Electronic Supplementary Information for Dalton Transactions

The CellScan Technology for *In Vitro* Studies on Novel Platinum Complexes with Organoarsenic Ligands

Eva Fischer Fodor, [a]* Natalia Moldovan,[b] Piroska Virag,[a] Olga Soritau,[a] Ioana Brie,[a] Peter Lönnecke,[c] Evamarie Hey-Hawkins,[c] Luminita Silaghi Dumitrescu [b]

[a] "I.Chiricuta" Cancer Institute, Cluj Napoca, Romania,
[b] Chemistry Faculty, Babes-Bolyai University, Romania,
[c] Institut für Anorganische Chemie, Universität Leipzig, Germany

Supplementary information

1. *trans*-[$PtI_2(2\text{-}Pr^iOC_6H_4AsPh_2)_2$]

Siemens CCD diffractometer (SMART) using Mo-K (alpha) radiation (lambda = 0.71073 pm) and omega-scan rotation. Data reduction was performed with SAINT [Area-Detector Integration Software. Version 6.01 (1999) Siemens Industrial Automation, Inc.: Madison, WI] including the program SADABS [G. M. Sheldrick, SADABS, Program for Scaling and Correction of Area-Detector data, Göttingen, 1997] for empirical absorption correction.

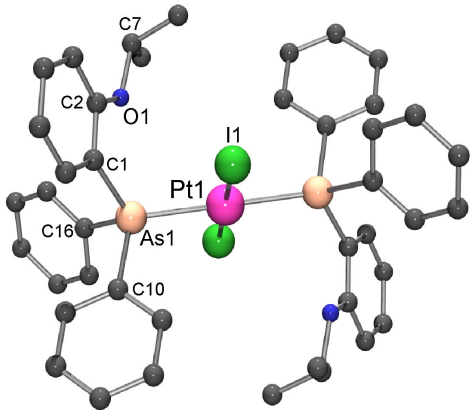

Fig. 1: Molecular structures of *trans*-[$PtI_2(2\text{-}Pr^iOC_6H_4AsPh_2)_2$], in POV-Ray representation

Table 1. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters (pm^2x 10^{-1}) for *trans*-[$PtI_2(2\text{-}Pr^iOC_6H_4AsPh_2)_2$]. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Pt(1)	0	0	0	22(1)
I(1)	1525(1)	-1191(1)	-14(1)	37(1)
As(1)	239(1)	-122(1)	2027(1)	24(1)
O(1)	2691(4)	952(2)	2411(3)	42(1)
C(1)	446(5)	786(2)	2891(3)	28(1)

C(2)	1672(5)	1240(2)	2907(4)	32(1)
C(3)	1798(5)	1923(2)	3447(4)	39(1)
C(4)	724(5)	2134(2)	3980(4)	41(1)
C(5)	-471(5)	1687(3)	3974(4)	42(1)
C(6)	-610(5)	1020(3)	3423(4)	35(1)
C(7)	3899(5)	1397(3)	2243(4)	40(1)
C(8)	4987(5)	829(3)	2013(4)	48(1)
C(9)	3357(8)	1938(3)	1273(5)	62(2)
C(10)	-1586(4)	-549(2)	2215(3)	29(1)
C(11)	-1687(5)	-777(3)	3286(4)	38(1)
C(12)	-2996(5)	-1081(3)	3394(4)	43(1)
C(13)	-4208(5)	-1173(3)	2438(5)	46(1)
C(14)	-4102(5)	-960(3)	1377(4)	43(1)
C(15)	-2808(5)	-638(2)	1257(4)	36(1)
C(16)	1701(4)	-763(2)	3045(3)	26(1)
C(17)	2832(5)	-498(2)	3945(4)	34(1)
C(18)	3804(5)	-978(3)	4675(4)	41(1)
C(19)	3638(5)	-1725(3)	4516(4)	43(1)
C(20)	2502(5)	-1997(2)	3618(4)	40(1)
C(21)	1531(5)	-1515(2)	2889(4)	33(1)

Table 2. Bond lengths [pm] and angles [°] for *trans*-[$PtI_2(2\text{-}Pr^iOC_6H_4AsPh_2)_2$]

Pt(1)-As(1)	242.17(6)
Pt(1)-As(1)#1	242.17(6)
Pt(1)-I(1)#1	259.43(4)
Pt(1)-I(1)	259.43(4)
As(1)-C(10)	193.7(4)
As(1)-C(1)	194.0(4)
As(1)-C(16)	195.0(4)
O(1)-C(2)	136.3(5)
O(1)-C(7)	144.6(5)
C(1)-C(6)	138.6(6)
C(1)-C(2)	140.5(6)
C(2)-C(3)	139.6(6)
C(3)-C(4)	138.8(7)
C(4)-C(5)	137.6(7)
C(5)-C(6)	137.7(6)
C(7)-C(9)	151.1(6)
C(7)-C(8)	152.8(7)
C(10)-C(15)	139.1(6)
C(10)-C(11)	139.5(6)
C(11)-C(12)	137.8(6)
C(12)-C(13)	138.4(7)
C(13)-C(14)	137.6(7)
C(14)-C(15)	138.3(6)
C(16)-C(17)	137.5(6)
C(16)-C(21)	138.6(6)
C(17)-C(18)	138.5(6)
C(18)-C(19)	137.8(7)
C(19)-C(20)	138.0(7)
C(20)-C(21)	138.7(6)
As(1)-Pt(1)-As(1)#1	180.000(17)
As(1)-Pt(1)-I(1)#1	87.955(11)
As(1)#1-Pt(1)-I(1)#1	92.045(11)
As(1)-Pt(1)-I(1)	92.045(11)

