List of Electronic Supplementary Information (om-2010-00832z; revised)

Dirhodium Complexes Bridged by Bis(diphenylphosphino)phthalazine ($PNNPP^{Ph}$): Central Ring Size and Charge Effects as Compared with the Pyrazolate Derivative ($PNNP^{Py}$).

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Details of X-ray crystallography. Diffraction measurements were made on a Rigaku RAXIS IV imaging plate area detector with Mo Kα radiation (λ= 0.71069 Å) at –60°C. Indexing was performed from 3 oscillation images, which were exposed for 3 min. The crystal-to-detector distance was 110 mm ($2\theta_{max}$= 55°). In the reduction of data, Lorentz and polarization corrections and empirical absorption corrections were made.[1] The crystallographic data are summarized in Table S1. Neutral scattering factors were obtained from the standard source.[2]

The structures were solved by using the teXsan structure solving program system obtained from the Rigaku Corp., Tokyo, Japan.[3] The structure was solved by a combination of the direct methods (SHELXS-86)[4] and Fourier synthesis (DIRDIF94).[5] Least-squares refinements were carried out using SHELXL-97 [4] (refined on F^2) linked to teXsan.

Unless otherwise stated, all non-hydrogen atoms were refined anisotropically, methyl hydrogen atoms were refined using riding models, and other hydrogen atoms were fixed at the calculated positions.

4a: One of the two BF_4 anions was disordered and refined taking into account two components (F6-8 : F6A-8A = 0.652 : 0.348).

4b: One of the two BF_4 anions was disordered and refined taking into account two components (F2-4 : F2A-4A = 0.43 : 0.57). The disordered BF_4 anion and the B2 atom in the other anion were refined isotropically. The solvent molecule was not included because of the small number of the observed data.

6: One of two BF_4 anions was disordered (0.57 : 0.43). The disordered BF_4 anion and the ether solvent molecule were refined isotropically. Hydrogen atoms attached to the ether molecule were not included in the refinement.

9: A unit cell contained two independent molecules. The ether solvent molecule was disordered (C313 : C314= 0.13 : 0.87). Hydogenatoms attached to the disordered parts were not included in the refinement.

11: One of three BF_4 anions and one of two CH_2Cl_2 solvent molecules were disordered and were refined taking into account two components (F10-12 : F10a-12a= 0.540 : 0.460; Cl3-4 : Cl3a-4a= 0.568 : 0.432). Hydrogen atoms attached to C112 were not included in the refinement.

12: The disordered BF_4 anion was refined isotropically taking into account two components (0.55 : 0.45). The acetone solvent molecule was refined isotropically.

13: The molecule was imposed on a crystallographic inversion center.

References

S1) Higashi, T. *Program for absorption correction*, Rigaku Corp., Tokyo, Japan, 1995.

S2) *International Tables for X-ray Crystallography*; Kynoch Press, Birmingham, 1975, Vol. 4.

S3) *teXsan; Crystal Structure Analysis Package, ver. 1. 11*, Rigaku Corp., Tokyo, Japan, 2000.

S4) (a) Sheldrick, G. M. *SHELXS-86: Program for crystal structure determination*, University of Göttingen, Göttingen, Germany, 1986. (b) Sheldrick, G. M. *SHELXL-97: Program for crystal structure refinement*, University of Göttingen: Göttingen, Germany, 1997.

S5) Beurskens, P. T.; Admiraal, G.; Beurskens, G.; Bosman, W. P.; Garcia-Granda, S.; Gould, R. O.; Smits, J. M. M.; Smykalla, C. *The DIRDIF program system, Technical Report of the Crystallography Laboratory*, University of Nijmegen, Nijmegen, The Netherland, 1992.

Table S1. Crystallographic data.

complex	**4a** (1032)	**4b** (1035)	**5** (1033)	**6** (1042)
solvate	$(CH_2Cl_2)_{0.5}$		$(acetone)_{1.5}$	Et_2O
formula	$C_{50.5}H_{53}B_2ClF_8N_2P_2Rh$	$C_{50}H_{52}B_2F_8Ir_2N_2P_2$	$C_{40.5}H_{37}BClF_4N_2O_{3.5}P_2Rh_2$	$C_{76}H_{66}B_2F_8N_4O_5P_4Rh_4$
formula weight	1164.81	1300.97	997.76	1824.51
crystal system	monoclinic	monoclinic	triclinic	triclinic
space group	$P2_1/c$	$P2_1/c$	P-1	P-1
a / Å	11.479(9)	11.458(6)	11.088(1)	13.375(7)
b / Å	11.153(7)	11.136(7)	12.5827(8)	16.020(7)
c / Å	38.29(3)	37.99(1)	15.695(1)	20.37(1)
α / deg	90	90	105.234(4)	97.30(2)
β / deg	93.44(3)	93.98(3)	93.866(4)	110.80(2)
γ / deg	90	90	95.413(4)	85.28(2)
V/ $Å^3$	4893(6)	4835(4)	2093.6(3)	4042(3)
Z	4	4	2	2
d_{calcd} / $g \cdot cm^{-3}$	1.581	1.787	1.583	1.499
μ / mm^{-1}	0.861	5.648	0.985	0.947
no of diffractions collected	35496	34022	17206	32474
no of variable	628	580	514	896
R1 for data	0.0656	0.0713	0.0388	0.0548
with $I > 2\sigma(I)$	(for 8528 data)	(for 3657 data)	(for 7728 data)	(for 10193 data)
wR2	0.1717	0.2108	0.1313	0.1839
	(for 10482 data)	(for 10045 data)	(for 8719 data)	(for 16677 data)

Table S2. Crystallographic data. (cont'd.)

complex	**9** (1050)	**10** (1063)	**11** (1061)	**12** (1069)
solvate	$(acetone)_{1.5}(Et_2O)_{0.5}$		$(CH_2Cl_2)_2$	$(acetone)_2$
formula	$C_{51.5}H_{49}BF_4N_2O_4P_2Rh_2$	$C_{89}H_{70}B_2F_8N_4O_3P_4Rh_4$	$C_{83}H_{67}B_3Cl_4F_{12}N_4O_4P_4Rh_4$	$C_{80}H_{68}B_2F_8N_4O_6P_4Rh_4$
formula weight	1114.53	1952.68	2122.21	1890.56
crystal system	monoclinic	monoclinic	monoclinic	monoclinic
space group	$P2_1/c$	$P2_1/n$	$P2_1/c$	C2/c
a / Å	14.888(6)	18.063(8)	14.45(1)	23.70(2)
b / Å	22.22(1)	24.72(2)	21.12(2)	17.83(2)
c / Å	30.80(2)	19.98(1)	28.27(2)	21.63(2)
α / deg	90	90	90	90
β / deg	96.36(2)	97.76(3)	102.86(4)	109.58(4)
γ / deg	90	90	90	90
V/ $Å^3$	10126(8)	8837(8)	8413(11)	8611(14)
Z	8	4	4	4
d_{calcd} / $g \cdot cm^{-3}$	1.462	1.467	1.675	1.458
μ / mm^{-1}	0.773	0.870	1.051	0.893
no of diffractions collected	69839	48309	61140	34904
no of variable	1203	1027	1044	459
R1 for data	0.0893	0.0848	0.0706	0.0752
with $I > 2\sigma(I)$	(for 14321 data)	(for 11271 data)	(for 7384 data)	(for 5984 data)
wR2	0.2410	0.2453	0.1999	0.2349
	(for 21189 data)	(for 18162 data)	(for 18836 data)	(for 9760 data)

Table S2. Crystallographic data. (cont'd.)

complex	**13** (1075)	**14** (1076)	[**3**·Rh(cod)]BF_4 (1028)
solvate	$(acetone)_2(Et_2O)_2$	$(acetone)_3$	$(CH_2Cl_2)_{0.5}$
formula	$C_{60}H_{59}BF_4N_2O_6P_2Rh_2$	$C_{61}H_{70}B_2F_8N_2O_{15}P_2Rh_2$	$C_{29}H_{28}BClF_4N_2PRh$
formula weight	1258.70	1512.59	660.69
crystal system	monoclinic	triclinic	monoclinic
space group	C2/c	P-1	C1
a / Å	28.11(1)	13.173(8)	10.271(1)
b / Å	15.89(1)	13.495(6)	18.864(3)
c / Å	30.56(2)	21.22(1)	14.540(2)
α / deg	90	72.77(2)	90
β / deg	107.68(2)	74.34(2)	97.929(6)
γ / deg	90	72.62(2)	90
V/ $Å^3$	13001(13)	3369(3)	2790.2(7)
Z	8	2	4
d_{calcd} / $g \cdot cm^{-3}$	1.286	1.491	1.573
μ / mm^{-1}	0.613	0.622	1.573
no of diffractions collected	47453	20195	11099
no of variable	694	829	352
R1 for data	0.0717	0.0673	0.0509
with $I > 2\sigma(I)$	(for 8339 data)	(for 7663 data)	(for 5202 data)
wR2	0.2287	0.1871	0.1345
	(for 13333 data)	(for 12364 data)	(for 5693 data)

Table S2. Interatomic distances (Å) and bond angles (deg) for **4a**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.253(2)	C(1)	C(9)	1.500(7)
Rh(1)	N(1)	2.145(4)	C(2)	C(3)	1.412(7)
Rh(1)	C(51)	2.279(6)	C(2)	C(5)	1.418(7)
Rh(1)	C(52)	2.244(6)	C(3)	C(4)	1.430(7)
Rh(1)	C(55)	2.156(6)	C(3)	C(8)	1.410(7)
Rh(1)	C(56)	2.139(6)	C(4)	C(10)	1.519(7)
Rh(2)	P(2)	2.257(1)	C(5)	C(6)	1.377(9)
Rh(2)	N(2)	2.162(4)	C(6)	C(7)	1.404(8)
Rh(2)	C(61)	2.236(6)	C(7)	C(8)	1.371(8)
Rh(2)	C(62)	2.222(6)	C(11)	C(12)	1.385(8)
Rh(2)	C(65)	2.146(6)	C(11)	C(16)	1.390(8)
Rh(2)	C(66)	2.147(6)	C(12)	C(13)	1.390(9)
Cl(1)	C(71)	1.62(2)	C(13)	C(14)	1.39(1)
Cl(1)	C(71*)	1.56(2)	C(14)	C(15)	1.37(1)
P(1)	C(9)	1.847(5)	C(15)	C(16)	1.41(1)
P(1)	C(11)	1.826(5)	C(21)	C(22)	1.396(9)
P(1)	C(21)	1.822(6)	C(21)	C(26)	1.394(9)
P(2)	C(10)	1.842(6)	C(22)	C(23)	1.38(1)
P(2)	C(31)	1.831(5)	C(23)	C(24)	1.37(1)
P(2)	C(41)	1.820(6)	C(24)	C(25)	1.37(1)
F(1)	B(1)	1.36(1)	C(25)	C(26)	1.40(1)
F(2)	B(1)	1.41(1)	C(31)	C(32)	1.405(8)
F(3)	B(1)	1.39(1)	C(31)	C(36)	1.395(8)
F(4)	B(1)	1.37(1)	C(32)	C(33)	1.384(9)
F(5)	B(2)	1.40(1)	C(33)	C(34)	1.39(1)
F(6)	F(6A)	1.49(2)	C(34)	C(35)	1.39(1)
F(6)	B(2)	1.29(1)	C(35)	C(36)	1.390(9)
F(6A)	B(2)	1.44(2)	C(41)	C(42)	1.398(9)
F(7)	B(2)	1.37(2)	C(41)	C(46)	1.399(9)
F(7A)	B(2)	1.12(5)	C(42)	C(43)	1.38(1)
F(8)	B(2)	1.40(2)	C(43)	C(44)	1.38(1)
F(8A)	B(2)	1.29(3)	C(44)	C(45)	1.39(1)
N(1)	N(2)	1.399(5)	C(45)	C(46)	1.38(1)
N(1)	C(1)	1.319(6)	C(51)	C(52)	1.365(8)
N(2)	C(4)	1.320(6)	C(51)	C(58)	1.520(9)
C(1)	C(2)	1.436(6)	C(52)	C(53)	1.510(9)

Table S2. Interatomic distances (Å) and bond angles (deg) for **4a**. (cont'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(53)	C(54)	1.53(1)			
C(54)	C(55)	1.506(9)			
C(55)	C(56)	1.398(9)			
C(56)	C(57)	1.50(1)			
C(57)	C(58)	1.52(1)			
C(61)	C(62)	1.366(9)			
C(61)	C(68)	1.51(1)			
C(62)	C(63)	1.51(1)			
C(63)	C(64)	1.50(1)			
C(64)	C(65)	1.51(1)			
C(65)	C(66)	1.38(1)			
C(66)	C(67)	1.52(1)			
C(67)	C(68)	1.49(1)			
Rh(1)	Rh(2)	3.949(2)			

Table S2. Interatomic distances (Å) and bond angles (deg) for **4a**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	N(1)	79.1(1)	C(11)	P(1)	C(21)	105.2(2)
P(1)	Rh(1)	C(51)	171.5(1)	Rh(2)	P(2)	C(10)	97.9(2)
P(1)	Rh(1)	C(52)	153.0(2)	Rh(2)	P(2)	C(31)	124.9(2)
P(1)	Rh(1)	C(55)	96.8(2)	Rh(2)	P(2)	C(41)	115.7(2)
P(1)	Rh(1)	C(56)	97.9(2)	C(10)	P(2)	C(31)	103.3(2)
N(1)	Rh(1)	C(51)	100.3(2)	C(10)	P(2)	C(41)	108.4(3)
N(1)	Rh(1)	C(52)	92.3(2)	C(31)	P(2)	C(41)	104.7(2)
N(1)	Rh(1)	C(55)	156.5(2)	Rh(1)	N(1)	N(2)	119.8(3)
N(1)	Rh(1)	C(56)	165.0(2)	Rh(1)	N(1)	C(1)	117.8(3)
C(51)	Rh(1)	C(52)	35.1(2)	N(2)	N(1)	C(1)	120.2(4)
C(51)	Rh(1)	C(55)	87.1(2)	Rh(2)	N(2)	N(1)	121.1(3)
C(51)	Rh(1)	C(56)	80.5(2)	Rh(2)	N(2)	C(4)	115.9(3)
C(52)	Rh(1)	C(55)	80.9(2)	N(1)	N(2)	C(4)	119.4(4)
C(52)	Rh(1)	C(56)	96.4(2)	N(1)	C(1)	C(2)	121.9(4)
C(55)	Rh(1)	C(56)	38.0(2)	N(1)	C(1)	C(9)	117.4(4)
P(2)	Rh(2)	N(2)	79.8(1)	C(2)	C(1)	C(9)	120.7(4)
P(2)	Rh(2)	C(61)	171.2(2)	C(1)	C(2)	C(3)	117.5(4)
P(2)	Rh(2)	C(62)	152.7(2)	C(1)	C(2)	C(5)	123.4(4)
P(2)	Rh(2)	C(65)	96.1(2)	C(3)	C(2)	C(5)	119.1(4)
P(2)	Rh(2)	C(66)	97.9(2)	C(2)	C(3)	C(4)	116.8(4)
N(2)	Rh(2)	C(61)	100.2(2)	C(2)	C(3)	C(8)	119.9(4)
N(2)	Rh(2)	C(62)	90.1(2)	C(4)	C(3)	C(8)	123.1(4)
N(2)	Rh(2)	C(65)	151.8(2)	N(2)	C(4)	C(3)	122.9(4)
N(2)	Rh(2)	C(66)	170.1(2)	N(2)	C(4)	C(10)	116.9(4)
C(61)	Rh(2)	C(62)	35.7(2)	C(3)	C(4)	C(10)	120.1(4)
C(61)	Rh(2)	C(65)	88.0(2)	C(2)	C(5)	C(6)	120.1(5)
C(61)	Rh(2)	C(66)	80.7(2)	C(5)	C(6)	C(7)	120.0(5)
C(62)	Rh(2)	C(65)	81.0(2)	C(6)	C(7)	C(8)	121.4(5)
C(62)	Rh(2)	C(66)	96.0(2)	C(3)	C(8)	C(7)	119.5(5)
C(65)	Rh(2)	C(66)	37.6(3)	P(1)	C(9)	C(1)	109.7(3)
C(71)	Cl(1)	C(71)	47(1)	P(2)	C(10)	C(4)	111.0(4)
Rh(1)	P(1)	C(9)	98.7(2)	P(1)	C(11)	C(12)	120.3(4)
Rh(1)	P(1)	C(11)	123.6(2)	P(1)	C(11)	C(16)	120.6(4)
Rh(1)	P(1)	C(21)	114.8(2)	C(12)	C(11)	C(16)	119.0(5)
C(9)	P(1)	C(11)	106.2(2)	C(11)	C(12)	C(13)	121.2(6)
C(9)	P(1)	C(21)	106.7(2)	C(12)	C(13)	C(14)	119.6(6)

Table S2. Interatomic distances (Å) and bond angles (deg) for **4a**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(13)	C(14)	C(15)	120.0(7)	Rh(1)	C(55)	C(56)	70.3(3)
C(14)	C(15)	C(16)	120.8(6)	C(54)	C(55)	C(56)	125.1(6)
C(11)	C(16)	C(15)	119.5(6)	Rh(1)	C(56)	C(55)	71.7(4)
P(1)	C(21)	C(22)	118.8(4)	Rh(1)	C(56)	C(57)	109.8(4)
P(1)	C(21)	C(26)	122.5(5)	C(55)	C(56)	C(57)	125.9(6)
C(22)	C(21)	C(26)	118.6(6)	C(56)	C(57)	C(58)	113.9(6)
C(21)	C(22)	C(23)	121.1(7)	C(51)	C(58)	C(57)	113.1(5)
C(22)	C(23)	C(24)	120.0(8)	Rh(2)	C(61)	C(62)	71.6(4)
C(23)	C(24)	C(25)	119.9(8)	Rh(2)	C(61)	C(68)	110.9(4)
C(24)	C(25)	C(26)	121.3(8)	C(62)	C(61)	C(68)	124.7(6)
C(21)	C(26)	C(25)	119.1(7)	Rh(2)	C(62)	C(61)	72.7(4)
P(2)	C(31)	C(32)	118.6(4)	Rh(2)	C(62)	C(63)	106.8(5)
P(2)	C(31)	C(36)	121.9(4)	C(61)	C(62)	C(63)	126.3(6)
C(32)	C(31)	C(36)	119.6(5)	C(62)	C(63)	C(64)	114.0(6)
C(31)	C(32)	C(33)	120.0(6)	C(63)	C(64)	C(65)	114.0(6)
C(32)	C(33)	C(34)	120.7(6)	Rh(2)	C(65)	C(64)	112.6(4)
C(33)	C(34)	C(35)	119.1(6)	Rh(2)	C(65)	C(66)	71.2(4)
C(34)	C(35)	C(36)	121.2(6)	C(64)	C(65)	C(66)	124.9(6)
C(31)	C(36)	C(35)	119.4(6)	Rh(2)	C(66)	C(65)	71.2(4)
P(2)	C(41)	C(42)	117.3(4)	Rh(2)	C(66)	C(67)	109.2(4)
P(2)	C(41)	C(46)	124.5(5)	C(65)	C(66)	C(67)	125.2(7)
C(42)	C(41)	C(46)	118.2(6)	C(66)	C(67)	C(68)	114.5(7)
C(41)	C(42)	C(43)	120.9(6)	C(61)	C(68)	C(67)	113.7(6)
C(42)	C(43)	C(44)	119.8(7)	Cl(1)	C(71)	Cl(1)	133(1)
C(43)	C(44)	C(45)	120.6(7)	Cl(1)	C(71)	C(71)	64(2)
C(44)	C(45)	C(46)	119.5(7)	Cl(1)	C(71)	C(71)	69(2)
C(41)	C(46)	C(45)	120.9(7)	F(1)	B(1)	F(2)	107.0(7)
Rh(1)	C(51)	C(52)	71.0(4)	F(1)	B(1)	F(3)	109.9(7)
Rh(1)	C(51)	C(58)	109.5(4)	F(1)	B(1)	F(4)	113.1(8)
C(52)	C(51)	C(58)	126.1(5)	F(2)	B(1)	F(3)	109.4(7)
Rh(1)	C(52)	C(51)	73.9(4)	F(2)	B(1)	F(4)	107.4(7)
Rh(1)	C(52)	C(53)	106.0(4)	F(3)	B(1)	F(4)	109.9(8)
C(51)	C(52)	C(53)	125.7(6)	F(5)	B(2)	F(6)	116.4(9)
C(52)	C(53)	C(54)	113.5(6)	F(5)	B(2)	F(6A)	97(1)
C(53)	C(54)	C(55)	113.2(5)	F(5)	B(2)	F(7)	113(2)
Rh(1)	C(55)	C(54)	113.1(5)	F(5)	B(2)	F(7A)	119(4)

Table S2. Interatomic distances (Å) and bond angles (deg) for **4a**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
F(5)	B(2)	F(8)	90.5(8)				
F(5)	B(2)	F(8A)	113(2)				
F(6)	B(2)	F(7)	125(2)				
F(6)	B(2)	F(8)	101(1)				
F(6A)	B(2)	F(7A)	112(3)				
F(6A)	B(2)	F(8A)	107(2)				
F(7)	B(2)	F(8)	100(2)				
F(7A)	B(2)	F(8A)	108(4)				

Table S3. Interatomic distances (Å) and bond angles (deg) for **4b**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Ir(1)	P(1)	2.264(5)	C(3)	C(4)	1.39(3)
Ir(1)	N(1)	2.15(1)	C(3)	C(8)	1.45(3)
Ir(1)	C(51)	2.26(2)	C(4)	C(10)	1.52(3)
Ir(1)	C(52)	2.19(2)	C(5)	C(6)	1.38(3)
Ir(1)	C(55)	2.12(2)	C(6)	C(7)	1.41(3)
Ir(1)	C(56)	2.17(2)	C(7)	C(8)	1.35(3)
Ir(2)	P(2)	2.265(5)	C(11)	C(12)	1.41(3)
Ir(2)	N(2)	2.13(2)	C(11)	C(16)	1.38(3)
Ir(2)	C(61)	2.19(2)	C(12)	C(13)	1.37(3)
Ir(2)	C(62)	2.19(2)	C(13)	C(14)	1.42(3)
Ir(2)	C(65)	2.15(2)	C(14)	C(15)	1.34(4)
Ir(2)	C(66)	2.13(2)	C(15)	C(16)	1.37(3)
P(1)	C(9)	1.81(2)	C(21)	C(22)	1.37(3)
P(1)	C(11)	1.80(2)	C(21)	C(26)	1.40(3)
P(1)	C(21)	1.86(2)	C(22)	C(23)	1.47(4)
P(2)	C(10)	1.81(2)	C(23)	C(24)	1.35(5)
P(2)	C(31)	1.77(2)	C(24)	C(25)	1.28(6)
P(2)	C(41)	1.80(2)	C(25)	C(26)	1.39(4)
F(1)	B(1)	1.47(4)	C(31)	C(32)	1.45(3)
F(2)	B(1)	1.32(6)	C(31)	C(36)	1.37(3)
F(2A)	B(1)	1.47(5)	C(32)	C(33)	1.40(3)
F(3)	B(1)	1.44(6)	C(33)	C(34)	1.41(4)
F(3A)	B(1)	1.33(5)	C(34)	C(35)	1.37(4)
F(4)	B(1)	1.34(5)	C(35)	C(36)	1.31(3)
F(4A)	B(1)	1.26(5)	C(41)	C(42)	1.31(3)
F(5)	B(2)	1.34(5)	C(41)	C(46)	1.52(4)
F(6)	B(2)	1.38(5)	C(42)	C(43)	1.41(4)
F(7)	B(2)	1.36(6)	C(43)	C(44)	1.37(4)
F(8)	B(2)	1.20(6)	C(44)	C(45)	1.44(4)
N(1)	N(2)	1.36(2)	C(45)	C(46)	1.34(4)
N(1)	C(1)	1.34(2)	C(51)	C(52)	1.38(3)
N(2)	C(4)	1.36(2)	C(51)	C(58)	1.48(3)
C(1)	C(2)	1.43(3)	C(52)	C(53)	1.55(3)
C(1)	C(9)	1.50(3)	C(53)	C(54)	1.49(4)
C(2)	C(3)	1.38(3)	C(54)	C(55)	1.51(3)
C(2)	C(5)	1.40(3)	C(55)	C(56)	1.40(3)

Table S3. Interatomic distances (Å) and bond angles (deg) for **4b**. (cont'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(56)	C(57)	1.47(3)	Ir(1)	Ir(2)	3.928(3)
C(57)	C(58)	1.56(3)			
C(61)	C(62)	1.41(3)			
C(61)	C(68)	1.49(3)			
C(62)	C(63)	1.52(3)			
C(63)	C(64)	1.59(4)			
C(64)	C(65)	1.50(4)			
C(65)	C(66)	1.43(4)			
C(66)	C(67)	1.49(3)			
C(67)	C(68)	1.48(3)			

