1)	0.1380(7)	-0.6015(5)	3.4(2)
C(19)	0.078(1)	0.1414(6)	-0.7110(5)	3.4(2)
C(20)	-0.1136(9)	0.1663(6)	-0.5488(5)	2.4(2)
C(21)	-0.100(1)	0.2497(6)	-0.5945(6)	3.5(2)
C(22)	-0.049(1)	0.1890(6)	-0.4793(6)	3.3(2)
C(23)	0.188(1)	-0.0007(6)	-0.4121(5)	2.7(2)
C(100)	-0.13480	-0.14670	-0.69790	0.20000
H(1)	-0.28199	-0.05731	-0.82496	4.00452
H(2)	-0.22930	-0.14879	-0.84758	4.00452
H(3)	-0.36200	-0.14179	-0.80829	4.00452
H(4)	-0.44131	-0.19938	-0.69138	3.46152
H(5)	-0.36645	-0.27739	-0.72500	3.46152
H(6)	-0.36920	-0.26792	-0.64574	3.46152

H(7)	-0.18996	-0.28545	-0.57959	3.73692

Table 4a. Atomic coordinates and B_{iso}/B_{eq} for 3 (continued)

atom	x	y	z	B_{eq}
H(8)	-0.05017	-0.30306	-0.60897	3.73692
H(9)	-0.06986	-0.23297	-0.55193	3.73692
H(10)	0.14566	-0.20287	-0.65868	3.40548
H(11)	0.16564	-0.10394	-0.67584	3.40548
H(12)	0.12087	-0.13185	-0.60287	3.40548
H(13)	0.09690	-0.04090	-0.76867	5.04780
H(14)	0.02426	-0.09443	-0.82500	5.04780
H(15)	-0.02780	-0.00227	-0.80369	5.04780
H(16)	-0.53029	0.05951	-0.75782	3.92664
H(17)	-0.46945	-0.03428	-0.75909	3.92664
H(18)	-0.54794	-0.00271	-0.69531	3.92664
H(19)	-0.34326	0.19061	-0.63283	3.57828
H(20)	-0.47497	0.17704	-0.67199	3.57828
H(21)	-0.44914	0.12676	-0.60397	3.57828
H(22)	-0.21259	0.16461	-0.75092	4.72020
H(23)	-0.23244	0.08314	-0.79789	4.72020
H(24)	-0.34597	0.15061	-0.78841	4.72020
H(25)	-0.27481	0.03499	-0.46012	3.06900
H(26)	-0.37084	0.08456	-0.50863	3.06900
H(27)	-0.42495	0.01553	-0.45709	3.06900
H(28)	-0.55159	-0.02670	-0.58318	3.95808
H(29)	-0.51770	-0.12378	-0.60082	3.95808
H(30)	-0.55087	-0.09759	-0.52582	3.95808
H(31)	-0.37643	-0.15409	-0.46121	3.74064
H(32)	-0.28983	-0.20049	-0.51602	3.74064
H(33)	-0.22612	-0.13527	-0.46443	3.74064
H(34)	0.14059	0.03630	-0.65684	2.91600
H(35)	0.22577	0.10632	-0.56025	4.13388
H(36)	0.28948	0.14058	-0.62756	4.13388
H(37)	0.18202	0.19606	-0.59085	4.13388
H(38)	0.04824	0.19924	-0.70086	4.04304
H(39)	0.15799	0.14460	-0.73648	4.04304
H(40)	0.01328	0.11133	-0.73721	4.04304
H(41)	-0.20521	0.15919	-0.54006	2.91852
H(42)	-0.00974	0.26290	-0.60118	4.24284
H(43)	-0.14108	0.23922	-0.63767	4.24284
H(44)	-0.14252	0.29808	-0.57258	4.24284
H(45)	-0.05688	0.14001	-0.44922	3.97608
H(46)	0.04113	0.20262	-0.48612	3.97608
H(47)	-0.09292	0.23844	-0.45970	3.97608

Table 4b. Anisotropic Displacement Parameters for 3

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.0230(1)	0.0198(1)	0.0181(1)	0.0008(1)	0.0011(1)	-0.0007(1)
S(1)	0.031(1)	0.027(1)	0.028(1)	-0.001(1)	-0.0035(8)	0.000(1)
P(1)	0.033(1)	0.030(1)	0.028(1)	0.008(1)	-0.0041(9)	-0.002(1)
P(2)	0.024(1)	0.034(1)	0.028(1)	-0.0054(10)	0.0062(9)	-0.005(1)
Si(1)	0.026(1)	0.021(1)	0.023(1)	-0.0006(9)	0.0003(9)	-0.0003(9)
F(1)	0.057(4)	0.043(3)	0.063(4)	-0.004(3)	-0.021(3)	-0.015(3)
F(2)	0.034(3)	0.114(5)	0.045(4)	-0.006(4)	0.006(3)	-0.001(3)
F(3)	0.054(3)	0.056(3)	0.037(3)	-0.001(3)	-0.019(3)	0.008(3)
O(1)	0.036(4)	0.031(3)	0.030(3)	0.001(3)	-0.004(3)	0.001(3)
O(2)	0.036(4)	0.057(4)	0.034(4)	-0.005(3)	0.003(3)	-0.001(4)
O(3)	0.068(5)	0.029(4)	0.044(4)	0.013(4)	-0.012(4)	-0.003(3)
C(1)	0.043(5)	0.026(4)	0.021(4)	0.013(5)	-0.002(4)	-0.005(3)
C(2)	0.032(5)	0.019(4)	0.026(5)	-0.002(3)	-0.011(4)	0.000(4)
C(3)	0.033(5)	0.018(4)	0.032(5)	0.002(3)	-0.004(5)	0.003(4)
C(4)	0.025(4)	0.029(5)	0.032(5)	-0.001(4)	0.009(4)	-0.009(4)
C(5)	0.040(6)	0.030(5)	0.026(5)	0.009(4)	0.005(4)	-0.002(4)
C(6)	0.062(8)	0.048(6)	0.018(4)	-0.001(5)	-0.004(5)	-0.002(4)
C(7)	0.044(6)	0.020(5)	0.051(7)	-0.003(4)	-0.002(5)	-0.009(4)
C(8)	0.052(6)	0.031(5)	0.034(5)	0.007(5)	0.000(5)	0.002(4)
C(9)	0.032(5)	0.041(5)	0.047(6)	0.005(4)	0.006(5)	-0.001(6)
C(10)	0.054(6)	0.065(7)	0.028(5)	-0.009(6)	0.025(5)	-0.009(6)
C(11)	0.036(6)	0.052(7)	0.050(7)	0.014(5)	-0.012(5)	-0.003(5)
C(12)	0.036(5)	0.045(6)	0.052(6)	0.013(4)	-0.005(6)	-0.020(6)
C(13)	0.057(7)	0.047(6)	0.043(6)	-0.001(5)	-0.017(5)	0.015(5)
C(14)	0.040(5)	0.036(6)	0.039(5)	0.004(4)	0.006(4)	-0.007(5)
C(15)	0.027(5)	0.073(8)	0.052(7)	-0.003(5)	0.016(5)	-0.015(6)
C(16)	0.055(6)	0.029(5)	0.035(5)	-0.019(5)	-0.007(6)	0.005(4)
C(17)	0.029(4)	0.036(5)	0.037(5)	-0.003(4)	0.015(5)	-0.003(5)
C(18)	0.029(5)	0.049(6)	0.052(6)	0.003(5)	-0.002(5)	-0.004(5)
C(19)	0.063(7)	0.034(6)	0.036(6)	-0.015(5)	0.017(5)	0.007(5)
C(20)	0.030(5)	0.035(5)	0.026(5)	0.000(4)	0.002(4)	0.002(4)
C(21)	0.053(6)	0.020(4)	0.055(7)	0.004(5)	-0.005(5)	-0.002(5)
C(22)	0.049(6)	0.029(5)	0.049(7)	0.005(5)	-0.002(5)	-0.012(5)
C(23)	0.037(6)	0.040(5)	0.031(5)	-0.008(5)	-0.006(5)	-0.003(4)

Table 4c. Selected Bond Lengths for 3 (Å)

atom	atom	distance
Os(1)	P(1)	2.288(2)
Os(1)	P(2)	2.305(2)
Os(1)	Si(1)	2.369(2)
Os(1)	C(1)	2.309(8)
Os(1)	C(2)	2.302(8)
Os(1)	C(3)	2.303(7)
Os(1)	C(4)	2.312(9)
Os(1)	C(5)	2.294(9)
Os(1)	C(100)	1.9597(3)
S(1)	O(1)	1.488(7)
S(1)	O(2)	1.430(7)
S(1)	O(3)	1.440(7)
S(1)	C(23)	1.84(1)
P(1)	C(11)	1.85(1)
P(1)	C(12)	1.824(9)
P(1)	C(13)	1.83(1)
P(2)	C(14)	1.824(10)
P(2)	C(15)	1.85(1)
P(2)	C(16)	1.838(9)
Si(1)	O(1)	1.914(7)
Si(1)	C(17)	1.932(9)
Si(1)	C(20)	1.920(9)
F(1)	C(23)	1.33(1)
F(2)	C(23)	1.31(1)
F(3)	C(23)	1.32(1)
C(1)	C(2)	1.42(1)
C(1)	C(5)	1.44(1)
C(1)	C(6)	1.51(1)
C(2)	C(3)	1.45(1)
C(2)	C(7)	1.50(1)
C(3)	C(4)	1.41(1)
C(3)	C(8)	1.51(1)
C(4)	C(5)	1.44(1)
C(4)	C(9)	1.49(1)
C(5)	C(10)	1.49(1)
C(17)	C(18)	1.54(1)
C(17)	C(19)	1.54(1)
C(20)	C(21)	1.55(1)
C(20)	C(22)	1.54(1)

Table 4d. Selected Bond Angles for 3 (°)

atom	atom	atom	angle
P(1)	Os(1)	P(2)	90.78(8)
P(1)	Os(1)	Si(1)	93.88(8)
P(1)	Os(1)	C(100)	122.31(6)
P(2)	Os(1)	Si(1)	94.26(8)
P(2)	Os(1)	C(100)	123.54(6)
Si(1)	Os(1)	C(100)	123.48(6)
O(1)	S(1)	O(2)	114.0(4)
O(1)	S(1)	O(3)	113.2(4)
O(1)	S(1)	C(23)	101.5(4)
O(2)	S(1)	O(3)	117.2(5)
O(2)	S(1)	C(23)	104.7(4)
O(3)	S(1)	C(23)	103.9(5)
Os(1)	P(1)	C(11)	115.3(3)
Os(1)	P(1)	C(12)	124.0(4)
Os(1)	P(1)	C(13)	117.7(4)
C(11)	P(1)	C(12)	97.5(5)
C(11)	P(1)	C(13)	99.2(5)
C(12)	P(1)	C(13)	98.5(5)
Os(1)	P(2)	C(14)	124.4(3)
Os(1)	P(2)	C(15)	116.6(4)
Os(1)	P(2)	C(16)	117.9(4)
C(14)	P(2)	C(15)	98.2(5)
C(14)	P(2)	C(16)	97.1(5)
C(15)	P(2)	C(16)	97.6(5)
Os(1)	Si(1)	O(1)	112.2(2)
Os(1)	Si(1)	C(17)	117.7(3)
Os(1)	Si(1)	C(20)	125.5(3)
O(1)	Si(1)	C(17)	89.9(4)
O(1)	Si(1)	C(20)	97.3(3)
C(17)	Si(1)	C(20)	106.5(4)
S(1)	O(1)	Si(1)	146.4(4)
C(2)	C(1)	C(5)	109.7(8)
C(2)	C(1)	C(6)	124.7(9)
C(5)	C(1)	C(6)	124.1(8)
C(1)	C(2)	C(3)	106.5(8)
C(1)	C(2)	C(7)	126.2(8)
C(3)	C(2)	C(7)	126.2(8)
C(2)	C(3)	C(4)	108.8(8)
C(2)	C(3)	C(8)	126.8(8)
C(4)	C(3)	C(8)	122.1(8)
C(3)	C(4)	C(5)	108.5(8)
C(3)	C(4)	C(9)	125.1(8)
C(5)	C(4)	C(9)	124.8(8)

Table 4d. Selected Bond Angles for 3 (°) (continued)

atom	atom	atom	angle
C(1)	C(5)	C(4)	106.4(8)
C(1)	C(5)	C(10)	124.4(8)
C(4)	C(5)	C(10)	126.4(9)
Si(1)	C(17)	C(18)	116.4(7)
Si(1)	C(17)	C(19)	113.3(7)
C(18)	C(17)	C(19)	109.8(8)
Si(1)	C(20)	C(21)	112.4(6)
Si(1)	C(20)	C(22)	118.3(7)
C(21)	C(20)	C(22)	106.6(8)
S(1)	C(23)	F(1)	110.6(8)
S(1)	C(23)	F(2)	112.1(6)
S(1)	C(23)	F(3)	109.5(6)
F(1)	C(23)	F(2)	107.9(8)
F(1)	C(23)	F(3)	107.3(7)
F(2)	C(23)	F(3)	109.2(9)

Table 5. Structural Parameters for $[Cp^*(Me_3P)_2OsSiMe_2][B(C_6F_5)_4]$ (6)

Table 5a. Atomic coordinates and B_{iso}/B_{eq} and fractional occupancy for atoms used in the disorder model.

atom	x	y	z	B_{eq}	Frac. occupancy
Os(1)	0.79904(5)	0.44841(3)	0.92149(2)	2.56(2)	
P(1)	0.8177(3)	0.3360(2)	0.8959(1)	3.2(1)	
P(2)	0.7546(4)	0.4878(2)	0.8482(1)	3.0(1)	
Si(1)	0.6728(4)	0.4223(3)	0.9425(2)	4.4(2)	
F(1)	0.6418(7)	0.2878(4)	0.5750(3)	4.5(3)	
F(2)	0.5253(8)	0.2275(5)	0.5257(3)	6.4(3)	
F(3)	0.4466(7)	0.1152(5)	0.5597(3)	6.5(3)	
F(4)	0.4908(6)	0.0589(5)	0.6454(3)	5.7(3)	
F(5)	0.6099(6)	0.1152(4)	0.6948(3)	3.7(2)	
F(6)	0.7907(7)	0.2227(4)	0.5854(3)	4.6(2)	
F(7)	0.8861(8)	0.3164(6)	0.5442(3)	6.6(3)	
F(8)	0.9112(8)	0.4430(5)	0.5864(3)	6.7(4)	
F(9)	0.8404(7)	0.4726(4)	0.6712(3)	5.9(3)	
F(10)	0.7418(7)	0.3834(4)	0.7109(3)	4.2(3)	
F(11)	0.7416(7)	0.0899(4)	0.6353(3)	3.5(3)	
F(12)	0.8567(7)	0.0085(4)	0.6656(4)	6.4(3)	
F(13)	0.9615(7)	0.0507(5)	0.7349(4)	6.9(3)	
F(14)	0.9383(7)	0.1787(5)	0.7762(3)	5.2(3)	
F(15)	0.8196(6)	0.2608(4)	0.7478(2)	3.5(2)	
F(16)	0.6778(6)	0.1784(4)	0.7755(2)	3.2(2)	
F(17)	0.5648(7)	0.2186(5)	0.8358(3)	5.5(3)	
F(18)	0.4695(7)	0.3299(6)	0.8155(3)	6.9(3)	
F(19)	0.4887(7)	0.3977(5)	0.7302(3)	5.6(3)	
F(20)	0.5949(6)	0.3535(4)	0.6667(3)	3.6(3)	
C(1)	0.8793(7)	0.5416(5)	0.9310(3)	5.41088	0.7
C(2)	0.8214(6)	0.5432(5)	0.9671(3)	5.41088	0.7
C(3)	0.8302(7)	0.4828(5)	0.9947(3)	5.41088	0.7
C(4)	0.8937(7)	0.4439(5)	0.9757(3)	5.41088	0.7
C(5)	0.9240(7)	0.4802(5)	0.9364(3)	5.41088	0.7
C(6)	0.8993(10)	0.6025(6)	0.8966(4)	5.41088	0.7
C(7)	0.7665(9)	0.6061(6)	0.9792(5)	5.41088	0.7
C(8)	0.7869(9)	0.4677(7)	1.0425(4)	5.41088	0.7
C(9)	0.9323(10)	0.3786(6)	0.9991(5)	5.41088	0.7
C(10)	1.0018(8)	0.4619(8)	0.9088(5)	5.41088	0.7
C(11)	0.872(1)	0.5481(9)	0.9481(6)	3.61850	0.3
C(12)	0.839(1)	0.513(1)	0.9874(6)	3.61850	0.3
C(13)	0.880(1)	0.4497(9)	0.9925(6)	3.61850	0.3
C(14)	0.938(1)	0.4456(9)	0.9565(6)	3.61850	0.3
C(15)	0.933(1)	0.5064(10)	0.9290(6)	3.61850	0.3
C(16)	0.853(2)	0.625(1)	0.9335(9)	3.61850	0.3