As(1)#1-Pt(1)-I(1)	87.955(11)
I(1)#1-Pt(1)-I(1)	180.000(16)
C(10)-As(1)-C(1)	103.65(17)
C(10)-As(1)-C(16)	99.42(16)
C(1)-As(1)-C(16)	102.75(17)
C(10)-As(1)-Pt(1)	108.84(12)
C(1)-As(1)-Pt(1)	116.08(12)
C(16)-As(1)-Pt(1)	123.35(11)
C(2)-O(1)-C(7)	120.6(3)
C(6)-C(1)-C(2)	119.4(4)
C(6)-C(1)-As(1)	122.6(3)
C(2)-C(1)-As(1)	117.8(3)
O(1)-C(2)-C(3)	125.1(4)
O(1)-C(2)-C(1)	115.4(3)
C(3)-C(2)-C(1)	119.5(4)
C(4)-C(3)-C(2)	119.3(4)
C(5)-C(4)-C(3)	121.3(4)
C(4)-C(5)-C(6)	119.4(4)
C(5)-C(6)-C(1)	121.1(4)
O(1)-C(7)-C(9)	111.9(4)
O(1)-C(7)-C(8)	103.1(4)
C(9)-C(7)-C(8)	113.1(4)
C(15)-C(10)-C(11)	119.6(4)
C(15)-C(10)-As(1)	119.1(3)
C(11)-C(10)-As(1)	121.3(3)
C(12)-C(11)-C(10)	120.0(4)
C(11)-C(12)-C(13)	120.2(4)
C(14)-C(13)-C(12)	119.8(4)
C(13)-C(14)-C(15)	120.8(4)
C(14)-C(15)-C(10)	119.5(4)
C(17)-C(16)-C(21)	119.2(4)
C(17)-C(16)-As(1)	122.5(3)
C(21)-C(16)-As(1)	118.2(3)
C(16)-C(17)-C(18)	120.3(4)
C(19)-C(18)-C(17)	120.4(4)
C(18)-C(19)-C(20)	119.7(4)

C(19)-C(20)-C(21)	119.7(4)
C(16)-C(21)-C(20)	120.6(4)

Symmetry transformations used to generate equivalent atoms:

#1 -x,-y,-z

Table 3. Anisotropic displacement parameters ($pm^2 x\ 10^{-1}$) for *trans*-[$PtI_2(2\text{-}Pr^iOC_6H_4AsPh_2)_2$]. The anisotropic displacement factor exponent takes the form: $-2\pi^2[h^2a^{*2}U_{11} + ... + 2hka^*b^*U_{12}]$

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Pt(1)	24(1)	20(1)	22(1)	1(1)	8(1)	0(1)
I(1)	45(1)	34(1)	35(1)	3(1)	15(1)	11(1)
As(1)	26(1)	24(1)	22(1)	1(1)	8(1)	-1(1)
O(1)	43(2)	31(2)	59(2)	-4(1)	26(2)	-6(1)
C(1)	32(2)	26(2)	25(2)	-2(2)	7(2)	4(2)
C(2)	37(2)	27(2)	32(2)	-2(2)	12(2)	2(2)
C(3)	41(2)	31(2)	41(3)	-6(2)	6(2)	-3(2)
C(4)	54(3)	31(2)	33(2)	-8(2)	0(2)	13(2)
C(5)	44(3)	50(3)	33(2)	-7(2)	10(2)	17(2)
C(6)	34(2)	42(2)	29(2)	-1(2)	9(2)	3(2)
C(7)	38(2)	39(2)	40(3)	1(2)	7(2)	-9(2)
C(8)	29(2)	73(4)	41(3)	0(2)	10(2)	10(2)
C(9)	103(5)	35(3)	46(3)	11(2)	17(3)	17(3)
C(10)	28(2)	32(2)	30(2)	3(2)	10(2)	0(2)
C(11)	39(2)	46(3)	28(2)	6(2)	10(2)	-1(2)
C(12)	47(3)	49(3)	42(3)	16(2)	25(2)	2(2)
C(13)	38(2)	50(3)	55(3)	7(2)	21(2)	-6(2)
C(14)	29(2)	58(3)	41(3)	-2(2)	8(2)	-12(2)
C(15)	35(2)	45(3)	29(2)	1(2)	9(2)	-7(2)
C(16)	28(2)	29(2)	25(2)	3(2)	11(2)	1(2)
C(17)	34(2)	35(2)	31(2)	-2(2)	8(2)	-4(2)
C(18)	32(2)	53(3)	34(2)	5(2)	1(2)	-3(2)
C(19)	43(3)	49(3)	36(3)	15(2)	13(2)	15(2)
C(20)	54(3)	30(2)	43(3)	5(2)	23(2)	4(2)
C(21)	40(2)	29(2)	29(2)	-1(2)	7(2)	-3(2)

2. *trans*-[$PtCl_2(2\text{-}MeOC_6H_4AsPh_2)_2$]

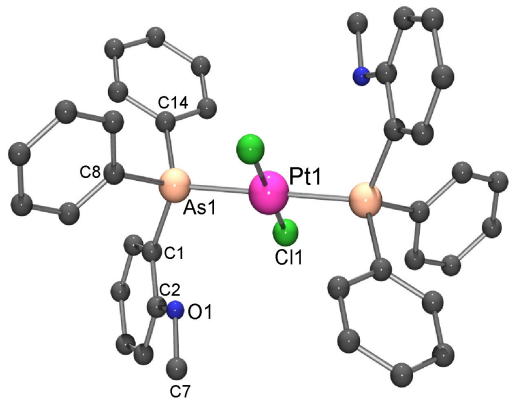

Fig. 2: Molecular structures of *trans*-[$PtCl_2(2\text{-}MeOC_6H_4AsPh_2)_2$], in POV-Ray representation

Siemens CCD diffractometer (SMART) using Mo-K (alpha) radiation (lambda = 0.71073 pm) and omega-scan rotation. Data reduction was performed with SAINT [Area-Detector Integration Software. Version 6.01 (1999) Siemens Industrial Automation, Inc.: Madison, WI] including the program SADABS [G. M. Sheldrick, SADABS, Program for Scaling and Correction of Area-Detector data, Göttingen, 1997] for empirical absorption correction.