Table S3. Interatomic distances (Å) and bond angles (deg) for **4b**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Ir(1)	N(1)	79.7(4)	Ir(2)	P(2)	C(10)	97.0(7)
P(1)	Ir(1)	C(51)	171.9(5)	Ir(2)	P(2)	C(31)	125.1(7)
P(1)	Ir(1)	C(52)	151.3(5)	Ir(2)	P(2)	C(41)	112.9(8)
P(1)	Ir(1)	C(55)	95.9(6)	C(10)	P(2)	C(31)	104(1)
P(1)	Ir(1)	C(56)	99.4(6)	C(10)	P(2)	C(41)	110(1)
N(1)	Ir(1)	C(51)	99.3(6)	C(31)	P(2)	C(41)	106(1)
N(1)	Ir(1)	C(52)	90.7(6)	Ir(1)	N(1)	N(2)	119(1)
N(1)	Ir(1)	C(55)	156.7(7)	Ir(1)	N(1)	C(1)	116(1)
N(1)	Ir(1)	C(56)	165.1(7)	N(2)	N(1)	C(1)	123(1)
C(51)	Ir(1)	C(52)	36.2(7)	Ir(2)	N(2)	N(1)	124(1)
C(51)	Ir(1)	C(55)	88.1(8)	Ir(2)	N(2)	C(4)	116(1)
C(51)	Ir(1)	C(56)	79.5(7)	N(1)	N(2)	C(4)	117(2)
C(52)	Ir(1)	C(55)	82.3(8)	N(1)	C(1)	C(2)	119(2)
C(52)	Ir(1)	C(56)	96.5(7)	N(1)	C(1)	C(9)	118(2)
C(55)	Ir(1)	C(56)	38.0(8)	C(2)	C(1)	C(9)	123(2)
P(2)	Ir(2)	N(2)	81.1(4)	C(1)	C(2)	C(3)	118(2)
P(2)	Ir(2)	C(61)	171.1(5)	C(1)	C(2)	C(5)	122(2)
P(2)	Ir(2)	C(62)	150.9(5)	C(3)	C(2)	C(5)	120(2)
P(2)	Ir(2)	C(65)	95.6(7)	C(2)	C(3)	C(4)	118(2)
P(2)	Ir(2)	C(66)	98.8(6)	C(2)	C(3)	C(8)	119(2)
N(2)	Ir(2)	C(61)	99.2(6)	C(4)	C(3)	C(8)	122(2)
N(2)	Ir(2)	C(62)	89.0(7)	N(2)	C(4)	C(3)	123(2)
N(2)	Ir(2)	C(65)	152.5(9)	N(2)	C(4)	C(10)	115(2)
N(2)	Ir(2)	C(66)	168.3(8)	C(3)	C(4)	C(10)	122(2)
C(61)	Ir(2)	C(62)	37.7(7)	C(2)	C(5)	C(6)	121(2)
C(61)	Ir(2)	C(65)	88.2(8)	C(5)	C(6)	C(7)	119(2)
C(61)	Ir(2)	C(66)	79.1(8)	C(6)	C(7)	C(8)	122(2)
C(62)	Ir(2)	C(65)	80.8(9)	C(3)	C(8)	C(7)	119(2)
C(62)	Ir(2)	C(66)	96.3(9)	P(1)	C(9)	C(1)	111(1)
C(65)	Ir(2)	C(66)	39(1)	P(2)	C(10)	C(4)	114(1)
Ir(1)	P(1)	C(9)	99.0(6)	P(1)	C(11)	C(12)	121(1)
Ir(1)	P(1)	C(11)	123.5(7)	P(1)	C(11)	C(16)	121(2)
Ir(1)	P(1)	C(21)	111.9(8)	C(12)	C(11)	C(16)	118(2)
C(9)	P(1)	C(11)	106.1(9)	C(11)	C(12)	C(13)	122(2)
C(9)	P(1)	C(21)	107.8(9)	C(12)	C(13)	C(14)	117(2)
C(11)	P(1)	C(21)	107.2(9)	C(13)	C(14)	C(15)	121(2)

Table S3. Interatomic distances (Å) and bond angles (deg) for **4b**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(14)	C(15)	C(16)	120(2)	C(54)	C(55)	C(56)	122(2)
C(11)	C(16)	C(15)	121(2)	Ir(1)	C(56)	C(55)	69(1)
P(1)	C(21)	C(22)	120(2)	Ir(1)	C(56)	C(57)	111(1)
P(1)	C(21)	C(26)	119(2)	C(55)	C(56)	C(57)	130(2)
C(22)	C(21)	C(26)	120(2)	C(56)	C(57)	C(58)	110(2)
C(21)	C(22)	C(23)	116(2)	C(51)	C(58)	C(57)	115(2)
C(22)	C(23)	C(24)	121(3)	Ir(2)	C(61)	C(62)	71(1)
C(23)	C(24)	C(25)	121(3)	Ir(2)	C(61)	C(68)	113(1)
C(24)	C(25)	C(26)	123(3)	C(62)	C(61)	C(68)	123(2)
C(21)	C(26)	C(25)	119(2)	Ir(2)	C(62)	C(61)	71(1)
P(2)	C(31)	C(32)	117(1)	Ir(2)	C(62)	C(63)	110(1)
P(2)	C(31)	C(36)	126(2)	C(61)	C(62)	C(63)	126(2)
C(32)	C(31)	C(36)	116(2)	C(62)	C(63)	C(64)	111(2)
C(31)	C(32)	C(33)	119(2)	C(63)	C(64)	C(65)	113(2)
C(32)	C(33)	C(34)	118(2)	Ir(2)	C(65)	C(64)	114(2)
C(33)	C(34)	C(35)	122(2)	Ir(2)	C(65)	C(66)	69(1)
C(34)	C(35)	C(36)	119(2)	C(64)	C(65)	C(66)	123(2)
C(31)	C(36)	C(35)	126(2)	Ir(2)	C(66)	C(65)	71(1)
P(2)	C(41)	C(42)	120(2)	Ir(2)	C(66)	C(67)	111(1)
P(2)	C(41)	C(46)	121(2)	C(65)	C(66)	C(67)	126(2)
C(42)	C(41)	C(46)	118(2)	C(66)	C(67)	C(68)	114(2)
C(41)	C(42)	C(43)	124(2)	C(61)	C(68)	C(67)	111(2)
C(42)	C(43)	C(44)	118(2)	F(1)	B(1)	F(2)	117(3)
C(43)	C(44)	C(45)	121(3)	F(1)	B(1)	F(3)	109(3)
C(44)	C(45)	C(46)	120(3)	F(1)	B(1)	F(4)	93(3)
C(41)	C(46)	C(45)	119(3)	F(2)	B(1)	F(3)	103(4)
Ir(1)	C(51)	C(52)	69(1)	F(2)	B(1)	F(4)	131(4)
Ir(1)	C(51)	C(58)	110(1)	F(2A)	B(1)	F(3A)	94(3)
C(52)	C(51)	C(58)	126(2)	F(2A)	B(1)	F(4A)	104(3)
Ir(1)	C(52)	C(51)	75(1)	F(3)	B(1)	F(4)	103(3)
Ir(1)	C(52)	C(53)	107(1)	F(3A)	B(1)	F(4A)	123(3)
C(51)	C(52)	C(53)	122(2)	F(5)	B(2)	F(6)	116(4)
C(52)	C(53)	C(54)	114(2)	F(5)	B(2)	F(7)	104(3)
C(53)	C(54)	C(55)	115(2)	F(5)	B(2)	F(8)	111(4)
Ir(1)	C(55)	C(54)	112(2)	F(6)	B(2)	F(7)	98(3)
Ir(1)	C(55)	C(56)	73(1)	F(6)	B(2)	F(8)	112(4)

Table S3. Interatomic distances (Å) and bond angles (deg) for **4b**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
F(7)	B(2)	F(8)	114(4)				

Table S4. Interatomic distances (Å) and bond angles (deg) for **5**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	Cl(1)	2.3888(7)	C(11)	C(16)	1.375(5)
Rh(1)	P(1)	2.2016(7)	C(12)	C(13)	1.393(6)
Rh(1)	N(1)	2.119(2)	C(13)	C(14)	1.351(7)
Rh(1)	C(01)	1.830(4)	C(14)	C(15)	1.364(7)
Rh(2)	Cl(1)	2.3882(8)	C(15)	C(16)	1.408(6)
Rh(2)	P(2)	2.1872(8)	C(21)	C(22)	1.394(5)
Rh(2)	N(2)	2.110(2)	C(21)	C(26)	1.389(4)
Rh(2)	C(02)	1.826(3)	C(22)	C(23)	1.404(6)
P(1)	C(9)	1.836(3)	C(23)	C(24)	1.387(5)
P(1)	C(11)	1.815(3)	C(24)	C(25)	1.367(6)
P(1)	C(21)	1.816(3)	C(25)	C(26)	1.398(5)
P(2)	C(10)	1.845(3)	C(31)	C(32)	1.379(6)
P(2)	C(31)	1.803(3)	C(31)	C(36)	1.375(7)
P(2)	C(41)	1.813(3)	C(32)	C(33)	1.381(6)
F(1)	B(1)	1.386(5)	C(33)	C(34)	1.39(1)
F(2)	B(1)	1.358(5)	C(34)	C(35)	1.31(1)
F(3)	B(1)	1.418(6)	C(35)	C(36)	1.389(9)
F(4)	B(1)	1.298(7)	C(41)	C(42)	1.406(5)
O(01)	C(01)	1.134(5)	C(41)	C(46)	1.401(6)
O(02)	C(02)	1.140(4)	C(42)	C(43)	1.360(5)
O(51)	C(52)	1.21(1)	C(43)	C(44)	1.381(6)
O(61)	C(61)	1.18(2)	C(44)	C(45)	1.376(6)
N(1)	N(2)	1.380(3)	C(45)	C(46)	1.381(6)
N(1)	C(1)	1.321(3)	C(51)	C(52)	1.46(2)
N(2)	C(4)	1.326(4)	C(52)	C(53)	1.53(1)
C(1)	C(2)	1.431(4)	C(61)	C(62)	1.50(2)
C(1)	C(9)	1.493(4)	C(61)	C(62*)	1.46(2)
C(2)	C(3)	1.414(4)	Rh(1)	Rh(2)	3.4287(3)
C(2)	C(5)	1.398(4)			
C(3)	C(4)	1.424(4)			
C(3)	C(8)	1.402(5)			
C(4)	C(10)	1.497(4)			
C(5)	C(6)	1.379(5)			
C(6)	C(7)	1.402(4)			
C(7)	C(8)	1.374(4)			
C(11)	C(12)	1.406(6)			

Table S4. Interatomic distances (Å) and bond angles (deg) for **5**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Cl(1)	Rh(1)	P(1)	171.06(3)	C(1)	C(2)	C(5)	122.6(2)
Cl(1)	Rh(1)	N(1)	92.41(6)	C(3)	C(2)	C(5)	119.7(3)
Cl(1)	Rh(1)	C(01)	92.8(1)	Rh(2)	C(02)	O(02)	177.5(4)
P(1)	Rh(1)	N(1)	80.89(6)	C(2)	C(3)	C(4)	117.0(3)
P(1)	Rh(1)	C(01)	94.0(1)	C(2)	C(3)	C(8)	120.2(2)
N(1)	Rh(1)	C(01)	174.8(1)	C(4)	C(3)	C(8)	122.8(2)
Cl(1)	Rh(2)	P(2)	170.94(3)	N(2)	C(4)	C(3)	122.0(2)
Cl(1)	Rh(2)	N(2)	92.41(7)	N(2)	C(4)	C(10)	116.3(2)
Cl(1)	Rh(2)	C(02)	94.9(1)	C(3)	C(4)	C(10)	121.7(3)
P(2)	Rh(2)	N(2)	81.01(7)	C(2)	C(5)	C(6)	119.6(3)
P(2)	Rh(2)	C(02)	91.6(1)	C(5)	C(6)	C(7)	120.3(3)
N(2)	Rh(2)	C(02)	172.6(1)	C(6)	C(7)	C(8)	121.3(3)
Rh(1)	Cl(1)	Rh(2)	91.74(2)	C(3)	C(8)	C(7)	118.9(3)
Rh(1)	P(1)	C(9)	100.32(8)	P(1)	C(9)	C(1)	109.0(2)
Rh(1)	P(1)	C(11)	124.2(1)	P(2)	C(10)	C(4)	108.6(2)
Rh(1)	P(1)	C(21)	115.15(9)	P(1)	C(11)	C(12)	119.0(3)
C(9)	P(1)	C(11)	104.7(1)	P(1)	C(11)	C(16)	121.2(3)
C(9)	P(1)	C(21)	104.4(1)	C(12)	C(11)	C(16)	119.7(3)
C(11)	P(1)	C(21)	105.6(1)	C(11)	C(12)	C(13)	119.4(4)
Rh(2)	P(2)	C(10)	99.9(1)	C(12)	C(13)	C(14)	120.1(5)
Rh(2)	P(2)	C(31)	119.5(1)	C(13)	C(14)	C(15)	121.5(4)
Rh(2)	P(2)	C(41)	117.0(1)	C(14)	C(15)	C(16)	119.9(4)
C(10)	P(2)	C(31)	107.1(2)	C(11)	C(16)	C(15)	119.3(4)
C(10)	P(2)	C(41)	105.0(1)	P(1)	C(21)	C(22)	119.3(2)
C(31)	P(2)	C(41)	106.7(2)	P(1)	C(21)	C(26)	120.6(2)
Rh(1)	N(1)	N(2)	118.9(2)	C(22)	C(21)	C(26)	120.1(3)
Rh(1)	N(1)	C(1)	120.4(2)	C(21)	C(22)	C(23)	119.2(3)
N(2)	N(1)	C(1)	120.5(2)	C(22)	C(23)	C(24)	120.2(4)
Rh(2)	N(2)	N(1)	119.0(2)	C(23)	C(24)	C(25)	120.3(4)
Rh(2)	N(2)	C(4)	120.3(2)	C(24)	C(25)	C(26)	120.5(3)
N(1)	N(2)	C(4)	120.6(2)	C(21)	C(26)	C(25)	119.8(3)
N(1)	C(1)	C(2)	121.6(2)	P(2)	C(31)	C(32)	119.5(3)
N(1)	C(1)	C(9)	116.8(2)	P(2)	C(31)	C(36)	120.4(3)
C(2)	C(1)	C(9)	121.6(2)	C(32)	C(31)	C(36)	119.4(4)
Rh(1)	C(01)	O(01)	178.9(3)	C(31)	C(32)	C(33)	121.2(5)
C(1)	C(2)	C(3)	117.6(2)	C(32)	C(33)	C(34)	117.7(5)

Table S4. Interatomic distances (Å) and bond angles (deg) for **5**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(33)	C(34)	C(35)	120.9(6)				
C(34)	C(35)	C(36)	122.3(7)				
C(31)	C(36)	C(35)	118.4(6)				
P(2)	C(41)	C(42)	122.1(3)				
P(2)	C(41)	C(46)	119.2(3)				
C(42)	C(41)	C(46)	118.8(3)				
C(41)	C(42)	C(43)	120.0(4)				
C(42)	C(43)	C(44)	120.6(4)				
C(43)	C(44)	C(45)	120.8(4)				
C(44)	C(45)	C(46)	119.5(4)				
C(41)	C(46)	C(45)	120.4(4)				
O(51)	C(52)	C(51)	118.5(9)				
O(51)	C(52)	C(53)	122(1)				
C(51)	C(52)	C(53)	119.7(8)				
O(61)	C(61)	C(62)	120(1)				
O(61)	C(61)	C(62*)	127(1)				
C(62)	C(61)	C(62*)	113.2(9)				
F(1)	B(1)	F(2)	110.9(4)				
F(1)	B(1)	F(3)	101.8(3)				
F(1)	B(1)	F(4)	114.1(4)				
F(2)	B(1)	F(3)	104.3(3)				
F(2)	B(1)	F(4)	117.9(4)				
F(3)	B(1)	F(4)	105.8(4)				

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	Rh(2)	2.9410(9)	F(6)	B(2)	1.32(3)
Rh(1)	Rh(3)	2.814(1)	F(6A)	B(2)	1.22(2)
Rh(1)	Rh(4)	2.8558(9)	F(7)	B(2)	1.35(2)
Rh(1)	P(1)	2.251(2)	F(7A)	B(2)	1.46(3)
Rh(1)	N(1)	2.073(5)	F(8)	B(2)	1.54(3)
Rh(1)	C(1)	1.855(9)	F(8A)	B(2)	1.47(3)
Rh(2)	Rh(3)	2.875(1)	O(1)	C(1)	1.15(1)
Rh(2)	Rh(4)	2.8614(9)	O(2)	C(2)	1.145(8)
Rh(2)	P(2)	2.241(2)	O(3)	C(3)	1.14(1)
Rh(2)	N(2)	2.080(5)	O(4)	C(4)	1.15(1)
Rh(2)	C(2)	1.854(7)	O(5)	C(302)	1.68(5)
Rh(3)	Rh(4)	2.905(1)	O(5)	C(303)	1.30(4)
Rh(3)	P(3)	2.243(2)	N(1)	N(2)	1.361(8)
Rh(3)	N(3)	2.067(5)	N(1)	C(101)	1.304(8)
Rh(3)	C(3)	1.849(8)	N(2)	C(104)	1.320(9)
Rh(4)	P(4)	2.243(2)	N(3)	N(4)	1.357(9)
Rh(4)	N(4)	2.065(5)	N(3)	C(201)	1.325(8)
Rh(4)	C(4)	1.824(8)	N(4)	C(204)	1.322(9)
P(1)	C(109)	1.842(8)	C(101)	C(102)	1.45(1)
P(1)	C(111)	1.805(9)	C(101)	C(109)	1.49(1)
P(1)	C(121)	1.82(1)	C(102)	C(103)	1.40(1)
P(2)	C(110)	1.868(7)	C(102)	C(105)	1.41(1)
P(2)	C(131)	1.827(9)	C(103)	C(104)	1.440(9)
P(2)	C(141)	1.830(8)	C(103)	C(108)	1.40(1)
P(3)	C(209)	1.841(7)	C(104)	C(110)	1.50(1)
P(3)	C(211)	1.802(8)	C(105)	C(106)	1.39(1)
P(3)	C(221)	1.83(1)	C(106)	C(107)	1.37(1)
P(4)	C(210)	1.856(7)	C(107)	C(108)	1.39(1)
P(4)	C(231)	1.82(1)	C(111)	C(112)	1.42(1)
P(4)	C(241)	1.821(8)	C(111)	C(116)	1.42(2)
F(1)	B(1)	1.39(2)	C(112)	C(113)	1.43(2)
F(2)	B(1)	1.31(2)	C(113)	C(114)	1.37(3)
F(3)	B(1)	1.37(2)	C(114)	C(115)	1.32(3)
F(4)	B(1)	1.33(2)	C(115)	C(116)	1.40(2)
F(5)	B(2)	1.40(2)	C(121)	C(122)	1.32(2)
F(5A)	B(2)	1.63(3)	C(121)	C(126)	1.43(1)

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**. (cont'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(122)	C(123)	1.53(4)	C(224)	C(225)	1.35(2)
C(123)	C(124)	1.20(3)	C(225)	C(226)	1.39(2)
C(124)	C(125)	1.34(2)	C(231)	C(232)	1.38(1)
C(125)	C(126)	1.45(2)	C(231)	C(236)	1.39(1)
C(131)	C(132)	1.36(1)	C(232)	C(233)	1.41(2)
C(131)	C(136)	1.379(9)	C(233)	C(234)	1.34(2)
C(132)	C(133)	1.36(2)	C(234)	C(235)	1.34(2)
C(133)	C(134)	1.38(1)	C(235)	C(236)	1.37(2)
C(134)	C(135)	1.36(1)	C(241)	C(242)	1.38(1)
C(135)	C(136)	1.39(1)	C(241)	C(246)	1.40(1)
C(141)	C(142)	1.38(2)	C(242)	C(243)	1.42(1)
C(141)	C(146)	1.35(1)	C(243)	C(244)	1.41(2)
C(142)	C(143)	1.38(2)	C(244)	C(245)	1.35(2)
C(143)	C(144)	1.42(2)	C(245)	C(246)	1.39(1)
C(144)	C(145)	1.34(2)	C(301)	C(302)	2.01(8)
C(145)	C(146)	1.43(2)	C(303)	C(304)	1.40(5)
C(201)	C(202)	1.461(9)			
C(201)	C(209)	1.50(1)			
C(202)	C(203)	1.40(1)			
C(202)	C(205)	1.42(1)			
C(203)	C(204)	1.441(9)			
C(203)	C(208)	1.40(1)			
C(204)	C(210)	1.50(1)			
C(205)	C(206)	1.37(1)			
C(206)	C(207)	1.43(1)			
C(207)	C(208)	1.37(1)			
C(211)	C(212)	1.37(1)			
C(211)	C(216)	1.37(1)			
C(212)	C(213)	1.38(2)			
C(213)	C(214)	1.37(2)			
C(214)	C(215)	1.37(2)			
C(215)	C(216)	1.39(2)			
C(221)	C(222)	1.37(1)			
C(221)	C(226)	1.38(2)			
C(222)	C(223)	1.38(2)			
C(223)	C(224)	1.37(2)			

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(2)	Rh(1)	Rh(3)	59.89(2)	Rh(2)	Rh(3)	P(3)	139.00(6)
Rh(2)	Rh(1)	Rh(4)	59.14(2)	Rh(2)	Rh(3)	N(3)	115.2(2)
Rh(2)	Rh(1)	P(1)	148.06(6)	Rh(2)	Rh(3)	C(3)	68.4(3)
Rh(2)	Rh(1)	N(1)	67.5(1)	Rh(4)	Rh(3)	P(3)	149.89(6)
Rh(2)	Rh(1)	C(1)	113.9(3)	Rh(4)	Rh(3)	N(3)	68.0(2)
Rh(3)	Rh(1)	Rh(4)	61.63(3)	Rh(4)	Rh(3)	C(3)	115.0(3)
Rh(3)	Rh(1)	P(1)	139.14(7)	P(3)	Rh(3)	N(3)	82.0(2)
Rh(3)	Rh(1)	N(1)	117.1(1)	P(3)	Rh(3)	C(3)	95.1(3)
Rh(3)	Rh(1)	C(1)	64.7(3)	N(3)	Rh(3)	C(3)	176.4(4)
Rh(4)	Rh(1)	P(1)	146.28(6)	Rh(1)	Rh(4)	Rh(2)	61.92(2)
Rh(4)	Rh(1)	N(1)	115.9(2)	Rh(1)	Rh(4)	Rh(3)	58.47(2)
Rh(4)	Rh(1)	C(1)	64.6(3)	Rh(1)	Rh(4)	P(4)	148.48(5)
P(1)	Rh(1)	N(1)	80.8(2)	Rh(1)	Rh(4)	N(4)	117.5(2)
P(1)	Rh(1)	C(1)	97.8(3)	Rh(1)	Rh(4)	C(4)	65.3(3)
N(1)	Rh(1)	C(1)	178.2(3)	Rh(2)	Rh(4)	Rh(3)	59.80(2)
Rh(1)	Rh(2)	Rh(3)	57.85(3)	Rh(2)	Rh(4)	P(4)	135.54(7)
Rh(1)	Rh(2)	Rh(4)	58.95(2)	Rh(2)	Rh(4)	N(4)	115.3(2)
Rh(1)	Rh(2)	P(2)	149.10(5)	Rh(2)	Rh(4)	C(4)	68.1(3)
Rh(1)	Rh(2)	N(2)	67.5(2)	Rh(3)	Rh(4)	P(4)	148.97(5)
Rh(1)	Rh(2)	C(2)	115.4(3)	Rh(3)	Rh(4)	N(4)	68.0(2)
Rh(3)	Rh(2)	Rh(4)	60.85(3)	Rh(3)	Rh(4)	C(4)	115.7(3)
Rh(3)	Rh(2)	P(2)	143.95(5)	P(4)	Rh(4)	N(4)	81.4(2)
Rh(3)	Rh(2)	N(2)	117.8(2)	P(4)	Rh(4)	C(4)	95.0(3)
Rh(3)	Rh(2)	C(2)	62.6(3)	N(4)	Rh(4)	C(4)	176.3(3)
Rh(4)	Rh(2)	P(2)	142.57(6)	Rh(1)	P(1)	C(109)	103.6(3)
Rh(4)	Rh(2)	N(2)	113.2(2)	Rh(1)	P(1)	C(111)	120.1(3)
Rh(4)	Rh(2)	C(2)	72.1(3)	Rh(1)	P(1)	C(121)	118.9(2)
P(2)	Rh(2)	N(2)	81.7(2)	C(109)	P(1)	C(111)	106.2(4)
P(2)	Rh(2)	C(2)	95.1(3)	C(109)	P(1)	C(121)	103.7(4)
N(2)	Rh(2)	C(2)	174.4(3)	C(111)	P(1)	C(121)	102.8(4)
Rh(1)	Rh(3)	Rh(2)	62.26(3)	Rh(2)	P(2)	C(110)	102.8(3)
Rh(1)	Rh(3)	Rh(4)	59.90(3)	Rh(2)	P(2)	C(131)	121.6(3)
Rh(1)	Rh(3)	P(3)	143.98(6)	Rh(2)	P(2)	C(141)	116.0(3)
Rh(1)	Rh(3)	N(3)	118.3(1)	C(110)	P(2)	C(131)	105.0(4)
Rh(1)	Rh(3)	C(3)	63.0(2)	C(110)	P(2)	C(141)	104.5(3)
Rh(2)	Rh(3)	Rh(4)	59.35(3)	C(131)	P(2)	C(141)	105.1(4)