C(17)	0.779(2)	0.544(1)	1.0235(9)	3.61850	0.3

Table 5a. Atomic coordinates and B_{iso}/B_{eq} and fractional occupancy for atoms used in the disorder model. (continued)

atom	x	y	z	B_{eq}	Frac. occupancy
C(18)	0.872(2)	0.399(1)	1.0354(8)	3.61850	0.3
C(19)	1.005(2)	0.389(1)	0.9527(10)	3.61850	0.3
C(20)	0.993(2)	0.529(1)	0.8897(8)	3.61850	0.3
C(21)	0.911(1)	0.3181(9)	0.8651(7)	5.7(6)	
C(22)	0.818(2)	0.2691(9)	0.9425(7)	8.2(9)	
C(23)	0.750(2)	0.2937(9)	0.8532(7)	7.4(7)	
C(24)	0.717(1)	0.5756(7)	0.8484(5)	4.0(5)	
C(25)	0.825(1)	0.492(1)	0.8014(5)	6.1(7)	
C(26)	0.669(2)	0.4473(10)	0.8165(7)	7.2(7)	
C(27)	0.608(2)	0.456(1)	0.9884(10)	10(1)	
C(28)	0.597(2)	0.359(2)	0.9175(9)	14(1)	
C(29)	0.634(1)	0.2014(7)	0.6375(4)	2.6(3)	
C(30)	0.609(1)	0.2298(8)	0.5938(5)	3.6(3)	
C(31)	0.546(1)	0.1976(8)	0.5679(5)	4.3(4)	
C(32)	0.509(1)	0.1427(8)	0.5851(6)	4.7(4)	
C(33)	0.529(1)	0.1150(8)	0.6284(5)	3.7(3)	
C(34)	0.591(1)	0.1453(7)	0.6523(5)	2.6(3)	
C(35)	0.757(1)	0.2977(7)	0.6496(4)	2.7(3)	
C(36)	0.799(1)	0.2859(7)	0.6076(5)	3.6(3)	
C(37)	0.851(1)	0.3344(9)	0.5863(6)	4.7(4)	
C(38)	0.863(1)	0.3956(9)	0.6075(6)	4.6(4)	
C(39)	0.823(1)	0.4108(8)	0.6487(5)	3.7(3)	
C(40)	0.774(1)	0.3629(7)	0.6687(5)	3.2(3)	
C(41)	0.7701(10)	0.1788(6)	0.6903(4)	2.5(3)	
C(42)	0.787(1)	0.1153(7)	0.6706(5)	3.5(3)	
C(43)	0.848(1)	0.0722(8)	0.6863(5)	4.0(4)	
C(44)	0.902(1)	0.0924(9)	0.7210(6)	4.3(4)	
C(45)	0.890(1)	0.1558(8)	0.7413(5)	4.0(3)	
C(46)	0.827(1)	0.1976(7)	0.7259(5)	3.1(3)	
C(47)	0.645(1)	0.2645(6)	0.7175(4)	2.2(3)	
C(48)	0.631(1)	0.2330(7)	0.7608(5)	3.0(3)	
C(49)	0.575(1)	0.2546(8)	0.7926(5)	4.1(4)	
C(50)	0.526(1)	0.3091(9)	0.7842(6)	4.5(4)	
C(51)	0.535(1)	0.3417(8)	0.7405(5)	3.7(3)	
C(52)	0.593(1)	0.3192(7)	0.7094(5)	3.2(3)	
C(100)	0.86850	0.49834	0.96095	0.20000	
C(200)	0.89240	0.49280	0.96190	0.20000	
H(1)	0.92065	0.26850	0.86169	6.85080	
H(2)	0.91245	0.33797	0.83371	6.85080	
H(3)	0.95670	0.33674	0.88230	6.85080	
H(4)	0.76392	0.26143	0.95438	9.82092	

H(5)	0.83681	0.22529	0.93062	9.82092	

Table 5a. Atomic coordinates and B_{iso}/B_{eq} and fractional occupancy for atoms used in the disorder model. (continued)

atom	x	y	z	B_{eq}	Frac. occupancy
H(6)	0.85021	0.28261	0.96883	9.82092	
H(7)	0.69532	0.29727	0.86208	8.82480	
H(8)	0.75512	0.31423	0.82141	8.82480	
H(9)	0.76244	0.24456	0.84923	8.82480	
H(10)	0.76111	0.60771	0.85592	4.81824	
H(11)	0.69697	0.58821	0.81823	4.81824	
H(12)	0.67751	0.58155	0.87208	4.81824	
H(13)	0.85489	0.45093	0.79709	7.36704	
H(14)	0.80456	0.50867	0.77249	7.36704	
H(15)	0.86849	0.52871	0.81017	7.36704	
H(16)	0.61850	0.45400	0.83512	8.66016	
H(17)	0.65889	0.46784	0.78625	8.66016	
H(18)	0.67453	0.39821	0.81290	8.66016	
H(19)	0.63284	0.49508	1.00666	12.18096	
H(20)	0.55937	0.48127	0.97420	12.18096	
H(21)	0.58724	0.42472	1.01012	12.18096	
H(22)	0.54815	0.38267	0.90566	17.27532	
H(23)	0.61631	0.33172	0.89149	17.27532	
H(24)	0.57678	0.32611	0.94136	17.27532	

Table 5b. Anisotropic Displacement Parameters for 6

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.0891(7)	0.0395(3)	0.0209(3)	0.0046(5)	0.0022(4)	-0.0028(3)
P(1)	0.080(5)	0.038(2)	0.043(2)	0.001(3)	-0.006(3)	-0.005(2)
P(2)	0.091(5)	0.042(2)	0.031(2)	0.008(3)	0.002(3)	0.000(2)
Si(1)	0.106(7)	0.062(3)	0.044(2)	0.011(4)	0.015(3)	-0.004(2)
F(1)	0.09(1)	0.069(6)	0.040(5)	-0.022(6)	-0.023(6)	0.018(5)
F(2)	0.09(1)	0.109(8)	0.050(5)	-0.009(8)	-0.034(7)	-0.014(5)
F(3)	0.036(9)	0.104(8)	0.091(7)	-0.009(7)	-0.023(7)	-0.050(6)
F(4)	0.058(9)	0.060(6)	0.105(7)	-0.030(7)	0.020(7)	-0.020(6)
F(5)	0.072(9)	0.032(4)	0.055(5)	-0.003(5)	0.000(6)	-0.004(4)
F(6)	0.071(9)	0.076(6)	0.042(5)	-0.015(6)	0.009(6)	-0.025(4)
F(7)	0.09(1)	0.143(10)	0.036(5)	-0.026(9)	0.016(6)	0.000(6)
F(8)	0.10(1)	0.099(8)	0.099(8)	-0.036(8)	-0.017(7)	0.054(7)
F(9)	0.10(1)	0.047(5)	0.101(7)	-0.026(6)	-0.023(7)	0.004(5)
F(10)	0.087(10)	0.040(5)	0.051(5)	-0.007(6)	-0.020(6)	-0.004(4)
F(11)	0.060(8)	0.043(5)	0.072(6)	-0.001(5)	-0.001(6)	-0.019(5)
F(12)	0.067(10)	0.043(5)	0.135(9)	0.012(6)	0.010(8)	-0.007(6)
F(13)	0.076(10)	0.064(6)	0.136(9)	0.035(8)	-0.005(8)	0.038(7)
F(14)	0.08(1)	0.074(7)	0.058(6)	0.008(7)	-0.018(6)	0.026(5)
F(15)	0.070(10)	0.046(4)	0.031(4)	0.003(5)	-0.012(5)	0.005(3)
F(16)	0.049(9)	0.050(5)	0.036(4)	0.006(5)	-0.002(5)	0.009(4)
F(17)	0.067(10)	0.111(8)	0.034(5)	0.019(7)	0.008(5)	0.010(5)
F(18)	0.059(10)	0.134(9)	0.058(6)	0.044(8)	0.002(6)	-0.036(6)
F(19)	0.10(1)	0.068(6)	0.069(6)	0.051(7)	-0.030(7)	-0.024(5)
F(20)	0.091(10)	0.038(4)	0.041(5)	0.002(6)	-0.015(5)	0.014(4)
C(21)	0.08(2)	0.06(1)	0.10(1)	0.04(1)	0.01(1)	-0.03(1)
C(22)	0.28(4)	0.06(1)	0.09(1)	0.01(2)	0.02(2)	0.04(1)
C(23)	0.09(2)	0.06(1)	0.15(2)	0.03(1)	-0.02(2)	-0.03(1)
C(24)	0.07(2)	0.051(9)	0.038(8)	-0.01(1)	0.00(1)	0.005(7)
C(25)	0.15(3)	0.16(2)	0.017(7)	0.07(2)	0.03(1)	0.03(1)
C(26)	0.19(3)	0.07(1)	0.10(1)	-0.06(2)	-0.06(2)	0.01(1)
C(27)	0.10(3)	0.19(3)	0.19(3)	-0.09(3)	0.06(2)	-0.06(2)
C(28)	0.14(3)	0.26(4)	0.12(2)	-0.08(3)	0.03(2)	-0.11(2)
B(1)	0.05(2)	0.030(9)	0.023(7)	-0.01(1)	0.00(1)	0.003(7)

Table 5c. Selected Bond Lengths for 6 (Å)

atom	atom	distance	atom	atom	distance
Os(1)	P(1)	2.291(4)	C(29)	C(34)	1.36(2)
Os(1)	P(2)	2.313(4)	C(29)	B(1)	1.66(2)
Os(1)	Si(1)	2.247(7)	C(30)	C(31)	1.42(3)
Os(1)	C(100)	1.8675(4)	C(31)	C(32)	1.31(2)
Os(1)	C(200)	2.1075(3)	C(32)	C(33)	1.37(2)
Os(1)	C(3)	2.220(9)	C(33)	C(34)	1.36(2)
Os(1)	C(4)	2.20(1)	C(35)	C(36)	1.39(2)
Os(1)	C(5)	2.21(1)	C(35)	C(40)	1.39(2)
Os(1)	C(1)	2.25(1)	C(35)	B(1)	1.66(2)
Os(1)	C(2)	2.251(9)	C(36)	C(37)	1.41(2)
Os(1)	C(13)	2.41(2)	C(37)	C(38)	1.33(2)
Os(1)	C(11)	2.39(2)	C(38)	C(39)	1.36(2)
Os(1)	C(12)	2.33(2)	C(39)	C(40)	1.35(2)
P(1)	C(21)	1.81(2)	C(41)	C(42)	1.37(2)
P(1)	C(22)	1.83(2)	C(41)	C(46)	1.43(2)
P(1)	C(23)	1.84(2)	C(41)	B(1)	1.64(2)
P(2)	C(24)	1.79(2)	C(42)	C(43)	1.39(2)
P(2)	C(25)	1.76(2)	C(43)	C(44)	1.38(3)
P(2)	C(26)	1.86(2)	C(44)	C(45)	1.36(2)
Si(1)	C(27)	1.80(3)	C(45)	C(46)	1.39(2)
Si(1)	C(28)	1.89(3)	C(47)	C(48)	1.37(2)
F(1)	C(30)	1.35(2)	C(47)	C(52)	1.37(2)
F(2)	C(31)	1.36(2)	C(47)	B(1)	1.64(2)
F(3)	C(32)	1.37(2)	C(48)	C(49)	1.35(2)
F(4)	C(33)	1.34(2)	C(49)	C(50)	1.35(3)
F(5)	C(34)	1.36(2)	C(50)	C(51)	1.38(2)
F(6)	C(36)	1.37(2)	C(51)	C(52)	1.37(2)
F(7)	C(37)	1.36(2)	C(3)	C(4)	1.40(1)
F(8)	C(38)	1.35(2)	C(3)	C(2)	1.40(1)
F(9)	C(39)	1.37(2)	C(3)	C(8)	1.55(2)
F(10)	C(40)	1.36(2)	C(4)	C(5)	1.40(1)
F(11)	C(42)	1.34(2)	C(4)	C(9)	1.55(2)
F(12)	C(43)	1.36(2)	C(5)	C(10)	1.55(2)
F(13)	C(44)	1.34(2)	C(1)	C(2)	1.40(1)
F(14)	C(45)	1.34(2)	C(1)	C(6)	1.55(2)
F(15)	C(46)	1.36(2)	C(2)	C(7)	1.55(2)
F(16)	C(48)	1.37(2)	C(13)	C(14)	1.40(3)
F(17)	C(49)	1.41(2)	C(13)	C(12)	1.40(3)
F(18)	C(50)	1.35(2)	C(13)	C(18)	1.55(3)
F(19)	C(51)	1.36(2)	C(14)	C(15)	1.40(3)
F(20)	C(52)	1.37(2)	C(14)	C(19)	1.55(3)
C(29)	C(30)	1.41(2)	C(15)	C(11)	1.40(3)

Table 5c. Bond Lengths for 6 (Å) (continued)

atom	atom	distance
C(15)	C(20)	1.55(3)
C(11)	C(12)	1.40(3)
C(11)	C(16)	1.55(3)
C(12)	C(17)	1.55(3)

Table 5d. Selected Bond Angles for 6. (°)

atom	atom	atom	angle
P(1)	Os(1)	P(2)	94.1(1)
P(1)	Os(1)	Si(1)	90.0(2)
P(1)	Os(1)	C(100)	125.6(1)
P(1)	Os(1)	C(200)	116.6(1)
P(2)	Os(1)	Si(1)	90.3(2)
P(2)	Os(1)	C(100)	124.0(1)
P(2)	Os(1)	C(200)	125.8(1)
Si(1)	Os(1)	C(100)	122.8(1)
Si(1)	Os(1)	C(200)	130.1(1)
Os(1)	P(1)	C(21)	116.4(6)
Os(1)	P(1)	C(22)	115.7(6)
Os(1)	P(1)	C(23)	122.4(7)
C(21)	P(1)	C(22)	101(1)
C(21)	P(1)	C(23)	97(1)
C(22)	P(1)	C(23)	99.1(10)
Os(1)	P(2)	C(24)	114.4(5)
Os(1)	P(2)	C(25)	117.6(7)
Os(1)	P(2)	C(26)	122.5(6)
C(24)	P(2)	C(25)	101.1(9)
C(24)	P(2)	C(26)	97.2(9)
C(25)	P(2)	C(26)	100.0(10)
Os(1)	Si(1)	C(27)	132.0(9)
Os(1)	Si(1)	C(28)	132.5(9)
C(27)	Si(1)	C(28)	95(1)
C(30)	C(29)	C(34)	114(1)
C(30)	C(29)	B(1)	126(1)
C(34)	C(29)	B(1)	118(1)
F(1)	C(30)	C(29)	122(1)
F(1)	C(30)	C(31)	117(1)
C(29)	C(30)	C(31)	119(1)
F(2)	C(31)	C(30)	116(1)
F(2)	C(31)	C(32)	122(1)
C(30)	C(31)	C(32)	120(1)
F(3)	C(32)	C(31)	118(1)
F(3)	C(32)	C(33)	120(1)
C(31)	C(32)	C(33)	121(1)
F(4)	C(33)	C(32)	120(1)
F(4)	C(33)	C(34)	122(1)
C(32)	C(33)	C(34)	117(1)
F(5)	C(34)	C(29)	118(1)
F(5)	C(34)	C(33)	115(1)
C(29)	C(34)	C(33)	125(1)

Table 5d. Selected Bond Angles for 6. (°) (continued)

atom	atom	atom	angle
C(36)	C(35)	C(40)	111(1)
C(36)	C(35)	B(1)	120(1)
C(40)	C(35)	B(1)	127(1)
F(6)	C(36)	C(35)	118(1)
F(6)	C(36)	C(37)	116(1)
C(35)	C(36)	C(37)	124(1)
F(7)	C(37)	C(36)	117(1)
F(7)	C(37)	C(38)	123(1)
C(36)	C(37)	C(38)	118(1)
F(8)	C(38)	C(37)	118(1)
F(8)	C(38)	C(39)	121(1)
C(37)	C(38)	C(39)	119(1)
F(9)	C(39)	C(38)	118(1)
F(9)	C(39)	C(40)	121(1)
C(38)	C(39)	C(40)	119(1)
F(10)	C(40)	C(35)	120(1)
F(10)	C(40)	C(39)	113(1)
C(35)	C(40)	C(39)	125(1)
C(42)	C(41)	C(46)	111(1)
C(42)	C(41)	B(1)	128(1)
C(46)	C(41)	B(1)	119(1)
F(11)	C(42)	C(41)	120(1)
F(11)	C(42)	C(43)	115(1)
C(41)	C(42)	C(43)	123(1)
F(12)	C(43)	C(42)	118(1)
F(12)	C(43)	C(44)	119(1)
C(42)	C(43)	C(44)	122(1)
F(13)	C(44)	C(43)	121(1)
F(13)	C(44)	C(45)	121(1)
C(43)	C(44)	C(45)	116(1)
F(14)	C(45)	C(44)	120(1)
F(14)	C(45)	C(46)	119(1)
C(44)	C(45)	C(46)	119(1)
F(15)	C(46)	C(41)	118(1)
F(15)	C(46)	C(45)	116(1)
C(41)	C(46)	C(45)	125(1)
C(48)	C(47)	C(52)	112(1)
C(48)	C(47)	B(1)	126(1)
C(52)	C(47)	B(1)	119(1)
F(16)	C(48)	C(47)	120(1)
F(16)	C(48)	C(49)	115(1)