Table 4. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters (pm^2x 10^{-1}) for *trans*-[$PtCl_2(2\text{-}MeOC_6H_4AsPh_2)_2$]. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Pt(1)	5000	5000	5000	24(1)
As(1)	5074(1)	7112(1)	5088(1)	25(1)
Cl(1)	3031(1)	4041(1)	3499(1)	36(1)
Cl(2)	2299(4)	5413(2)	646(2)	130(1)
Cl(3)	662(2)	2929(2)	704(1)	90(1)
Cl(4)	5050(3)	2862(2)	633(1)	90(1)
Cl(5)	2746(3)	270(2)	-386(2)	99(1)
O(1)	2523(3)	6695(3)	6259(3)	46(1)
C(1)	3053(4)	7239(4)	4797(3)	30(1)
C(2)	1990(4)	6957(4)	5441(3)	34(1)
C(3)	496(5)	6974(5)	5227(4)	48(1)

C(4)	109(5)	7288(5)	4389(4)	55(1)
C(5)	1156(5)	7587(5)	3764(4)	50(1)
C(6)	2646(5)	7554(4)	3961(3)	38(1)
C(7)	1523(6)	6523(6)	7007(4)	63(1)
C(8)	6083(4)	8730(4)	6415(3)	31(1)
C(9)	5280(5)	9595(4)	6946(3)	39(1)
C(10)	6018(6)	10761(4)	7889(4)	49(1)
C(11)	7535(6)	11063(5)	8308(4)	54(1)
C(12)	8344(5)	10209(4)	7782(4)	49(1)
C(13)	7629(5)	9047(4)	6825(3)	39(1)
C(14)	6097(4)	7450(4)	3952(3)	30(1)
C(15)	6943(5)	8726(4)	4129(4)	39(1)
C(16)	7666(5)	8920(5)	3296(4)	49(1)
C(17)	7539(5)	7863(5)	2297(4)	53(1)
C(18)	6701(6)	6607(6)	2122(4)	61(1)
C(19)	5985(5)	6389(5)	2956(3)	46(1)
C(20)	1426(11)	4618(7)	1374(5)	100(3)
C(21)	3888(9)	1551(6)	843(5)	75(2)

Table 5. Bond lengths [pm] and angles [°] for *trans*-[$PtCl_2(2\text{-}MeOC_6H_4AsPh_2)_2$].

Pt(1)-Cl(1)	231.02(10)
Pt(1)-Cl(1)#1	231.02(10)
Pt(1)-As(1)	240.50(7)
Pt(1)-As(1)#1	240.50(7)
As(1)-C(8)	193.8(4)
As(1)-C(1)	194.0(3)
As(1)-C(14)	194.4(4)
Cl(2)-C(20)	169.3(7)
Cl(3)-C(20)	171.3(7)
Cl(4)-C(21)	174.5(6)
Cl(5)-C(21)	174.4(6)
O(1)-C(2)	136.3(5)
O(1)-C(7)	142.8(5)

C(1)-C(6)	138.5(5)
C(1)-C(2)	139.2(5)
C(2)-C(3)	139.9(5)
C(3)-C(4)	138.1(7)
C(4)-C(5)	137.0(7)
C(5)-C(6)	139.8(6)
C(8)-C(13)	139.2(5)
C(8)-C(9)	139.3(5)
C(9)-C(10)	139.0(6)
C(10)-C(11)	137.4(7)
C(11)-C(12)	138.7(7)
C(12)-C(13)	139.4(6)
C(14)-C(19)	137.9(6)
C(14)-C(15)	139.4(5)
C(15)-C(16)	139.1(6)
C(16)-C(17)	137.5(7)
C(17)-C(18)	137.3(7)
C(18)-C(19)	139.8(6)

Cl(1)-Pt(1)-Cl(1)#1	180.0
Cl(1)-Pt(1)-As(1)	87.66(3)
Cl(1)#1-Pt(1)-As(1)	92.34(3)
Cl(1)-Pt(1)-As(1)#1	92.34(3)
Cl(1)#1-Pt(1)-As(1)#1	87.66(3)
As(1)-Pt(1)-As(1)#1	180.0
C(8)-As(1)-C(1)	103.36(16)
C(8)-As(1)-C(14)	102.45(16)
C(1)-As(1)-C(14)	103.37(15)
C(8)-As(1)-Pt(1)	120.60(11)
C(1)-As(1)-Pt(1)	113.36(11)
C(14)-As(1)-Pt(1)	111.79(11)
C(2)-O(1)-C(7)	117.7(4)
C(6)-C(1)-C(2)	120.4(3)
C(6)-C(1)-As(1)	122.1(3)
C(2)-C(1)-As(1)	117.4(3)
O(1)-C(2)-C(1)	115.6(3)