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(3)	P(3)	C(209)	103.8(3)	C(102)	C(103)	C(108)	120.1(6)
Rh(3)	P(3)	C(211)	120.8(3)	C(104)	C(103)	C(108)	122.3(7)
Rh(3)	P(3)	C(221)	116.8(2)	N(2)	C(104)	C(103)	119.8(7)
C(209)	P(3)	C(211)	104.7(3)	N(2)	C(104)	C(110)	116.8(5)
C(209)	P(3)	C(221)	105.4(4)	C(103)	C(104)	C(110)	123.3(7)
C(211)	P(3)	C(221)	103.8(4)	C(102)	C(105)	C(106)	117.6(8)
Rh(4)	P(4)	C(210)	104.0(3)	C(105)	C(106)	C(107)	121.4(7)
Rh(4)	P(4)	C(231)	116.8(3)	C(106)	C(107)	C(108)	122.1(8)
Rh(4)	P(4)	C(241)	119.2(3)	C(103)	C(108)	C(107)	118.0(8)
C(210)	P(4)	C(231)	104.2(3)	P(1)	C(109)	C(101)	111.7(5)
C(210)	P(4)	C(241)	104.4(4)	P(2)	C(110)	C(104)	109.9(5)
C(231)	P(4)	C(241)	106.4(4)	P(1)	C(111)	C(112)	122.4(8)
C(302)	O(5)	C(303)	115(2)	P(1)	C(111)	C(116)	118.3(7)
Rh(1)	N(1)	N(2)	112.4(3)	C(112)	C(111)	C(116)	119.1(9)
Rh(1)	N(1)	C(101)	126.9(5)	C(111)	C(112)	C(113)	117(1)
N(2)	N(1)	C(101)	120.7(6)	C(112)	C(113)	C(114)	122(1)
Rh(2)	N(2)	N(1)	111.7(4)	C(113)	C(114)	C(115)	120(2)
Rh(2)	N(2)	C(104)	125.1(5)	C(114)	C(115)	C(116)	123(2)
N(1)	N(2)	C(104)	122.9(5)	C(111)	C(116)	C(115)	119(1)
Rh(3)	N(3)	N(4)	112.0(4)	P(1)	C(121)	C(122)	120(1)
Rh(3)	N(3)	C(201)	125.5(5)	P(1)	C(121)	C(126)	119.9(8)
N(4)	N(3)	C(201)	122.6(5)	C(122)	C(121)	C(126)	120(1)
Rh(4)	N(4)	N(3)	112.0(4)	C(121)	C(122)	C(123)	115(1)
Rh(4)	N(4)	C(204)	126.6(5)	C(122)	C(123)	C(124)	128(2)
N(3)	N(4)	C(204)	121.3(5)	C(123)	C(124)	C(125)	116(2)
Rh(1)	C(1)	O(1)	168.2(7)	C(124)	C(125)	C(126)	123(1)
Rh(2)	C(2)	O(2)	169.8(7)	C(121)	C(126)	C(125)	117(1)
Rh(3)	C(3)	O(3)	168.0(8)	P(2)	C(131)	C(132)	123.7(5)
Rh(4)	C(4)	O(4)	169.7(9)	P(2)	C(131)	C(136)	116.7(7)
N(1)	C(101)	C(102)	121.1(7)	C(132)	C(131)	C(136)	119.6(8)
N(1)	C(101)	C(109)	116.4(6)	C(131)	C(132)	C(133)	120.1(7)
C(102)	C(101)	C(109)	122.5(6)	C(132)	C(133)	C(134)	121(1)
C(101)	C(102)	C(103)	117.7(6)	C(133)	C(134)	C(135)	119(1)
C(101)	C(102)	C(105)	121.5(7)	C(134)	C(135)	C(136)	120.0(7)
C(103)	C(102)	C(105)	120.8(7)	C(131)	C(136)	C(135)	120.1(8)
C(102)	C(103)	C(104)	117.6(7)	P(2)	C(141)	C(142)	116.4(7)

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(2)	C(141)	C(146)	122.5(8)	C(221)	C(222)	C(223)	120.1(9)
C(142)	C(141)	C(146)	121.0(9)	C(222)	C(223)	C(224)	121(1)
C(141)	C(142)	C(143)	120(1)	C(223)	C(224)	C(225)	119(1)
C(142)	C(143)	C(144)	119(1)	C(224)	C(225)	C(226)	121(1)
C(143)	C(144)	C(145)	121(1)	C(221)	C(226)	C(225)	120(1)
C(144)	C(145)	C(146)	119(1)	P(4)	C(231)	C(232)	118.5(7)
C(141)	C(146)	C(145)	120(1)	P(4)	C(231)	C(236)	123.3(7)
N(3)	C(201)	C(202)	119.0(7)	C(232)	C(231)	C(236)	118.1(9)
N(3)	C(201)	C(209)	117.0(6)	C(231)	C(232)	C(233)	120(1)
C(202)	C(201)	C(209)	124.0(6)	C(232)	C(233)	C(234)	121(1)
C(201)	C(202)	C(203)	118.7(6)	C(233)	C(234)	C(235)	120(1)
C(201)	C(202)	C(205)	120.7(7)	C(234)	C(235)	C(236)	122(1)
C(203)	C(202)	C(205)	120.6(6)	C(231)	C(236)	C(235)	119.7(9)
C(202)	C(203)	C(204)	117.1(6)	P(4)	C(241)	C(242)	122.5(6)
C(202)	C(203)	C(208)	120.5(6)	P(4)	C(241)	C(246)	118.8(7)
C(204)	C(203)	C(208)	122.3(7)	C(242)	C(241)	C(246)	118.6(8)
N(4)	C(204)	C(203)	121.3(7)	C(241)	C(242)	C(243)	120(1)
N(4)	C(204)	C(210)	116.5(6)	C(242)	C(243)	C(244)	119(1)
C(203)	C(204)	C(210)	122.3(6)	C(243)	C(244)	C(245)	120(1)
C(202)	C(205)	C(206)	117.9(8)	C(244)	C(245)	C(246)	121(1)
C(205)	C(206)	C(207)	121.2(7)	C(241)	C(246)	C(245)	121(1)
C(206)	C(207)	C(208)	120.4(7)	O(5)	C(302)	C(301)	117(3)
C(203)	C(208)	C(207)	119.2(8)	O(5)	C(303)	C(304)	128(3)
P(3)	C(209)	C(201)	111.6(5)	F(1)	B(1)	F(2)	112(1)
P(4)	C(210)	C(204)	111.0(5)	F(1)	B(1)	F(3)	108(1)
P(3)	C(211)	C(212)	120.4(6)	F(1)	B(1)	F(4)	110(1)
P(3)	C(211)	C(216)	120.8(8)	F(2)	B(1)	F(3)	115(1)
C(212)	C(211)	C(216)	118.6(9)	F(2)	B(1)	F(4)	106(2)
C(211)	C(212)	C(213)	120.1(9)	F(3)	B(1)	F(4)	106(1)
C(212)	C(213)	C(214)	122(1)	F(5)	B(2)	F(6)	107(1)
C(213)	C(214)	C(215)	117(1)	F(5)	B(2)	F(7)	109(1)
C(214)	C(215)	C(216)	122(1)	F(5)	B(2)	F(8)	106(1)
C(211)	C(216)	C(215)	120(1)	F(5A)	B(2)	F(6A)	116(2)
P(3)	C(221)	C(222)	119.0(7)	F(5A)	B(2)	F(7A)	87(1)
P(3)	C(221)	C(226)	121.9(8)	F(5A)	B(2)	F(8A)	108(2)
C(222)	C(221)	C(226)	119(1)				

Table S5. Interatomic distances (Å) and bond angles (deg) for **6**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
F(6)	B(2)	F(7)	121(1)				
F(6)	B(2)	F(8)	110(2)				
F(6A)	B(2)	F(7A)	111(2)				
F(6A)	B(2)	F(8A)	128(2)				
F(7)	B(2)	F(8)	103(1)				
F(7A)	B(2)	F(8A)	98(2)				

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.270(3)	F(7)	B(2)	1.33(2)
Rh(1)	N(1)	2.106(7)	F(8)	B(2)	1.37(2)
Rh(1)	C(01)	1.81(1)	O(1)	C(01)	1.15(2)
Rh(1)	C(11)	2.00(1)	O(2)	C(02)	1.17(1)
Rh(2)	P(2)	2.226(3)	O(3)	C(03)	1.16(1)
Rh(2)	N(2)	2.119(7)	O(4)	C(04)	1.15(1)
Rh(2)	C(02)	1.80(1)	O(5)	C(302)	1.15(2)
Rh(2)	C(11)	2.25(1)	O(6)	C(305)	1.23(4)
Rh(2)	C(12)	2.39(1)	O(7)	C(308)	1.22(4)
Rh(3)	P(3)	2.263(2)	O(8)	C(311)	1.34(6)
Rh(3)	N(3)	2.104(7)	O(8)	C(312)	1.47(4)
Rh(3)	C(03)	1.81(1)	N(1)	N(2)	1.36(1)
Rh(3)	C(21)	2.01(1)	N(1)	C(101)	1.33(1)
Rh(4)	P(4)	2.219(3)	N(2)	C(104)	1.33(1)
Rh(4)	N(4)	2.122(7)	N(3)	N(4)	1.38(1)
Rh(4)	C(04)	1.81(1)	N(3)	C(201)	1.34(1)
Rh(4)	C(21)	2.23(1)	N(4)	C(204)	1.33(1)
Rh(4)	C(22)	2.372(9)	C(11)	C(12)	1.23(2)
P(1)	C(109)	1.86(1)	C(12)	C(13)	1.46(2)
P(1)	C(111)	1.78(1)	C(13)	C(14)	1.40(2)
P(1)	C(121)	1.82(1)	C(13)	C(18)	1.37(2)
P(2)	C(110)	1.827(9)	C(14)	C(15)	1.36(2)
P(2)	C(131)	1.80(1)	C(15)	C(16)	1.43(2)
P(2)	C(141)	1.79(1)	C(16)	C(17)	1.42(2)
P(3)	C(209)	1.841(8)	C(16)	C(19)	1.51(2)
P(3)	C(211)	1.818(9)	C(17)	C(18)	1.42(2)
P(3)	C(221)	1.82(1)	C(21)	C(22)	1.23(1)
P(4)	C(210)	1.85(1)	C(22)	C(23)	1.43(1)
P(4)	C(231)	1.83(1)	C(23)	C(24)	1.37(1)
P(4)	C(241)	1.83(1)	C(23)	C(28)	1.42(1)
F(1)	B(1)	1.35(2)	C(24)	C(25)	1.38(1)
F(2)	B(1)	1.37(2)	C(25)	C(26)	1.41(1)
F(3)	B(1)	1.33(2)	C(26)	C(27)	1.37(1)
F(4)	B(1)	1.41(2)	C(26)	C(29)	1.50(2)
F(5)	B(2)	1.38(1)	C(27)	C(28)	1.37(2)
F(6)	B(2)	1.35(2)	C(101)	C(102)	1.42(1)

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (contn'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(101)	C(109)	1.51(1)	C(202)	C(205)	1.43(1)
C(102)	C(103)	1.40(1)	C(203)	C(204)	1.41(1)
C(102)	C(105)	1.45(1)	C(203)	C(208)	1.40(1)
C(103)	C(104)	1.42(1)	C(204)	C(210)	1.51(1)
C(103)	C(108)	1.42(1)	C(205)	C(206)	1.36(1)
C(104)	C(110)	1.52(1)	C(206)	C(207)	1.39(1)
C(105)	C(106)	1.34(1)	C(207)	C(208)	1.39(2)
C(106)	C(107)	1.42(1)	C(211)	C(212)	1.41(1)
C(107)	C(108)	1.38(1)	C(211)	C(216)	1.38(1)
C(111)	C(112)	1.41(1)	C(212)	C(213)	1.40(2)
C(111)	C(116)	1.39(1)	C(213)	C(214)	1.39(2)
C(112)	C(113)	1.39(2)	C(214)	C(215)	1.38(2)
C(113)	C(114)	1.35(2)	C(215)	C(216)	1.42(1)
C(114)	C(115)	1.36(2)	C(221)	C(222)	1.39(2)
C(115)	C(116)	1.39(2)	C(221)	C(226)	1.40(1)
C(121)	C(122)	1.39(1)	C(222)	C(223)	1.40(2)
C(121)	C(126)	1.41(2)	C(223)	C(224)	1.39(2)
C(122)	C(123)	1.42(2)	C(224)	C(225)	1.38(2)
C(123)	C(124)	1.34(2)	C(225)	C(226)	1.40(2)
C(124)	C(125)	1.36(2)	C(231)	C(232)	1.37(2)
C(125)	C(126)	1.39(2)	C(231)	C(236)	1.39(2)
C(131)	C(132)	1.40(2)	C(232)	C(233)	1.38(2)
C(131)	C(136)	1.37(1)	C(233)	C(234)	1.33(2)
C(132)	C(133)	1.35(2)	C(234)	C(235)	1.38(2)
C(133)	C(134)	1.39(2)	C(235)	C(236)	1.40(2)
C(134)	C(135)	1.35(2)	C(241)	C(242)	1.41(2)
C(135)	C(136)	1.38(2)	C(241)	C(246)	1.35(2)
C(141)	C(142)	1.42(2)	C(242)	C(243)	1.36(2)
C(141)	C(146)	1.41(1)	C(243)	C(244)	1.37(2)
C(142)	C(143)	1.36(2)	C(244)	C(245)	1.38(2)
C(143)	C(144)	1.42(2)	C(245)	C(246)	1.39(2)
C(144)	C(145)	1.36(2)	C(301)	C(302)	1.44(2)
C(145)	C(146)	1.43(2)	C(302)	C(303)	1.53(2)
C(201)	C(202)	1.43(1)	C(304)	C(305)	1.64(5)
C(201)	C(209)	1.49(1)	C(305)	C(306)	1.24(7)
C(202)	C(203)	1.42(1)	C(307)	C(308)	1.44(5)

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (contn'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(308)	C(309)	1.38(4)			
C(310)	C(311)	1.37(6)			
C(312)	C(313)	1.45(6)			
C(312)	C(314)	1.5(4)			
C(313)	C(314)	1.7(4)			
Rh(1)	Rh(2)	3.341(1)			
Rh(3)	Rh(4)	3.312(2)			

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	N(1)	80.2(2)	C(109)	P(1)	C(121)	104.7(4)
P(1)	Rh(1)	C(01)	96.6(4)	C(111)	P(1)	C(121)	103.0(5)
P(1)	Rh(1)	C(11)	169.9(3)	Rh(2)	P(2)	C(110)	98.0(3)
N(1)	Rh(1)	C(01)	176.7(4)	Rh(2)	P(2)	C(131)	120.0(3)
N(1)	Rh(1)	C(11)	90.3(4)	Rh(2)	P(2)	C(141)	121.0(3)
C(01)	Rh(1)	C(11)	92.9(5)	C(110)	P(2)	C(131)	107.5(4)
P(2)	Rh(2)	N(2)	79.9(2)	C(110)	P(2)	C(141)	103.7(4)
P(2)	Rh(2)	C(02)	90.9(4)	C(131)	P(2)	C(141)	104.5(5)
P(2)	Rh(2)	C(11)	164.3(3)	Rh(3)	P(3)	C(209)	100.7(3)
P(2)	Rh(2)	C(12)	152.6(3)	Rh(3)	P(3)	C(211)	125.3(3)
N(2)	Rh(2)	C(02)	170.3(4)	Rh(3)	P(3)	C(221)	115.6(3)
N(2)	Rh(2)	C(11)	84.7(3)	C(209)	P(3)	C(211)	103.3(4)
N(2)	Rh(2)	C(12)	101.9(3)	C(209)	P(3)	C(221)	103.9(4)
C(02)	Rh(2)	C(11)	104.7(4)	C(211)	P(3)	C(221)	105.1(4)
C(02)	Rh(2)	C(12)	87.6(4)	Rh(4)	P(4)	C(210)	98.4(3)
C(11)	Rh(2)	C(12)	30.6(4)	Rh(4)	P(4)	C(231)	118.7(4)
P(3)	Rh(3)	N(3)	81.1(2)	Rh(4)	P(4)	C(241)	119.3(3)
P(3)	Rh(3)	C(03)	99.0(3)	C(210)	P(4)	C(231)	107.0(4)
P(3)	Rh(3)	C(21)	173.1(3)	C(210)	P(4)	C(241)	103.2(5)
N(3)	Rh(3)	C(03)	179.3(4)	C(231)	P(4)	C(241)	107.9(5)
N(3)	Rh(3)	C(21)	92.0(3)	C(311)	O(8)	C(312)	111(3)
C(03)	Rh(3)	C(21)	87.9(4)	Rh(1)	N(1)	N(2)	117.4(5)
P(4)	Rh(4)	N(4)	80.0(2)	Rh(1)	N(1)	C(101)	121.8(6)
P(4)	Rh(4)	C(04)	92.6(3)	N(2)	N(1)	C(101)	120.8(7)
P(4)	Rh(4)	C(21)	165.7(3)	Rh(2)	N(2)	N(1)	118.4(5)
P(4)	Rh(4)	C(22)	152.3(2)	Rh(2)	N(2)	C(104)	120.4(6)
N(4)	Rh(4)	C(04)	167.7(4)	N(1)	N(2)	C(104)	120.7(7)
N(4)	Rh(4)	C(21)	86.3(3)	Rh(3)	N(3)	N(4)	117.6(5)
N(4)	Rh(4)	C(22)	106.7(3)	Rh(3)	N(3)	C(201)	122.0(5)
C(04)	Rh(4)	C(21)	101.6(4)	N(4)	N(3)	C(201)	120.2(7)
C(04)	Rh(4)	C(22)	84.4(4)	Rh(4)	N(4)	N(3)	116.2(5)
C(21)	Rh(4)	C(22)	30.9(3)	Rh(4)	N(4)	C(204)	121.1(6)
Rh(1)	P(1)	C(109)	99.3(3)	N(3)	N(4)	C(204)	121.1(7)
Rh(1)	P(1)	C(111)	127.5(3)	Rh(1)	C(01)	O(1)	177(1)
Rh(1)	P(1)	C(121)	114.1(3)	Rh(2)	C(02)	O(2)	179(1)
C(109)	P(1)	C(111)	105.9(4)	Rh(3)	C(03)	O(3)	176.6(9)

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(4)	C(04)	O(4)	177(1)	C(101)	C(102)	C(103)	118.9(8)
Rh(1)	C(11)	Rh(2)	103.6(4)	C(101)	C(102)	C(105)	122.1(8)
Rh(1)	C(11)	C(12)	169.7(8)	C(103)	C(102)	C(105)	118.9(8)
Rh(2)	C(11)	C(12)	80.8(7)	C(102)	C(103)	C(104)	116.8(8)
Rh(2)	C(12)	C(11)	68.6(7)	C(102)	C(103)	C(108)	121.2(8)
Rh(2)	C(12)	C(13)	121.8(7)	C(104)	C(103)	C(108)	122.0(8)
C(11)	C(12)	C(13)	169(1)	N(2)	C(104)	C(103)	121.9(8)
C(12)	C(13)	C(14)	121(1)	N(2)	C(104)	C(110)	114.4(7)
C(12)	C(13)	C(18)	122(1)	C(103)	C(104)	C(110)	123.7(8)
C(14)	C(13)	C(18)	117(1)	C(102)	C(105)	C(106)	119.5(8)
C(13)	C(14)	C(15)	124(1)	C(105)	C(106)	C(107)	120.8(9)
C(14)	C(15)	C(16)	119(1)	C(106)	C(107)	C(108)	121.8(9)
C(15)	C(16)	C(17)	119(1)	C(103)	C(108)	C(107)	117.6(9)
C(15)	C(16)	C(19)	122(2)	P(1)	C(109)	C(101)	107.9(6)
C(17)	C(16)	C(19)	120(2)	P(2)	C(110)	C(104)	106.4(6)
C(16)	C(17)	C(18)	119(1)	P(1)	C(111)	C(112)	116.8(7)
C(13)	C(18)	C(17)	122(1)	P(1)	C(111)	C(116)	125.1(8)
Rh(3)	C(21)	Rh(4)	102.6(4)	C(112)	C(111)	C(116)	117.4(9)
Rh(3)	C(21)	C(22)	176.0(8)	C(111)	C(112)	C(113)	121(1)
Rh(4)	C(21)	C(22)	81.0(6)	C(112)	C(113)	C(114)	120(1)
Rh(4)	C(22)	C(21)	68.1(6)	C(113)	C(114)	C(115)	122(1)
Rh(4)	C(22)	C(23)	124.0(6)	C(114)	C(115)	C(116)	119(1)
C(21)	C(22)	C(23)	168(1)	C(111)	C(116)	C(115)	121(1)
C(22)	C(23)	C(24)	119.4(8)	P(1)	C(121)	C(122)	119.8(8)
C(22)	C(23)	C(28)	122.0(9)	P(1)	C(121)	C(126)	119.6(7)
C(24)	C(23)	C(28)	118.5(9)	C(122)	C(121)	C(126)	120.5(9)
C(23)	C(24)	C(25)	121.1(8)	C(121)	C(122)	C(123)	118(1)
C(24)	C(25)	C(26)	120.7(9)	C(122)	C(123)	C(124)	121(1)
C(25)	C(26)	C(27)	117.7(9)	C(123)	C(124)	C(125)	120(1)
C(25)	C(26)	C(29)	121.0(9)	C(124)	C(125)	C(126)	122(1)
C(27)	C(26)	C(29)	121.2(9)	C(121)	C(126)	C(125)	118(1)
C(26)	C(27)	C(28)	122.2(9)	P(2)	C(131)	C(132)	121.3(8)
C(23)	C(28)	C(27)	119.7(9)	P(2)	C(131)	C(136)	122.2(8)
N(1)	C(101)	C(102)	120.7(8)	C(132)	C(131)	C(136)	116(1)
N(1)	C(101)	C(109)	117.1(8)	C(131)	C(132)	C(133)	123(1)
C(102)	C(101)	C(109)	122.2(8)	C(132)	C(133)	C(134)	119(1)

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(133)	C(134)	C(135)	120(1)	C(211)	C(216)	C(215)	121.3(9)
C(134)	C(135)	C(136)	120(1)	P(3)	C(221)	C(222)	118.0(8)
C(131)	C(136)	C(135)	122(1)	P(3)	C(221)	C(226)	122.2(8)
P(2)	C(141)	C(142)	119.5(8)	C(222)	C(221)	C(226)	119.8(9)
P(2)	C(141)	C(146)	122.0(8)	C(221)	C(222)	C(223)	120(1)
C(142)	C(141)	C(146)	118(1)	C(222)	C(223)	C(224)	120(1)
C(141)	C(142)	C(143)	121(1)	C(223)	C(224)	C(225)	120(1)
C(142)	C(143)	C(144)	120(1)	C(224)	C(225)	C(226)	120(1)
C(143)	C(144)	C(145)	121(1)	C(221)	C(226)	C(225)	120(1)
C(144)	C(145)	C(146)	120(1)	P(4)	C(231)	C(232)	119.4(8)
C(141)	C(146)	C(145)	120(1)	P(4)	C(231)	C(236)	119.9(9)
N(3)	C(201)	C(202)	120.7(8)	C(232)	C(231)	C(236)	121(1)
N(3)	C(201)	C(209)	117.2(7)	C(231)	C(232)	C(233)	120(1)
C(202)	C(201)	C(209)	122.1(7)	C(232)	C(233)	C(234)	122(1)
C(201)	C(202)	C(203)	118.1(8)	C(233)	C(234)	C(235)	118(1)
C(201)	C(202)	C(205)	122.3(8)	C(234)	C(235)	C(236)	124(2)
C(203)	C(202)	C(205)	119.5(8)	C(231)	C(236)	C(235)	116(1)
C(202)	C(203)	C(204)	117.2(8)	P(4)	C(241)	C(242)	116.9(8)
C(202)	C(203)	C(208)	118.5(9)	P(4)	C(241)	C(246)	123.8(9)
C(204)	C(203)	C(208)	124.2(8)	C(242)	C(241)	C(246)	119(1)
N(4)	C(204)	C(203)	122.1(8)	C(241)	C(242)	C(243)	119(1)
N(4)	C(204)	C(210)	114.2(8)	C(242)	C(243)	C(244)	122(1)
C(203)	C(204)	C(210)	123.7(8)	C(243)	C(244)	C(245)	119(1)
C(202)	C(205)	C(206)	119.5(9)	C(244)	C(245)	C(246)	120(1)
C(205)	C(206)	C(207)	122(1)	C(241)	C(246)	C(245)	121(1)
C(206)	C(207)	C(208)	119.6(9)	O(5)	C(302)	C(301)	128(1)
C(203)	C(208)	C(207)	121.0(9)	O(5)	C(302)	C(303)	122(1)
P(3)	C(209)	C(201)	110.1(6)	C(301)	C(302)	C(303)	110(1)
P(4)	C(210)	C(204)	105.7(6)	O(6)	C(305)	C(304)	114(3)
P(3)	C(211)	C(212)	119.2(7)	O(6)	C(305)	C(306)	117(4)
P(3)	C(211)	C(216)	121.7(7)	C(304)	C(305)	C(306)	128(4)
C(212)	C(211)	C(216)	119.0(9)	O(7)	C(308)	C(307)	124(3)
C(211)	C(212)	C(213)	121(1)	O(7)	C(308)	C(309)	117(3)
C(212)	C(213)	C(214)	118(1)	C(307)	C(308)	C(309)	118(3)
C(213)	C(214)	C(215)	123(1)	O(8)	C(311)	C(310)	103(3)
C(214)	C(215)	C(216)	118(1)	O(8)	C(312)	C(313)	112(3)