Table 5d. Selected Bond Angles for 6. (°) (continued)

atom	atom	atom	angle
C(47)	C(48)	C(49)	124(1)
F(17)	C(49)	C(48)	120(1)
F(17)	C(49)	C(50)	117(1)
C(48)	C(49)	C(50)	122(1)
F(18)	C(50)	C(49)	122(1)
F(18)	C(50)	C(51)	121(1)
C(49)	C(50)	C(51)	115(1)
F(19)	C(51)	C(50)	118(1)
F(19)	C(51)	C(52)	121(1)
C(50)	C(51)	C(52)	120(1)
F(20)	C(52)	C(47)	120(1)
F(20)	C(52)	C(51)	114(1)
C(47)	C(52)	C(51)	125(1)
C(29)	B(1)	C(35)	113(1)
C(29)	B(1)	C(41)	113(1)
C(29)	B(1)	C(47)	101(1)
C(35)	B(1)	C(41)	101(1)
C(35)	B(1)	C(47)	112(1)
C(41)	B(1)	C(47)	115(1)

Table 6. Structural parameters for $[Cp^*(Me_3P)_2OsSi^iPr_2][B(C_6F_5)_4]$ (7)

Table 6a. Atomic coordinates and B_{iso}/B_{eq} for 7

atom	x	y	z	B_{eq}
Os(1)	0.06117(1)	0.28925(1)	1.291840(10)	1.848(3)
P(1)	0.22644(8)	0.18378(8)	1.30586(7)	2.21(2)
P(2)	0.08180(9)	0.24508(8)	1.16176(7)	2.39(2)
Si(1)	0.15585(10)	0.42035(8)	1.22266(7)	2.32(2)
F(1)	0.4981(2)	-0.0087(2)	0.6641(2)	3.16(5)
F(2)	0.6019(2)	0.0487(2)	0.4951(2)	3.51(6)
F(3)	0.5240(2)	0.2280(2)	0.4025(2)	3.93(7)
F(4)	0.3350(2)	0.3471(2)	0.4874(2)	3.77(6)
F(5)	0.2287(2)	0.2903(2)	0.6580(2)	3.10(5)
F(6)	0.5192(2)	0.1274(2)	0.7688(2)	3.52(6)
F(7)	0.5938(3)	0.2692(3)	0.8048(2)	5.30(9)
F(8)	0.4442(4)	0.4297(3)	0.8633(2)	6.2(1)
F(9)	0.2165(3)	0.4437(2)	0.8849(2)	4.96(8)
F(10)	0.1413(2)	0.3069(2)	0.8473(2)	3.49(6)
F(11)	0.1453(2)	0.1201(2)	0.6600(1)	2.93(5)
F(12)	-0.0765(2)	0.1188(2)	0.7145(2)	3.60(6)
F(13)	-0.2003(2)	0.1168(3)	0.8857(2)	4.37(7)
F(14)	-0.0930(2)	0.1158(2)	1.0046(2)	3.94(6)
F(15)	0.1308(2)	0.1153(2)	0.9520(1)	2.87(5)
F(16)	0.3830(2)	0.0526(2)	0.9395(2)	3.57(6)
F(17)	0.4363(2)	-0.1334(2)	1.0182(2)	4.46(7)
F(18)	0.4029(3)	-0.2894(2)	0.9669(2)	5.29(8)
F(19)	0.3218(3)	-0.2541(2)	0.8275(2)	5.35(8)
F(20)	0.2776(2)	-0.0672(2)	0.7395(2)	3.19(6)
C(1)	-0.0997(4)	0.2202(3)	1.3791(3)	2.80(9)
C(2)	-0.0416(3)	0.2263(3)	1.4354(3)	2.51(9)
C(3)	-0.0337(4)	0.3272(3)	1.4278(3)	3.16(10)
C(4)	-0.0918(4)	0.3865(3)	1.3652(3)	4.0(1)
C(5)	-0.1322(4)	0.3190(4)	1.3358(3)	3.6(1)
C(6)	-0.1427(4)	0.1249(4)	1.3838(3)	4.1(1)
C(7)	-0.0156(4)	0.1406(4)	1.5055(3)	3.7(1)
C(8)	0.0032(6)	0.3648(4)	1.4904(3)	4.5(1)
C(9)	-0.1275(6)	0.4973(4)	1.3491(5)	5.4(2)
C(10)	-0.2153(5)	0.3471(6)	1.2825(4)	6.3(2)
C(11)	0.2304(4)	0.0515(3)	1.3117(3)	3.5(1)
C(12)	0.2611(4)	0.1792(4)	1.4051(3)	3.3(1)
C(13)	0.3643(4)	0.2057(4)	1.2255(3)	3.5(1)
C(14)	0.2210(4)	0.2057(4)	1.0856(3)	3.8(1)
C(15)	0.0142(5)	0.1381(4)	1.1754(3)	4.1(1)
C(16)	0.0177(4)	0.3370(4)	1.0841(3)	3.6(1)
C(17)	0.2289(4)	0.4654(3)	1.1018(3)	3.00(10)

C(18)	0.1563(5)	0.5573(4)	1.0631(4)	4.4(1)

Table 6a. Atomic coordinates and B_{iso}/B_{eq} for 7 (continued)

atom	x	y	z	B_{eq}
C(19)	0.3519(4)	0.4852(4)	1.0768(4)	4.0(1)
C(20)	0.1657(6)	0.5130(4)	1.2845(3)	4.6(1)
C(21)	0.2816(8)	0.4824(5)	1.3041(4)	6.2(2)
C(22)	0.1448(6)	0.6252(4)	1.2480(4)	5.5(2)
C(23)	0.3564(3)	0.1375(3)	0.6716(3)	2.20(8)
C(24)	0.4524(3)	0.0811(3)	0.6242(3)	2.34(9)
C(25)	0.5087(3)	0.1094(3)	0.5359(3)	2.85(9)
C(26)	0.4704(4)	0.1990(3)	0.4887(3)	2.81(10)
C(27)	0.3754(4)	0.2590(3)	0.5320(3)	2.86(10)
C(28)	0.3224(3)	0.2275(3)	0.6200(3)	2.58(9)
C(29)	0.3260(4)	0.2067(3)	0.8083(3)	2.52(9)
C(30)	0.4402(4)	0.2045(4)	0.7984(3)	3.4(1)
C(31)	0.4814(5)	0.2772(4)	0.8168(3)	3.9(1)
C(32)	0.4070(5)	0.3572(4)	0.8459(3)	4.5(1)
C(33)	0.2926(5)	0.3644(4)	0.8560(3)	3.8(1)
C(34)	0.2552(4)	0.2901(3)	0.8369(3)	2.95(10)
C(35)	0.1513(3)	0.1216(3)	0.8025(3)	2.16(8)
C(36)	0.0915(3)	0.1205(3)	0.7471(3)	2.30(8)
C(37)	-0.0248(3)	0.1199(3)	0.7733(3)	2.72(9)
C(38)	-0.0874(3)	0.1181(4)	0.8600(3)	3.13(10)
C(39)	-0.0335(3)	0.1177(3)	0.9185(3)	2.81(9)
C(40)	0.0831(3)	0.1177(3)	0.8899(3)	2.50(9)
C(41)	0.3315(3)	0.0036(3)	0.8317(3)	2.20(8)
C(42)	0.3697(3)	-0.0199(3)	0.9053(3)	2.87(9)
C(43)	0.3955(4)	-0.1167(4)	0.9500(3)	3.4(1)
C(44)	0.3784(4)	-0.1950(4)	0.9236(3)	3.6(1)
C(45)	0.3385(4)	-0.1773(3)	0.8540(3)	3.5(1)
C(46)	0.3168(3)	-0.0798(3)	0.8088(3)	2.70(9)
C(47)	0.6604(9)	0.305(1)	0.5738(6)	8.5(4)
C(48)	0.5573(8)	0.391(1)	0.5827(6)	8.0(4)
C(49)	0.5504(7)	0.4560(9)	0.4969(5)	7.3(3)
C(100)	-0.0798	0.2958	1.3887	0.2000
B(1)	0.2916(4)	0.1162(3)	0.7789(3)	2.30(9)
H(1)	-0.0800	0.0717	1.3750	4.9648
H(2)	-0.1783	0.1362	1.3394	4.9648
H(3)	-0.1964	0.1078	1.4400	4.9648
H(4)	0.0215	0.0831	1.4804	4.4785
H(5)	0.0330	0.1576	1.5305	4.4785
H(6)	-0.0847	0.1268	1.5500	4.4785
H(7)	0.0784	0.3324	1.4899	5.3604
H(8)	-0.0478	0.3507	1.5482	5.3604
H(9)	0.0021	0.4351	1.4721	5.3604

H(10)	-0.0773	0.5276	1.3622	6.4496

Table 6a. Atomic coordinates and B_{iso}/B_{eq} for 7 (continued)

atom	x	y	z	B_{eq}
H(11)	-0.1246	0.5213	1.2891	6.4496
H(12)	-0.2033	0.5136	1.3857	6.4496
H(13)	-0.2896	0.3373	1.3206	7.5557
H(14)	-0.2167	0.4154	1.2539	7.5557
H(15)	-0.1917	0.3063	1.2398	7.5557
H(16)	0.1619	0.0311	1.3530	4.2130
H(17)	0.2374	0.0412	1.2554	4.2130
H(18)	0.2940	0.0132	1.3298	4.2130
H(19)	0.2043	0.1517	1.4553	3.9067
H(20)	0.3335	0.1386	1.4029	3.9067
H(21)	0.2637	0.2449	1.4089	3.9067
H(22)	0.3612	0.2101	1.1680	4.1923
H(23)	0.3816	0.2665	1.2290	4.1923
H(24)	0.4220	0.1519	1.2376	4.1923
H(25)	0.2111	0.2003	1.0326	4.5959
H(26)	0.2550	0.1426	1.1117	4.5959
H(27)	0.2692	0.2538	1.0728	4.5959
H(28)	0.0377	0.0844	1.2175	4.8623
H(29)	0.0362	0.1176	1.1207	4.8623
H(30)	-0.0666	0.1566	1.1952	4.8623
H(31)	0.0237	0.3077	1.0366	4.3243
H(32)	-0.0606	0.3581	1.1131	4.3243
H(33)	0.0566	0.3931	1.0621	4.3243
H(34)	0.2332	0.4136	1.0730	3.6038
H(35)	0.0791	0.5469	1.0825	5.2235
H(36)	0.1604	0.6142	1.0820	5.2235
H(37)	0.1840	0.5680	1.0006	5.2235
H(38)	0.3969	0.4279	1.1010	4.7952
H(39)	0.3834	0.4988	1.0144	4.7952
H(40)	0.3513	0.5411	1.0993	4.7952
H(41)	0.1090	0.5023	1.3401	5.4994
H(42)	0.2929	0.4128	1.3281	7.4575
H(43)	0.3417	0.4969	1.2511	7.4575
H(44)	0.2815	0.5188	1.3452	7.4575
H(45)	0.0724	0.6435	1.2380	6.5752
H(46)	0.1461	0.6608	1.2891	6.5752
H(47)	0.2030	0.6413	1.1941	6.5752
H(48)	0.6541	0.2632	0.5395	10.1902
H(49)	0.6605	0.2682	0.6304	10.1902
H(50)	0.7286	0.3330	0.5453	10.1902
H(51)	0.5630	0.4312	0.6184	9.5774
H(52)	0.4894	0.3624	0.6100	9.5774

H(53)	0.6271	0.4899	0.4629	3.4366

Table 6a. Atomic coordinates and B_{iso}/B_{eq} for 7 (continued)

atom	**x**	**y**	**z**	**B_{eq}**
H(54)	0.5492	0.4225	0.4534	3.4366

Table 6b. Anisotropic Displacement Parameters for 7

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.02617(8)	0.02311(9)	0.02500(9)	-0.00313(6)	-0.00953(6)	-0.00452(6)
P(1)	0.0278(5)	0.0282(5)	0.0355(6)	-0.0031(4)	-0.0144(4)	-0.0043(4)
P(2)	0.0405(6)	0.0357(6)	0.0282(5)	-0.0115(5)	-0.0140(5)	-0.0062(5)
Si(1)	0.0376(6)	0.0263(6)	0.0299(6)	-0.0092(5)	-0.0116(5)	-0.0027(5)
F(1)	0.032(1)	0.037(1)	0.044(1)	0.005(1)	-0.010(1)	-0.004(1)
F(2)	0.033(1)	0.062(2)	0.046(2)	-0.005(1)	0.001(1)	-0.015(1)
F(3)	0.058(2)	0.067(2)	0.032(1)	-0.025(1)	-0.005(1)	-0.001(1)
F(4)	0.071(2)	0.037(1)	0.041(1)	-0.012(1)	-0.029(1)	0.006(1)
F(5)	0.052(1)	0.029(1)	0.039(1)	0.008(1)	-0.018(1)	-0.007(1)
F(6)	0.038(1)	0.057(2)	0.052(2)	-0.011(1)	-0.019(1)	-0.009(1)
F(7)	0.072(2)	0.111(3)	0.064(2)	-0.054(2)	-0.026(2)	-0.011(2)
F(8)	0.137(3)	0.086(3)	0.068(2)	-0.072(3)	-0.021(2)	-0.024(2)
F(9)	0.116(3)	0.040(2)	0.048(2)	-0.020(2)	-0.009(2)	-0.017(1)
F(10)	0.058(2)	0.036(1)	0.046(2)	0.001(1)	-0.016(1)	-0.014(1)
F(11)	0.034(1)	0.058(2)	0.030(1)	-0.007(1)	-0.0117(10)	-0.014(1)
F(12)	0.038(1)	0.072(2)	0.043(1)	-0.011(1)	-0.022(1)	-0.009(1)
F(13)	0.029(1)	0.105(3)	0.051(2)	-0.012(1)	-0.010(1)	-0.016(2)
F(14)	0.042(1)	0.078(2)	0.031(1)	-0.009(1)	-0.004(1)	-0.011(1)
F(15)	0.040(1)	0.050(2)	0.027(1)	-0.007(1)	-0.013(1)	-0.008(1)
F(16)	0.056(2)	0.052(2)	0.041(1)	-0.010(1)	-0.028(1)	-0.005(1)
F(17)	0.049(2)	0.076(2)	0.047(2)	-0.009(1)	-0.026(1)	0.020(1)
F(18)	0.065(2)	0.039(2)	0.087(2)	-0.001(1)	-0.017(2)	0.023(2)
F(19)	0.077(2)	0.031(2)	0.099(3)	-0.012(1)	-0.022(2)	-0.012(2)
F(20)	0.044(1)	0.039(1)	0.053(2)	-0.009(1)	-0.018(1)	-0.016(1)
C(1)	0.035(2)	0.046(3)	0.032(2)	-0.015(2)	-0.006(2)	-0.003(2)
C(2)	0.039(2)	0.032(2)	0.030(2)	-0.008(2)	-0.005(2)	-0.009(2)
C(3)	0.047(3)	0.037(3)	0.039(3)	-0.006(2)	0.002(2)	-0.020(2)
C(4)	0.048(3)	0.026(2)	0.050(3)	0.004(2)	0.015(2)	0.002(2)
C(5)	0.030(2)	0.061(3)	0.044(3)	-0.005(2)	-0.005(2)	-0.003(2)
C(6)	0.057(3)	0.076(4)	0.050(3)	-0.039(3)	-0.010(2)	-0.012(3)
C(7)	0.069(3)	0.042(3)	0.034(3)	-0.019(2)	-0.012(2)	-0.001(2)
C(8)	0.104(4)	0.070(4)	0.038(3)	-0.053(4)	0.006(3)	-0.025(3)
C(9)	0.079(4)	0.037(3)	0.108(6)	0.009(3)	0.021(4)	-0.003(3)
C(10)	0.036(3)	0.133(7)	0.077(4)	0.010(3)	-0.021(3)	0.015(4)
C(11)	0.046(3)	0.032(2)	0.056(3)	0.000(2)	-0.023(2)	-0.007(2)
C(12)	0.045(3)	0.043(3)	0.050(3)	-0.004(2)	-0.029(2)	-0.006(2)
C(13)	0.028(2)	0.050(3)	0.055(3)	-0.005(2)	-0.013(2)	0.002(2)
C(14)	0.060(3)	0.056(3)	0.031(2)	-0.004(2)	-0.011(2)	-0.018(2)
C(15)	0.078(3)	0.051(3)	0.045(3)	-0.031(3)	-0.021(3)	-0.012(2)
C(16)	0.058(3)	0.059(3)	0.036(3)	-0.018(2)	-0.027(2)	-0.002(2)
C(17)	0.047(2)	0.039(3)	0.034(2)	-0.015(2)	-0.011(2)	-0.005(2)
C(18)	0.072(3)	0.049(3)	0.056(3)	-0.014(3)	-0.032(3)	0.007(3)
C(19)	0.048(3)	0.044(3)	0.061(3)	-0.015(2)	-0.002(2)	-0.004(2)