O(1)-C(2)-C(3)	124.9(4)
C(1)-C(2)-C(3)	119.5(4)
C(4)-C(3)-C(2)	119.3(4)
C(5)-C(4)-C(3)	121.6(4)
C(4)-C(5)-C(6)	119.5(4)
C(1)-C(6)-C(5)	119.7(4)
C(13)-C(8)-C(9)	119.7(4)
C(13)-C(8)-As(1)	120.0(3)
C(9)-C(8)-As(1)	120.3(3)
C(10)-C(9)-C(8)	119.9(4)
C(11)-C(10)-C(9)	120.5(4)
C(10)-C(11)-C(12)	120.0(4)
C(11)-C(12)-C(13)	120.3(4)
C(8)-C(13)-C(12)	119.6(4)
C(19)-C(14)-C(15)	119.9(4)
C(19)-C(14)-As(1)	118.5(3)
C(15)-C(14)-As(1)	121.6(3)
C(16)-C(15)-C(14)	119.6(4)
C(17)-C(16)-C(15)	120.4(4)
C(18)-C(17)-C(16)	119.9(4)
C(17)-C(18)-C(19)	120.5(5)
C(14)-C(19)-C(18)	119.6(4)
Cl(2)-C(20)-Cl(3)	117.7(4)
Cl(5)-C(21)-Cl(4)	112.1(3)

Symmetry transformations used to generate equivalent atoms:

#1 -x+1,-y+1,-z+1

Table 6. Anisotropic displacement parameters ($pm^2 x\ 10^{-1}$)for *trans*-[$PtCl_2(2\text{-}MeOC_6H_4AsPh_2)_2$]. The anisotropic displacement factor exponent takes the form: $-2\pi^2[h^2a^{*2}U_{11} + ... + 2hka^*b^*U_{12}]$

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Pt(1)	20(1)	25(1)	29(1)	13(1)	5(1)	10(1)
As(1)	22(1)	27(1)	31(1)	14(1)	6(1)	11(1)
Cl(1)	32(1)	35(1)	40(1)	17(1)	-4(1)	7(1)
Cl(2)	200(3)	92(2)	111(2)	54(1)	69(2)	46(2)
Cl(3)	89(1)	79(1)	71(1)	22(1)	-9(1)	1(1)
Cl(4)	121(2)	65(1)	67(1)	24(1)	28(1)	10(1)
Cl(5)	133(2)	67(1)	78(1)	30(1)	9(1)	6(1)
O(1)	40(2)	64(2)	54(2)	39(2)	22(1)	23(2)
C(1)	24(2)	30(2)	39(2)	16(2)	9(1)	14(1)
C(2)	29(2)	35(2)	42(2)	16(2)	9(2)	14(2)
C(3)	30(2)	53(3)	65(3)	26(2)	17(2)	18(2)
C(4)	32(2)	66(3)	79(3)	36(3)	10(2)	28(2)
C(5)	42(2)	59(3)	59(3)	31(2)	3(2)	28(2)
C(6)	32(2)	41(2)	46(2)	21(2)	5(2)	16(2)
C(7)	57(3)	85(4)	59(3)	44(3)	28(2)	18(3)
C(8)	32(2)	29(2)	33(2)	16(1)	6(1)	9(1)
C(9)	44(2)	36(2)	37(2)	13(2)	7(2)	17(2)
C(10)	63(3)	35(2)	42(2)	10(2)	9(2)	19(2)
C(11)	67(3)	38(2)	41(2)	10(2)	1(2)	7(2)
C(12)	38(2)	46(2)	54(3)	23(2)	-6(2)	-2(2)
C(13)	34(2)	38(2)	46(2)	21(2)	5(2)	9(2)
C(14)	21(2)	38(2)	37(2)	21(2)	8(1)	14(1)
C(15)	42(2)	37(2)	52(2)	25(2)	20(2)	21(2)
C(16)	42(2)	51(3)	70(3)	41(2)	21(2)	17(2)
C(17)	43(2)	71(3)	52(3)	37(3)	17(2)	13(2)
C(18)	59(3)	63(3)	41(2)	13(2)	17(2)	2(3)
C(19)	40(2)	45(2)	39(2)	12(2)	11(2)	2(2)
C(20)	154(8)	74(4)	59(4)	30(3)	2(4)	21(5)
C(21)	109(5)	64(4)	57(3)	31(3)	17(3)	26(3)

3. *cis*-[$PtCl_2(2\text{-}HOC_6H_4AsPh_2)_2$]

Stoe-IPDS imaging plate diffractometer (phi-scan rotation and Mo-K(alpha) radiation (lambda = 0.71073 Å)) and the numerical absorption correction was performed with X-RED [Version 1.22 (2001), STOE Data Reduction Program, STOE & Cie Gmbh, Darmstadt].

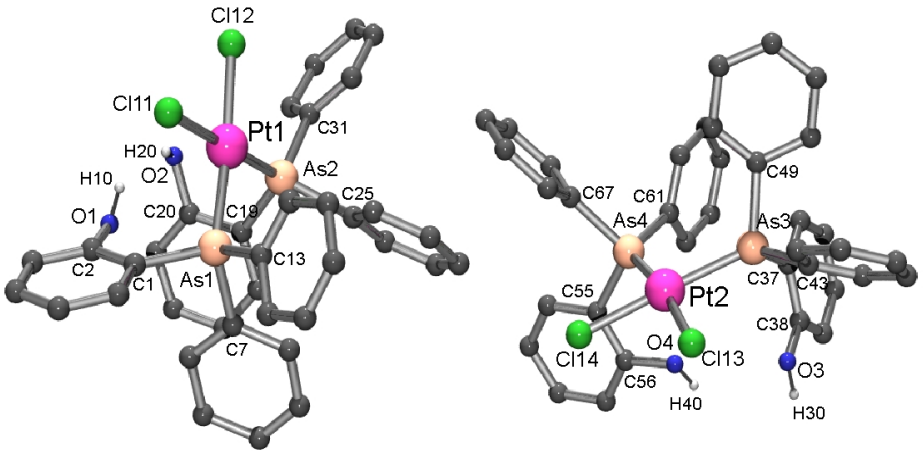

Fig. 3: Molecular structure of *cis*-[$PtCl_2(2\text{-}HOC_6H_4AsPh_2)_2$], in POV-Ray representation (both independent molecules are shown)