Table S6. Interatomic distances (Å) and bond angles (deg) for **9**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
O(8)	C(312)	C(314)	97(12)				
C(313)	C(312)	C(314)	73(12)				
C(312)	C(313)	C(314)	54(10)				
C(312)	C(314)	C(313)	53(13)				
F(1)	B(1)	F(2)	110(1)				
F(1)	B(1)	F(3)	117(1)				
F(1)	B(1)	F(4)	110(1)				
F(2)	B(1)	F(3)	109(1)				
F(2)	B(1)	F(4)	102(1)				
F(3)	B(1)	F(4)	108(1)				
F(5)	B(2)	F(6)	111(1)				
F(5)	B(2)	F(7)	113(1)				
F(5)	B(2)	F(8)	106(1)				
F(6)	B(2)	F(7)	110(1)				
F(6)	B(2)	F(8)	111(1)				
F(7)	B(2)	F(8)	106(1)				

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	Rh(2)	2.860(1)	F(3)	B(1)	1.45(3)
Rh(1)	Rh(3)	2.9977(9)	F(4)	B(1)	1.29(3)
Rh(1)	Rh(4)	2.7182(9)	F(5)	B(2)	1.35(2)
Rh(1)	P(1)	2.248(2)	F(6)	B(2)	1.35(2)
Rh(1)	N(1)	2.035(8)	F(7)	B(2)	1.27(2)
Rh(1)	C(1)	2.041(9)	F(8)	B(2)	1.38(3)
Rh(1)	C(11)	2.00(1)	O(1)	C(1)	1.14(1)
Rh(2)	Rh(3)	2.755(1)	O(2)	C(2)	1.21(1)
Rh(2)	Rh(4)	2.881(1)	O(3)	C(3)	1.20(1)
Rh(2)	P(2)	2.289(3)	N(1)	N(2)	1.36(1)
Rh(2)	N(2)	2.145(7)	N(1)	C(101)	1.33(1)
Rh(2)	C(2)	1.97(1)	N(2)	C(104)	1.32(1)
Rh(2)	C(3)	1.983(8)	N(3)	N(4)	1.37(1)
Rh(3)	Rh(4)	2.926(1)	N(3)	C(201)	1.31(1)
Rh(3)	P(3)	2.259(3)	N(4)	C(204)	1.34(1)
Rh(3)	N(3)	2.061(7)	C(11)	C(12)	1.20(2)
Rh(3)	C(2)	2.01(1)	C(12)	C(13)	1.48(2)
Rh(3)	C(21)	2.01(1)	C(13)	C(14)	1.37(2)
Rh(4)	P(4)	2.288(2)	C(13)	C(18)	1.37(2)
Rh(4)	N(4)	2.129(7)	C(14)	C(15)	1.40(3)
Rh(4)	C(1)	1.983(9)	C(15)	C(16)	1.36(3)
Rh(4)	C(3)	2.00(1)	C(16)	C(17)	1.26(3)
P(1)	C(109)	1.88(1)	C(16)	C(19)	1.64(3)
P(1)	C(111)	1.806(9)	C(17)	C(18)	1.36(3)
P(1)	C(121)	1.81(1)	C(21)	C(22)	1.21(1)
P(2)	C(110)	1.87(1)	C(22)	C(23)	1.49(1)
P(2)	C(131)	1.86(1)	C(23)	C(24)	1.35(2)
P(2)	C(141)	1.81(1)	C(23)	C(28)	1.37(2)
P(3)	C(209)	1.87(1)	C(24)	C(25)	1.41(2)
P(3)	C(211)	1.83(1)	C(25)	C(26)	1.29(2)
P(3)	C(221)	1.81(1)	C(26)	C(27)	1.40(3)
P(4)	C(210)	1.865(9)	C(26)	C(29)	1.51(3)
P(4)	C(231)	1.79(1)	C(27)	C(28)	1.46(2)
P(4)	C(241)	1.81(1)	C(101)	C(102)	1.43(1)
F(1)	B(1)	1.31(3)	C(101)	C(109)	1.49(1)
F(2)	B(1)	1.35(3)	C(102)	C(103)	1.41(1)

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(102)	C(105)	1.44(1)	C(203)	C(208)	1.40(1)
C(103)	C(104)	1.42(1)	C(204)	C(210)	1.50(1)
C(103)	C(108)	1.43(2)	C(205)	C(206)	1.38(2)
C(104)	C(110)	1.50(1)	C(206)	C(207)	1.39(2)
C(105)	C(106)	1.35(2)	C(207)	C(208)	1.34(2)
C(106)	C(107)	1.39(2)	C(211)	C(212)	1.39(2)
C(107)	C(108)	1.39(1)	C(211)	C(216)	1.33(2)
C(111)	C(112)	1.39(1)	C(212)	C(213)	1.37(2)
C(111)	C(116)	1.40(2)	C(213)	C(214)	1.36(2)
C(112)	C(113)	1.41(2)	C(214)	C(215)	1.37(2)
C(113)	C(114)	1.37(2)	C(215)	C(216)	1.41(2)
C(114)	C(115)	1.39(2)	C(221)	C(222)	1.38(2)
C(115)	C(116)	1.42(2)	C(221)	C(226)	1.43(2)
C(121)	C(122)	1.40(1)	C(222)	C(223)	1.39(2)
C(121)	C(126)	1.39(2)	C(223)	C(224)	1.41(4)
C(122)	C(123)	1.39(2)	C(224)	C(225)	1.47(4)
C(123)	C(124)	1.36(3)	C(225)	C(226)	1.36(3)
C(124)	C(125)	1.31(2)	C(231)	C(232)	1.40(2)
C(125)	C(126)	1.39(2)	C(231)	C(236)	1.37(2)
C(131)	C(132)	1.35(2)	C(232)	C(233)	1.38(2)
C(131)	C(136)	1.47(2)	C(234)	C(235)	1.36(3)
C(132)	C(133)	1.30(3)	C(233)	C(234)	1.28(2)
C(133)	C(134)	1.25(4)	C(235)	C(236)	1.47(2)
C(134)	C(135)	1.40(4)	C(241)	C(242)	1.45(1)
C(135)	C(136)	1.45(2)	C(241)	C(246)	1.39(1)
C(141)	C(142)	1.36(2)	C(242)	C(243)	1.38(2)
C(141)	C(146)	1.40(2)	C(243)	C(244)	1.38(2)
C(142)	C(143)	1.46(2)	C(244)	C(245)	1.40(2)
C(143)	C(144)	1.35(2)	C(245)	C(246)	1.40(2)
C(144)	C(145)	1.38(3)			
C(145)	C(146)	1.39(2)	Rh(1)	C(21)	2.579(9)
C(201)	C(202)	1.46(1)	Rh(2)	C(21)	2.53(1)
C(201)	C(209)	1.47(1)	Rh(3)	C(11)	2.517(9)
C(202)	C(203)	1.41(1)	Rh(4)	C(11)	2.640(9)
C(202)	C(205)	1.46(2)			
C(203)	C(204)	1.42(1)			

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(2)	Rh(1)	Rh(3)	56.06(3)	P(2)	Rh(2)	N(2)	79.9(2)
Rh(2)	Rh(1)	Rh(4)	62.14(2)	P(2)	Rh(2)	C(2)	100.1(3)
Rh(2)	Rh(1)	P(1)	151.07(8)	P(2)	Rh(2)	C(3)	98.7(3)
Rh(2)	Rh(1)	N(1)	71.0(2)	N(2)	Rh(2)	C(2)	166.5(3)
Rh(2)	Rh(1)	C(1)	85.5(2)	N(2)	Rh(2)	C(3)	104.1(3)
Rh(2)	Rh(1)	C(11)	107.8(3)	C(2)	Rh(2)	C(3)	89.3(4)
Rh(3)	Rh(1)	Rh(4)	61.35(2)	Rh(1)	Rh(3)	Rh(2)	59.44(3)
Rh(3)	Rh(1)	P(1)	141.41(7)	Rh(1)	Rh(3)	Rh(4)	54.61(2)
Rh(3)	Rh(1)	N(1)	122.9(2)	Rh(1)	Rh(3)	P(3)	146.90(7)
Rh(3)	Rh(1)	C(1)	107.9(2)	Rh(1)	Rh(3)	N(3)	119.7(2)
Rh(3)	Rh(1)	C(11)	56.3(3)	Rh(1)	Rh(3)	C(2)	104.8(3)
Rh(4)	Rh(1)	P(1)	141.36(7)	Rh(1)	Rh(3)	C(21)	58.1(2)
Rh(4)	Rh(1)	N(1)	112.6(2)	Rh(2)	Rh(3)	Rh(4)	60.86(3)
Rh(4)	Rh(1)	C(1)	46.6(2)	Rh(2)	Rh(3)	P(3)	139.39(8)
Rh(4)	Rh(1)	C(11)	66.0(3)	Rh(2)	Rh(3)	N(3)	113.4(2)
P(1)	Rh(1)	N(1)	81.7(2)	Rh(2)	Rh(3)	C(2)	45.6(3)
P(1)	Rh(1)	C(1)	102.6(2)	Rh(2)	Rh(3)	C(21)	61.8(3)
P(1)	Rh(1)	C(11)	99.6(3)	Rh(4)	Rh(3)	P(3)	150.89(7)
N(1)	Rh(1)	C(1)	86.2(3)	Rh(4)	Rh(3)	N(3)	69.9(2)
N(1)	Rh(1)	C(11)	178.6(3)	Rh(4)	Rh(3)	C(2)	82.9(3)
C(1)	Rh(1)	C(11)	93.0(4)	Rh(4)	Rh(3)	C(21)	106.2(3)
Rh(1)	Rh(2)	Rh(3)	64.50(3)	P(3)	Rh(3)	N(3)	81.3(2)
Rh(1)	Rh(2)	Rh(4)	56.52(3)	P(3)	Rh(3)	C(2)	100.7(3)
Rh(1)	Rh(2)	P(2)	146.23(7)	P(3)	Rh(3)	C(21)	102.8(3)
Rh(1)	Rh(2)	N(2)	66.8(2)	N(3)	Rh(3)	C(2)	88.6(4)
Rh(1)	Rh(2)	C(2)	111.0(3)	N(3)	Rh(3)	C(21)	175.1(4)
Rh(1)	Rh(2)	C(3)	94.7(3)	C(2)	Rh(3)	C(21)	88.0(4)
Rh(3)	Rh(2)	Rh(4)	62.49(3)	Rh(1)	Rh(4)	Rh(2)	61.35(3)
Rh(3)	Rh(2)	P(2)	142.89(8)	Rh(1)	Rh(4)	Rh(3)	64.04(2)
Rh(3)	Rh(2)	N(2)	128.0(2)	Rh(1)	Rh(4)	P(4)	142.19(6)
Rh(3)	Rh(2)	C(2)	46.7(3)	Rh(1)	Rh(4)	N(4)	126.9(2)
Rh(3)	Rh(2)	C(3)	96.9(3)	Rh(1)	Rh(4)	C(1)	48.4(3)
Rh(4)	Rh(2)	P(2)	142.47(7)	Rh(1)	Rh(4)	C(3)	98.8(2)
Rh(4)	Rh(2)	N(2)	103.6(2)	Rh(2)	Rh(4)	Rh(3)	56.65(3)
Rh(4)	Rh(2)	C(2)	84.8(3)	Rh(2)	Rh(4)	P(4)	144.15(7)
Rh(4)	Rh(2)	C(3)	43.8(3)	Rh(2)	Rh(4)	N(4)	104.6(2)

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(2)	Rh(4)	C(1)	86.0(3)	Rh(1)	N(1)	N(2)	110.7(5)
Rh(2)	Rh(4)	C(3)	43.4(2)	Rh(1)	N(1)	C(101)	127.3(6)
Rh(3)	Rh(4)	P(4)	146.43(7)	N(2)	N(1)	C(101)	121.9(8)
Rh(3)	Rh(4)	N(4)	66.3(2)	Rh(2)	N(2)	N(1)	110.9(6)
Rh(3)	Rh(4)	C(1)	112.4(3)	Rh(2)	N(2)	C(104)	126.6(6)
Rh(3)	Rh(4)	C(3)	91.4(2)	N(1)	N(2)	C(104)	121.2(7)
P(4)	Rh(4)	N(4)	80.7(2)	Rh(3)	N(3)	N(4)	110.2(5)
P(4)	Rh(4)	C(1)	97.6(3)	Rh(3)	N(3)	C(201)	126.4(6)
P(4)	Rh(4)	C(3)	100.8(2)	N(4)	N(3)	C(201)	123.4(8)
N(4)	Rh(4)	C(1)	164.3(3)	Rh(4)	N(4)	N(3)	112.5(5)
N(4)	Rh(4)	C(3)	100.2(3)	Rh(4)	N(4)	C(204)	125.4(6)
C(1)	Rh(4)	C(3)	95.4(4)	N(3)	N(4)	C(204)	121.0(7)
Rh(1)	P(1)	C(109)	103.3(3)	Rh(1)	C(1)	Rh(4)	85.0(4)
Rh(1)	P(1)	C(111)	115.9(3)	Rh(1)	C(1)	O(1)	129.5(7)
Rh(1)	P(1)	C(121)	121.5(3)	Rh(4)	C(1)	O(1)	145.5(7)
C(109)	P(1)	C(111)	107.0(4)	Rh(2)	C(2)	Rh(3)	87.7(4)
C(109)	P(1)	C(121)	105.5(4)	Rh(2)	C(2)	O(2)	141.2(8)
C(111)	P(1)	C(121)	102.6(4)	Rh(3)	C(2)	O(2)	130.9(8)
Rh(2)	P(2)	C(110)	103.7(3)	Rh(2)	C(3)	Rh(4)	92.8(4)
Rh(2)	P(2)	C(131)	119.2(4)	Rh(2)	C(3)	O(3)	135.5(8)
Rh(2)	P(2)	C(141)	120.9(4)	Rh(4)	C(3)	O(3)	131.0(8)
C(110)	P(2)	C(131)	105.2(5)	Rh(1)	C(11)	C(12)	172.0(8)
C(110)	P(2)	C(141)	107.1(5)	C(11)	C(12)	C(13)	170(1)
C(131)	P(2)	C(141)	99.3(5)	C(12)	C(13)	C(14)	120(1)
Rh(3)	P(3)	C(209)	103.0(3)	C(12)	C(13)	C(18)	123(1)
Rh(3)	P(3)	C(211)	121.8(3)	C(14)	C(13)	C(18)	117(1)
Rh(3)	P(3)	C(221)	117.4(4)	C(13)	C(14)	C(15)	121(2)
C(209)	P(3)	C(211)	100.4(5)	C(14)	C(15)	C(16)	116(2)
C(209)	P(3)	C(221)	106.8(5)	C(15)	C(16)	C(17)	123(2)
C(211)	P(3)	C(221)	105.2(5)	C(15)	C(16)	C(19)	108(2)
Rh(4)	P(4)	C(210)	102.4(3)	C(17)	C(16)	C(19)	127(2)
Rh(4)	P(4)	C(231)	114.9(3)	C(16)	C(17)	C(18)	122(2)
Rh(4)	P(4)	C(241)	123.5(3)	C(13)	C(18)	C(17)	119(1)
C(210)	P(4)	C(231)	103.1(5)	Rh(3)	C(21)	C(22)	171.5(9)
C(210)	P(4)	C(241)	105.5(4)	C(21)	C(22)	C(23)	172(1)
C(231)	P(4)	C(241)	105.1(5)	C(22)	C(23)	C(24)	121.2(9)

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(22)	C(23)	C(28)	120(1)	P(1)	C(121)	C(126)	119.6(8)
C(24)	C(23)	C(28)	119(1)	C(122)	C(121)	C(126)	118(1)
C(23)	C(24)	C(25)	123(1)	C(121)	C(122)	C(123)	119(1)
C(24)	C(25)	C(26)	120(1)	C(122)	C(123)	C(124)	122(1)
C(25)	C(26)	C(27)	119(1)	C(123)	C(124)	C(125)	118(2)
C(25)	C(26)	C(29)	119(2)	C(124)	C(125)	C(126)	124(2)
C(27)	C(26)	C(29)	122(1)	C(121)	C(126)	C(125)	118(1)
C(26)	C(27)	C(28)	121(1)	P(2)	C(131)	C(132)	123(1)
C(23)	C(28)	C(27)	117(1)	P(2)	C(131)	C(136)	118(1)
N(1)	C(101)	C(102)	119.9(8)	C(132)	C(131)	C(136)	120(1)
N(1)	C(101)	C(109)	116.6(8)	C(131)	C(132)	C(133)	128(2)
C(102)	C(101)	C(109)	123.5(8)	C(132)	C(133)	C(134)	115(3)
C(101)	C(102)	C(103)	118.1(8)	C(133)	C(134)	C(135)	128(3)
C(101)	C(102)	C(105)	121.8(8)	C(134)	C(135)	C(136)	119(2)
C(103)	C(102)	C(105)	120.0(9)	C(131)	C(136)	C(135)	111(2)
C(102)	C(103)	C(104)	117.9(9)	P(2)	C(141)	C(142)	124.2(8)
C(102)	C(103)	C(108)	119.2(8)	P(2)	C(141)	C(146)	117(1)
C(104)	C(103)	C(108)	122.9(8)	C(142)	C(141)	C(146)	118(1)
N(2)	C(104)	C(103)	121.1(8)	C(141)	C(142)	C(143)	119(1)
N(2)	C(104)	C(110)	115.2(8)	C(142)	C(143)	C(144)	121(2)
C(103)	C(104)	C(110)	123.7(9)	C(143)	C(144)	C(145)	119(1)
C(102)	C(105)	C(106)	119.0(9)	C(144)	C(145)	C(146)	121(1)
C(105)	C(106)	C(107)	122(1)	C(141)	C(146)	C(145)	121(1)
C(106)	C(107)	C(108)	121(1)	N(3)	C(201)	C(202)	118.1(8)
C(103)	C(108)	C(107)	119(1)	N(3)	C(201)	C(209)	117.7(8)
P(1)	C(109)	C(101)	110.6(6)	C(202)	C(201)	C(209)	124.2(9)
P(2)	C(110)	C(104)	112.1(7)	C(201)	C(202)	C(203)	119.2(9)
P(1)	C(111)	C(112)	125.2(8)	C(201)	C(202)	C(205)	119.6(9)
P(1)	C(111)	C(116)	117.3(7)	C(203)	C(202)	C(205)	121.3(9)
C(112)	C(111)	C(116)	117.5(9)	C(202)	C(203)	C(204)	117.8(8)
C(111)	C(112)	C(113)	121(1)	C(202)	C(203)	C(208)	117.7(9)
C(112)	C(113)	C(114)	121(1)	C(204)	C(203)	C(208)	124(1)
C(113)	C(114)	C(115)	120(1)	N(4)	C(204)	C(203)	120.5(9)
C(114)	C(115)	C(116)	119(1)	N(4)	C(204)	C(210)	115.3(8)
C(111)	C(116)	C(115)	121.9(9)	C(203)	C(204)	C(210)	124.2(8)
P(1)	C(121)	C(122)	122.3(8)	C(202)	C(205)	C(206)	116(1)

Table S7. Interatomic distances (Å) and bond angles (deg) for **10**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(205)	C(206)	C(207)	123(1)	C(241)	C(246)	C(245)	120(1)
C(206)	C(207)	C(208)	120(1)	F(1)	B(1)	F(2)	106(2)
C(203)	C(208)	C(207)	122(1)	F(1)	B(1)	F(3)	103(2)
P(3)	C(209)	C(201)	111.0(7)	F(1)	B(1)	F(4)	111(3)
P(4)	C(210)	C(204)	111.9(6)	F(2)	B(1)	F(3)	103(2)
P(3)	C(211)	C(212)	120.0(8)	F(2)	B(1)	F(4)	117(2)
P(3)	C(211)	C(216)	118.8(8)	F(3)	B(1)	F(4)	115(2)
C(212)	C(211)	C(216)	120(1)	F(5)	B(2)	F(6)	108(1)
C(211)	C(212)	C(213)	122(1)	F(5)	B(2)	F(7)	114(2)
C(212)	C(213)	C(214)	118(1)	F(5)	B(2)	F(8)	109(2)
C(213)	C(214)	C(215)	121(2)	F(6)	B(2)	F(7)	112(2)
C(214)	C(215)	C(216)	120(1)	F(6)	B(2)	F(8)	104(2)
C(211)	C(216)	C(215)	119(1)	F(7)	B(2)	F(8)	109(1)
P(3)	C(221)	C(222)	124(1)				
P(3)	C(221)	C(226)	114(1)				
C(222)	C(221)	C(226)	122(1)				
C(221)	C(222)	C(223)	123(2)				
C(222)	C(223)	C(224)	116(2)				
C(223)	C(224)	C(225)	121(2)				
C(224)	C(225)	C(226)	120(2)				
C(221)	C(226)	C(225)	118(2)				
P(4)	C(231)	C(232)	126.4(9)				
P(4)	C(231)	C(236)	117.7(9)				
C(232)	C(231)	C(236)	116(1)				
C(231)	C(232)	C(233)	123(1)				
C(232)	C(233)	C(234)	124(1)				
C(233)	C(234)	C(235)	116(2)				
C(234)	C(235)	C(236)	124(2)				
C(231)	C(236)	C(235)	117(1)				
P(4)	C(241)	C(242)	117.8(7)				
P(4)	C(241)	C(246)	123.2(8)				
C(242)	C(241)	C(246)	118.3(9)				
C(241)	C(242)	C(243)	119.8(9)				
C(242)	C(243)	C(244)	121(1)				
C(243)	C(244)	C(245)	119(1)				
C(244)	C(245)	C(246)	122(1)				

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	Rh(3)	2.856(1)	P(4)	C(91)	1.81(1)
Rh(1)	Rh(4)	2.894(1)	P(4)	C(101)	1.79(1)
Rh(1)	P(1)	2.245(2)	F(1)	B(1)	1.32(2)
Rh(1)	N(1)	2.141(9)	F(2)	B(1)	1.36(2)
Rh(1)	C(1)	2.18(1)	F(3)	B(1)	1.36(2)
Rh(1)	C(01)	1.86(1)	F(4)	B(1)	1.40(2)
Rh(2)	Rh(3)	2.967(3)	F(5)	B(2)	1.33(3)
Rh(2)	P(2)	2.225(3)	F(6)	B(2)	1.30(2)
Rh(2)	N(2)	2.116(8)	F(7)	B(2)	1.36(2)
Rh(2)	C(1)	2.246(9)	F(8)	B(2)	1.31(2)
Rh(2)	C(02)	1.83(1)	F(9)	B(3)	1.37(2)
Rh(3)	P(3)	2.234(3)	F(10)	B(3)	1.41(3)
Rh(3)	N(3)	2.142(7)	F(10A)	B(3)	1.32(3)
Rh(3)	C(1)	2.17(1)	F(11)	B(3)	1.39(2)
Rh(3)	C(03)	1.85(1)	F(11A)	B(3)	1.29(3)
Rh(4)	P(4)	2.211(3)	F(12)	B(3)	1.32(2)
Rh(4)	N(4)	2.128(8)	F(12A)	B(3)	1.43(2)
Rh(4)	C(1)	2.313(9)	O(01)	C(01)	1.12(1)
Rh(4)	C(04)	1.80(1)	O(02)	C(02)	1.13(1)
Cl(1)	C(111)	1.70(2)	O(03)	C(03)	1.12(1)
Cl(2)	C(111)	1.56(2)	O(04)	C(04)	1.16(1)
Cl(3)	Cl(3A)	2.05(2)	N(1)	N(2)	1.37(1)
Cl(3)	C(112)	1.37(3)	N(1)	C(11)	1.32(1)
Cl(3A)	C(112)	1.81(3)	N(2)	C(14)	1.34(1)
Cl(4)	C(112)	1.83(3)	N(3)	N(4)	1.39(1)
Cl(4A)	C(112)	1.56(3)	N(3)	C(21)	1.33(1)
P(1)	C(19)	1.84(1)	N(4)	C(24)	1.32(1)
P(1)	C(31)	1.80(1)	C(1)	C(2)	1.24(2)
P(1)	C(41)	1.796(9)	C(2)	C(3)	1.44(2)
P(2)	C(20)	1.83(2)	C(3)	C(4)	1.39(2)
P(2)	C(51)	1.80(1)	C(3)	C(8)	1.39(1)
P(2)	C(61)	1.80(1)	C(4)	C(5)	1.38(2)
P(3)	C(29)	1.81(1)	C(5)	C(6)	1.40(2)
P(3)	C(71)	1.81(1)	C(6)	C(7)	1.34(2)
P(3)	C(81)	1.815(9)	C(6)	C(9)	1.49(2)
P(4)	C(30)	1.83(1)	C(7)	C(8)	1.39(2)