Table 6b. Anisotropic Displacement Parameters for 7 (continued)

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(20)	0.109(5)	0.050(3)	0.037(3)	-0.049(3)	-0.016(3)	-0.002(2)
C(21)	0.166(7)	0.073(5)	0.077(4)	-0.068(5)	-0.074(5)	0.019(3)
C(22)	0.120(5)	0.042(3)	0.062(4)	-0.034(3)	-0.014(4)	-0.012(3)
C(23)	0.030(2)	0.029(2)	0.034(2)	-0.007(2)	-0.015(2)	-0.006(2)
C(24)	0.027(2)	0.030(2)	0.038(2)	-0.006(2)	-0.013(2)	-0.002(2)
C(25)	0.027(2)	0.046(3)	0.037(2)	-0.009(2)	-0.007(2)	-0.013(2)
C(26)	0.043(2)	0.045(3)	0.031(2)	-0.021(2)	-0.011(2)	-0.003(2)
C(27)	0.053(3)	0.029(2)	0.037(2)	-0.013(2)	-0.024(2)	-0.001(2)
C(28)	0.040(2)	0.029(2)	0.033(2)	-0.006(2)	-0.015(2)	-0.007(2)
C(29)	0.049(2)	0.030(2)	0.028(2)	-0.014(2)	-0.018(2)	-0.001(2)
C(30)	0.050(3)	0.047(3)	0.033(2)	-0.015(2)	-0.017(2)	-0.006(2)
C(31)	0.065(3)	0.066(4)	0.038(3)	-0.039(3)	-0.018(2)	0.002(2)
C(32)	0.096(4)	0.059(4)	0.036(3)	-0.048(3)	-0.014(3)	-0.010(2)
C(33)	0.088(4)	0.037(3)	0.030(2)	-0.022(3)	-0.010(2)	-0.007(2)
C(34)	0.053(3)	0.036(3)	0.028(2)	-0.011(2)	-0.013(2)	-0.004(2)
C(35)	0.031(2)	0.025(2)	0.031(2)	0.001(2)	-0.013(2)	-0.008(2)
C(36)	0.031(2)	0.032(2)	0.031(2)	-0.001(2)	-0.010(2)	-0.009(2)
C(37)	0.036(2)	0.040(2)	0.039(2)	-0.003(2)	-0.021(2)	-0.008(2)
C(38)	0.027(2)	0.051(3)	0.042(3)	-0.002(2)	-0.012(2)	-0.009(2)
C(39)	0.035(2)	0.044(3)	0.027(2)	-0.002(2)	-0.005(2)	-0.007(2)
C(40)	0.036(2)	0.033(2)	0.029(2)	-0.003(2)	-0.015(2)	-0.005(2)
C(41)	0.023(2)	0.032(2)	0.032(2)	-0.003(2)	-0.008(2)	-0.003(2)
C(42)	0.029(2)	0.040(3)	0.034(2)	-0.005(2)	-0.008(2)	0.002(2)
C(43)	0.030(2)	0.051(3)	0.038(3)	-0.005(2)	-0.010(2)	0.007(2)
C(44)	0.033(2)	0.038(3)	0.052(3)	-0.002(2)	-0.004(2)	0.014(2)
C(45)	0.037(2)	0.034(3)	0.058(3)	-0.006(2)	-0.006(2)	-0.009(2)
C(46)	0.026(2)	0.032(2)	0.041(2)	-0.004(2)	-0.007(2)	-0.004(2)
C(47)	0.122(7)	0.27(1)	0.090(6)	-0.111(9)	0.031(6)	-0.092(8)
C(48)	0.116(7)	0.27(1)	0.089(6)	-0.130(9)	0.031(5)	-0.098(8)
C(49)	0.121(7)	0.23(1)	0.064(5)	-0.126(8)	0.034(5)	-0.081(6)
B(1)	0.032(2)	0.026(2)	0.033(2)	-0.002(2)	-0.017(2)	-0.005(2)

Table 6c. Selected Bond Lengths for 7 (Å)

atom	atom	distance	atom	atom	distance
Os(1)	P(1)	2.302(1)	C(2)	C(7)	1.498(6)
Os(1)	P(2)	2.303(1)	C(3)	C(4)	1.446(7)
Os(1)	Si(1)	2.263(1)	C(3)	C(8)	1.518(7)
Os(1)	C(1)	2.308(4)	C(4)	C(5)	1.427(8)
Os(1)	C(2)	2.324(4)	C(4)	C(9)	1.492(7)
Os(1)	C(3)	2.285(4)	C(5)	C(10)	1.516(8)
Os(1)	C(4)	2.248(4)	C(17)	C(18)	1.526(7)
Os(1)	C(5)	2.263(4)	C(17)	C(19)	1.538(6)
Os(1)	C(100)	1.93960(10)	C(20)	C(21)	1.55(1)
P(1)	C(11)	1.823(5)	C(20)	C(22)	1.527(8)
P(1)	C(12)	1.822(4)	C(23)	C(24)	1.386(5)
P(1)	C(13)	1.825(4)	C(23)	C(28)	1.393(6)
P(2)	C(14)	1.830(5)	C(23)	B(1)	1.653(6)
P(2)	C(15)	1.827(5)	C(24)	C(25)	1.380(6)
P(2)	C(16)	1.824(5)	C(25)	C(26)	1.372(6)
Si(1)	C(17)	1.891(4)	C(26)	C(27)	1.379(6)
Si(1)	C(20)	1.900(5)	C(27)	C(28)	1.373(6)
F(1)	C(24)	1.357(5)	C(29)	C(30)	1.390(6)
F(2)	C(25)	1.356(5)	C(29)	C(34)	1.375(6)
F(3)	C(26)	1.345(5)	C(29)	B(1)	1.664(6)
F(4)	C(27)	1.348(5)	C(30)	C(31)	1.390(7)
F(5)	C(28)	1.361(5)	C(31)	C(32)	1.358(8)
F(6)	C(30)	1.353(5)	C(32)	C(33)	1.380(8)
F(7)	C(31)	1.346(6)	C(33)	C(34)	1.387(7)
F(8)	C(32)	1.347(5)	C(35)	C(36)	1.380(5)
F(9)	C(33)	1.358(6)	C(35)	C(40)	1.396(5)
F(10)	C(34)	1.359(5)	C(35)	B(1)	1.667(6)
F(11)	C(36)	1.363(4)	C(36)	C(37)	1.383(6)
F(12)	C(37)	1.353(5)	C(37)	C(38)	1.371(6)
F(13)	C(38)	1.344(5)	C(38)	C(39)	1.362(6)
F(14)	C(39)	1.355(5)	C(39)	C(40)	1.383(6)
F(15)	C(40)	1.349(4)	C(41)	C(42)	1.395(6)
F(16)	C(42)	1.354(5)	C(41)	C(46)	1.390(6)
F(17)	C(43)	1.342(5)	C(41)	B(1)	1.648(6)
F(18)	C(44)	1.351(5)	C(42)	C(43)	1.388(6)
F(19)	C(45)	1.349(5)	C(43)	C(44)	1.369(7)
F(20)	C(46)	1.354(5)	C(44)	C(45)	1.354(7)
C(1)	C(2)	1.401(6)	C(45)	C(46)	1.391(6)
C(1)	C(5)	1.421(7)	C(47)	C(48)	1.54(2)
C(1)	C(6)	1.533(7)	C(48)	C(49)	1.49(2)
C(2)	C(3)	1.413(6)	C(49)	C(49)*	1.54(2)

Table 6d. Selected Bond Angles for 7(°)

atom	atom	atom	angle
P(1)	Os(1)	P(2)	91.95(4)
P(1)	Os(1)	Si(1)	91.88(4)
P(1)	Os(1)	C(100)	122.73(3)
P(2)	Os(1)	Si(1)	93.11(4)
P(2)	Os(1)	C(100)	124.46(3)
Si(1)	Os(1)	C(100)	123.61(3)
Os(1)	P(1)	C(11)	116.3(1)
Os(1)	P(1)	C(12)	115.3(2)
Os(1)	P(1)	C(13)	120.5(2)
C(11)	P(1)	C(12)	101.3(2)
C(11)	P(1)	C(13)	102.0(2)
C(12)	P(1)	C(13)	98.3(2)
Os(1)	P(2)	C(14)	123.1(2)
Os(1)	P(2)	C(15)	114.2(2)
Os(1)	P(2)	C(16)	117.2(2)
C(14)	P(2)	C(15)	98.6(2)
C(14)	P(2)	C(16)	99.4(2)
C(15)	P(2)	C(16)	100.5(2)
Os(1)	Si(1)	C(17)	130.6(1)
Os(1)	Si(1)	C(20)	122.0(2)
C(17)	Si(1)	C(20)	107.3(2)
C(2)	C(1)	C(5)	107.8(4)
C(2)	C(1)	C(6)	123.0(4)
C(5)	C(1)	C(6)	127.7(4)
C(1)	C(2)	C(3)	109.8(4)
C(1)	C(2)	C(7)	123.2(4)
C(3)	C(2)	C(7)	125.8(4)
C(2)	C(3)	C(4)	106.8(4)
C(2)	C(3)	C(8)	124.6(5)
C(4)	C(3)	C(8)	127.1(5)
C(3)	C(4)	C(5)	107.3(4)
C(3)	C(4)	C(9)	126.7(6)
C(5)	C(4)	C(9)	124.6(6)
C(1)	C(5)	C(4)	108.2(4)
C(1)	C(5)	C(10)	124.4(5)
C(4)	C(5)	C(10)	126.3(6)
Si(1)	C(17)	C(18)	111.1(3)
Si(1)	C(17)	C(19)	116.7(3)
C(18)	C(17)	C(19)	109.7(4)
Si(1)	C(20)	C(21)	108.4(4)
Si(1)	C(20)	C(22)	120.2(4)
C(21)	C(20)	C(22)	110.2(5)
C(24)	C(23)	C(28)	112.3(4)

Table 6d. Selected Bond Angles for 7(°)

atom	atom	atom	angle
C(24)	C(23)	B(1)	128.1(4)
C(28)	C(23)	B(1)	119.1(3)
F(1)	C(24)	C(23)	120.4(4)
F(1)	C(24)	C(25)	114.9(3)
C(23)	C(24)	C(25)	124.6(4)
F(2)	C(25)	C(24)	120.2(4)
F(2)	C(25)	C(26)	119.6(4)
C(24)	C(25)	C(26)	120.1(4)
F(3)	C(26)	C(25)	121.1(4)
F(3)	C(26)	C(27)	120.7(4)
C(25)	C(26)	C(27)	118.2(4)
F(4)	C(27)	C(26)	119.7(4)
F(4)	C(27)	C(28)	120.9(4)
C(26)	C(27)	C(28)	119.4(4)
F(5)	C(28)	C(23)	118.7(4)
F(5)	C(28)	C(27)	116.0(4)
C(23)	C(28)	C(27)	125.3(4)
C(30)	C(29)	C(34)	113.6(4)
C(30)	C(29)	B(1)	118.5(4)
C(34)	C(29)	B(1)	127.8(4)
F(6)	C(30)	C(29)	119.4(4)
F(6)	C(30)	C(31)	116.0(4)
C(29)	C(30)	C(31)	124.6(5)
F(7)	C(31)	C(30)	120.5(5)
F(7)	C(31)	C(32)	120.4(5)
C(30)	C(31)	C(32)	119.1(5)
F(8)	C(32)	C(31)	120.7(5)
F(8)	C(32)	C(33)	120.2(5)
C(31)	C(32)	C(33)	119.1(4)
F(9)	C(33)	C(32)	120.2(5)
F(9)	C(33)	C(34)	120.0(5)
C(32)	C(33)	C(34)	119.9(5)
F(10)	C(34)	C(29)	121.9(4)
F(10)	C(34)	C(33)	114.3(4)
C(29)	C(34)	C(33)	123.8(4)
C(36)	C(35)	C(40)	113.1(3)
C(36)	C(35)	B(1)	128.1(4)
C(40)	C(35)	B(1)	118.5(3)
F(11)	C(36)	C(35)	121.1(3)
F(11)	C(36)	C(37)	114.5(3)
C(35)	C(36)	C(37)	124.4(4)
F(12)	C(37)	C(36)	120.4(4)
F(12)	C(37)	C(38)	119.9(4)

Table 6d. Selected Bond Angles for 7(°)

atom	atom	atom	angle
C(36)	C(37)	C(38)	119.7(4)
F(13)	C(38)	C(37)	119.7(4)
F(13)	C(38)	C(39)	121.2(4)
C(37)	C(38)	C(39)	119.0(4)
F(14)	C(39)	C(38)	120.4(4)
F(14)	C(39)	C(40)	119.9(4)
C(38)	C(39)	C(40)	119.6(4)
F(15)	C(40)	C(35)	119.6(3)
F(15)	C(40)	C(39)	116.2(3)
C(35)	C(40)	C(39)	124.2(4)
C(42)	C(41)	C(46)	113.3(4)
C(42)	C(41)	B(1)	127.1(4)
C(46)	C(41)	B(1)	119.3(3)
F(16)	C(42)	C(41)	121.2(4)
F(16)	C(42)	C(43)	114.7(4)
C(41)	C(42)	C(43)	124.2(4)
F(17)	C(43)	C(42)	120.6(4)
F(17)	C(43)	C(44)	120.4(4)
C(42)	C(43)	C(44)	119.0(4)
F(18)	C(44)	C(43)	119.4(5)
F(18)	C(44)	C(45)	120.7(5)
C(43)	C(44)	C(45)	119.8(4)
F(19)	C(45)	C(44)	120.2(5)
F(19)	C(45)	C(46)	119.9(4)
C(44)	C(45)	C(46)	119.9(4)
F(20)	C(46)	C(41)	119.4(4)
F(20)	C(46)	C(45)	116.9(4)
C(41)	C(46)	C(45)	123.7(4)
C(47)	C(48)	C(49)	113.7(7)
C(48)	C(49)	C(49)*	115.3(8)
C(23)	B(1)	C(29)	101.1(3)
C(23)	B(1)	C(35)	112.0(3)
C(23)	B(1)	C(41)	114.7(3)
C(29)	B(1)	C(35)	113.7(3)
C(29)	B(1)	C(41)	112.9(3)
C(35)	B(1)	C(41)	102.9(3)

Table 7. Structural parameters for $[Cp^*(Me_3P)_2Os\text{-}NN\text{-}Os(PMe_3)_2Cp^*][B(C_6F_5)_4]_2 \bullet 2\ C_6H_5F$ (8)

Table 7a. Atomic coordinates and B_{iso}/B_{eq} for 8

atom	x	y	z	B_{eq}
Os(1)	0.43247(3)	0.30004(2)	0.17388(1)	1.683(10)
Os(2)	0.56757(3)	0.26446(2)	0.34152(1)	1.741(10)
P(1)	0.5314(2)	0.3998(2)	0.13548(9)	2.81(6)
P(2)	0.5810(2)	0.1666(2)	0.14500(9)	2.58(6)
P(3)	0.7415(3)	0.1380(2)	0.3284(1)	3.26(7)
P(4)	0.4725(3)	0.1617(2)	0.38012(10)	3.31(7)
F(1)	0.1128(4)	0.4618(3)	0.8146(2)	3.3(1)
F(2)	0.0190(5)	0.6438(4)	0.8239(2)	4.8(2)
F(3)	0.0043(5)	0.7038(4)	0.9130(2)	4.2(2)
F(4)	0.0842(5)	0.5729(3)	0.9948(2)	3.1(1)
F(5)	0.1720(4)	0.3863(3)	0.9879(2)	2.9(1)
F(6)	0.3526(4)	0.3755(3)	0.8194(2)	3.0(1)
F(7)	0.4165(5)	0.3409(4)	0.7240(2)	4.0(1)
F(8)	0.3612(5)	0.2091(4)	0.6921(2)	4.5(2)
F(9)	0.2366(5)	0.1168(4)	0.7578(2)	3.7(2)
F(10)	0.1644(4)	0.1541(3)	0.8517(2)	3.1(1)
F(11)	0.3385(4)	0.0934(3)	0.9147(2)	3.0(1)
F(12)	0.5464(5)	-0.0046(4)	0.9439(2)	3.8(1)
F(13)	0.6687(4)	0.0874(4)	0.9694(2)	4.1(1)
F(14)	0.5753(4)	0.2830(4)	0.9624(2)	3.6(1)
F(15)	0.3719(4)	0.3810(3)	0.9320(2)	3.0(1)
F(16)	-0.0075(4)	0.3441(4)	0.8685(2)	3.2(1)
F(17)	-0.1873(5)	0.3034(4)	0.9195(2)	4.4(2)
F(18)	-0.1695(5)	0.1925(4)	1.0119(2)	5.5(2)
F(19)	0.0326(5)	0.1253(4)	1.0521(2)	4.1(2)
F(20)	0.2100(5)	0.1702(4)	1.0043(2)	3.7(1)
F(21)	0.5798(4)	0.0907(3)	0.5834(2)	2.9(1)
F(22)	0.3672(4)	0.1829(4)	0.5627(2)	3.9(2)
F(23)	0.2559(5)	0.3719(4)	0.5715(2)	4.5(2)
F(24)	0.3674(5)	0.4656(4)	0.6032(2)	4.0(2)
F(25)	0.5843(4)	0.3740(3)	0.6242(2)	2.9(1)
F(26)	0.7838(4)	0.3026(3)	0.6780(2)	2.5(1)
F(27)	0.7237(4)	0.3189(3)	0.7744(2)	3.3(1)
F(28)	0.6046(5)	0.2144(4)	0.8366(2)	3.4(1)
F(29)	0.5535(5)	0.0898(4)	0.7973(2)	3.4(1)
F(30)	0.6093(4)	0.0739(3)	0.6985(2)	2.9(1)
F(31)	0.9586(4)	0.1237(3)	0.6441(2)	3.0(1)
F(32)	1.1263(5)	0.1792(4)	0.5921(2)	5.1(2)
F(33)	1.0840(5)	0.3186(5)	0.5095(2)	5.5(2)
F(34)	0.8674(5)	0.3961(4)	0.4807(2)	4.6(2)