Table 7. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters (pm^2x 10^{-1}) for *cis*-[$PtCl_2(2\text{-}HOC_6H_4AsPh_2)_2$]. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Pt(1)	2381(1)	3919(1)	5148(1)	31(1)
As(1)	1927(1)	2489(1)	5445(1)	33(1)
As(2)	2800(1)	3838(1)	3897(1)	33(1)
Cl(1)	1939(1)	4028(1)	6395(1)	40(1)
Cl(2)	2772(2)	5350(1)	5011(1)	42(1)
O(1)	-435(4)	3446(3)	5316(3)	49(1)
O(2)	402(4)	4744(3)	3906(3)	54(2)
C(1)	490(5)	2379(4)	6089(4)	32(2)
C(2)	-520(6)	2892(4)	5931(4)	38(2)
C(3)	-1596(6)	2819(4)	6376(4)	41(2)
C(4)	-1642(6)	2224(5)	6965(4)	46(2)
C(5)	-646(6)	1700(5)	7127(4)	43(2)

C(6)	407(6)	1787(4)	6689(4)	39(2)
C(7)	3216(5)	1893(4)	5969(4)	34(2)
C(8)	4108(5)	2356(5)	6141(4)	40(2)
C(9)	5092(6)	1948(5)	6495(4)	48(2)
C(10)	5107(7)	1100(5)	6676(4)	55(2)
C(11)	4230(7)	621(5)	6507(5)	63(3)
C(12)	3252(6)	1024(5)	6135(4)	47(2)
C(13)	1662(7)	1695(5)	4771(4)	44(2)
C(14)	497(8)	1558(6)	4636(5)	64(3)
C(15)	328(10)	912(6)	4193(6)	86(3)
C(16)	1329(12)	443(7)	3877(6)	94(4)
C(17)	2427(11)	610(7)	4014(6)	93(4)
C(18)	2636(8)	1223(6)	4439(5)	68(3)
C(19)	1438(5)	3534(4)	3467(4)	33(2)
C(20)	363(6)	4026(5)	3582(4)	39(2)
C(21)	-698(6)	3788(5)	3360(4)	49(2)
C(22)	-708(6)	3066(6)	3018(4)	55(2)
C(23)	331(7)	2577(5)	2887(4)	54(2)
C(24)	1405(6)	2822(5)	3113(4)	42(2)
C(25)	4123(6)	3040(5)	3626(4)	45(2)
C(26)	4862(7)	2739(6)	4164(5)	72(3)
C(27)	5905(8)	2200(7)	3947(7)	93(4)
C(28)	6121(7)	2013(6)	3255(7)	78(3)
C(29)	5379(7)	2352(5)	2744(5)	62(2)
C(30)	4396(6)	2865(5)	2919(4)	49(2)
C(31)	3377(5)	4852(4)	3334(4)	34(2)
C(32)	4521(6)	5062(5)	3428(4)	49(2)
C(33)	4977(6)	5751(5)	3015(5)	50(2)
C(34)	4342(6)	6221(4)	2502(4)	44(2)
C(35)	3206(6)	6007(5)	2407(4)	43(2)
C(36)	2701(6)	5328(4)	2817(4)	37(2)
Pt(2)	9650(1)	1576(1)	905(1)	20(1)
As(3)	11651(1)	1857(1)	522(1)	21(1)
As(4)	8718(1)	2647(1)	124(1)	20(1)
Cl(3)	10276(1)	400(1)	1677(1)	33(1)
Cl(4)	7688(1)	1252(1)	1298(1)	36(1)

O(3)	11662(4)	455(3)	-377(3)	42(1)
O(4)	9010(3)	1127(3)	-679(3)	39(1)
C(37)	12073(4)	1872(4)	-508(3)	22(1)
C(38)	11993(5)	1130(4)	-822(3)	24(1)
C(39)	12258(5)	1121(5)	-1572(4)	38(2)
C(40)	12619(5)	1847(5)	-1981(4)	39(2)
C(41)	12704(5)	2577(4)	-1676(4)	33(2)
C(42)	12422(4)	2590(4)	-935(4)	26(2)
C(43)	12917(5)	1149(4)	979(3)	26(2)
C(44)	13928(5)	886(4)	546(4)	28(2)
C(45)	14934(5)	531(4)	878(4)	34(2)
C(46)	14938(5)	470(4)	1624(4)	39(2)
C(47)	13931(5)	747(4)	2042(4)	37(2)
C(48)	12935(5)	1095(4)	1713(4)	32(2)
C(49)	12182(5)	2904(4)	779(3)	26(2)
C(50)	13438(5)	3011(4)	675(4)	32(2)
C(51)	13881(6)	3679(5)	936(4)	42(2)
C(52)	13164(7)	4227(4)	1296(4)	48(2)
C(53)	11953(7)	4157(4)	1404(4)	44(2)
C(54)	11465(6)	3472(4)	1140(4)	38(2)
C(55)	7544(5)	2179(4)	-394(4)	26(2)
C(56)	7859(5)	1479(4)	-751(4)	26(2)
C(57)	7067(5)	1162(4)	-1171(4)	35(2)
C(58)	5953(5)	1562(4)	-1226(4)	37(2)
C(59)	5607(5)	2256(4)	-859(4)	34(2)
C(60)	6396(5)	2570(4)	-445(3)	28(2)
C(61)	9553(4)	3319(4)	-660(3)	25(2)
C(62)	9575(5)	3118(4)	-1381(4)	26(2)
C(63)	10090(5)	3631(4)	-1941(4)	33(2)
C(64)	10619(5)	4334(4)	-1808(4)	33(2)
C(65)	10629(5)	4550(4)	-1113(4)	33(2)
C(66)	10090(5)	4031(4)	-543(4)	25(1)
C(67)	7813(5)	3510(4)	646(4)	28(2)
C(68)	7329(5)	4250(4)	256(4)	29(2)
C(69)	6649(5)	4855(4)	632(4)	34(2)
C(70)	6473(5)	4745(4)	1369(4)	36(2)