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**. (contn'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(21)	C(22)	1.40(1)	C(94)	C(95)	1.36(3)
C(21)	C(29)	1.52(1)	C(95)	C(96)	1.40(2)
C(22)	C(23)	1.39(1)	C(101)	C(102)	1.36(2)
C(22)	C(25)	1.41(1)	C(101)	C(106)	1.40(2)
C(23)	C(24)	1.45(1)	C(102)	C(103)	1.39(2)
C(23)	C(28)	1.41(1)	C(103)	C(104)	1.32(2)
C(24)	C(30)	1.51(1)	C(104)	C(105)	1.37(4)
C(25)	C(26)	1.36(1)	C(105)	C(106)	1.44(2)
C(26)	C(27)	1.37(2)	C(31)	C(32)	1.38(2)
C(27)	C(28)	1.35(2)	C(31)	C(36)	1.38(2)
C(11)	C(12)	1.43(1)	C(32)	C(33)	1.37(2)
C(11)	C(19)	1.48(1)	C(33)	C(34)	1.37(3)
C(12)	C(13)	1.40(1)	C(34)	C(35)	1.35(3)
C(12)	C(15)	1.42(1)	C(35)	C(36)	1.38(2)
C(13)	C(14)	1.43(1)	C(41)	C(42)	1.38(1)
C(13)	C(18)	1.42(2)	C(41)	C(46)	1.39(1)
C(14)	C(20)	1.49(2)	C(42)	C(43)	1.37(2)
C(15)	C(16)	1.36(2)	C(43)	C(44)	1.38(2)
C(16)	C(17)	1.35(2)	C(44)	C(45)	1.36(2)
C(17)	C(18)	1.35(2)	C(45)	C(46)	1.39(2)
C(71)	C(72)	1.43(2)	C(51)	C(52)	1.37(2)
C(71)	C(76)	1.38(1)	C(51)	C(56)	1.38(2)
C(72)	C(73)	1.39(2)	C(52)	C(53)	1.39(2)
C(73)	C(74)	1.33(2)	C(53)	C(54)	1.33(3)
C(74)	C(75)	1.38(2)	C(54)	C(55)	1.32(3)
C(75)	C(76)	1.37(2)	C(55)	C(56)	1.43(3)
C(81)	C(82)	1.37(1)	C(61)	C(62)	1.35(2)
C(81)	C(86)	1.39(1)	C(61)	C(66)	1.38(2)
C(82)	C(83)	1.39(2)	C(62)	C(63)	1.35(3)
C(83)	C(84)	1.40(2)	C(63)	C(64)	1.31(2)
C(84)	C(85)	1.34(2)	C(64)	C(65)	1.34(2)
C(85)	C(86)	1.37(2)	C(65)	C(66)	1.37(2)
C(91)	C(92)	1.36(2)			
C(91)	C(96)	1.41(2)			
C(92)	C(93)	1.36(2)			
C(93)	C(94)	1.39(3)			

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(3)	Rh(1)	Rh(4)	75.49(3)	P(3)	Rh(3)	C(03)	89.8(4)
Rh(3)	Rh(1)	P(1)	146.43(9)	N(3)	Rh(3)	C(1)	89.4(3)
Rh(3)	Rh(1)	N(1)	110.9(2)	N(3)	Rh(3)	C(03)	168.6(5)
Rh(3)	Rh(1)	C(1)	48.9(3)	C(1)	Rh(3)	C(03)	100.6(5)
Rh(3)	Rh(1)	C(01)	73.9(3)	Rh(1)	Rh(4)	P(4)	146.81(7)
Rh(4)	Rh(1)	P(1)	126.60(7)	Rh(1)	Rh(4)	N(4)	108.3(2)
Rh(4)	Rh(1)	N(1)	120.4(2)	Rh(1)	Rh(4)	C(1)	47.8(2)
Rh(4)	Rh(1)	C(1)	52.0(2)	Rh(1)	Rh(4)	C(04)	74.9(3)
Rh(4)	Rh(1)	C(01)	67.2(3)	P(4)	Rh(4)	N(4)	83.9(2)
P(1)	Rh(1)	N(1)	81.2(2)	P(4)	Rh(4)	C(1)	165.3(2)
P(1)	Rh(1)	C(1)	163.8(3)	P(4)	Rh(4)	C(04)	91.0(3)
P(1)	Rh(1)	C(01)	91.1(3)	N(4)	Rh(4)	C(1)	89.3(3)
N(1)	Rh(1)	C(1)	86.8(3)	N(4)	Rh(4)	C(04)	174.4(4)
N(1)	Rh(1)	C(01)	171.5(3)	C(1)	Rh(4)	C(04)	96.2(4)
C(1)	Rh(1)	C(01)	101.4(4)	Rh(1)	P(1)	C(19)	96.8(3)
Rh(3)	Rh(2)	P(2)	141.5(1)	Rh(1)	P(1)	C(31)	114.7(3)
Rh(3)	Rh(2)	N(2)	108.0(2)	Rh(1)	P(1)	C(41)	125.0(3)
Rh(3)	Rh(2)	C(1)	46.8(3)	C(19)	P(1)	C(31)	104.3(5)
Rh(3)	Rh(2)	C(02)	77.1(4)	C(19)	P(1)	C(41)	104.1(5)
P(2)	Rh(2)	N(2)	82.7(2)	C(31)	P(1)	C(41)	108.5(5)
P(2)	Rh(2)	C(1)	169.6(3)	Rh(2)	P(2)	C(20)	99.6(4)
P(2)	Rh(2)	C(02)	91.7(3)	Rh(2)	P(2)	C(51)	120.6(4)
N(2)	Rh(2)	C(1)	88.2(3)	Rh(2)	P(2)	C(61)	119.1(3)
N(2)	Rh(2)	C(02)	174.3(4)	C(20)	P(2)	C(51)	108.8(6)
C(1)	Rh(2)	C(02)	97.2(4)	C(20)	P(2)	C(61)	101.3(6)
Rh(1)	Rh(3)	Rh(2)	74.54(3)	C(51)	P(2)	C(61)	105.2(5)
Rh(1)	Rh(3)	P(3)	147.90(8)	Rh(3)	P(3)	C(29)	99.7(4)
Rh(1)	Rh(3)	N(3)	109.3(2)	Rh(3)	P(3)	C(71)	115.6(4)
Rh(1)	Rh(3)	C(1)	49.0(3)	Rh(3)	P(3)	C(81)	121.5(4)
Rh(1)	Rh(3)	C(03)	74.1(4)	C(29)	P(3)	C(71)	107.9(5)
Rh(2)	Rh(3)	P(3)	125.64(8)	C(29)	P(3)	C(81)	105.6(4)
Rh(2)	Rh(3)	N(3)	122.8(2)	C(71)	P(3)	C(81)	105.3(5)
Rh(2)	Rh(3)	C(1)	48.9(2)	Rh(4)	P(4)	C(30)	103.5(3)
Rh(2)	Rh(3)	C(03)	68.5(4)	Rh(4)	P(4)	C(91)	120.2(3)
P(3)	Rh(3)	N(3)	81.8(2)	Rh(4)	P(4)	C(101)	116.8(4)
P(3)	Rh(3)	C(1)	163.0(3)	C(30)	P(4)	C(91)	105.8(5)

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(30)	P(4)	C(101)	104.6(5)	C(7)	C(6)	C(9)	121(1)
C(91)	P(4)	C(101)	104.3(5)	C(6)	C(7)	C(8)	121(1)
Rh(1)	N(1)	N(2)	120.5(6)	C(3)	C(8)	C(7)	121(1)
Rh(1)	N(1)	C(11)	119.0(6)	C(3)	C(21)	C(22)	124.1(8)
N(2)	N(1)	C(11)	119.9(8)	N(3)	C(21)	C(29)	114.6(8)
Rh(2)	N(2)	N(1)	119.7(6)	C(22)	C(21)	C(29)	121.3(9)
Rh(2)	N(2)	C(14)	120.5(6)	C(21)	C(22)	C(23)	118.0(9)
N(1)	N(2)	C(14)	119.7(8)	C(21)	C(22)	C(25)	124.5(9)
Rh(3)	N(3)	N(4)	120.5(5)	C(23)	C(22)	C(25)	117.4(8)
Rh(3)	N(3)	C(21)	120.8(6)	C(22)	C(23)	C(24)	116.3(8)
N(4)	N(3)	C(21)	118.5(7)	C(22)	C(23)	C(28)	121.5(9)
Rh(4)	N(4)	N(3)	119.1(5)	C(24)	C(23)	C(28)	122.2(9)
Rh(4)	N(4)	C(24)	120.5(6)	N(4)	C(24)	C(23)	122.5(8)
N(3)	N(4)	C(24)	120.4(8)	N(4)	C(24)	C(30)	119.3(9)
Rh(1)	C(1)	Rh(2)	105.8(4)	C(23)	C(24)	C(30)	118.2(8)
Rh(1)	C(1)	Rh(3)	82.1(4)	C(22)	C(25)	C(26)	120(1)
Rh(1)	C(1)	Rh(4)	80.2(3)	C(25)	C(26)	C(27)	122(1)
Rh(1)	C(1)	C(2)	139.8(9)	C(26)	C(27)	C(28)	121(1)
Rh(2)	C(1)	Rh(3)	84.3(3)	C(23)	C(28)	C(27)	118.5(9)
Rh(2)	C(1)	Rh(4)	171.0(5)	P(3)	C(29)	C(21)	111.2(7)
Rh(2)	C(1)	C(2)	85.2(6)	P(4)	C(30)	C(24)	112.2(7)
Rh(3)	C(1)	Rh(4)	103.3(4)	N(1)	C(11)	C(12)	123.5(8)
Rh(3)	C(1)	C(2)	138.0(8)	N(1)	C(11)	C(19)	115.4(8)
Rh(4)	C(1)	C(2)	86.0(6)	C(12)	C(11)	C(19)	121.0(9)
Rh(1)	C(01)	O(01)	172.9(8)	C(11)	C(12)	C(13)	116.5(9)
C(1)	C(2)	C(3)	173(1)	C(11)	C(12)	C(15)	124.2(9)
Rh(2)	C(02)	O(02)	179(1)	C(13)	C(12)	C(15)	119.2(9)
Rh(3)	C(03)	O(03)	172(1)	C(12)	C(13)	C(14)	117.3(9)
C(2)	C(3)	C(4)	122(1)	C(12)	C(13)	C(18)	119(1)
C(2)	C(3)	C(8)	120(1)	C(14)	C(13)	C(18)	123.6(9)
C(4)	C(3)	C(8)	118(1)	N(2)	C(14)	C(13)	122.9(9)
C(3)	C(4)	C(5)	120(1)	N(2)	C(14)	C(20)	116(1)
Rh(4)	C(04)	O(04)	176.4(9)	C(13)	C(14)	C(20)	121(1)
C(4)	C(5)	C(6)	122(2)	C(12)	C(15)	C(16)	117.9(9)
C(5)	C(6)	C(7)	118(1)	C(15)	C(16)	C(17)	123(1)
C(5)	C(6)	C(9)	120(2)	C(16)	C(17)	C(18)	120(1)

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(13)	C(18)	C(17)	120(1)	P(1)	C(31)	C(36)	123(1)
P(1)	C(19)	C(11)	107.8(7)	C(32)	C(31)	C(36)	119(1)
P(2)	C(20)	C(14)	112.6(9)	C(31)	C(32)	C(33)	121(1)
P(3)	C(71)	C(72)	120.4(8)	C(32)	C(33)	C(34)	119(2)
P(3)	C(71)	C(76)	121.0(9)	C(33)	C(34)	C(35)	121(2)
C(72)	C(71)	C(76)	119(1)	C(34)	C(35)	C(36)	120(1)
C(71)	C(72)	C(73)	118(1)	C(31)	C(36)	C(35)	120(1)
C(72)	C(73)	C(74)	121(1)	P(1)	C(41)	C(42)	121.0(8)
C(73)	C(74)	C(75)	122(1)	P(1)	C(41)	C(46)	121.6(8)
C(74)	C(75)	C(76)	119(1)	C(42)	C(41)	C(46)	117.2(9)
C(71)	C(76)	C(75)	122(1)	C(41)	C(42)	C(43)	121(1)
P(3)	C(81)	C(82)	119.9(8)	C(42)	C(43)	C(44)	120(1)
P(3)	C(81)	C(86)	120.9(7)	C(43)	C(44)	C(45)	120(1)
C(82)	C(81)	C(86)	119.2(9)	C(44)	C(45)	C(46)	120(1)
C(81)	C(82)	C(83)	119(1)	C(41)	C(46)	C(45)	122(1)
C(82)	C(83)	C(84)	121(1)	P(2)	C(51)	C(52)	119.9(9)
C(83)	C(84)	C(85)	118(1)	P(2)	C(51)	C(56)	123(1)
C(84)	C(85)	C(86)	123(1)	C(52)	C(51)	C(56)	117(1)
C(81)	C(86)	C(85)	120(1)	C(51)	C(52)	C(53)	120(1)
P(4)	C(91)	C(92)	121(1)	C(52)	C(53)	C(54)	122(2)
P(4)	C(91)	C(96)	119.7(9)	C(53)	C(54)	C(55)	120(2)
C(92)	C(91)	C(96)	120(1)	C(54)	C(55)	C(56)	120(2)
C(91)	C(92)	C(93)	121(2)	C(51)	C(56)	C(55)	120(2)
C(92)	C(93)	C(94)	121(2)	P(2)	C(61)	C(62)	123.9(9)
C(93)	C(94)	C(95)	120(2)	P(2)	C(61)	C(66)	122.6(9)
C(94)	C(95)	C(96)	120(2)	C(62)	C(61)	C(66)	114(1)
C(91)	C(96)	C(95)	119(1)	C(61)	C(62)	C(63)	123(1)
P(4)	C(101)	C(102)	121.3(8)	C(62)	C(63)	C(64)	121(2)
P(4)	C(101)	C(106)	119(1)	C(63)	C(64)	C(65)	120(2)
C(102)	C(101)	C(106)	120(1)	C(64)	C(65)	C(66)	119(1)
C(101)	C(102)	C(103)	122(1)	C(61)	C(66)	C(65)	123(1)
C(102)	C(103)	C(104)	120(2)	Cl(1)	C(111)	Cl(2)	122(1)
C(103)	C(104)	C(105)	119(2)	Cl(3)	C(112)	Cl(4)	127(2)
C(104)	C(105)	C(106)	123(1)	Cl(3A)	C(112)	Cl(4A)	119(2)
C(101)	C(106)	C(105)	115(1)	F(1)	B(1)	F(2)	108(1)
P(1)	C(31)	C(32)	117.7(8)	F(1)	B(1)	F(3)	113(2)

Table S8. Interatomic distances (Å) and bond angles (deg) for **11**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
F(1)	B(1)	F(4)	108(1)				
F(2)	B(1)	F(3)	111(1)				
F(2)	B(1)	F(4)	107(1)				
F(3)	B(1)	F(4)	110(1)				
F(5)	B(2)	F(6)	110(1)				
F(5)	B(2)	F(7)	108(2)				
F(5)	B(2)	F(8)	108(1)				
F(6)	B(2)	F(7)	113(1)				
F(6)	B(2)	F(8)	112(2)				
F(7)	B(2)	F(8)	106(1)				
F(9)	B(3)	F(10)	97(1)				
F(9)	B(3)	F(11)	108(1)				
F(9)	B(3)	F(12)	115(1)				
F(10)	B(3)	F(11)	100(2)				
F(10)	B(3)	F(12)	116(1)				
F(10A)	B(3)	F(11A)	110(2)				
F(10A)	B(3)	F(12A)	109(2)				
F(11)	B(3)	F(12)	117(2)				
F(11A)	B(3)	F(12A)	103(2)				

Table S9. Interatomic distances (Å) and bond angles (deg) for **12**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.254(2)	C(106)	C(107)	1.40(1)
Rh(1)	N(1)	2.088(6)	C(107)	C(108)	1.35(1)
Rh(1)	C(01)	1.82(1)	C(111)	C(112)	1.389(9)
Rh(1)	C(1)	2.015(6)	C(111)	C(116)	1.38(1)
Rh(2)	P(2)	2.234(2)	C(112)	C(113)	1.39(1)
Rh(2)	N(2)	2.110(6)	C(113)	C(114)	1.33(2)
Rh(2)	C(1)	2.195(8)	C(114)	C(115)	1.41(1)
Rh(2)	C(02)	1.80(1)	C(115)	C(116)	1.40(2)
P(1)	C(109)	1.825(8)	C(121)	C(122)	1.39(1)
P(1)	C(111)	1.818(9)	C(121)	C(126)	1.36(1)
P(1)	C(121)	1.829(8)	C(122)	C(123)	1.38(1)
P(2)	C(110)	1.837(9)	C(123)	C(124)	1.38(2)
P(2)	C(131)	1.824(9)	C(124)	C(125)	1.34(1)
P(2)	C(141)	1.784(8)	C(125)	C(126)	1.36(1)
F(1)	B(1)	1.35(3)	C(131)	C(132)	1.38(1)
F(1A)	B(1)	1.51(3)	C(131)	C(136)	1.41(1)
F(2)	B(1)	1.30(2)	C(132)	C(133)	1.38(1)
F(2A)	B(1)	1.43(2)	C(133)	C(134)	1.38(2)
F(3)	B(1)	1.28(2)	C(134)	C(135)	1.40(2)
F(3A)	B(1)	1.30(2)	C(135)	C(136)	1.35(2)
F(4)	B(1)	1.44(3)	C(141)	C(142)	1.41(1)
O(01)	C(01)	1.14(1)	C(141)	C(146)	1.38(1)
O(02)	C(02)	1.12(1)	C(142)	C(143)	1.37(2)
O(201)	C(202)	1.27(4)	C(143)	C(144)	1.35(2)
N(1)	N(2)	1.379(8)	C(144)	C(145)	1.40(2)
N(1)	C(101)	1.305(8)	C(145)	C(146)	1.39(2)
N(2)	C(104)	1.351(9)	C(201)	C(202)	1.42(6)
C(1)	C(1*)	1.23(1)	C(202)	C(203)	1.49(6)
C(101)	C(102)	1.44(1)			
C(101)	C(109)	1.49(1)	Rh(1)	Rh(2)	3.1967(9)
C(102)	C(103)	1.40(1)	Rh(2)	Rh(2)	3.009(3)
C(102)	C(105)	1.42(1)			
C(103)	C(104)	1.42(1)			
C(103)	C(108)	1.41(1)			
C(104)	C(110)	1.51(1)			
C(105)	C(106)	1.37(1)			

Table S9. Interatomic distances (Å) and bond angles (deg) for **12**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	N(1)	80.1(1)	N(1)	C(101)	C(109)	114.4(6)
P(1)	Rh(1)	C(01)	98.2(3)	C(102)	C(101)	C(109)	124.4(6)
P(1)	Rh(1)	C(1)	170.7(3)	C(101)	C(102)	C(103)	118.7(6)
N(1)	Rh(1)	C(01)	178.2(3)	C(101)	C(102)	C(105)	122.8(7)
N(1)	Rh(1)	C(1)	93.7(2)	C(103)	C(102)	C(105)	118.5(7)
C(01)	Rh(1)	C(1)	88.0(3)	C(102)	C(103)	C(104)	117.5(6)
P(2)	Rh(2)	N(2)	79.9(2)	C(102)	C(103)	C(108)	120.6(6)
P(2)	Rh(2)	C(1)	169.2(2)	C(104)	C(103)	C(108)	121.9(7)
P(2)	Rh(2)	C(02)	95.5(4)	N(2)	C(104)	C(103)	120.5(7)
N(2)	Rh(2)	C(1)	89.9(3)	N(2)	C(104)	C(110)	115.2(6)
N(2)	Rh(2)	C(02)	173.0(4)	C(103)	C(104)	C(110)	124.3(6)
C(1)	Rh(2)	C(02)	95.0(4)	C(102)	C(105)	C(106)	119.9(7)
Rh(1)	P(1)	C(109)	98.7(2)	C(105)	C(106)	C(107)	120.5(8)
Rh(1)	P(1)	C(111)	117.2(2)	C(106)	C(107)	C(108)	121.3(8)
Rh(1)	P(1)	C(121)	122.2(2)	C(103)	C(108)	C(107)	119.2(7)
C(109)	P(1)	C(111)	104.0(4)	P(1)	C(109)	C(101)	109.7(5)
C(109)	P(1)	C(121)	105.7(4)	P(2)	C(110)	C(104)	107.7(5)
C(111)	P(1)	C(121)	106.5(3)	P(1)	C(111)	C(112)	120.7(7)
Rh(2)	P(2)	C(110)	100.8(3)	P(1)	C(111)	C(116)	119.2(5)
Rh(2)	P(2)	C(131)	116.5(3)	C(112)	C(111)	C(116)	120.1(8)
Rh(2)	P(2)	C(141)	120.7(3)	C(111)	C(112)	C(113)	120.2(9)
C(110)	P(2)	C(131)	106.6(4)	C(112)	C(113)	C(114)	121.6(8)
C(110)	P(2)	C(141)	104.0(4)	C(113)	C(114)	C(115)	118(1)
C(131)	P(2)	C(141)	106.5(4)	C(114)	C(115)	C(116)	121(1)
Rh(1)	N(1)	N(2)	115.3(4)	C(111)	C(116)	C(115)	118.2(8)
Rh(1)	N(1)	C(101)	123.7(5)	P(1)	C(121)	C(122)	117.8(6)
N(2)	N(1)	C(101)	120.5(6)	P(1)	C(121)	C(126)	123.8(6)
Rh(2)	N(2)	N(1)	116.0(4)	C(122)	C(121)	C(126)	118.4(7)
Rh(2)	N(2)	C(104)	122.2(5)	C(121)	C(122)	C(123)	120.6(9)
N(1)	N(2)	C(104)	121.3(5)	C(122)	C(123)	C(124)	119.3(9)
Rh(1)	C(01)	O(01)	179(1)	C(123)	C(124)	C(125)	119.4(9)
Rh(1)	C(1)	Rh(2)	98.7(3)	C(124)	C(125)	C(126)	122(1)
Rh(1)	C(1)	C(1)	159.0(5)	C(121)	C(126)	C(125)	120.2(8)
Rh(2)	C(1)	C(1)	102.2(4)	P(2)	C(131)	C(132)	120.1(6)
Rh(2)	C(02)	O(02)	179(1)	P(2)	C(131)	C(136)	121.2(6)
N(1)	C(101)	C(102)	121.2(6)	C(132)	C(131)	C(136)	118.6(8)

Table S9. Interatomic distances (Å) and bond angles (deg) for **12**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(131)	C(132)	C(133)	122.1(8)				
C(132)	C(133)	C(134)	118(1)				
C(133)	C(134)	C(135)	120(1)				
C(134)	C(135)	C(136)	122(1)				
C(131)	C(136)	C(135)	119.5(9)				
P(2)	C(141)	C(142)	117.2(7)				
P(2)	C(141)	C(146)	124.3(7)				
C(142)	C(141)	C(146)	118.5(8)				
C(141)	C(142)	C(143)	122(1)				
C(142)	C(143)	C(144)	120(1)				
C(143)	C(144)	C(145)	120(1)				
C(144)	C(145)	C(146)	120(1)				
C(141)	C(146)	C(145)	120(1)				
O(201)	C(202)	C(201)	109(4)				
O(201)	C(202)	C(203)	125(3)				
C(201)	C(202)	C(203)	125(3)				
F(1)	B(1)	F(2)	102(1)				
F(1)	B(1)	F(3)	111(2)				
F(1)	B(1)	F(4)	96(2)				
F(1A)	B(1)	F(2A)	104(1)				
F(1A)	B(1)	F(3A)	113(2)				
F(1A)	B(1)	F(4A)	93(2)				
F(2)	B(1)	F(3)	114(2)				
F(2)	B(1)	F(4)	118(2)				
F(2A)	B(1)	F(3A)	107(1)				
F(2A)	B(1)	F(4A)	122(2)				
F(3)	B(1)	F(4)	114(1)				
F(3A)	B(1)	F(4A)	116(2)				