Table 7a. Atomic coordinates and B_{iso}/B_{eq} for 8 (continued)

atom	x	y	z	B_{eq}
F(35)	0.7021(5)	0.3362(4)	0.5288(2)	3.3(1)
F(36)	0.7704(4)	0.1237(3)	0.5217(2)	3.1(1)
F(37)	0.8832(5)	-0.0473(4)	0.4928(2)	4.5(2)
F(38)	0.9706(5)	-0.2049(4)	0.5622(2)	4.6(2)
F(39)	0.9446(5)	-0.1835(3)	0.6612(2)	3.6(1)
F(40)	0.8413(4)	-0.0143(3)	0.6906(2)	2.6(1)
F(41)	0.052(1)	0.608(1)	0.6459(5)	18.2(5)
F(42)	0.992(1)	0.1841(9)	0.7579(5)	16.6(4)
N(1)	0.5026(6)	0.2742(5)	0.2367(3)	2.1(2)
N(2)	0.5316(6)	0.2624(5)	0.2752(3)	2.2(2)
C(1)	0.2571(7)	0.3294(7)	0.2192(3)	2.5(2)
C(2)	0.2515(7)	0.4106(7)	0.1827(3)	2.8(2)
C(3)	0.2769(8)	0.3804(7)	0.1335(3)	2.1(2)
C(4)	0.2936(8)	0.2828(7)	0.1406(4)	3.0(2)
C(5)	0.2824(8)	0.2510(7)	0.1941(4)	3.1(2)
C(6)	0.2275(8)	0.3305(7)	0.2746(4)	3.6(3)
C(7)	0.2009(9)	0.5107(7)	0.1949(4)	3.6(3)
C(8)	0.2598(9)	0.4454(7)	0.0843(4)	3.4(3)
C(9)	0.2986(9)	0.2272(7)	0.1004(4)	3.4(3)
C(10)	0.2704(9)	0.1575(7)	0.2190(4)	3.8(3)
C(11)	0.4513(9)	0.5258(7)	0.1380(4)	3.5(3)
C(12)	0.5829(10)	0.4023(7)	0.0679(4)	3.7(3)
C(13)	0.6601(9)	0.3840(7)	0.1618(4)	3.8(3)
C(14)	0.6008(9)	0.1522(7)	0.0790(4)	3.0(3)
C(15)	0.7284(9)	0.1431(8)	0.1538(4)	3.6(3)
C(16)	0.5647(9)	0.0555(7)	0.1754(3)	3.2(3)
C(17)	0.6449(8)	0.3362(6)	0.3804(3)	2.0(2)
C(18)	0.6281(8)	0.3881(6)	0.3304(3)	2.4(2)
C(19)	0.5061(8)	0.4243(6)	0.3278(3)	2.5(2)
C(20)	0.4478(7)	0.3973(6)	0.3752(3)	2.5(2)
C(21)	0.5362(8)	0.3407(6)	0.4075(3)	2.5(2)
C(22)	0.7551(8)	0.3008(6)	0.4032(3)	3.2(2)
C(23)	0.7127(9)	0.4187(7)	0.2926(4)	3.0(3)
C(24)	0.4455(8)	0.4913(6)	0.2839(4)	3.0(3)
C(25)	0.3204(9)	0.4396(8)	0.3907(4)	3.7(3)
C(26)	0.5153(9)	0.3068(8)	0.4634(4)	3.5(3)
C(27)	0.7420(10)	0.0366(7)	0.3023(5)	4.2(3)
C(28)	0.8210(9)	0.0755(7)	0.3832(4)	5.0(3)
C(29)	0.8490(9)	0.1727(8)	0.2826(4)	4.2(3)
C(30)	0.446(1)	0.0936(7)	0.3387(4)	3.9(3)
C(31)	0.327(1)	0.2155(9)	0.4111(4)	6.3(4)
C(32)	0.535(1)	0.0697(8)	0.4310(4)	4.8(4)
C(33)	0.1540(7)	0.4129(6)	0.9004(3)	2.1(2)

Table 7a. Atomic coordinates and B_{iso}/B_{eq} for 8 (continued)

atom	x	y	z	B_{eq}
C(34)	0.1091(7)	0.4839(6)	0.8607(3)	2.5(2)
C(35)	0.0591(8)	0.5789(7)	0.8645(4)	3.2(2)
C(36)	0.0514(8)	0.6104(7)	0.9091(3)	3.1(2)
C(37)	0.0918(8)	0.5439(6)	0.9503(3)	2.9(2)
C(38)	0.1383(7)	0.4475(6)	0.9451(3)	2.4(2)
C(39)	0.2518(7)	0.2694(6)	0.8412(3)	2.0(2)
C(40)	0.3190(8)	0.3113(6)	0.8056(3)	2.5(2)
C(41)	0.3537(8)	0.2948(6)	0.7565(3)	2.4(2)
C(42)	0.3258(8)	0.2294(7)	0.7405(3)	2.9(2)
C(43)	0.2637(8)	0.1831(7)	0.7727(3)	2.8(2)
C(44)	0.2265(7)	0.2038(6)	0.8218(3)	2.4(2)
C(45)	0.3387(7)	0.2441(6)	0.9222(3)	2.4(2)
C(46)	0.3939(8)	0.1454(7)	0.9264(3)	2.9(2)
C(47)	0.5028(8)	0.0904(7)	0.9415(3)	3.0(2)
C(48)	0.5620(8)	0.1371(7)	0.9545(3)	3.0(2)
C(49)	0.5175(8)	0.2343(7)	0.9514(3)	2.8(2)
C(50)	0.4086(8)	0.2846(6)	0.9352(3)	2.7(2)
C(51)	0.1134(7)	0.2588(6)	0.9325(3)	2.4(2)
C(52)	0.0062(8)	0.2893(6)	0.9145(3)	2.5(2)
C(53)	-0.0893(8)	0.2694(7)	0.9406(3)	3.0(2)
C(54)	-0.0781(8)	0.2130(7)	0.9861(4)	3.3(2)
C(55)	0.0219(8)	0.1809(6)	1.0061(3)	2.7(2)
C(56)	0.1151(8)	0.2032(6)	0.9799(3)	2.6(2)
C(57)	0.5957(7)	0.2288(6)	0.6047(3)	2.1(2)
C(58)	0.5335(7)	0.1846(6)	0.5896(3)	2.3(2)
C(59)	0.4214(7)	0.2311(6)	0.5780(3)	2.3(2)
C(60)	0.3653(8)	0.3256(7)	0.5833(4)	3.3(2)
C(61)	0.4231(8)	0.3720(7)	0.5984(3)	2.9(2)
C(62)	0.5342(7)	0.3229(6)	0.6089(3)	2.1(2)
C(63)	0.7038(7)	0.1844(6)	0.6819(3)	2.1(2)
C(64)	0.7281(7)	0.2460(6)	0.7051(3)	2.4(2)
C(65)	0.6972(8)	0.2565(6)	0.7561(3)	2.6(2)
C(66)	0.6374(8)	0.2049(6)	0.7871(3)	2.6(2)
C(67)	0.6112(8)	0.1417(6)	0.7674(3)	2.5(2)
C(68)	0.6423(8)	0.1350(6)	0.7156(3)	2.7(2)
C(69)	0.8214(7)	0.2268(6)	0.5893(3)	2.3(2)
C(70)	0.9321(8)	0.1919(6)	0.6022(3)	2.6(2)
C(71)	1.0195(8)	0.2207(7)	0.5768(3)	3.1(2)
C(72)	0.9978(9)	0.2885(7)	0.5358(4)	3.4(2)
C(73)	0.8911(8)	0.3264(7)	0.5213(4)	3.5(2)
C(74)	0.8049(8)	0.2952(6)	0.5473(3)	2.7(2)
C(75)	0.7946(7)	0.0652(6)	0.6084(3)	2.0(2)
C(76)	0.8127(8)	0.0501(6)	0.5583(3)	2.7(2)

Table 7a. Atomic coordinates and B_{iso}/B_{eq} for 8 (continued)

atom	x	y	z	B_{eq}
C(77)	0.8716(8)	-0.0394(7)	0.5425(3)	3.0(2)
C(78)	0.9148(8)	-0.1180(7)	0.5768(4)	3.5(2)
C(79)	0.9010(8)	-0.1068(6)	0.6267(3)	2.6(2)
C(80)	0.8444(7)	-0.0172(6)	0.6409(3)	2.5(2)
C(81)	0.855(1)	0.0059(10)	0.8570(5)	7.3(3)
C(82)	0.890(1)	-0.0076(9)	0.8071(5)	5.8(3)
C(83)	0.9399(10)	0.0522(8)	0.7719(4)	5.1(3)
C(84)	0.954(1)	0.1195(10)	0.7927(5)	6.2(3)
C(85)	0.925(1)	0.1418(9)	0.8404(5)	6.2(3)
C(86)	0.876(1)	0.0806(10)	0.8739(5)	6.6(3)
C(87)	-0.001(1)	0.3668(10)	0.6769(6)	7.4(4)
C(88)	-0.029(1)	0.4243(10)	0.6319(5)	6.2(3)
C(89)	-0.0130(10)	0.5082(8)	0.6171(4)	5.2(3)
C(90)	0.036(1)	0.528(1)	0.6524(5)	6.4(3)
C(91)	0.0703(10)	0.4716(8)	0.6994(4)	5.1(3)
C(92)	0.049(1)	0.3891(9)	0.7102(5)	6.1(3)
C(500)	0.2723	0.3308	0.1740	0.2000
C(600)	0.5526	0.3773	0.3643	0.2000
B(1)	0.2138(9)	0.2961(7)	0.8991(4)	2.4(2)
B(2)	0.7276(9)	0.1766(7)	0.6210(4)	2.3(2)
H(1)	0.2764	0.3532	0.2861	4.3496
H(2)	0.1493	0.3711	0.2817	4.3496
H(3)	0.2380	0.2678	0.2913	4.3496
H(4)	0.2425	0.5160	0.2187	4.2865
H(5)	0.2062	0.5534	0.1648	4.2865
H(6)	0.1222	0.5253	0.2086	4.2865
H(7)	0.2498	0.5074	0.0891	4.0856
H(8)	0.3255	0.4223	0.0603	4.0856
H(9)	0.1932	0.4476	0.0724	4.0856
H(10)	0.2277	0.2546	0.0863	4.0624
H(11)	0.3602	0.2289	0.0746	4.0624
H(12)	0.3108	0.1631	0.1150	4.0624
H(13)	0.1924	0.1690	0.2329	4.5923
H(14)	0.2927	0.1159	0.1945	4.5923
H(15)	0.3187	0.1295	0.2451	4.5923
H(16)	0.4957	0.5609	0.1185	4.1472
H(17)	0.3804	0.5448	0.1249	4.1472
H(18)	0.4367	0.5369	0.1721	4.1472
H(19)	0.6287	0.3394	0.0613	4.4315
H(20)	0.5187	0.4278	0.0494	4.4315
H(21)	0.6280	0.4409	0.0583	4.4315
H(22)	0.7113	0.3196	0.1629	4.5044
H(23)	0.6968	0.4242	0.1411	4.5044

Table 7a. Atomic coordinates and B_{iso}/B_{eq} for 8 (continued)

atom	x	y	z	B_{eq}
H(24)	0.6385	0.4004	0.1950	4.5044
H(25)	0.6668	0.0969	0.0728	3.5522
H(26)	0.5345	0.1457	0.0716	3.5522
H(27)	0.6112	0.2064	0.0583	3.5522
H(28)	0.7760	0.0804	0.1474	4.3663
H(29)	0.7551	0.1875	0.1310	4.3663
H(30)	0.7303	0.1490	0.1875	4.3663
H(31)	0.5531	0.0536	0.2110	3.8957
H(32)	0.5001	0.0515	0.1648	3.8957
H(33)	0.6325	0.0036	0.1661	3.8957
H(34)	0.7717	0.2366	0.4187	3.7999
H(35)	0.8161	0.3043	0.3775	3.7999
H(36)	0.7471	0.3390	0.4279	3.7999
H(37)	0.7880	0.3848	0.3023	3.5815
H(38)	0.7107	0.4056	0.2604	3.5815
H(39)	0.6935	0.4849	0.2913	3.5815
H(40)	0.3992	0.5513	0.2943	3.5996
H(41)	0.5016	0.4985	0.2565	3.5996
H(42)	0.3982	0.4653	0.2738	3.5996
H(43)	0.2979	0.5059	0.3908	4.4748
H(44)	0.2810	0.4295	0.3676	4.4748
H(45)	0.3021	0.4100	0.4236	4.4748
H(46)	0.5354	0.3423	0.4820	4.2122
H(47)	0.4361	0.3157	0.4726	4.2122
H(48)	0.5614	0.2412	0.4704	4.2122
H(49)	0.7049	0.0017	0.3272	5.0102
H(50)	0.7022	0.0600	0.2734	5.0102
H(51)	0.8195	-0.0033	0.2931	5.0102
H(52)	0.7804	0.0402	0.4057	6.0223
H(53)	0.8958	0.0337	0.3718	6.0223
H(54)	0.8274	0.1209	0.4000	6.0223
H(55)	0.9210	0.1207	0.2822	5.0834
H(56)	0.8245	0.1897	0.2500	5.0834
H(57)	0.8568	0.2254	0.2920	5.0834
H(58)	0.4129	0.0503	0.3589	4.7279
H(59)	0.3938	0.1364	0.3160	4.7279
H(60)	0.5165	0.0595	0.3203	4.7279
H(61)	0.3303	0.2394	0.4399	7.5443
H(62)	0.2830	0.2658	0.3883	7.5443
H(63)	0.2933	0.1687	0.4212	7.5443
H(64)	0.4923	0.0287	0.4402	5.7806
H(65)	0.6127	0.0343	0.4200	5.7806
H(66)	0.5304	0.0984	0.4592	5.7806