C(71)	6958(5)	4032(4)	1757(4)	40(2)
C(72)	7621(5)	3424(4)	1387(4)	30(2)

Table 8. Bond lengths [pm] and angles [°] *cis*-[$PtCl_2(2\text{-}HOC_6H_4AsPh_2)_2$]

Pt(1)-Cl(2)	233.86(18)
Pt(1)-As(2)	234.87(8)
Pt(1)-Cl(1)	235.19(17)
Pt(1)-As(1)	236.92(8)
As(1)-C(1)	192.9(7)
As(1)-C(13)	193.2(7)
As(1)-C(7)	195.1(6)
As(2)-C(19)	190.8(6)
As(2)-C(25)	194.9(7)
As(2)-C(31)	194.9(7)
O(1)-C(2)	137.0(8)
O(2)-C(20)	135.6(8)
C(1)-C(6)	138.4(9)
C(1)-C(2)	138.4(8)
C(2)-C(3)	140.6(10)
C(3)-C(4)	137.1(10)
C(4)-C(5)	138.2(9)
C(5)-C(6)	138.1(10)
C(7)-C(8)	136.8(9)
C(7)-C(12)	138.6(9)
C(8)-C(9)	142.0(8)
C(9)-C(10)	135.6(11)
C(10)-C(11)	137.0(11)
C(11)-C(12)	142.8(9)
C(13)-C(14)	139.4(10)
C(13)-C(18)	141.3(11)
C(14)-C(15)	142.1(12)
C(15)-C(16)	142.0(14)
C(16)-C(17)	133.4(14)
C(17)-C(18)	136.8(12)
C(19)-C(24)	137.8(9)
C(19)-C(20)	140.3(9)
C(20)-C(21)	138.8(9)
C(21)-C(22)	137.5(11)

C(22)-C(23)	137.1(10)
C(23)-C(24)	140.9(9)
C(25)-C(30)	137.7(10)
C(25)-C(26)	138.3(10)
C(26)-C(27)	145.2(12)
C(27)-C(28)	135.0(14)
C(28)-C(29)	136.3(12)
C(29)-C(30)	136.1(10)
C(31)-C(32)	138.4(9)
C(31)-C(36)	140.4(8)
C(32)-C(33)	137.5(11)
C(33)-C(34)	136.9(10)
C(34)-C(35)	137.9(9)
C(35)-C(36)	138.3(10)
Pt(2)-Cl(4)	233.61(15)
Pt(2)-Cl(3)	234.34(15)
Pt(2)-As(3)	235.81(6)
Pt(2)-As(4)	236.81(6)
As(3)-C(37)	193.0(6)
As(3)-C(49)	193.5(6)
As(3)-C(43)	194.9(5)
As(4)-C(61)	192.9(7)
As(4)-C(55)	194.0(6)
As(4)-C(67)	194.2(6)
O(3)-C(38)	134.0(7)
O(4)-C(56)	138.3(6)
C(37)-C(42)	138.2(8)
C(37)-C(38)	138.6(8)
C(38)-C(39)	140.1(9)
C(39)-C(40)	138.3(10)
C(40)-C(41)	136.2(9)
C(41)-C(42)	138.9(9)
C(43)-C(48)	136.2(8)
C(43)-C(44)	139.6(8)
C(44)-C(45)	139.2(7)
C(45)-C(46)	138.2(9)

C(46)-C(47)	138.6(10)
C(47)-C(48)	137.8(7)
C(49)-C(54)	135.7(9)
C(49)-C(50)	142.8(8)
C(50)-C(51)	136.2(9)
C(51)-C(52)	133.5(10)
C(52)-C(53)	136.9(10)
C(53)-C(54)	141.1(9)
C(55)-C(56)	136.8(8)
C(55)-C(60)	139.6(7)
C(56)-C(57)	139.3(8)
C(57)-C(58)	136.9(8)
C(58)-C(59)	137.5(9)
C(59)-C(60)	138.2(8)
C(61)-C(66)	137.2(8)
C(61)-C(62)	140.9(8)
C(62)-C(63)	136.8(9)
C(63)-C(64)	136.3(9)
C(64)-C(65)	137.6(9)
C(65)-C(66)	139.5(9)
C(67)-C(72)	137.0(9)
C(67)-C(68)	141.7(8)
C(68)-C(69)	139.2(9)
C(69)-C(70)	136.2(9)
C(70)-C(71)	138.4(9)
C(71)-C(72)	138.2(9)