Table S10. Interatomic distances (Å) and bond angles (deg) for **13**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.194(2)	C(12)	C(13)	1.41(1)
Rh(1)	O(02)	2.154(4)	C(13)	C(14)	1.34(1)
Rh(1)	N(1)	2.143(6)	C(14)	C(15)	1.40(1)
Rh(1)	C(01)	1.819(9)	C(14)	C(17)	1.53(1)
Rh(2)	P(2)	2.241(2)	C(15)	C(16)	1.41(1)
Rh(2)	O(1*)	2.241(5)	C(21)	C(22)	1.37(1)
Rh(2)	O(02)	2.143(5)	C(21)	C(26)	1.42(1)
Rh(2)	N(2)	2.226(5)	C(22)	C(23)	1.37(1)
Rh(2)	C(1)	1.966(6)	C(23)	C(24)	1.40(1)
Rh(2)	C(4)	1.965(8)	C(24)	C(25)	1.37(2)
P(1)	C(109)	1.83(1)	C(24)	C(27)	1.50(2)
P(1)	C(111)	1.820(9)	C(25)	C(26)	1.36(1)
P(1)	C(121)	1.795(9)	C(101)	C(102)	1.46(1)
P(2)	C(110)	1.837(9)	C(101)	C(109)	1.47(1)
P(2)	C(131)	1.810(7)	C(102)	C(103)	1.39(1)
P(2)	C(141)	1.819(9)	C(102)	C(105)	1.42(1)
F(1)	B(1)	1.40(1)	C(103)	C(104)	1.44(1)
F(2)	B(1)	1.40(2)	C(103)	C(108)	1.41(1)
F(3)	B(1)	1.36(2)	C(104)	C(110)	1.49(1)
F(4)	B(1)	1.30(2)	C(105)	C(106)	1.37(2)
O(1)	C(1)	1.23(1)	C(106)	C(107)	1.39(1)
O(01)	C(01)	1.15(1)	C(107)	C(108)	1.39(1)
O(4)	C(4)	1.22(1)	C(111)	C(112)	1.38(2)
O(201)	C(202)	1.23(2)	C(111)	C(116)	1.39(2)
O(301)	C(302)	1.25(4)	C(112)	C(113)	1.42(3)
O(301)	C(303)	1.71(6)	C(113)	C(114)	1.45(4)
N(1)	N(2)	1.394(8)	C(114)	C(115)	1.38(4)
N(1)	C(101)	1.324(9)	C(115)	C(116)	1.40(2)
N(2)	C(104)	1.32(1)	C(121)	C(122)	1.41(1)
C(1)	C(2)	1.51(1)	C(121)	C(126)	1.40(2)
C(2)	C(3)	1.38(1)	C(122)	C(123)	1.37(2)
C(2)	C(11)	1.490(9)	C(123)	C(124)	1.35(3)
C(3)	C(4)	1.522(9)	C(124)	C(125)	1.37(2)
C(3)	C(21)	1.46(1)	C(125)	C(126)	1.42(2)
C(11)	C(12)	1.40(1)	C(131)	C(132)	1.39(1)
C(11)	C(16)	1.40(1)	C(131)	C(136)	1.41(1)

Table S10. Interatomic distances (Å) and bond angles (deg) for **13**. (contn'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(132)	C(133)	1.40(1)			
C(133)	C(134)	1.37(1)			
C(134)	C(135)	1.37(2)			
C(135)	C(136)	1.38(1)			
C(141)	C(142)	1.39(1)			
C(141)	C(146)	1.41(1)			
C(142)	C(143)	1.39(1)			
C(143)	C(144)	1.37(2)			
C(144)	C(145)	1.38(2)			
C(145)	C(146)	1.38(2)			
C(201)	C(202)	1.45(2)			
C(202)	C(203)	1.44(2)			
C(301)	C(302)	1.54(7)			
C(303)	C(304)	1.78(7)			
Rh(1)	Rh(2)	3.5980(8)			
Rh(2)	Rh(2)	3.867(2)			

Table S10. Interatomic distances (Å) and bond angles (deg) for **13**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	O(02)	176.4(2)	Rh(1)	N(1)	N(2)	119.5(4)
P(1)	Rh(1)	N(1)	83.6(2)	Rh(1)	N(1)	C(101)	119.1(5)
P(1)	Rh(1)	C(01)	88.5(3)	N(2)	N(1)	C(101)	121.1(6)
O(02)	Rh(1)	N(1)	92.8(2)	Rh(2)	N(2)	N(1)	121.0(4)
O(02)	Rh(1)	C(01)	95.0(3)	Rh(2)	N(2)	C(104)	118.3(4)
N(1)	Rh(1)	C(01)	171.3(3)	N(1)	N(2)	C(104)	120.5(5)
P(2)	Rh(2)	O(1)	95.7(1)	Rh(2)	C(1)	O(1)	125.0(5)
P(2)	Rh(2)	O(02)	171.2(1)	Rh(2)	C(1)	C(2)	115.4(5)
P(2)	Rh(2)	N(2)	81.4(2)	O(1)	C(1)	C(2)	119.2(6)
P(2)	Rh(2)	C(1)	99.9(2)	Rh(1)	C(01)	O(01)	175.8(8)
P(2)	Rh(2)	C(4)	85.9(2)	C(1)	C(2)	C(3)	114.1(6)
O(1)	Rh(2)	O(02)	81.5(2)	C(1)	C(2)	C(11)	120.4(7)
O(1)	Rh(2)	N(2)	83.1(2)	C(3)	C(2)	C(11)	125.5(7)
O(1)	Rh(2)	C(1)	100.7(3)	C(2)	C(3)	C(4)	112.4(6)
O(1)	Rh(2)	C(4)	176.9(2)	C(2)	C(3)	C(21)	127.3(6)
O(02)	Rh(2)	N(2)	90.0(2)	C(4)	C(3)	C(21)	120.3(7)
O(02)	Rh(2)	C(1)	88.8(2)	Rh(2)	C(4)	O(4)	123.8(5)
O(02)	Rh(2)	C(4)	96.6(2)	Rh(2)	C(4)	C(3)	115.7(6)
N(2)	Rh(2)	C(1)	175.7(3)	O(4)	C(4)	C(3)	120.5(7)
N(2)	Rh(2)	C(4)	94.4(3)	C(2)	C(11)	C(12)	122.2(7)
C(1)	Rh(2)	C(4)	81.7(3)	C(2)	C(11)	C(16)	120.7(7)
Rh(1)	P(1)	C(109)	102.2(3)	C(12)	C(11)	C(16)	117.2(7)
Rh(1)	P(1)	C(111)	119.4(3)	C(11)	C(12)	C(13)	120.2(8)
Rh(1)	P(1)	C(121)	118.5(3)	C(12)	C(13)	C(14)	122.1(9)
C(109)	P(1)	C(111)	104.3(5)	C(13)	C(14)	C(15)	120.0(8)
C(109)	P(1)	C(121)	107.9(4)	C(13)	C(14)	C(17)	121.9(9)
C(111)	P(1)	C(121)	103.3(4)	C(15)	C(14)	C(17)	118.1(9)
Rh(2)	P(2)	C(110)	99.6(3)	C(14)	C(15)	C(16)	118.4(8)
Rh(2)	P(2)	C(131)	123.6(2)	C(11)	C(16)	C(15)	122.1(9)
Rh(2)	P(2)	C(141)	116.9(3)	C(3)	C(21)	C(22)	121.5(6)
C(110)	P(2)	C(131)	105.3(4)	C(3)	C(21)	C(26)	121.1(8)
C(110)	P(2)	C(141)	104.2(4)	C(22)	C(21)	C(26)	117.4(8)
C(131)	P(2)	C(141)	104.8(3)	C(21)	C(22)	C(23)	120.7(7)
Rh(2)	O(1)	C(1)	132.4(4)	C(22)	C(23)	C(24)	122(1)
Rh(1)	O(02)	Rh(2)	113.7(2)	C(23)	C(24)	C(25)	117.6(9)
C(302)	O(301)	C(303)	120(4)	C(23)	C(24)	C(27)	120(1)

Table S10. Interatomic distances (Å) and bond angles (deg) for **13**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(25)	C(24)	C(27)	122.0(9)	C(121)	C(126)	C(125)	118(1)
C(24)	C(25)	C(26)	121.1(8)	P(2)	C(131)	C(132)	120.8(5)
C(21)	C(26)	C(25)	121.3(9)	P(2)	C(131)	C(136)	119.5(7)
N(1)	C(101)	C(102)	120.6(7)	C(132)	C(131)	C(136)	119.3(7)
N(1)	C(101)	C(109)	119.0(7)	C(131)	C(132)	C(133)	119.2(8)
C(102)	C(101)	C(109)	120.4(7)	C(132)	C(133)	C(134)	121(1)
C(101)	C(102)	C(103)	118.3(7)	C(133)	C(134)	C(135)	120.1(9)
C(101)	C(102)	C(105)	121.3(8)	C(134)	C(135)	C(136)	120.8(8)
C(103)	C(102)	C(105)	120.2(8)	C(131)	C(136)	C(135)	119.8(9)
C(102)	C(103)	C(104)	117.6(8)	P(2)	C(141)	C(142)	119.5(6)
C(102)	C(103)	C(108)	120.3(7)	P(2)	C(141)	C(146)	120.0(7)
C(104)	C(103)	C(108)	122.0(7)	C(142)	C(141)	C(146)	120.5(8)
N(2)	C(104)	C(103)	121.7(6)	C(141)	C(142)	C(143)	120.0(7)
N(2)	C(104)	C(110)	117.3(6)	C(142)	C(143)	C(144)	120.5(8)
C(103)	C(104)	C(110)	121.0(7)	C(143)	C(144)	C(145)	119(1)
C(102)	C(105)	C(106)	118.6(9)	C(144)	C(145)	C(146)	123(1)
C(105)	C(106)	C(107)	121.7(8)	C(141)	C(146)	C(145)	117(1)
C(106)	C(107)	C(108)	120(1)	O(201)	C(202)	C(201)	120(1)
C(103)	C(108)	C(107)	118.6(8)	O(201)	C(202)	C(203)	123(1)
P(1)	C(109)	C(101)	113.5(6)	C(201)	C(202)	C(203)	117(2)
P(2)	C(110)	C(104)	113.2(6)	O(301)	C(302)	C(301)	100(3)
P(1)	C(111)	C(112)	117.2(9)	O(301)	C(303)	C(304)	100(4)
P(1)	C(111)	C(116)	121.0(9)	F(1)	B(1)	F(2)	108.1(9)
C(112)	C(111)	C(116)	122(1)	F(1)	B(1)	F(3)	110(1)
C(111)	C(112)	C(113)	119(2)	F(1)	B(1)	F(4)	113(1)
C(112)	C(113)	C(114)	118(2)	F(2)	B(1)	F(3)	106(1)
C(113)	C(114)	C(115)	121(2)	F(2)	B(1)	F(4)	110(1)
C(114)	C(115)	C(116)	119(2)	F(3)	B(1)	F(4)	110(1)
C(111)	C(116)	C(115)	121(1)				
P(1)	C(121)	C(122)	121.2(8)				
P(1)	C(121)	C(126)	120.4(6)				
C(122)	C(121)	C(126)	118.3(9)				
C(121)	C(122)	C(123)	121(1)				
C(122)	C(123)	C(124)	122(1)				
C(123)	C(124)	C(125)	120(1)				
C(124)	C(125)	C(126)	121(2)				

Table S11. Interatomic distances (Å) and bond angles (deg) for **14**.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.374(2)	O(22)	C(24)	1.46(1)
Rh(1)	O(1)	2.226(6)	O(23)	C(26)	1.209(9)
Rh(1)	N(1)	2.153(4)	O(24)	C(26)	1.344(8)
Rh(1)	C(01)	1.886(7)	O(24)	C(27)	1.45(2)
Rh(1)	C(11)	2.119(5)	O(201)	C(202)	1.23(1)
Rh(1)	C(21)	2.044(8)	O(202)	C(205)	1.23(2)
Rh(2)	P(2)	2.367(2)	O(203)	C(208)	1.19(2)
Rh(2)	O(2)	2.251(4)	N(1)	N(2)	1.405(6)
Rh(2)	N(2)	2.141(6)	N(1)	C(101)	1.306(8)
Rh(2)	C(02)	1.879(8)	N(2)	C(104)	1.325(7)
Rh(2)	C(12)	2.021(6)	C(11)	C(12)	1.331(8)
Rh(2)	C(22)	2.116(5)	C(11)	C(13)	1.49(1)
P(1)	C(109)	1.842(7)	C(12)	C(16)	1.490(8)
P(1)	C(111)	1.826(7)	C(14)	C(15)	1.48(2)
P(1)	C(121)	1.808(8)	C(17)	C(18)	1.35(2)
P(2)	C(110)	1.841(6)	C(21)	C(22)	1.321(8)
P(2)	C(131)	1.819(9)	C(21)	C(23)	1.508(9)
P(2)	C(141)	1.829(7)	C(22)	C(26)	1.50(1)
F(1)	B(1)	1.39(1)	C(24)	C(25)	1.45(2)
F(2)	B(1)	1.34(1)	C(27)	C(28)	1.41(2)
F(3)	B(1)	1.38(1)	C(101)	C(102)	1.430(8)
F(4)	B(1)	1.38(1)	C(101)	C(109)	1.510(7)
F(5)	B(2)	1.30(1)	C(102)	C(103)	1.404(7)
F(6)	B(2)	1.36(1)	C(102)	C(105)	1.41(1)
F(7)	B(2)	1.40(2)	C(103)	C(104)	1.435(9)
F(8)	B(2)	1.32(1)	C(103)	C(108)	1.406(9)
O(01)	C(01)	1.134(8)	C(104)	C(110)	1.521(8)
O(02)	C(02)	1.13(1)	C(105)	C(106)	1.376(9)
O(11)	C(13)	1.23(1)	C(106)	C(107)	1.365(9)
O(12)	C(13)	1.33(1)	C(107)	C(108)	1.38(1)
O(12)	C(14)	1.46(1)	C(111)	C(112)	1.400(9)
O(13)	C(16)	1.22(1)	C(111)	C(116)	1.40(1)
O(14)	C(16)	1.34(1)	C(112)	C(113)	1.39(1)
O(14)	C(17)	1.48(1)	C(113)	C(114)	1.40(1)
O(21)	C(23)	1.222(8)	C(114)	C(115)	1.35(1)
O(22)	C(23)	1.33(1)	C(115)	C(116)	1.37(1)

Table S11. Interatomic distances (Å) and bond angles (deg) for **14**. (contn'd.)

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
C(121)	C(122)	1.411(9)			
C(121)	C(126)	1.41(1)			
C(122)	C(123)	1.38(2)			
C(123)	C(124)	1.37(1)			
C(124)	C(125)	1.42(1)			
C(125)	C(126)	1.39(1)			
C(131)	C(132)	1.41(1)			
C(131)	C(136)	1.399(9)			
C(132)	C(133)	1.37(2)			
C(133)	C(134)	1.39(1)			
C(134)	C(135)	1.35(2)			
C(135)	C(136)	1.37(2)			
C(141)	C(142)	1.385(9)			
C(141)	C(146)	1.40(1)			
C(142)	C(143)	1.38(1)			
C(143)	C(144)	1.36(1)			
C(144)	C(145)	1.40(1)			
C(145)	C(146)	1.37(1)			
C(201)	C(202)	1.47(1)			
C(202)	C(203)	1.47(1)			
C(204)	C(205)	1.50(1)			
C(205)	C(206)	1.48(2)			
C(207)	C(208)	1.52(2)			
C(208)	C(209)	1.51(2)			
Rh(1)	Rh(2)	3.6408(6)			

Table S11. Interatomic distances (Å) and bond angles (deg) for **14**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	O(1)	83.2(1)	Rh(2)	P(2)	C(110)	96.9(2)
P(1)	Rh(1)	N(1)	79.7(1)	Rh(2)	P(2)	C(131)	122.5(2)
P(1)	Rh(1)	C(01)	97.8(2)	Rh(2)	P(2)	C(141)	118.8(3)
P(1)	Rh(1)	C(11)	172.7(2)	C(110)	P(2)	C(131)	103.8(4)
P(1)	Rh(1)	C(21)	93.6(2)	C(110)	P(2)	C(141)	106.6(3)
O(1)	Rh(1)	N(1)	81.8(2)	C(131)	P(2)	C(141)	105.6(3)
O(1)	Rh(1)	C(01)	96.7(3)	C(13)	O(12)	C(14)	117.2(8)
O(1)	Rh(1)	C(11)	91.5(2)	C(16)	O(14)	C(17)	117.2(7)
O(1)	Rh(1)	C(21)	173.2(2)	C(23)	O(22)	C(24)	117.3(6)
N(1)	Rh(1)	C(01)	177.2(2)	C(26)	O(24)	C(27)	115.8(7)
N(1)	Rh(1)	C(11)	94.6(2)	Rh(1)	N(1)	N(2)	118.5(3)
N(1)	Rh(1)	C(21)	91.7(2)	Rh(1)	N(1)	C(101)	120.1(3)
C(01)	Rh(1)	C(11)	87.7(2)	N(2)	N(1)	C(101)	120.1(4)
C(01)	Rh(1)	C(21)	89.7(3)	Rh(2)	N(2)	N(1)	119.7(3)
C(11)	Rh(1)	C(21)	91.1(3)	Rh(2)	N(2)	C(104)	120.2(4)
P(2)	Rh(2)	O(2)	83.2(1)	N(1)	N(2)	C(104)	119.5(5)
P(2)	Rh(2)	N(2)	79.7(1)	Rh(1)	C(01)	O(01)	173.0(8)
P(2)	Rh(2)	C(02)	96.9(2)	Rh(2)	C(02)	O(02)	175.0(6)
P(2)	Rh(2)	C(12)	93.4(2)	Rh(1)	C(11)	C(12)	126.4(5)
P(2)	Rh(2)	C(22)	173.1(1)	Rh(1)	C(11)	C(13)	110.7(4)
O(2)	Rh(2)	N(2)	85.7(2)	C(12)	C(11)	C(13)	122.9(5)
O(2)	Rh(2)	C(02)	92.4(2)	Rh(2)	C(12)	C(11)	121.1(4)
O(2)	Rh(2)	C(12)	176.1(2)	Rh(2)	C(12)	C(16)	116.5(4)
O(2)	Rh(2)	C(22)	91.9(2)	C(11)	C(12)	C(16)	122.4(6)
N(2)	Rh(2)	C(02)	176.3(2)	O(11)	C(13)	O(12)	123.3(7)
N(2)	Rh(2)	C(12)	91.6(2)	O(11)	C(13)	C(11)	124.3(7)
N(2)	Rh(2)	C(22)	95.1(2)	O(12)	C(13)	C(11)	112.1(8)
C(02)	Rh(2)	C(12)	90.0(3)	O(12)	C(14)	C(15)	107(1)
C(02)	Rh(2)	C(22)	88.2(3)	O(13)	C(16)	O(14)	122.1(6)
C(12)	Rh(2)	C(22)	91.2(2)	O(13)	C(16)	C(12)	123.3(7)
Rh(1)	P(1)	C(109)	97.3(2)	O(14)	C(16)	C(12)	114.5(7)
Rh(1)	P(1)	C(111)	121.2(2)	O(14)	C(17)	C(18)	113.1(9)
Rh(1)	P(1)	C(121)	121.4(2)	Rh(1)	C(21)	C(22)	121.0(5)
C(109)	P(1)	C(111)	102.6(3)	Rh(1)	C(21)	C(23)	115.0(5)
C(109)	P(1)	C(121)	105.6(3)	C(22)	C(21)	C(23)	124.0(7)
C(111)	P(1)	C(121)	105.4(3)	Rh(2)	C(22)	C(21)	126.6(6)

Table S11. Interatomic distances (Å) and bond angles (deg) for **14**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
Rh(2)	C(22)	C(26)	112.0(4)	P(1)	C(121)	C(122)	121.9(6)
C(21)	C(22)	C(26)	121.4(6)	P(1)	C(121)	C(126)	119.2(5)
O(21)	C(23)	O(22)	123.4(6)	C(122)	C(121)	C(126)	118.8(8)
O(21)	C(23)	C(21)	124.1(8)	C(121)	C(122)	C(123)	120.2(8)
O(22)	C(23)	C(21)	112.5(5)	C(122)	C(123)	C(124)	120.7(8)
O(22)	C(24)	C(25)	110.9(8)	C(123)	C(124)	C(125)	121(1)
O(23)	C(26)	O(24)	122.9(8)	C(124)	C(125)	C(126)	119.1(9)
O(23)	C(26)	C(22)	125.0(6)	C(121)	C(126)	C(125)	120.6(7)
O(24)	C(26)	C(22)	111.9(6)	P(2)	C(131)	C(132)	120.0(5)
O(24)	C(27)	C(28)	109(1)	P(2)	C(131)	C(136)	123.7(7)
N(1)	C(101)	C(102)	122.3(5)	C(132)	C(131)	C(136)	116.3(8)
N(1)	C(101)	C(109)	117.6(5)	C(131)	C(132)	C(133)	121.0(7)
C(102)	C(101)	C(109)	120.1(5)	C(132)	C(133)	C(134)	121(1)
C(101)	C(102)	C(103)	117.8(6)	C(133)	C(134)	C(135)	118(1)
C(101)	C(102)	C(105)	122.7(5)	C(134)	C(135)	C(136)	122.4(8)
C(103)	C(102)	C(105)	119.4(5)	C(131)	C(136)	C(135)	121.2(8)
C(102)	C(103)	C(104)	116.8(5)	P(2)	C(141)	C(142)	122.7(6)
C(102)	C(103)	C(108)	119.4(6)	P(2)	C(141)	C(146)	117.6(5)
C(104)	C(103)	C(108)	123.7(5)	C(142)	C(141)	C(146)	119.6(6)
N(2)	C(104)	C(103)	122.4(5)	C(141)	C(142)	C(143)	119.4(7)
N(2)	C(104)	C(110)	118.1(6)	C(142)	C(143)	C(144)	121.6(7)
C(103)	C(104)	C(110)	119.5(5)	C(143)	C(144)	C(145)	119.5(7)
C(102)	C(105)	C(106)	119.7(5)	C(144)	C(145)	C(146)	120.0(8)
C(105)	C(106)	C(107)	120.6(7)	C(141)	C(146)	C(145)	120.0(7)
C(106)	C(107)	C(108)	121.5(6)	O(201)	C(202)	C(201)	120.6(9)
C(103)	C(108)	C(107)	119.3(5)	O(201)	C(202)	C(203)	122.2(8)
P(1)	C(109)	C(101)	113.6(5)	C(201)	C(202)	C(203)	117.3(9)
P(2)	C(110)	C(104)	110.3(4)	O(202)	C(205)	C(204)	119.5(9)
P(1)	C(111)	C(112)	121.2(5)	O(202)	C(205)	C(206)	121(1)
P(1)	C(111)	C(116)	118.7(5)	C(204)	C(205)	C(206)	120(1)
C(112)	C(111)	C(116)	120.2(6)	O(203)	C(208)	C(207)	124(1)
C(111)	C(112)	C(113)	119.7(7)	O(203)	C(208)	C(209)	120(1)
C(112)	C(113)	C(114)	118.2(8)	C(207)	C(208)	C(209)	116(1)
C(113)	C(114)	C(115)	122.0(9)	F(1)	B(1)	F(2)	110.1(7)
C(114)	C(115)	C(116)	120.5(8)	F(1)	B(1)	F(3)	104.5(6)
C(111)	C(116)	C(115)	119.5(7)	F(1)	B(1)	F(4)	108(1)

Table S11. Interatomic distances (Å) and bond angles (deg) for **14**. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
F(2)	B(1)	F(3)	114(1)				
F(2)	B(1)	F(4)	110.4(7)				
F(3)	B(1)	F(4)	109.7(8)				
F(5)	B(2)	F(6)	111(1)				
F(5)	B(2)	F(7)	100.0(9)				
F(5)	B(2)	F(8)	116.7(8)				
F(6)	B(2)	F(7)	107.6(7)				
F(6)	B(2)	F(8)	110.4(9)				
F(7)	B(2)	F(8)	110(1)				

Table S12. Interatomic distances (Å) and bond angles (deg) for [**3**·Rh(cod)]BF_4.