Table 7b. Anisotropic Displacement Parameters for 8

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.0313(3)	0.0260(2)	0.0249(2)	-0.0127(2)	-0.0061(2)	-0.0031(2)
Os(2)	0.0330(3)	0.0246(2)	0.0271(2)	-0.0098(2)	-0.0103(2)	-0.0038(2)
P(1)	0.045(2)	0.037(2)	0.032(1)	-0.023(1)	0.002(1)	-0.006(1)
P(2)	0.041(2)	0.031(2)	0.032(1)	-0.014(1)	-0.002(1)	-0.009(1)
P(3)	0.045(2)	0.031(2)	0.062(2)	-0.001(1)	-0.025(2)	-0.017(1)
P(4)	0.070(2)	0.045(2)	0.034(2)	-0.037(2)	-0.015(1)	0.005(1)
F(1)	0.049(4)	0.041(3)	0.032(3)	-0.006(3)	-0.014(3)	-0.009(2)
F(2)	0.079(5)	0.034(3)	0.048(4)	-0.005(3)	-0.021(3)	0.003(3)
F(3)	0.073(4)	0.028(3)	0.067(4)	-0.006(3)	-0.020(3)	-0.014(3)
F(4)	0.058(4)	0.036(3)	0.040(3)	-0.011(3)	-0.005(3)	-0.020(3)
F(5)	0.049(3)	0.034(3)	0.027(3)	-0.016(3)	-0.009(3)	-0.004(2)
F(6)	0.045(3)	0.041(3)	0.034(3)	-0.023(3)	0.000(3)	-0.006(3)
F(7)	0.054(4)	0.049(4)	0.035(3)	-0.014(3)	0.003(3)	-0.002(3)
F(8)	0.069(4)	0.066(4)	0.028(3)	-0.017(3)	0.000(3)	-0.020(3)
F(9)	0.060(4)	0.054(4)	0.050(4)	-0.016(3)	-0.010(3)	-0.025(3)
F(10)	0.043(3)	0.043(3)	0.042(3)	-0.019(3)	-0.001(3)	-0.017(3)
F(11)	0.051(4)	0.031(3)	0.042(3)	-0.014(3)	-0.010(3)	-0.010(2)
F(12)	0.063(4)	0.034(3)	0.055(4)	0.007(3)	-0.024(3)	-0.009(3)
F(13)	0.036(3)	0.068(4)	0.046(4)	0.001(3)	-0.014(3)	-0.010(3)
F(14)	0.041(3)	0.060(4)	0.053(4)	-0.025(3)	-0.017(3)	0.003(3)
F(15)	0.038(3)	0.035(3)	0.047(3)	-0.016(3)	-0.010(3)	0.001(3)
F(16)	0.032(3)	0.045(3)	0.046(3)	-0.011(3)	-0.013(3)	-0.005(3)
F(17)	0.036(4)	0.052(4)	0.074(4)	-0.014(3)	-0.009(3)	-0.010(3)
F(18)	0.055(4)	0.074(5)	0.079(5)	-0.041(4)	0.018(3)	-0.011(4)
F(19)	0.079(5)	0.061(4)	0.042(3)	-0.036(4)	-0.004(3)	0.008(3)
F(20)	0.056(4)	0.050(4)	0.030(3)	-0.026(3)	-0.008(3)	0.003(3)
F(21)	0.042(3)	0.029(3)	0.053(3)	-0.018(3)	-0.009(3)	-0.009(3)
F(22)	0.039(4)	0.058(4)	0.068(4)	-0.025(3)	-0.012(3)	-0.015(3)
F(23)	0.042(4)	0.064(4)	0.071(4)	-0.005(3)	-0.020(3)	-0.020(3)
F(24)	0.062(4)	0.033(3)	0.068(4)	0.002(3)	-0.017(3)	-0.021(3)
F(25)	0.051(4)	0.028(3)	0.044(3)	-0.014(3)	-0.007(3)	-0.015(3)
F(26)	0.041(3)	0.031(3)	0.034(3)	-0.020(3)	-0.004(2)	-0.007(2)
F(27)	0.054(4)	0.036(3)	0.034(3)	-0.012(3)	-0.014(3)	-0.014(2)
F(28)	0.064(4)	0.050(4)	0.023(3)	-0.017(3)	-0.001(3)	-0.007(3)
F(29)	0.053(4)	0.043(4)	0.044(3)	-0.025(3)	0.003(3)	0.005(3)
F(30)	0.045(3)	0.029(3)	0.041(3)	-0.019(3)	-0.006(3)	-0.005(2)
F(31)	0.037(3)	0.039(3)	0.052(3)	-0.013(3)	-0.009(3)	-0.008(3)
F(32)	0.043(4)	0.076(5)	0.080(5)	-0.028(3)	0.005(3)	-0.026(4)
F(33)	0.070(5)	0.112(6)	0.064(4)	-0.068(4)	0.019(4)	-0.018(4)
F(34)	0.094(5)	0.076(5)	0.036(3)	-0.063(4)	-0.002(3)	0.007(3)
F(35)	0.053(4)	0.048(4)	0.033(3)	-0.027(3)	-0.011(3)	0.005(3)
F(36)	0.056(4)	0.035(3)	0.029(3)	-0.005(3)	-0.006(3)	-0.008(2)
F(37)	0.088(5)	0.048(4)	0.038(3)	-0.006(3)	-0.010(3)	-0.023(3)

Table 7b. Anisotropic Displacement Parameters for 8 (continued)

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
F(38)	0.068(4)	0.035(4)	0.062(4)	0.002(3)	-0.014(3)	-0.029(3)
F(39)	0.055(4)	0.034(3)	0.045(3)	-0.005(3)	-0.014(3)	-0.008(3)
F(40)	0.048(3)	0.027(3)	0.030(3)	-0.007(3)	-0.008(3)	-0.003(2)
N(1)	0.031(5)	0.028(5)	0.029(4)	-0.017(4)	-0.008(4)	0.000(3)
N(2)	0.031(5)	0.019(4)	0.040(5)	-0.006(3)	-0.010(4)	-0.004(4)
C(1)	0.022(5)	0.045(6)	0.042(6)	-0.015(5)	-0.008(4)	-0.008(5)
C(2)	0.021(5)	0.032(6)	0.039(6)	-0.007(4)	-0.008(5)	-0.003(5)
C(3)	0.032(6)	0.035(6)	0.037(6)	-0.012(5)	-0.011(5)	-0.007(5)
C(4)	0.034(6)	0.044(7)	0.041(6)	-0.018(5)	-0.014(5)	-0.006(5)
C(5)	0.032(6)	0.039(6)	0.049(6)	-0.019(5)	-0.012(5)	-0.004(5)
C(6)	0.034(6)	0.051(7)	0.048(7)	-0.012(5)	0.003(5)	-0.003(5)
C(7)	0.049(7)	0.041(7)	0.044(6)	-0.012(5)	-0.013(5)	-0.003(5)
C(8)	0.068(8)	0.048(7)	0.045(7)	-0.007(6)	-0.030(6)	-0.010(5)
C(9)	0.063(8)	0.046(7)	0.070(8)	-0.014(6)	-0.034(7)	-0.021(6)
C(10)	0.049(7)	0.050(7)	0.062(7)	-0.028(6)	-0.007(6)	-0.006(6)
C(11)	0.064(8)	0.039(6)	0.048(6)	-0.032(6)	0.008(6)	-0.011(5)
C(12)	0.089(9)	0.055(7)	0.041(6)	-0.049(7)	0.012(6)	-0.003(5)
C(13)	0.058(7)	0.054(7)	0.058(7)	-0.035(6)	0.004(6)	-0.021(6)
C(14)	0.059(7)	0.050(7)	0.041(6)	-0.024(6)	0.008(5)	-0.018(5)
C(15)	0.050(7)	0.059(8)	0.067(8)	-0.014(6)	0.005(6)	-0.035(6)
C(16)	0.059(7)	0.034(6)	0.038(6)	-0.011(5)	-0.005(5)	-0.005(5)
C(17)	0.033(6)	0.023(5)	0.038(6)	-0.011(4)	-0.012(5)	-0.003(4)
C(18)	0.034(6)	0.027(5)	0.041(6)	-0.013(5)	-0.009(5)	-0.012(4)
C(19)	0.038(6)	0.026(5)	0.035(5)	-0.013(5)	-0.006(5)	-0.016(4)
C(20)	0.020(5)	0.035(6)	0.043(6)	-0.006(4)	-0.005(5)	-0.018(5)
C(21)	0.046(6)	0.035(6)	0.026(5)	-0.022(5)	-0.001(5)	-0.010(4)
C(22)	0.038(6)	0.033(6)	0.045(6)	-0.009(5)	-0.012(5)	-0.013(5)
C(23)	0.050(7)	0.051(7)	0.050(7)	-0.026(6)	-0.006(6)	-0.016(6)
C(24)	0.052(7)	0.030(6)	0.054(7)	-0.002(5)	-0.028(6)	-0.004(5)
C(25)	0.036(7)	0.069(8)	0.073(8)	-0.019(6)	-0.001(6)	-0.031(7)
C(26)	0.060(8)	0.067(8)	0.036(6)	-0.031(6)	-0.008(5)	-0.004(5)
C(27)	0.064(8)	0.042(7)	0.099(10)	-0.003(6)	-0.031(7)	-0.040(7)
C(28)	0.064(8)	0.035(7)	0.095(9)	0.003(6)	-0.049(7)	-0.010(6)
C(29)	0.034(7)	0.068(8)	0.079(9)	-0.003(6)	-0.003(6)	-0.040(7)
C(30)	0.092(10)	0.053(8)	0.059(7)	-0.044(7)	-0.025(7)	-0.004(6)
C(31)	0.078(9)	0.10(1)	0.061(8)	-0.066(8)	-0.006(7)	0.000(7)
C(32)	0.12(1)	0.057(8)	0.056(7)	-0.053(8)	-0.046(8)	0.015(6)

Table 7c. Selected Bond Lengths for 8 (Å)

atom	atom	distance	atom	atom	distance
Os(1)	P(1)	2.325(3)	F(13)	C(48)	1.362(10)
Os(1)	P(2)	2.336(2)	F(14)	C(49)	1.346(9)
Os(1)	N(1)	1.979(7)	F(15)	C(50)	1.362(9)
Os(1)	C(1)	2.249(9)	F(16)	C(52)	1.359(9)
Os(1)	C(2)	2.261(9)	F(17)	C(53)	1.339(10)
Os(1)	C(3)	2.237(9)	F(18)	C(54)	1.35(1)
Os(1)	C(4)	2.259(9)	F(19)	C(55)	1.363(9)
Os(1)	C(5)	2.254(9)	F(20)	C(56)	1.358(9)
Os(1)	C(500)	1.8978(4)	F(21)	C(58)	1.366(9)
Os(2)	P(3)	2.324(3)	F(22)	C(59)	1.360(9)
Os(2)	P(4)	2.327(3)	F(23)	C(60)	1.356(10)
Os(2)	N(2)	1.959(8)	F(24)	C(61)	1.358(10)
Os(2)	C(17)	2.252(8)	F(25)	C(62)	1.357(9)
Os(2)	C(18)	2.274(8)	F(26)	C(64)	1.353(9)
Os(2)	C(19)	2.250(8)	F(27)	C(65)	1.349(9)
Os(2)	C(20)	2.268(9)	F(28)	C(66)	1.355(9)
Os(2)	C(21)	2.241(8)	F(29)	C(67)	1.345(9)
Os(2)	C(600)	1.8992(4)	F(30)	C(68)	1.363(9)
P(1)	C(11)	1.815(10)	F(31)	C(70)	1.377(9)
P(1)	C(12)	1.829(10)	F(32)	C(71)	1.36(1)
P(1)	C(13)	1.82(1)	F(33)	C(72)	1.37(1)
P(2)	C(14)	1.816(9)	F(34)	C(73)	1.36(1)
P(2)	C(15)	1.82(1)	F(35)	C(74)	1.354(9)
P(2)	C(16)	1.817(10)	F(36)	C(76)	1.355(9)
P(3)	C(27)	1.848(10)	F(37)	C(77)	1.362(10)
P(3)	C(28)	1.84(1)	F(38)	C(78)	1.35(1)
P(3)	C(29)	1.83(1)	F(39)	C(79)	1.350(9)
P(4)	C(30)	1.851(10)	F(40)	C(80)	1.356(9)
P(4)	C(31)	1.81(1)	F(41)	C(90)	1.30(2)
P(4)	C(32)	1.81(1)	F(42)	C(84)	1.40(2)
F(1)	C(34)	1.356(9)	N(1)	N(2)	1.137(8)
F(2)	C(35)	1.358(10)	C(1)	C(2)	1.42(1)
F(3)	C(36)	1.345(10)	C(1)	C(5)	1.41(1)
F(4)	C(37)	1.353(9)	C(1)	C(6)	1.49(1)
F(5)	C(38)	1.362(9)	C(2)	C(3)	1.45(1)
F(6)	C(40)	1.363(9)	C(2)	C(7)	1.50(1)
F(7)	C(41)	1.358(9)	C(3)	C(4)	1.41(1)
F(8)	C(42)	1.367(10)	C(3)	C(8)	1.50(1)
F(9)	C(43)	1.357(10)	C(4)	C(5)	1.44(1)
F(10)	C(44)	1.360(9)	C(4)	C(9)	1.51(1)
F(11)	C(46)	1.372(10)	C(5)	C(10)	1.52(1)
F(12)	C(47)	1.342(10)	C(17)	C(18)	1.44(1)

Table 7c. Selected Bond Lengths for 8 (Å) (continued)

atom	atom	distance	atom	atom	distance
C(17)	C(21)	1.42(1)	C(57)	B(2)	1.65(1)
C(17)	C(22)	1.50(1)	C(58)	C(59)	1.38(1)
C(18)	C(19)	1.44(1)	C(59)	C(60)	1.37(1)
C(18)	C(23)	1.49(1)	C(60)	C(61)	1.37(1)
C(19)	C(20)	1.43(1)	C(61)	C(62)	1.37(1)
C(19)	C(24)	1.52(1)	C(63)	C(64)	1.40(1)
C(20)	C(21)	1.45(1)	C(63)	C(68)	1.39(1)
C(20)	C(25)	1.50(1)	C(63)	B(2)	1.65(1)
C(21)	C(26)	1.51(1)	C(64)	C(65)	1.39(1)
C(33)	C(34)	1.40(1)	C(65)	C(66)	1.37(1)
C(33)	C(38)	1.38(1)	C(66)	C(67)	1.38(1)
C(33)	B(1)	1.66(1)	C(67)	C(68)	1.41(1)
C(34)	C(35)	1.37(1)	C(69)	C(70)	1.38(1)
C(35)	C(36)	1.38(1)	C(69)	C(74)	1.37(1)
C(36)	C(37)	1.38(1)	C(69)	B(2)	1.68(1)
C(37)	C(38)	1.40(1)	C(70)	C(71)	1.37(1)
C(39)	C(40)	1.40(1)	C(71)	C(72)	1.35(1)
C(39)	C(44)	1.40(1)	C(72)	C(73)	1.35(1)
C(39)	B(1)	1.65(1)	C(73)	C(74)	1.38(1)
C(40)	C(41)	1.37(1)	C(75)	C(76)	1.40(1)
C(41)	C(42)	1.37(1)	C(75)	C(80)	1.39(1)
C(42)	C(43)	1.35(1)	C(75)	B(2)	1.67(1)
C(43)	C(44)	1.39(1)	C(76)	C(77)	1.40(1)
C(45)	C(46)	1.39(1)	C(77)	C(78)	1.36(1)
C(45)	C(50)	1.40(1)	C(78)	C(79)	1.38(1)
C(45)	B(1)	1.65(1)	C(79)	C(80)	1.38(1)
C(46)	C(47)	1.40(1)	C(81)	C(82)	1.38(2)
C(47)	C(48)	1.36(1)	C(81)	C(86)	1.45(2)
C(48)	C(49)	1.37(1)	C(82)	C(83)	1.43(1)
C(49)	C(50)	1.40(1)	C(83)	C(84)	1.37(2)
C(51)	C(52)	1.41(1)	C(84)	C(85)	1.36(2)
C(51)	C(56)	1.40(1)	C(85)	C(86)	1.42(2)
C(51)	B(1)	1.64(1)	C(87)	C(88)	1.37(2)
C(52)	C(53)	1.39(1)	C(87)	C(92)	1.37(2)
C(53)	C(54)	1.36(1)	C(88)	C(89)	1.36(2)
C(54)	C(55)	1.35(1)	C(89)	C(90)	1.39(1)
C(55)	C(56)	1.39(1)	C(90)	C(91)	1.43(2)
C(57)	C(58)	1.39(1)	C(91)	C(92)	1.37(1)
C(57)	C(62)	1.37(1)			

Table 7d. Selected Bond Angles for 8 (°)

atom	atom	atom	angle
P(1)	Os(1)	P(2)	92.54(9)
P(1)	Os(1)	N(1)	90.9(2)
P(1)	Os(1)	C(500)	124.82(7)
P(2)	Os(1)	N(1)	90.5(2)
P(2)	Os(1)	C(500)	125.52(6)
N(1)	Os(1)	C(500)	122.5(2)
P(3)	Os(2)	P(4)	91.8(1)
P(3)	Os(2)	N(2)	89.8(2)
P(3)	Os(2)	C(600)	124.22(7)
P(4)	Os(2)	N(2)	91.0(2)
P(4)	Os(2)	C(600)	126.17(7)
N(2)	Os(2)	C(600)	123.5(2)
Os(1)	P(1)	C(11)	115.6(3)
Os(1)	P(1)	C(12)	118.8(3)
Os(1)	P(1)	C(13)	117.1(3)
C(11)	P(1)	C(12)	100.4(5)
C(11)	P(1)	C(13)	99.8(5)
C(12)	P(1)	C(13)	102.1(5)
Os(1)	P(2)	C(14)	119.5(3)
Os(1)	P(2)	C(15)	118.9(3)
Os(1)	P(2)	C(16)	112.9(3)
C(14)	P(2)	C(15)	100.5(5)
C(14)	P(2)	C(16)	100.4(4)
C(15)	P(2)	C(16)	101.6(5)
Os(2)	P(3)	C(27)	118.6(4)
Os(2)	P(3)	C(28)	117.8(4)
Os(2)	P(3)	C(29)	113.1(4)
C(27)	P(3)	C(28)	101.0(5)
C(27)	P(3)	C(29)	101.1(5)
C(28)	P(3)	C(29)	102.7(5)
Os(2)	P(4)	C(30)	116.9(4)
Os(2)	P(4)	C(31)	116.6(4)
Os(2)	P(4)	C(32)	118.6(4)
C(30)	P(4)	C(31)	99.8(5)
C(30)	P(4)	C(32)	102.1(5)
C(31)	P(4)	C(32)	99.6(6)
Os(1)	N(1)	N(2)	172.9(7)
Os(2)	N(2)	N(1)	170.6(7)
C(2)	C(1)	C(5)	109.1(8)
C(2)	C(1)	C(6)	124.7(9)
C(5)	C(1)	C(6)	125.9(9)
C(1)	C(2)	C(3)	107.0(8)