Cl(2)-Pt(1)-As(2)	90.96(5)
Cl(2)-Pt(1)-Cl(1)	88.17(7)
As(2)-Pt(1)-Cl(1)	178.79(5)
Cl(2)-Pt(1)-As(1)	172.72(5)
As(2)-Pt(1)-As(1)	96.32(3)
Cl(1)-Pt(1)-As(1)	84.55(5)
C(1)-As(1)-C(13)	99.7(3)
C(1)-As(1)-C(7)	105.9(3)
C(13)-As(1)-C(7)	101.7(3)

C(1)-As(1)-Pt(1)	112.23(19)
C(13)-As(1)-Pt(1)	126.5(2)
C(7)-As(1)-Pt(1)	108.8(2)
C(19)-As(2)-C(25)	106.7(3)
C(19)-As(2)-C(31)	107.7(3)
C(25)-As(2)-C(31)	98.5(3)
C(19)-As(2)-Pt(1)	111.3(2)
C(25)-As(2)-Pt(1)	115.4(2)
C(31)-As(2)-Pt(1)	116.09(19)
C(6)-C(1)-C(2)	118.2(6)
C(6)-C(1)-As(1)	123.0(4)
C(2)-C(1)-As(1)	118.8(5)
O(1)-C(2)-C(1)	117.3(6)
O(1)-C(2)-C(3)	121.9(6)
C(1)-C(2)-C(3)	120.7(6)
C(4)-C(3)-C(2)	119.3(6)
C(3)-C(4)-C(5)	120.9(7)
C(6)-C(5)-C(4)	119.1(7)
C(5)-C(6)-C(1)	121.9(6)
C(8)-C(7)-C(12)	121.0(6)
C(8)-C(7)-As(1)	117.9(5)
C(12)-C(7)-As(1)	121.0(5)
C(7)-C(8)-C(9)	120.2(7)
C(10)-C(9)-C(8)	118.6(7)
C(9)-C(10)-C(11)	122.4(6)
C(10)-C(11)-C(12)	119.2(7)
C(7)-C(12)-C(11)	118.5(7)
C(14)-C(13)-C(18)	119.7(8)
C(14)-C(13)-As(1)	119.7(6)
C(18)-C(13)-As(1)	120.6(6)
C(13)-C(14)-C(15)	118.2(9)
C(16)-C(15)-C(14)	120.4(10)
C(17)-C(16)-C(15)	118.9(10)
C(16)-C(17)-C(18)	122.9(10)
C(17)-C(18)-C(13)	119.8(9)
C(24)-C(19)-C(20)	117.6(6)

C(24)-C(19)-As(2)	124.7(5)
C(20)-C(19)-As(2)	117.4(5)
O(2)-C(20)-C(21)	121.4(6)
O(2)-C(20)-C(19)	117.7(6)
C(21)-C(20)-C(19)	120.9(7)
C(22)-C(21)-C(20)	120.3(7)
C(23)-C(22)-C(21)	120.4(7)
C(22)-C(23)-C(24)	119.1(7)
C(19)-C(24)-C(23)	121.7(6)
C(30)-C(25)-C(26)	121.3(7)
C(30)-C(25)-As(2)	121.8(5)
C(26)-C(25)-As(2)	116.4(6)
C(25)-C(26)-C(27)	116.4(9)
C(28)-C(27)-C(26)	120.8(9)
C(27)-C(28)-C(29)	120.1(7)
C(30)-C(29)-C(28)	121.3(9)
C(29)-C(30)-C(25)	120.0(8)
C(32)-C(31)-C(36)	120.4(7)
C(32)-C(31)-As(2)	117.5(5)
C(36)-C(31)-As(2)	122.0(5)
C(33)-C(32)-C(31)	119.0(7)
C(34)-C(33)-C(32)	121.8(7)
C(33)-C(34)-C(35)	119.0(7)
C(34)-C(35)-C(36)	121.3(6)
C(35)-C(36)-C(31)	118.5(6)
Cl(4)-Pt(2)-Cl(3)	87.04(6)
Cl(4)-Pt(2)-As(3)	178.10(5)
Cl(3)-Pt(2)-As(3)	91.16(4)
Cl(4)-Pt(2)-As(4)	84.21(4)
Cl(3)-Pt(2)-As(4)	170.38(4)
As(3)-Pt(2)-As(4)	97.55(2)
C(37)-As(3)-C(49)	104.9(3)
C(37)-As(3)-C(43)	105.4(2)
C(49)-As(3)-C(43)	94.5(2)
C(37)-As(3)-Pt(2)	115.29(15)
C(49)-As(3)-Pt(2)	116.08(18)

C(43)-As(3)-Pt(2)	117.95(19)
C(61)-As(4)-C(55)	100.6(2)
C(61)-As(4)-C(67)	101.9(3)
C(55)-As(4)-C(67)	104.6(2)
C(61)-As(4)-Pt(2)	124.44(14)
C(55)-As(4)-Pt(2)	110.49(17)
C(67)-As(4)-Pt(2)	112.60(19)
C(42)-C(37)-C(38)	119.7(6)
C(42)-C(37)-As(3)	122.6(5)
C(38)-C(37)-As(3)	117.6(5)
O(3)-C(38)-C(37)	116.8(6)
O(3)-C(38)-C(39)	123.8(6)
C(37)-C(38)-C(39)	119.4(6)
C(40)-C(39)-C(38)	119.3(7)
C(41)-C(40)-C(39)	121.6(7)
C(40)-C(41)-C(42)	119.1(7)
C(37)-C(42)-C(41)	120.9(6)
C(48)-C(43)-C(44)	120.4(5)
C(48)-C(43)-As(3)	119.0(4)
C(44)-C(43)-As(3)	118.7(5)
C(45)-C(44)-C(43)	119.1(6)
C(46)-C(45)-C(44)	119.9(6)
C(45)-C(46)-C(47)	120.0(5)
C(48)-C(47)-C(46)	119.9(6)
C(43)-C(48)-C(47)	120.6(6)
C(54)-C(49)-C(50)	118.8(6)
C(54)-C(49)-As(3)	123.8(5)
C(50)-C(49)-As(3)	116.8(4)
C(51)-C(50)-C(49)	119.2(6)
C(52)-C(51)-C(50)	121.2(6)
C(51)-C(52)-C(53)	121.8(7)
C(52)-C(53)-C(54)	118.4(6)
C(49)-C(54)-C(53)	120.6(6)
C(56)-C(55)-C(60)	118.9(5)
C(56)-C(55)-As(4)	119.7(4)
C(60)-C(55)-As(4)	121.3(5)