ATOM	ATOM	DISTANCE	ATOM	ATOM	DISTANCE
Rh(1)	P(1)	2.244(2)	C(24)	C(25)	1.38(1)
Rh(1)	N(1)	2.115(4)	C(25)	C(26)	1.385(9)
Rh(1)	C(31)	2.221(7)	C(31)	C(32)	1.35(1)
Rh(1)	C(32)	2.233(8)	C(31)	C(38)	1.48(1)
Rh(1)	C(35)	2.146(5)	C(32)	C(33)	1.50(1)
Rh(1)	C(36)	2.164(5)	C(33)	C(34)	1.54(1)
Cl(1)	C(4)	1.734(6)	C(34)	C(35)	1.53(1)
P(1)	C(9)	1.827(6)	C(35)	C(36)	1.365(8)
P(1)	C(11)	1.812(6)	C(36)	C(37)	1.54(1)
P(1)	C(21)	1.829(6)	C(37)	C(38)	1.55(1)
F(1)	B(1)	1.381(9)			
F(2)	B(1)	1.33(1)			
F(3)	B(1)	1.34(1)			
F(4)	B(1)	1.34(1)			
N(1)	N(2)	1.374(6)			
N(1)	C(1)	1.332(7)			
N(2)	C(4)	1.301(7)			
C(1)	C(2)	1.422(8)			
C(1)	C(9)	1.492(8)			
C(2)	C(3)	1.407(8)			
C(2)	C(5)	1.408(9)			
C(3)	C(4)	1.413(8)			
C(3)	C(8)	1.414(8)			
C(5)	C(6)	1.382(9)			
C(6)	C(7)	1.41(1)			
C(7)	C(8)	1.367(9)			
C(11)	C(12)	1.394(9)			
C(11)	C(16)	1.388(9)			
C(12)	C(13)	1.40(1)			
C(13)	C(14)	1.36(1)			
C(14)	C(15)	1.40(1)			
C(15)	C(16)	1.386(9)			
C(21)	C(22)	1.392(8)			
C(21)	C(26)	1.390(8)			
C(22)	C(23)	1.388(9)			
C(23)	C(24)	1.40(1)			

Table S12. Interatomic distances (Å) and bond angles (deg) for [**3**·Rh(cod)]BF_4. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
P(1)	Rh(1)	N(1)	80.6(1)	N(2)	C(4)	C(3)	126.0(5)
P(1)	Rh(1)	C(31)	156.5(2)	C(2)	C(5)	C(6)	119.2(6)
P(1)	Rh(1)	C(32)	167.5(2)	C(5)	C(6)	C(7)	121.0(6)
P(1)	Rh(1)	C(35)	96.2(2)	C(6)	C(7)	C(8)	120.5(6)
P(1)	Rh(1)	C(36)	97.7(2)	C(3)	C(8)	C(7)	119.3(6)
N(1)	Rh(1)	C(31)	91.7(2)	P(1)	C(9)	C(1)	110.6(4)
N(1)	Rh(1)	C(32)	97.7(2)	P(1)	C(11)	C(12)	119.0(5)
N(1)	Rh(1)	C(35)	163.8(2)	P(1)	C(11)	C(16)	120.6(4)
N(1)	Rh(1)	C(36)	159.0(2)	C(12)	C(11)	C(16)	119.9(5)
C(31)	Rh(1)	C(32)	35.2(3)	C(11)	C(12)	C(13)	119.0(6)
C(31)	Rh(1)	C(35)	97.0(2)	C(12)	C(13)	C(14)	121.9(6)
C(31)	Rh(1)	C(36)	81.6(2)	C(13)	C(14)	C(15)	118.6(6)
C(32)	Rh(1)	C(35)	82.0(3)	C(14)	C(15)	C(16)	121.0(7)
C(32)	Rh(1)	C(36)	88.3(2)	C(11)	C(16)	C(15)	119.5(6)
C(35)	Rh(1)	C(36)	36.9(2)	P(1)	C(21)	C(22)	120.9(4)
Rh(1)	P(1)	C(9)	99.9(2)	P(1)	C(21)	C(26)	119.3(4)
Rh(1)	P(1)	C(11)	121.1(2)	C(22)	C(21)	C(26)	119.7(5)
Rh(1)	P(1)	C(21)	116.2(2)	C(21)	C(22)	C(23)	120.0(6)
C(9)	P(1)	C(11)	107.2(3)	C(22)	C(23)	C(24)	119.9(6)
C(9)	P(1)	C(21)	104.2(3)	C(23)	C(24)	C(25)	120.0(6)
C(11)	P(1)	C(21)	106.3(3)	C(24)	C(25)	C(26)	120.4(7)
Rh(1)	N(1)	N(2)	116.4(3)	C(21)	C(26)	C(25)	120.1(6)
Rh(1)	N(1)	C(1)	121.5(3)	Rh(1)	C(31)	C(32)	72.9(4)
N(2)	N(1)	C(1)	122.0(4)	Rh(1)	C(31)	C(38)	105.8(5)
N(1)	N(2)	C(4)	117.4(5)	C(32)	C(31)	C(38)	128.6(7)
N(1)	C(1)	C(2)	121.2(5)	Rh(1)	C(32)	C(31)	71.9(4)
N(1)	C(1)	C(9)	116.0(5)	Rh(1)	C(32)	C(33)	110.2(5)
C(2)	C(1)	C(9)	122.7(5)	C(31)	C(32)	C(33)	126.1(6)
C(1)	C(2)	C(3)	117.5(5)	C(32)	C(33)	C(34)	114.0(6)
C(1)	C(2)	C(5)	122.8(5)	C(33)	C(34)	C(35)	113.5(6)
C(3)	C(2)	C(5)	119.6(5)	Rh(1)	C(35)	C(34)	108.4(4)
C(2)	C(3)	C(4)	115.8(5)	Rh(1)	C(35)	C(36)	72.3(3)
C(2)	C(3)	C(8)	120.4(5)	C(34)	C(35)	C(36)	125.8(5)
C(4)	C(3)	C(8)	123.8(5)	Rh(1)	C(36)	C(35)	70.8(3)
Cl(1)	C(4)	N(2)	113.8(4)	Rh(1)	C(36)	C(37)	111.6(5)
Cl(1)	C(4)	C(3)	120.2(4)	C(35)	C(36)	C(37)	125.9(6)

Table S12. Interatomic distances (Å) and bond angles (deg) for [**3**·Rh(cod)]BF_4. (cont'd.)

ATOM	ATOM	ATOM	ANGLE	ATOM	ATOM	ATOM	ANGLE
C(36)	C(37)	C(38)	111.7(6)				
C(31)	C(38)	C(37)	114.1(7)				
F(1)	B(1)	F(2)	107.4(7)				
F(1)	B(1)	F(3)	108.8(7)				
F(1)	B(1)	F(4)	109.5(6)				
F(2)	B(1)	F(3)	108.2(7)				

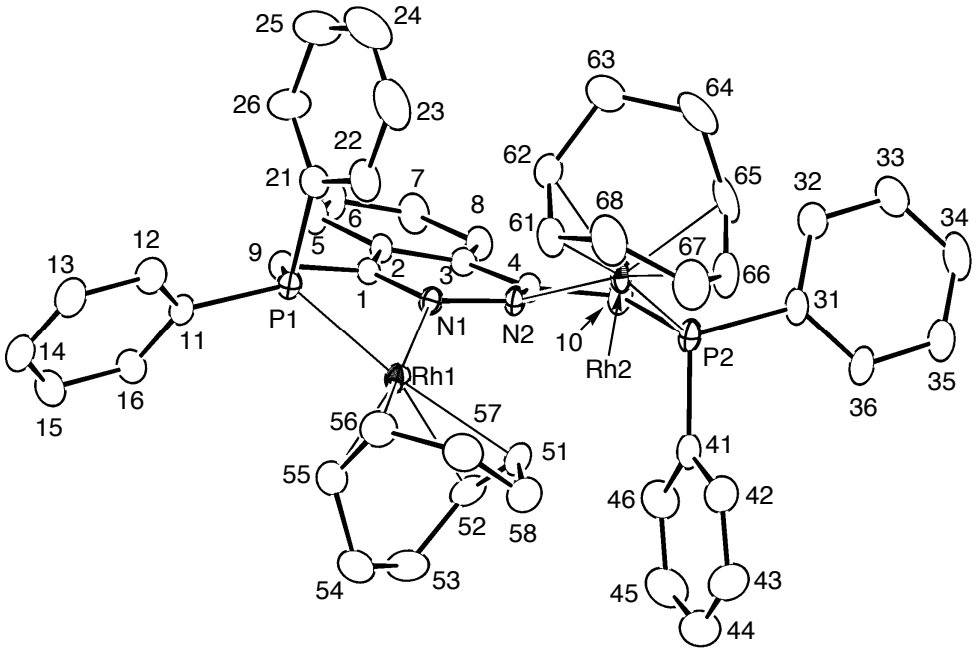


Figure S1. Molecular structure of the cationic part of **4a** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

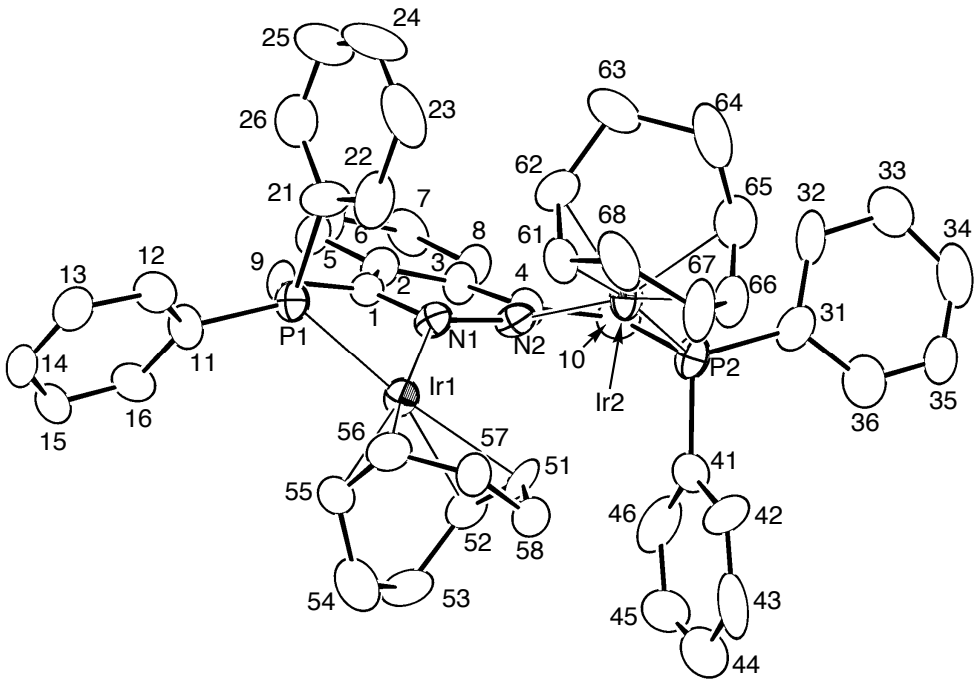


Figure S2. Molecular structure of the cationic part of **4b** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

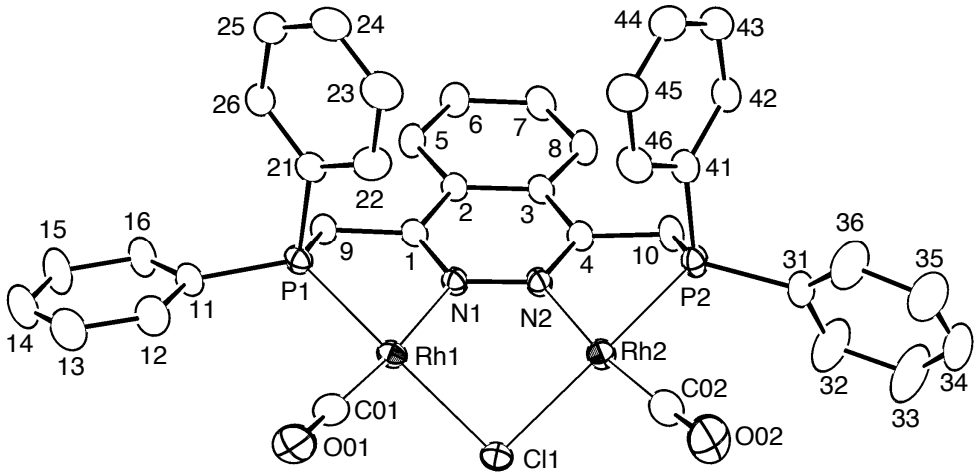


Figure S3. Molecular structure of the cationic part of **5** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

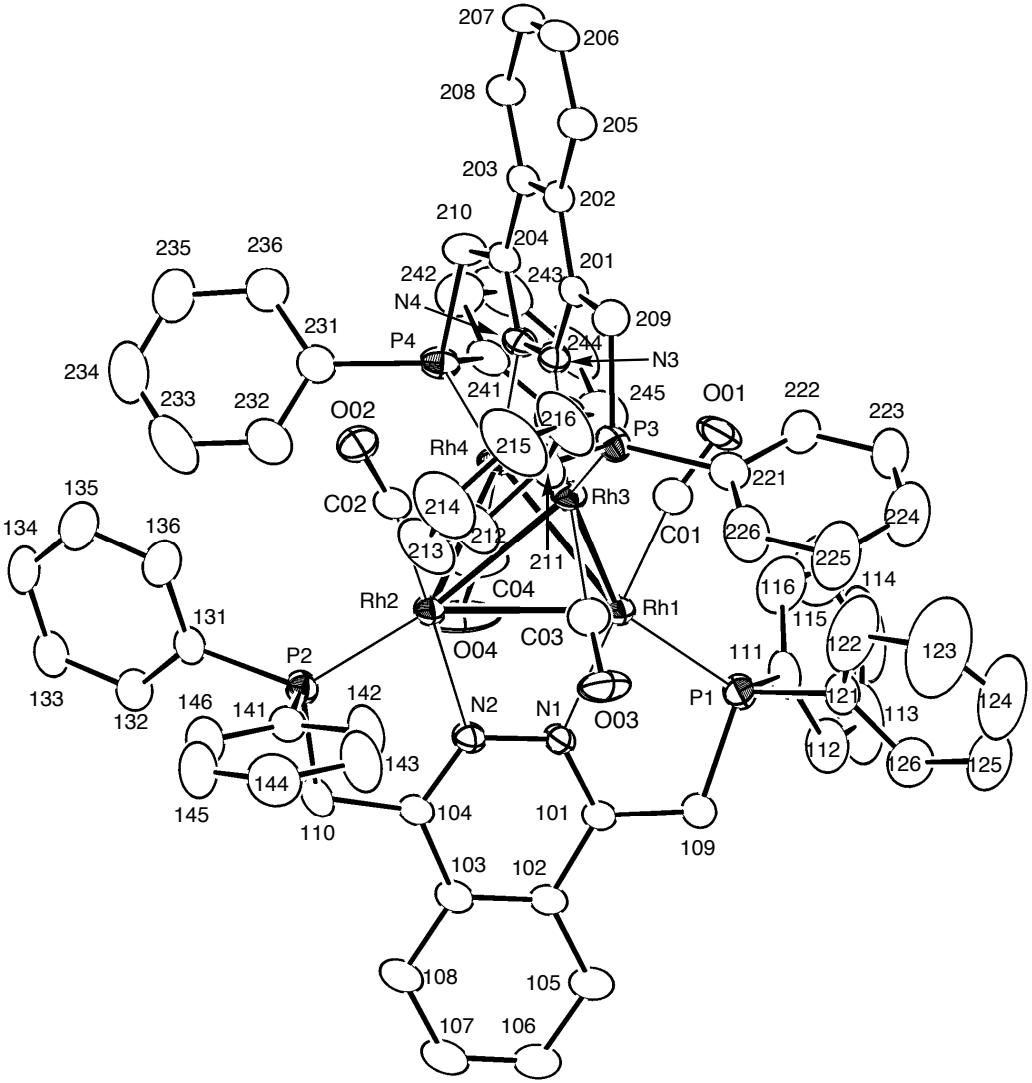


Figure S4. Molecular structure of the cationic part of **6** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

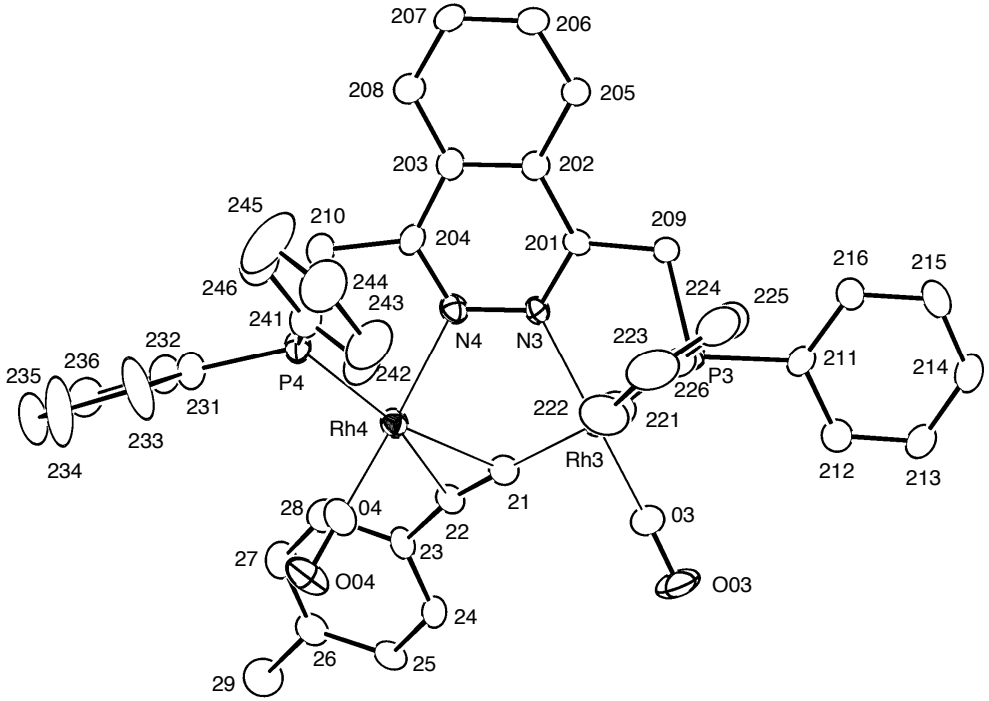


Figure S5. Molecular structure of the cationic part of **9** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

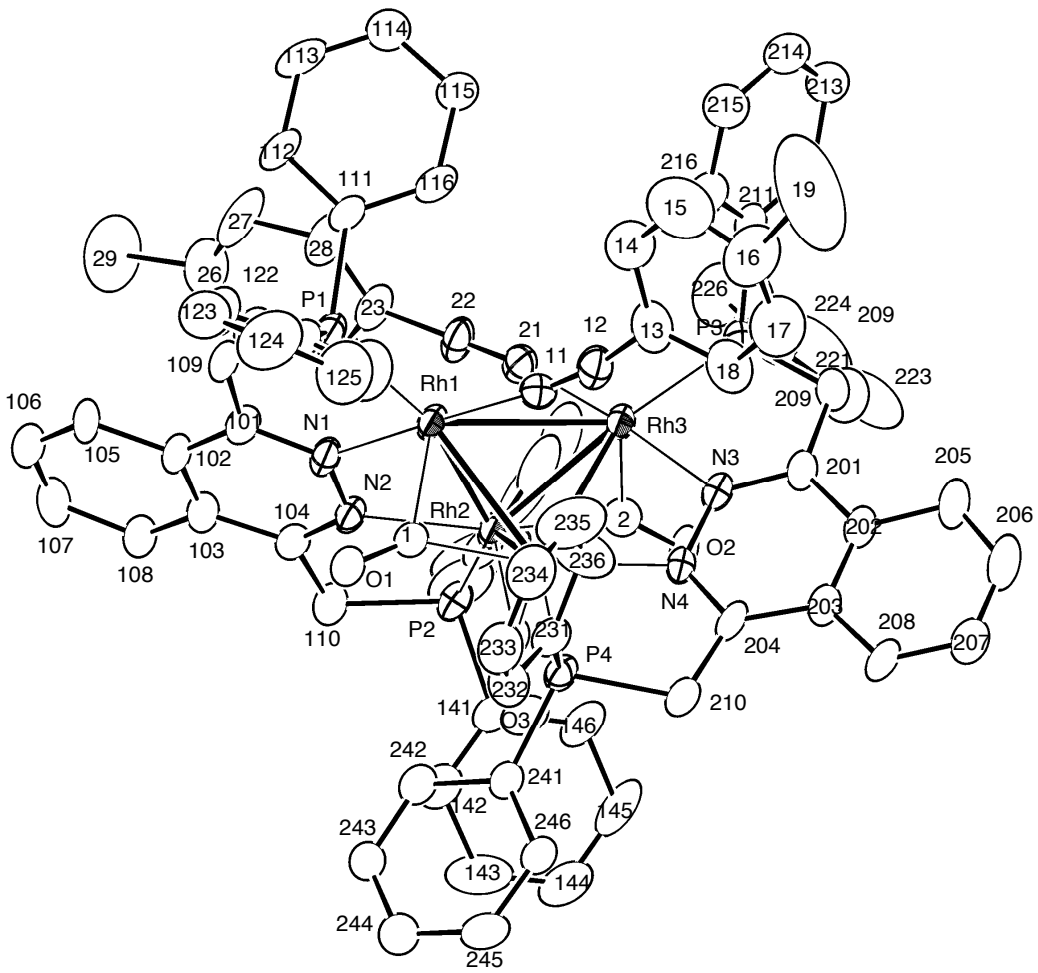


Figure S6. Molecular structure of the cationic part of **10** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

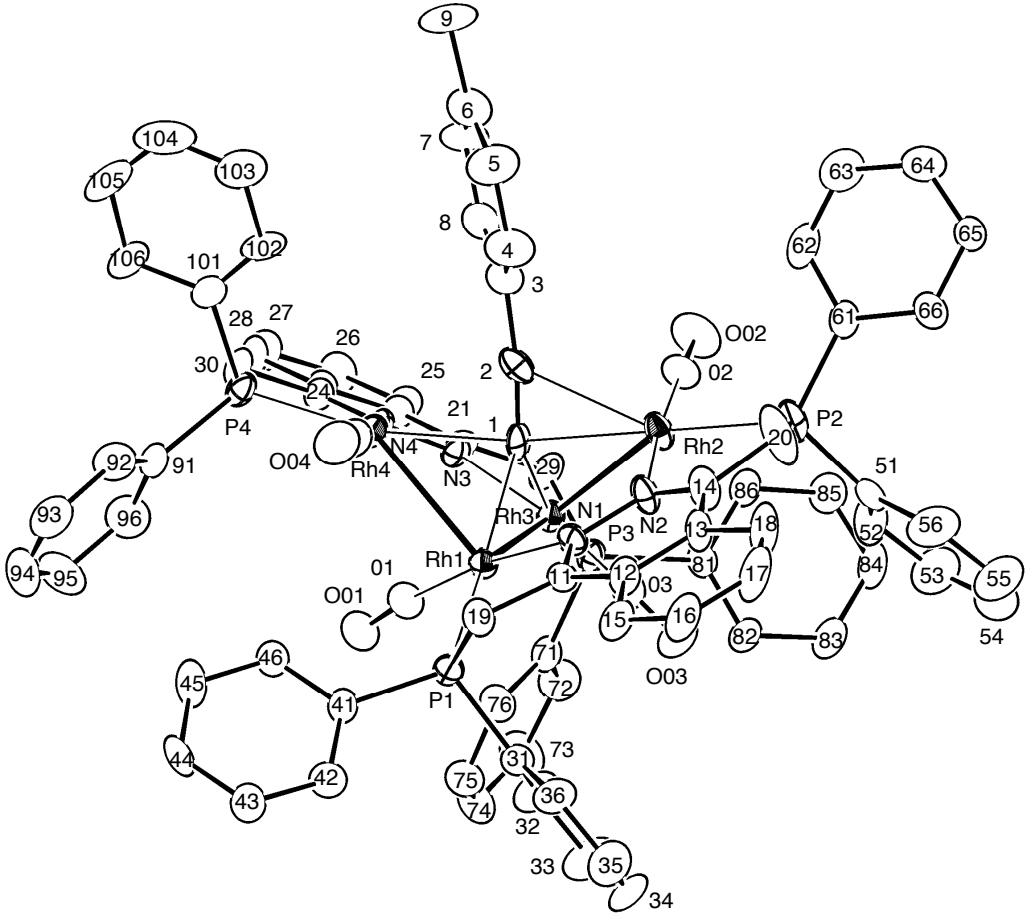


Figure S7. Molecular structure of the cationic part of **12** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