Table 7d. Selected Bond Angles for 8 (°) (continued)

atom	atom	atom	angle
C(1)	C(2)	C(7)	123.8(9)
C(3)	C(2)	C(7)	127.7(8)
C(2)	C(3)	C(4)	108.1(8)
C(2)	C(3)	C(8)	125.3(8)
C(4)	C(3)	C(8)	125.0(8)
C(3)	C(4)	C(5)	107.7(8)
C(3)	C(4)	C(9)	126.1(9)
C(5)	C(4)	C(9)	125.2(9)
C(1)	C(5)	C(4)	108.0(8)
C(1)	C(5)	C(10)	124.9(9)
C(4)	C(5)	C(10)	125.5(9)
C(18)	C(17)	C(21)	109.0(8)
C(18)	C(17)	C(22)	125.0(8)
C(21)	C(17)	C(22)	124.9(8)
C(17)	C(18)	C(19)	106.4(8)
C(17)	C(18)	C(23)	127.7(8)
C(19)	C(18)	C(23)	124.5(8)
C(18)	C(19)	C(20)	109.7(8)
C(18)	C(19)	C(24)	125.6(8)
C(20)	C(19)	C(24)	124.4(8)
C(19)	C(20)	C(21)	106.6(8)
C(19)	C(20)	C(25)	124.8(9)
C(21)	C(20)	C(25)	127.2(9)
C(17)	C(21)	C(20)	108.4(8)
C(17)	C(21)	C(26)	125.1(8)
C(20)	C(21)	C(26)	125.8(8)
C(34)	C(33)	C(38)	113.3(8)
C(34)	C(33)	B(1)	126.9(8)
C(38)	C(33)	B(1)	119.7(7)
F(1)	C(34)	C(33)	121.0(8)
F(1)	C(34)	C(35)	115.0(8)
C(33)	C(34)	C(35)	124.0(8)
F(2)	C(35)	C(34)	120.6(8)
F(2)	C(35)	C(36)	118.9(9)
C(34)	C(35)	C(36)	120.5(9)
F(3)	C(36)	C(35)	120.9(8)
F(3)	C(36)	C(37)	120.5(9)
C(35)	C(36)	C(37)	118.6(9)
F(4)	C(37)	C(36)	119.8(8)
F(4)	C(37)	C(38)	121.2(8)
C(36)	C(37)	C(38)	118.9(9)
F(5)	C(38)	C(33)	120.1(8)
F(5)	C(38)	C(37)	115.4(8)

Table 7d. Selected Bond Angles for 8 (°) (continued)

atom	atom	atom	angle
C(33)	C(38)	C(37)	124.5(8)
C(40)	C(39)	C(44)	112.1(8)
C(40)	C(39)	B(1)	120.9(7)
C(44)	C(39)	B(1)	126.9(7)
F(6)	C(40)	C(39)	118.9(7)
F(6)	C(40)	C(41)	115.9(8)
C(39)	C(40)	C(41)	125.3(8)
F(7)	C(41)	C(40)	121.2(8)
F(7)	C(41)	C(42)	119.8(8)
C(40)	C(41)	C(42)	119.0(9)
F(8)	C(42)	C(41)	120.8(8)
F(8)	C(42)	C(43)	119.3(8)
C(41)	C(42)	C(43)	119.9(9)
F(9)	C(43)	C(42)	120.9(9)
F(9)	C(43)	C(44)	119.4(8)
C(42)	C(43)	C(44)	119.7(9)
F(10)	C(44)	C(39)	120.2(7)
F(10)	C(44)	C(43)	115.9(8)
C(39)	C(44)	C(43)	123.9(8)
C(46)	C(45)	C(50)	110.5(8)
C(46)	C(45)	B(1)	119.4(8)
C(50)	C(45)	B(1)	129.8(8)
F(11)	C(46)	C(45)	118.7(8)
F(11)	C(46)	C(47)	114.0(8)
C(45)	C(46)	C(47)	127.2(9)
F(12)	C(47)	C(46)	121.4(8)
F(12)	C(47)	C(48)	121.4(9)
C(46)	C(47)	C(48)	117.2(9)
F(13)	C(48)	C(47)	119.9(9)
F(13)	C(48)	C(49)	119.0(8)
C(47)	C(48)	C(49)	121.0(9)
F(14)	C(49)	C(48)	122.6(8)
F(14)	C(49)	C(50)	119.0(8)
C(48)	C(49)	C(50)	118.4(9)
F(15)	C(50)	C(45)	119.8(8)
F(15)	C(50)	C(49)	114.7(8)
C(45)	C(50)	C(49)	125.5(9)
C(52)	C(51)	C(56)	111.9(8)
C(52)	C(51)	B(1)	119.0(8)
C(56)	C(51)	B(1)	128.9(8)
F(16)	C(52)	C(51)	118.2(8)
F(16)	C(52)	C(53)	116.7(8)
C(51)	C(52)	C(53)	125.1(8)

Table 7d. Selected Bond Angles for 8 (°) (continued)

atom	atom	atom	angle
F(17)	C(53)	C(52)	119.4(8)
F(17)	C(53)	C(54)	122.2(9)
C(52)	C(53)	C(54)	118.3(9)
F(18)	C(54)	C(53)	119.2(9)
F(18)	C(54)	C(55)	120.5(9)
C(53)	C(54)	C(55)	120.2(9)
F(19)	C(55)	C(54)	120.2(8)
F(19)	C(55)	C(56)	119.4(8)
C(54)	C(55)	C(56)	120.4(9)
F(20)	C(56)	C(51)	120.5(8)
F(20)	C(56)	C(55)	115.5(8)
C(51)	C(56)	C(55)	123.9(8)
C(58)	C(57)	C(62)	113.7(8)
C(58)	C(57)	B(2)	126.1(8)
C(62)	C(57)	B(2)	120.0(7)
F(21)	C(58)	C(57)	122.4(7)
F(21)	C(58)	C(59)	113.7(7)
C(57)	C(58)	C(59)	123.8(8)
F(22)	C(59)	C(58)	120.2(8)
F(22)	C(59)	C(60)	120.7(8)
C(58)	C(59)	C(60)	119.1(8)
F(23)	C(60)	C(59)	119.4(8)
F(23)	C(60)	C(61)	121.5(9)
C(59)	C(60)	C(61)	119.1(9)
F(24)	C(61)	C(60)	118.8(8)
F(24)	C(61)	C(62)	121.7(8)
C(60)	C(61)	C(62)	119.5(9)
F(25)	C(62)	C(57)	119.7(7)
F(25)	C(62)	C(61)	115.5(8)
C(57)	C(62)	C(61)	124.8(8)
C(64)	C(63)	C(68)	112.2(8)
C(64)	C(63)	B(2)	126.7(8)
C(68)	C(63)	B(2)	120.7(8)
F(26)	C(64)	C(63)	120.8(7)
F(26)	C(64)	C(65)	114.4(7)
C(63)	C(64)	C(65)	124.8(8)
F(27)	C(65)	C(64)	120.0(8)
F(27)	C(65)	C(66)	120.3(8)
C(64)	C(65)	C(66)	119.8(8)
F(28)	C(66)	C(65)	121.2(8)
F(28)	C(66)	C(67)	119.6(8)
C(65)	C(66)	C(67)	119.1(9)
F(29)	C(67)	C(66)	120.1(8)

Table 7d. Selected Bond Angles for 8 (°) (continued)

atom	atom	atom	angle
F(29)	C(67)	C(68)	120.9(8)
C(66)	C(67)	C(68)	119.0(8)
F(30)	C(68)	C(63)	119.3(8)
F(30)	C(68)	C(67)	115.6(8)
C(63)	C(68)	C(67)	125.0(8)
C(70)	C(69)	C(74)	113.5(8)
C(70)	C(69)	B(2)	119.1(8)
C(74)	C(69)	B(2)	127.0(8)
F(31)	C(70)	C(69)	118.9(8)
F(31)	C(70)	C(71)	116.2(8)
C(69)	C(70)	C(71)	125.0(9)
F(32)	C(71)	C(70)	119.8(8)
F(32)	C(71)	C(72)	121.5(9)
C(70)	C(71)	C(72)	118.7(9)
F(33)	C(72)	C(71)	119.9(9)
F(33)	C(72)	C(73)	120.6(9)
C(71)	C(72)	C(73)	119.5(10)
F(34)	C(73)	C(72)	120.1(9)
F(34)	C(73)	C(74)	119.3(9)
C(72)	C(73)	C(74)	120.6(10)
F(35)	C(74)	C(69)	121.5(8)
F(35)	C(74)	C(73)	115.8(8)
C(69)	C(74)	C(73)	122.7(9)
C(76)	C(75)	C(80)	112.9(8)
C(76)	C(75)	B(2)	118.1(7)
C(80)	C(75)	B(2)	128.8(8)
F(36)	C(76)	C(75)	120.3(8)
F(36)	C(76)	C(77)	116.0(8)
C(75)	C(76)	C(77)	123.7(8)
F(37)	C(77)	C(76)	119.4(8)
F(37)	C(77)	C(78)	120.4(9)
C(76)	C(77)	C(78)	120.2(9)
F(38)	C(78)	C(77)	120.8(9)
F(38)	C(78)	C(79)	120.7(9)
C(77)	C(78)	C(79)	118.4(9)
F(39)	C(79)	C(78)	119.4(8)
F(39)	C(79)	C(80)	120.6(8)
C(78)	C(79)	C(80)	120.0(9)
F(40)	C(80)	C(75)	120.7(8)
F(40)	C(80)	C(79)	114.7(7)
C(75)	C(80)	C(79)	124.7(8)
C(82)	C(81)	C(86)	118(1)\
C(81)	C(82)	C(83)	121(1)

Table 7d. Selected Bond Angles for 8 (°) (continued)

atom	atom	atom	angle
C(82)	C(83)	C(84)	113(1)
F(42)	C(84)	C(83)	114(1)
F(42)	C(84)	C(85)	113(1)
C(83)	C(84)	C(85)	131(1)
C(84)	C(85)	C(86)	112(1)
C(81)	C(86)	C(85)	122(1)
C(88)	C(87)	C(92)	121(1)
C(87)	C(88)	C(89)	123(1)
C(88)	C(89)	C(90)	111(1)
F(41)	C(90)	C(89)	120(1)
F(41)	C(90)	C(91)	111(1)
C(89)	C(90)	C(91)	128(1)
C(90)	C(91)	C(92)	114(1)
C(87)	C(92)	C(91)	119(1)
C(33)	B(1)	C(39)	112.7(7)
C(33)	B(1)	C(45)	113.8(7)
C(33)	B(1)	C(51)	102.3(7)
C(39)	B(1)	C(45)	101.2(7)
C(39)	B(1)	C(51)	114.7(7)
C(45)	B(1)	C(51)	112.6(7)
C(57)	B(2)	C(63)	101.9(7)
C(57)	B(2)	C(69)	114.6(7)
C(57)	B(2)	C(75)	113.8(7)
C(63)	B(2)	C(69)	112.4(7)
C(63)	B(2)	C(75)	113.5(7)
C(69)	B(2)	C(75)	101.2(7)

Table 8. Structural parameters for $[Cp^*(Me_3P)_2Os\text{-}S\text{-}S\text{-}Os(PMe_3)_2Cp^*][B(C_6F_5)_4]_2$ (9)

Table 8a. Atomic coordinates and B_{iso}/B_{eq} for 9

atom	x	y	z	B_{eq}
Os(1)	0.20410(5)	0.09872(5)	0.17480(4)	2.64(1)
S(1)	0.0203(3)	0.0370(3)	0.0730(2)	2.22(7)
P(1)	0.2303(3)	-0.0860(3)	0.1328(2)	3.01(7)
P(2)	0.3027(3)	0.1296(3)	0.0675(2)	3.48(7)
F(1)	0.4102(6)	0.4086(6)	0.6567(4)	3.8(2)
F(2)	0.5280(6)	0.2559(7)	0.6117(5)	4.8(2)
F(3)	0.4762(7)	0.0637(7)	0.6495(5)	4.9(2)
F(4)	0.3011(7)	0.0308(6)	0.7354(5)	3.6(2)
F(5)	0.1768(6)	0.1815(5)	0.7760(4)	3.2(2)
F(6)	0.4302(5)	0.5441(5)	0.8679(4)	2.4(2)
F(7)	0.5031(6)	0.6537(5)	1.0622(4)	3.0(2)
F(8)	0.3560(6)	0.6102(6)	1.1666(4)	3.2(2)
F(9)	0.1319(5)	0.4562(5)	1.0719(4)	3.5(2)
F(10)	0.0572(5)	0.3485(5)	0.8806(4)	2.7(2)
F(11)	0.0086(5)	0.4831(5)	0.7844(4)	2.2(1)
F(12)	-0.2220(5)	0.3892(5)	0.6935(4)	3.1(2)
F(13)	-0.3082(5)	0.1697(6)	0.5404(4)	2.7(2)
F(14)	-0.1527(5)	0.0524(5)	0.4804(4)	2.3(2)
F(15)	0.0760(5)	0.1436(5)	0.5728(4)	2.5(2)
F(16)	0.1813(6)	0.3434(5)	0.5422(4)	2.7(2)
F(17)	0.1903(8)	0.4931(6)	0.4629(5)	4.8(2)
F(18)	0.2244(8)	0.7255(6)	0.5737(5)	4.6(2)
F(19)	0.2547(6)	0.8014(5)	0.7668(4)	3.2(2)
F(20)	0.2495(5)	0.6583(5)	0.8496(4)	2.5(2)
C(1)	0.130(1)	0.159(1)	0.3038(8)	2.7(3)
C(2)	0.1510(10)	0.2492(10)	0.2714(7)	2.0(3)
C(3)	0.271(1)	0.2889(9)	0.2820(7)	2.1(3)
C(4)	0.333(1)	0.2274(10)	0.3231(8)	2.0(3)
C(5)	0.245(1)	0.1461(10)	0.3368(8)	2.6(3)
C(6)	0.019(1)	0.102(1)	0.3166(9)	3.7(4)
C(7)	0.058(1)	0.301(1)	0.2425(8)	3.6(3)
C(8)	0.333(1)	0.402(1)	0.2768(8)	3.9(3)
C(9)	0.468(1)	0.254(1)	0.3590(9)	4.5(4)
C(10)	0.275(1)	0.084(1)	0.3983(9)	4.1(4)
C(11)	0.195(1)	-0.1606(10)	0.2075(8)	2.7(3)
C(12)	0.379(1)	-0.095(1)	0.1337(8)	2.9(3)
C(13)	0.138(1)	-0.2022(10)	0.0148(8)	2.3(3)
C(14)	0.260(1)	0.2319(10)	0.0224(8)	2.1(3)
C(15)	0.292(1)	0.013(1)	-0.0478(8)	1.8(3)
C(16)	0.4615(9)	0.191(1)	0.1136(8)	2.7(3)