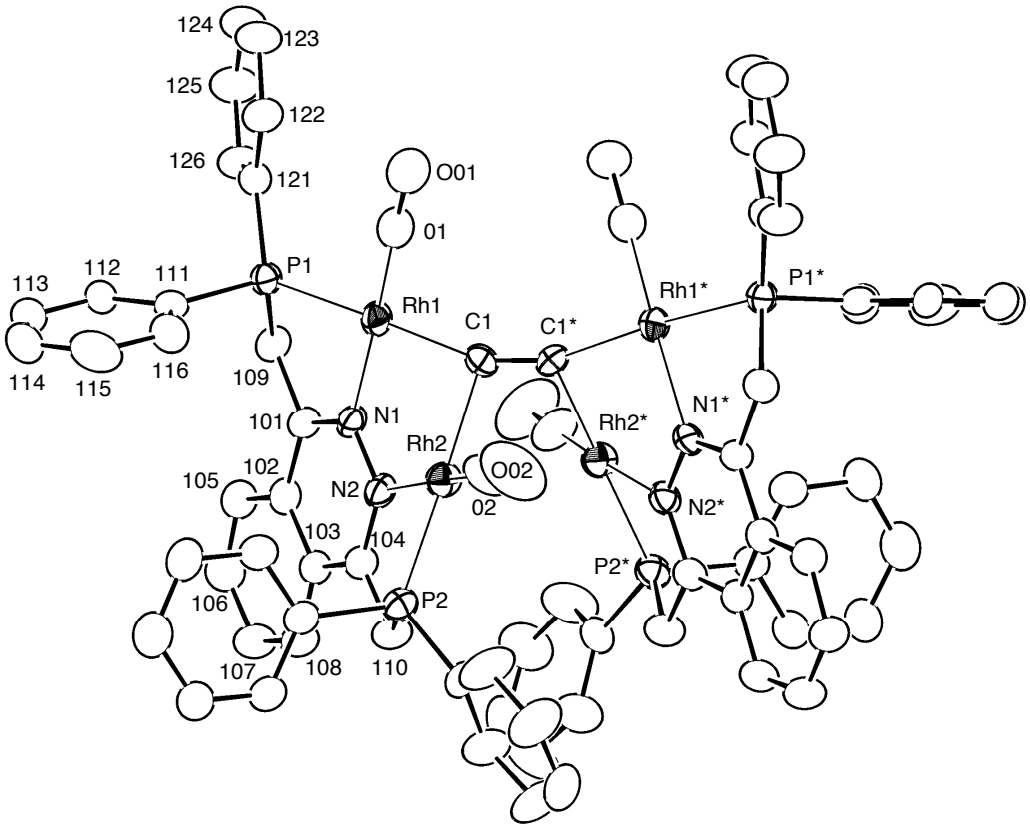


Figure S8. Molecular structure of the cationic part of **12** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

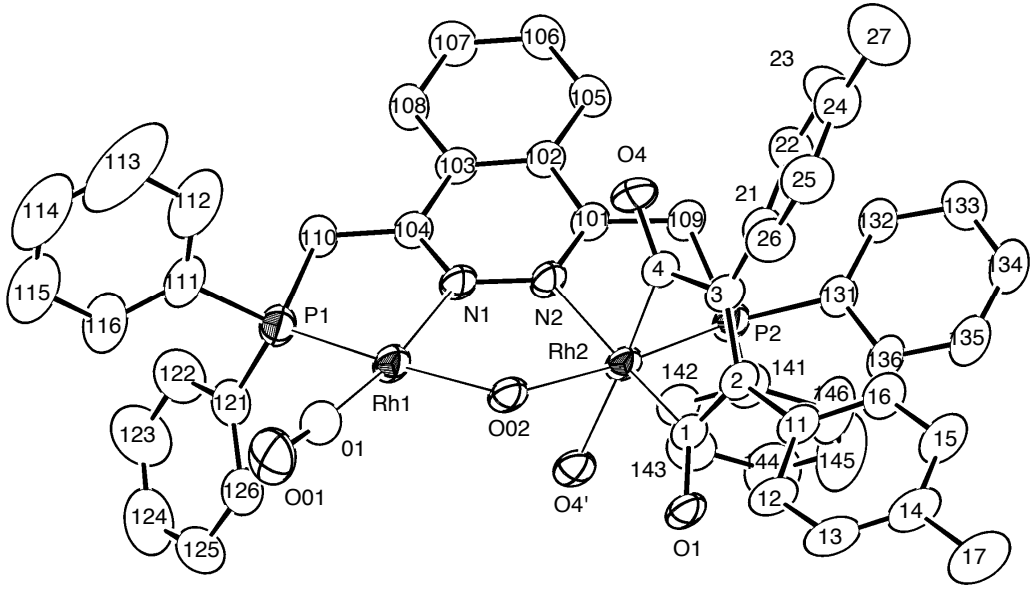


Figure S9. Molecular structure of the cationic part of **13** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms. Only the monomeric unit is shown

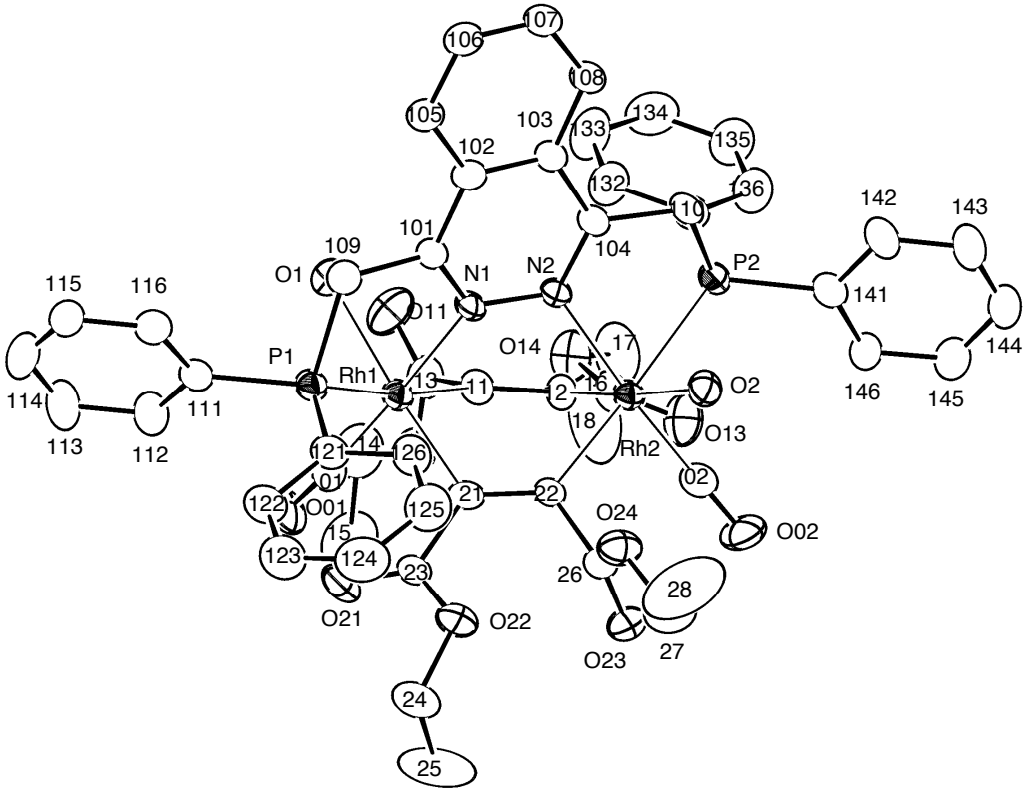


Figure S10. Molecular structure of the cationic part of **14** drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

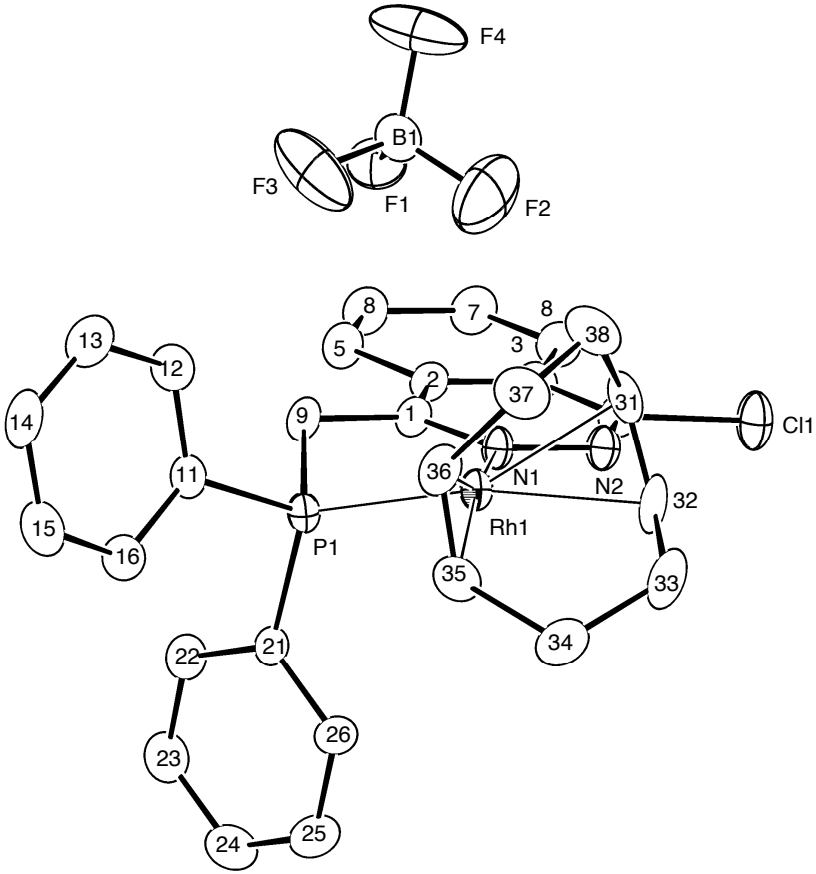


Figure S11. Molecular structure of the cationic part of [**3**·Rh(cod)]BF_4 drawn with thermal ellipsoids at the 30 % probability level. Labels without atom names are for carbon atoms.

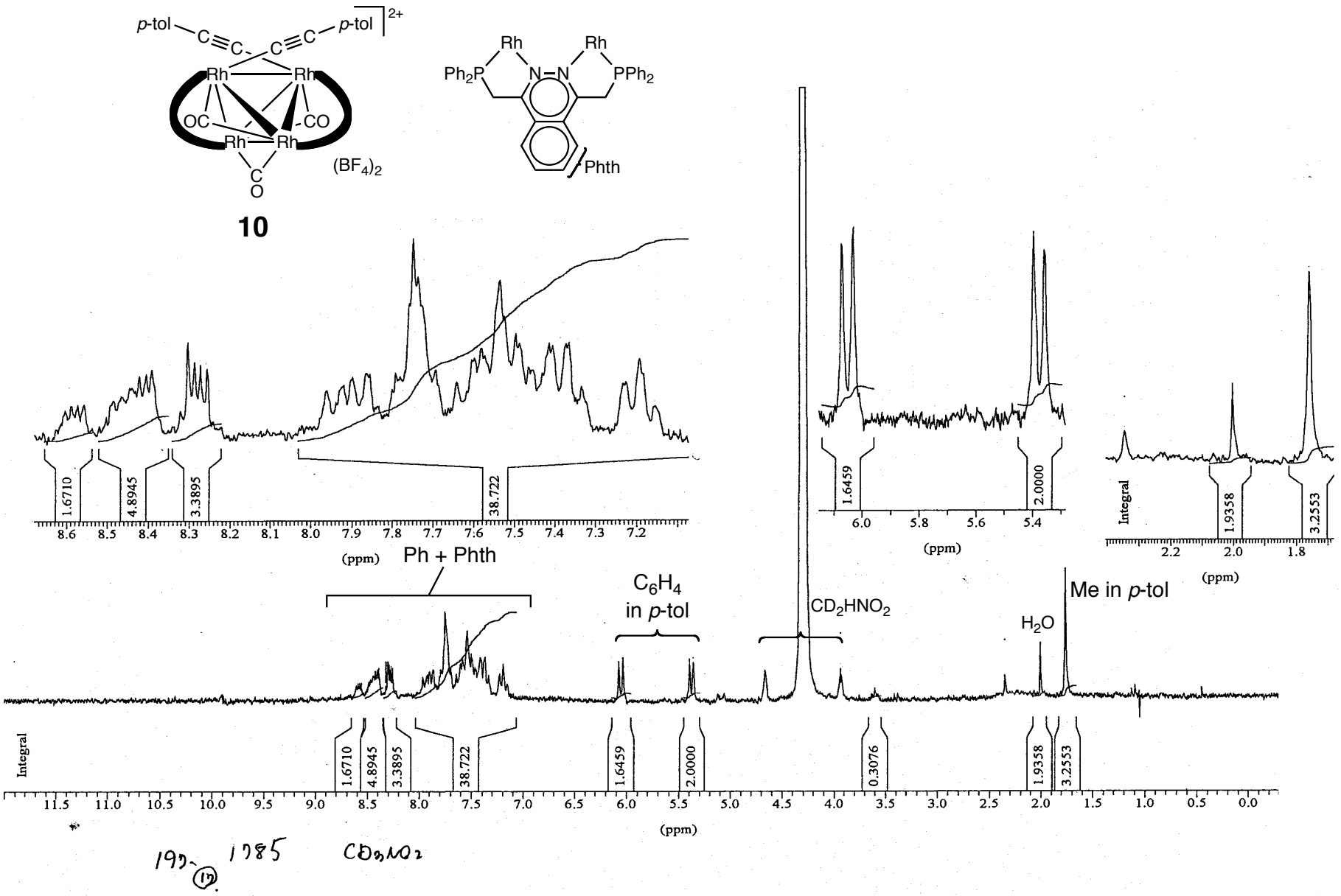


Figure S12. A ^{1}H NMR chart for **10** (observed in CD_3NO_2).

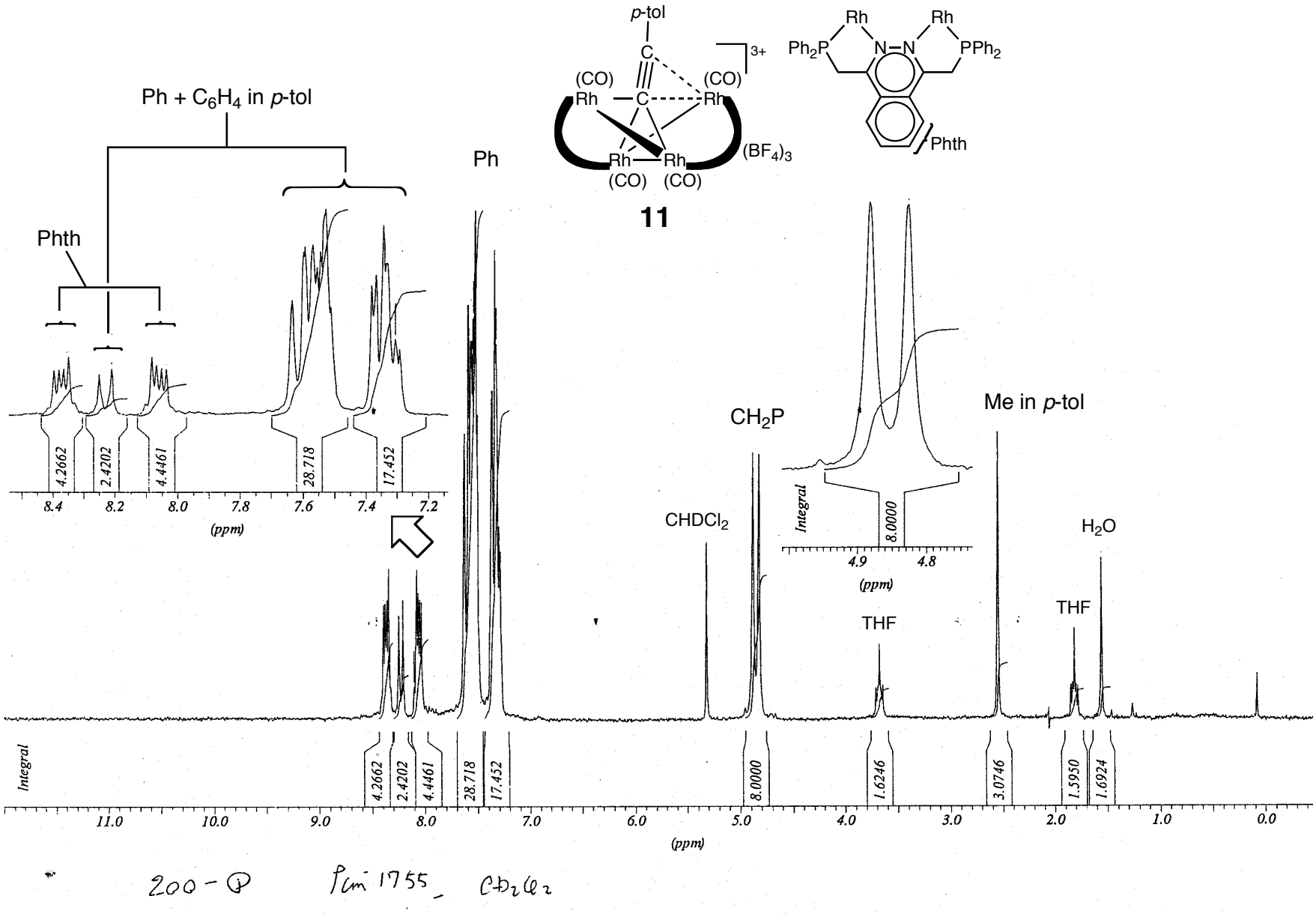


Figure S13. A ^{1}H NMR chart for **11** (observed in CD_2Cl_2).

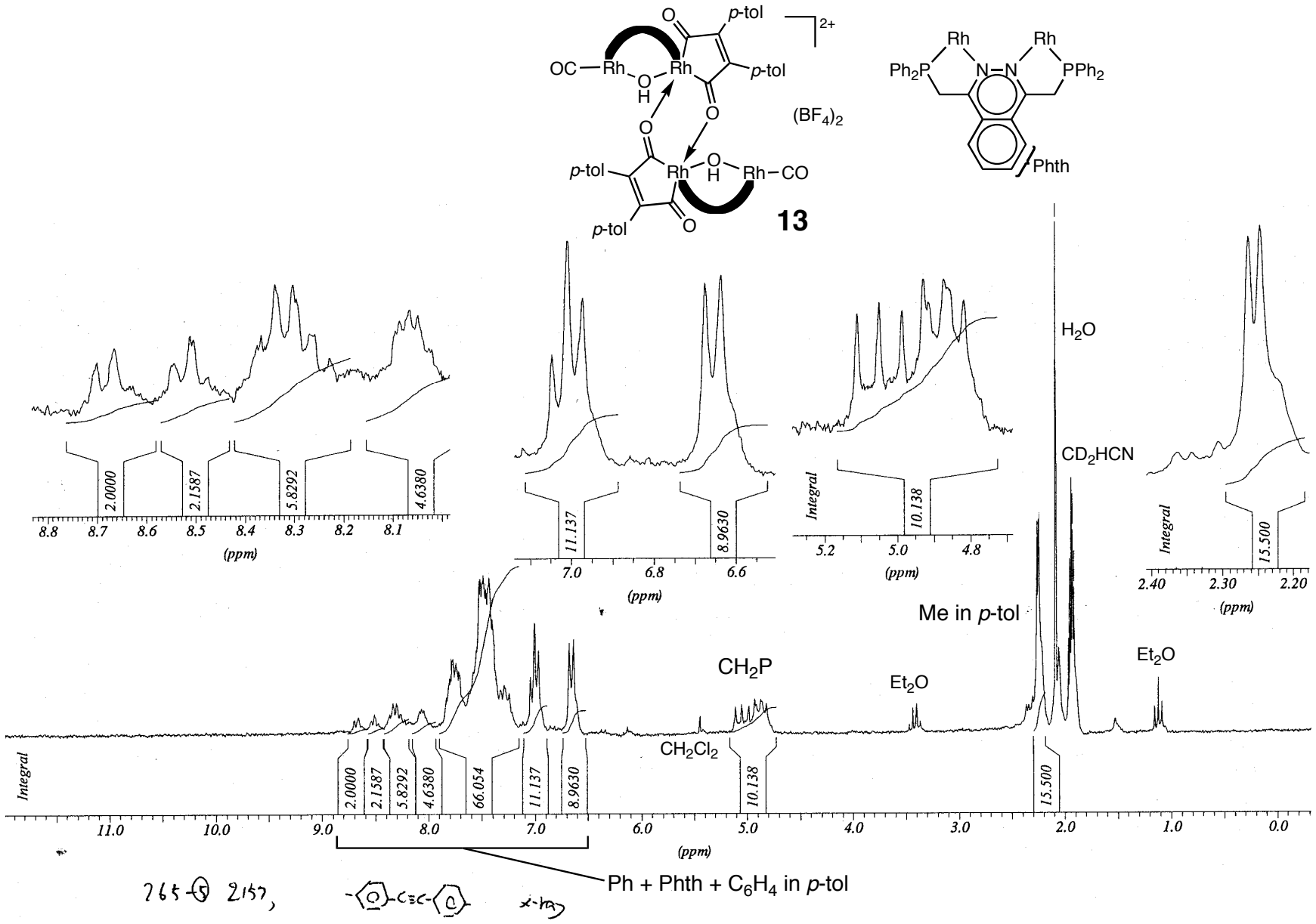


Figure S14. A ^{1}H NMR chart for **13** (observed in CD_3CN).

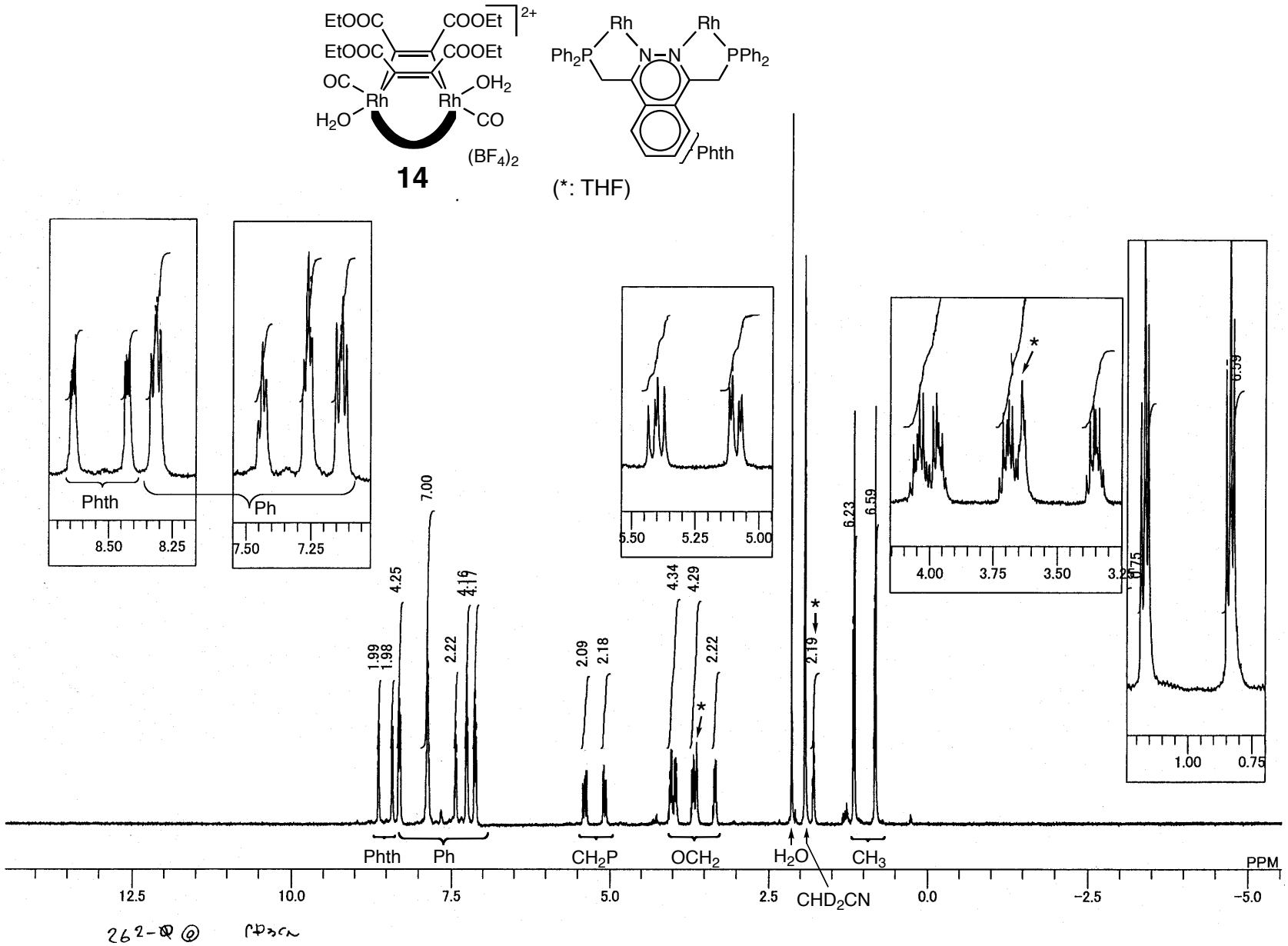


Figure S15. A ^{1}H NMR chart for **14** (observed in CD_3CN).