Table 8a. Atomic coordinates and B_{iso}/B_{eq} for 9 (continued)

atom	x	y	z	B_{eq}
C(17)	0.282(1)	0.3014(10)	0.7159(8)	2.5(2)
C(18)	0.378(1)	0.313(1)	0.6742(8)	2.4(2)
C(19)	0.441(1)	0.241(1)	0.6545(8)	2.6(2)
C(20)	0.416(1)	0.141(1)	0.6721(8)	2.7(3)
C(21)	0.327(1)	0.125(1)	0.7154(8)	2.8(2)
C(22)	0.265(1)	0.2025(10)	0.7340(8)	2.2(2)
C(23)	0.2383(9)	0.4472(9)	0.8630(7)	1.7(2)
C(24)	0.3510(9)	0.5215(9)	0.9148(7)	1.8(2)
C(25)	0.393(1)	0.5777(10)	1.0153(8)	2.1(2)
C(26)	0.3205(10)	0.5567(9)	1.0690(7)	2.0(2)
C(27)	0.205(1)	0.4795(10)	1.0203(8)	2.3(2)
C(28)	0.1691(10)	0.4275(9)	0.9211(7)	1.9(2)
C(29)	0.0559(9)	0.3172(9)	0.6875(7)	1.5(2)
C(30)	-0.0263(10)	0.3716(9)	0.7091(7)	1.8(2)
C(31)	-0.1515(9)	0.3270(9)	0.6640(7)	1.7(2)
C(32)	-0.191(1)	0.2172(10)	0.5869(8)	2.2(2)
C(33)	-0.1142(10)	0.1603(9)	0.5594(7)	2.0(2)
C(34)	0.0065(9)	0.2059(9)	0.6069(7)	1.5(2)
C(35)	0.2191(9)	0.4902(9)	0.6999(7)	1.8(2)
C(36)	0.202(1)	0.458(1)	0.6022(8)	2.3(2)
C(37)	0.205(1)	0.533(1)	0.5603(9)	3.2(3)
C(38)	0.223(1)	0.650(1)	0.6139(8)	3.1(3)
C(39)	0.2377(10)	0.687(1)	0.7119(8)	2.2(2)
C(40)	0.2364(9)	0.6087(9)	0.7510(7)	1.5(2)
C(100)	0.2259	0.2139	0.3033	0.2000
B(1)	0.201(1)	0.386(1)	0.7414(9)	2.0(3)
H(1)	-0.0036	0.1593	0.3631	4.3882
H(2)	-0.0419	0.0655	0.2565	4.3882
H(3)	0.0309	0.0448	0.3386	4.3882
H(4)	0.0277	0.3330	0.2954	4.3680
H(5)	0.0919	0.3604	0.2251	4.3680
H(6)	-0.0051	0.2409	0.1887	4.3680
H(7)	0.4850	0.1994	0.3822	5.3994
H(8)	0.5007	0.2492	0.3071	5.3994
H(9)	0.5018	0.3313	0.4101	5.3994
H(10)	0.2038	0.0331	0.3963	4.8697
H(11)	0.3249	0.0394	0.3742	4.8697
H(12)	0.3150	0.1399	0.4634	4.8697
H(13)	0.1124	-0.1804	0.1997	3.2675
H(14)	0.2181	-0.2299	0.1881	3.2675
H(15)	0.2374	-0.1103	0.2736	3.2675
H(16)	0.3762	-0.1752	0.1063	3.5154
H(17)	0.4091	-0.0582	0.0966	3.5154

Table 8a. Atomic coordinates and B_{iso}/B_{eq} for 9

atom	x	y	z	B_{eq}
H(18)	0.4295	-0.0570	0.1986	3.5154
H(19)	0.0575	-0.2211	0.0147	2.7494
H(20)	0.1454	-0.1763	-0.0343	2.7494
H(21)	0.1636	-0.2697	0.0023	2.7494
H(22)	0.2616	0.3005	0.0754	2.4955
H(23)	0.3133	0.2526	-0.0104	2.4955
H(24)	0.1814	0.1958	-0.0212	2.4955
H(25)	0.2112	-0.0299	-0.0824	2.1943
H(26)	0.3282	0.0455	-0.0851	2.1943
H(27)	0.3325	-0.0388	-0.0359	2.1943
H(28)	0.4952	0.1330	0.1200	3.2896
H(29)	0.4910	0.2166	0.0701	3.2896
H(30)	0.4826	0.2556	0.1753	3.2896
H(31)	0.4150	0.4105	0.2855	4.7377
H(32)	0.2980	0.3984	0.2152	4.7377
H(33)	0.3235	0.4670	0.3263	4.7377

Table 8b. Anisotropic Displacement Parameters for 9

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Os(1)	0.0200(3)	0.0212(3)	0.0165(2)	-0.0016(2)	-0.0014(2)	0.0073(2)
S(1)	0.021(2)	0.036(2)	0.018(2)	0.006(2)	0.000(1)	0.010(1)
P(1)	0.026(2)	0.031(2)	0.026(2)	0.004(2)	0.002(1)	0.017(2)
P(2)	0.023(2)	0.026(2)	0.029(2)	0.003(2)	0.007(1)	0.012(2)
F(1)	0.033(4)	0.051(5)	0.042(4)	-0.002(4)	0.013(3)	0.014(4)
F(2)	0.034(5)	0.089(6)	0.049(5)	0.012(5)	0.013(4)	0.003(5)
F(3)	0.061(6)	0.076(6)	0.038(4)	0.046(5)	-0.003(4)	0.003(4)
F(4)	0.071(6)	0.046(5)	0.044(5)	0.031(4)	0.000(4)	0.022(4)
F(5)	0.039(4)	0.037(4)	0.040(4)	0.004(4)	0.007(4)	0.016(4)
F(6)	0.021(4)	0.037(4)	0.030(4)	-0.002(3)	0.004(3)	0.013(3)
F(7)	0.030(4)	0.034(4)	0.024(4)	-0.009(4)	-0.005(3)	0.006(3)
F(8)	0.048(5)	0.059(5)	0.009(3)	0.003(4)	-0.007(3)	0.004(3)
F(9)	0.038(4)	0.046(5)	0.023(4)	-0.009(4)	0.006(3)	0.012(3)
F(10)	0.022(4)	0.037(4)	0.023(4)	-0.004(3)	0.001(3)	0.008(3)
F(11)	0.026(4)	0.027(4)	0.028(4)	0.006(3)	0.002(3)	0.004(3)
F(12)	0.024(4)	0.031(4)	0.040(4)	0.007(3)	0.006(3)	0.010(3)
F(13)	0.019(4)	0.049(5)	0.036(4)	0.006(4)	0.000(3)	0.016(4)
F(14)	0.033(4)	0.025(4)	0.027(4)	0.002(3)	-0.003(3)	0.000(3)
F(15)	0.025(4)	0.021(4)	0.034(4)	0.007(3)	-0.003(3)	0.001(3)
F(16)	0.061(5)	0.026(4)	0.023(4)	-0.001(4)	0.010(3)	0.001(3)
F(17)	0.135(8)	0.052(5)	0.017(4)	0.004(5)	0.015(4)	0.011(4)
F(18)	0.115(8)	0.046(5)	0.044(5)	0.003(5)	0.001(5)	0.035(4)
F(19)	0.055(5)	0.027(4)	0.038(4)	0.010(4)	0.008(4)	0.016(3)
F(20)	0.038(4)	0.026(4)	0.019(3)	0.005(3)	0.003(3)	0.004(3)
C(1)	0.029(8)	0.040(9)	0.023(7)	0.004(7)	0.008(6)	0.005(6)
C(2)	0.018(7)	0.028(8)	0.023(6)	0.006(6)	-0.001(5)	0.005(6)
C(3)	0.033(8)	0.014(7)	0.019(6)	0.002(6)	0.010(5)	0.000(5)
C(4)	0.037(8)	0.015(7)	0.019(7)	0.007(6)	-0.004(6)	-0.009(6)
C(5)	0.07(1)	0.019(7)	0.019(7)	-0.005(7)	0.004(7)	0.005(6)
C(6)	0.06(1)	0.06(1)	0.037(8)	-0.009(8)	0.025(8)	0.015(8)
C(7)	0.07(1)	0.030(8)	0.023(7)	0.022(8)	0.000(7)	-0.002(6)
C(8)	0.044(9)	0.032(8)	0.037(8)	-0.003(7)	0.009(7)	0.005(6)
C(9)	0.038(9)	0.07(1)	0.040(8)	0.017(9)	-0.010(7)	-0.007(8)
C(10)	0.09(1)	0.047(10)	0.034(8)	0.022(9)	-0.014(8)	0.015(7)
C(11)	0.041(8)	0.034(8)	0.032(7)	-0.008(7)	-0.008(6)	0.018(6)
C(12)	0.052(9)	0.042(9)	0.033(7)	0.018(8)	0.003(7)	0.017(7)
C(13)	0.044(8)	0.023(7)	0.029(7)	-0.003(6)	0.012(6)	0.010(6)
C(14)	0.037(8)	0.032(8)	0.036(7)	0.008(6)	0.002(6)	0.017(6)
C(15)	0.041(8)	0.050(9)	0.025(7)	0.010(7)	0.013(6)	0.018(7)
C(16)	0.019(7)	0.046(8)	0.041(7)	0.013(6)	0.015(6)	0.025(7)

Table 8c. Selected Bond Lengths for 9 (Å)

atom	atom	distance	atom	atom	distance
Os(1)	S(1)	2.244(3)	C(1)	C(5)	1.46(2)
Os(1)	P(1)	2.336(3)	C(1)	C(6)	1.47(2)
Os(1)	P(2)	2.322(3)	C(2)	C(3)	1.39(1)
Os(1)	C(1)	2.29(1)	C(2)	C(7)	1.50(2)
Os(1)	C(2)	2.27(1)	C(3)	C(4)	1.43(1)
Os(1)	C(3)	2.25(1)	C(3)	C(8)	1.53(2)
Os(1)	C(4)	2.28(1)	C(4)	C(5)	1.43(2)
Os(1)	C(5)	2.28(1)	C(4)	C(9)	1.53(2)
Os(1)	C(100)	1.9212(5)	C(5)	C(10)	1.50(2)
S(1)	S(1)*	2.017(5)	C(17)	C(18)	1.43(2)
P(1)	C(11)	1.82(1)	C(17)	C(22)	1.39(1)
P(1)	C(12)	1.82(1)	C(17)	B(1)	1.60(2)
P(1)	C(13)	1.82(1)	C(18)	C(19)	1.31(1)
P(2)	C(14)	1.83(1)	C(19)	C(20)	1.40(2)
P(2)	C(15)	1.82(1)	C(20)	C(21)	1.38(2)
P(2)	C(16)	1.79(1)	C(21)	C(22)	1.35(1)
F(1)	C(18)	1.36(1)	C(23)	C(24)	1.37(1)
F(2)	C(19)	1.36(1)	C(23)	C(28)	1.39(1)
F(3)	C(20)	1.34(1)	C(23)	B(1)	1.68(2)
F(4)	C(21)	1.36(1)	C(24)	C(25)	1.39(1)
F(5)	C(22)	1.37(1)	C(25)	C(26)	1.37(1)
F(6)	C(24)	1.35(1)	C(26)	C(27)	1.40(1)
F(7)	C(25)	1.34(1)	C(27)	C(28)	1.37(1)
F(8)	C(26)	1.35(1)	C(29)	C(30)	1.35(1)
F(9)	C(27)	1.35(1)	C(29)	C(34)	1.42(1)
F(10)	C(28)	1.37(1)	C(29)	B(1)	1.67(2)
F(11)	C(30)	1.39(1)	C(30)	C(31)	1.43(1)
F(12)	C(31)	1.32(1)	C(31)	C(32)	1.38(1)
F(13)	C(32)	1.35(1)	C(32)	C(33)	1.33(1)
F(14)	C(33)	1.38(1)	C(33)	C(34)	1.38(1)
F(15)	C(34)	1.33(1)	C(35)	C(36)	1.38(1)
F(16)	C(36)	1.36(1)	C(35)	C(40)	1.38(1)
F(17)	C(37)	1.37(1)	C(35)	B(1)	1.69(2)
F(18)	C(38)	1.35(1)	C(36)	C(37)	1.35(2)
F(19)	C(39)	1.34(1)	C(37)	C(38)	1.37(2)
F(20)	C(40)	1.38(1)	C(38)	C(39)	1.38(1)
C(1)	C(2)	1.43(2)	C(39)	C(40)	1.37(1)

Table 8d. Selected Bond Angles for 9 (°)

atom	atom	atom	angle
S(1)	Os(1)	P(1)	96.6(1)
S(1)	Os(1)	P(2)	95.7(1)
S(1)	Os(1)	C(100)	114.79(8)
P(1)	Os(1)	P(2)	90.7(1)
P(1)	Os(1)	C(100)	126.74(8)
P(2)	Os(1)	C(100)	124.89(8)
Os(1)	S(1)	S(1)*	124.7(2)
Os(1)	P(1)	C(11)	117.3(4)
Os(1)	P(1)	C(12)	117.4(4)
Os(1)	P(1)	C(13)	117.2(4)
C(11)	P(1)	C(12)	100.4(6)
C(11)	P(1)	C(13)	98.5(5)
C(12)	P(1)	C(13)	103.0(6)
Os(1)	P(2)	C(14)	113.8(4)
Os(1)	P(2)	C(15)	123.0(4)
Os(1)	P(2)	C(16)	116.4(4)
C(14)	P(2)	C(15)	98.9(5)
C(14)	P(2)	C(16)	102.7(5)
C(15)	P(2)	C(16)	98.7(5)
C(2)	C(1)	C(5)	106(1)
C(2)	C(1)	C(6)	128(1)
C(5)	C(1)	C(6)	125(1)
C(1)	C(2)	C(3)	109(1)
C(1)	C(2)	C(7)	123(1)
C(3)	C(2)	C(7)	126(1)
C(2)	C(3)	C(4)	109(1)
C(2)	C(3)	C(8)	124(1)
C(4)	C(3)	C(8)	124(1)
C(3)	C(4)	C(5)	106(1)
C(3)	C(4)	C(9)	126(1)
C(5)	C(4)	C(9)	125(1)
C(1)	C(5)	C(4)	108(1)
C(1)	C(5)	C(10)	126(1)
C(4)	C(5)	C(10)	123(1)
C(18)	C(17)	C(22)	110(1)
C(18)	C(17)	B(1)	128(1)
C(22)	C(17)	B(1)	121(1)
F(1)	C(18)	C(17)	117(1)
F(1)	C(18)	C(19)	116(1)
C(17)	C(18)	C(19)	125(1)
F(2)	C(19)	C(18)	121(1)
F(2)	C(19)	C(20)	118(1)
C(18)	C(19)	C(20)	120(1)

Table 8d. Selected Bond Angles for 9 (°) (continued)

atom	atom	atom	angle
F(3)	C(20)	C(19)	121(1)
F(3)	C(20)	C(21)	120(1)
C(19)	C(20)	C(21)	118(1)
F(4)	C(21)	C(20)	119(1)
F(4)	C(21)	C(22)	121(1)
C(20)	C(21)	C(22)	118(1)
F(5)	C(22)	C(17)	117(1)
F(5)	C(22)	C(21)	116(1)
C(17)	C(22)	C(21)	126(1)
C(24)	C(23)	C(28)	113.4(9)
C(24)	C(23)	B(1)	118.8(10)
C(28)	C(23)	B(1)	127.7(10)
F(6)	C(24)	C(23)	120.0(9)
F(6)	C(24)	C(25)	115.3(9)
C(23)	C(24)	C(25)	124(1)
F(7)	C(25)	C(24)	122.0(10)
F(7)	C(25)	C(26)	118.5(9)
C(24)	C(25)	C(26)	119(1)
F(8)	C(26)	C(25)	122.0(10)
F(8)	C(26)	C(27)	119.3(10)
C(25)	C(26)	C(27)	118(1)
F(9)	C(27)	C(26)	119.8(10)
F(9)	C(27)	C(28)	121(1)
C(26)	C(27)	C(28)	118(1)
F(10)	C(28)	C(23)	120.8(9)
F(10)	C(28)	C(27)	114.1(10)
C(23)	C(28)	C(27)	125(1)
C(30)	C(29)	C(34)	112.7(9)
C(30)	C(29)	B(1)	121.6(10)
C(34)	C(29)	B(1)	125.0(10)
F(11)	C(30)	C(29)	119.8(9)
F(11)	C(30)	C(31)	112.6(9)
C(29)	C(30)	C(31)	127(1)
F(12)	C(31)	C(30)	121.3(9)
F(12)	C(31)	C(32)	123.8(10)
C(30)	C(31)	C(32)	114(1)
F(13)	C(32)	C(31)	118(1)
F(13)	C(32)	C(33)	121.1(10)
C(31)	C(32)	C(33)	120(1)
F(14)	C(33)	C(32)	120.8(10)
F(14)	C(33)	C(34)	116.9(10)
C(32)	C(33)	C(34)	122(1)
F(15)	C(34)	C(29)	120.5(9)

Table 8d. Selected Bond Angles for 9 (°) (continued)

atom	atom	atom	angle
F(15)	C(34)	C(33)	117.9(9)
C(29)	C(34)	C(33)	121(1)
C(36)	C(35)	C(40)	112.1(10)
C(36)	C(35)	B(1)	119.8(10)
C(40)	C(35)	B(1)	127.6(9)
F(16)	C(36)	C(35)	118.8(10)
F(16)	C(36)	C(37)	116(1)
C(35)	C(36)	C(37)	124(1)
F(17)	C(37)	C(36)	120(1)
F(17)	C(37)	C(38)	118(1)
C(36)	C(37)	C(38)	121(1)
F(18)	C(38)	C(37)	122(1)
F(18)	C(38)	C(39)	120(1)
C(37)	C(38)	C(39)	117(1)
F(19)	C(39)	C(38)	119(1)
F(19)	C(39)	C(40)	121.7(9)
C(38)	C(39)	C(40)	119(1)
F(20)	C(40)	C(35)	121.6(9)
F(20)	C(40)	C(39)	112.9(9)
C(35)	C(40)	C(39)	125.5(10)
C(17)	B(1)	C(23)	104.2(9)
C(17)	B(1)	C(29)	113.5(10)
C(17)	B(1)	C(35)	115.5(10)
C(23)	B(1)	C(29)	113.8(9)
C(23)	B(1)	C(35)	110.8(9)