C(55)-C(56)-O(4)	115.8(5)
C(55)-C(56)-C(57)	121.2(5)
O(4)-C(56)-C(57)	123.0(5)
C(58)-C(57)-C(56)	119.1(6)
C(57)-C(58)-C(59)	120.7(5)
C(58)-C(59)-C(60)	120.0(5)
C(59)-C(60)-C(55)	120.0(6)
C(66)-C(61)-C(62)	117.7(6)
C(66)-C(61)-As(4)	121.3(5)
C(62)-C(61)-As(4)	120.8(4)
C(63)-C(62)-C(61)	120.7(6)
C(64)-C(63)-C(62)	120.2(6)
C(63)-C(64)-C(65)	121.0(7)
C(64)-C(65)-C(66)	118.6(6)
C(61)-C(66)-C(65)	121.7(6)
C(72)-C(67)-C(68)	118.6(6)
C(72)-C(67)-As(4)	121.8(4)
C(68)-C(67)-As(4)	119.6(5)
C(69)-C(68)-C(67)	119.4(6)
C(70)-C(69)-C(68)	120.4(6)
C(69)-C(70)-C(71)	120.8(6)
C(72)-C(71)-C(70)	119.1(7)
C(67)-C(72)-C(71)	121.7(6)

Symmetry transformations used to generate equivalent atoms:

Table 9. Anisotropic displacement parameters ($pm^2 x\ 10^{-1}$) for *cis*-[$PtCl_2(2\text{-}HOC_6H_4AsPh_2)_2$]. The anisotropic displacement factor exponent takes the form: $-2\pi^2[\ h^2a^{*2}U_{11} + ... + 2\ h\ k\ a^*\ b^*\ U_{12}\ ]$

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Pt(1)	31(1)	34(1)	26(1)	-3(1)	-3(1)	9(1)
As(1)	37(1)	34(1)	27(1)	-2(1)	-3(1)	8(1)
As(2)	36(1)	35(1)	27(1)	-2(1)	-2(1)	6(1)
Cl(1)	43(1)	52(1)	25(1)	-8(1)	-2(1)	7(1)
Cl(2)	48(1)	35(1)	43(1)	-6(1)	-5(1)	4(1)
O(1)	49(3)	46(3)	49(4)	7(3)	-5(3)	7(2)
O(2)	57(3)	60(4)	45(4)	-14(3)	-8(3)	7(3)
C(1)	33(3)	33(4)	28(4)	-5(3)	-1(3)	9(3)
C(2)	45(4)	32(4)	35(5)	2(3)	-1(4)	3(3)
C(3)	32(4)	38(4)	52(5)	-3(4)	-8(4)	5(3)
C(4)	39(4)	48(5)	52(6)	-8(4)	3(4)	-7(3)
C(5)	50(4)	45(5)	33(5)	4(4)	-1(4)	-8(4)
C(6)	39(4)	35(4)	40(5)	2(4)	-11(4)	6(3)
C(7)	39(4)	34(4)	25(4)	0(3)	1(3)	6(3)
C(8)	35(4)	51(5)	31(5)	-3(4)	3(3)	3(3)
C(9)	42(4)	53(5)	46(5)	1(4)	-4(4)	5(4)
C(10)	53(5)	55(6)	57(6)	-4(4)	-18(4)	24(4)
C(11)	80(6)	27(4)	77(7)	3(4)	-18(5)	28(4)
C(12)	53(4)	39(5)	48(5)	-3(4)	-5(4)	9(3)
C(13)	64(5)	49(5)	17(4)	0(4)	4(4)	-9(4)
C(14)	81(6)	68(6)	49(6)	-16(5)	-23(5)	-9(5)
C(15)	125(9)	74(7)	70(8)	-19(6)	-17(7)	-41(7)
C(16)	157(11)	73(8)	56(8)	-29(6)	2(8)	-16(8)
C(17)	131(9)	69(7)	84(9)	-41(7)	-6(7)	19(7)
C(18)	93(6)	71(7)	42(6)	-25(5)	-1(5)	11(5)
C(19)	39(4)	30(4)	28(4)	3(3)	1(3)	-2(3)
C(20)	48(4)	39(4)	28(5)	0(4)	-8(4)	-1(3)
C(21)	43(4)	67(6)	37(5)	3(4)	-6(4)	-3(4)
C(22)	43(4)	85(7)	37(5)	7(5)	-13(4)	-13(4)
C(23)	71(5)	56(5)	40(5)	-16(4)	-15(4)	-5(4)
C(24)	51(4)	41(4)	37(5)	-7(4)	-11(4)	4(3)

C(25)	37(4)	40(5)	55(6)	-4(4)	0(4)	7(3)
C(26)	55(5)	85(7)	65(7)	17(5)	2(5)	21(5)
C(27)	65(6)	104(9)	94(10)	28(7)	5(6)	31(6)
C(28)	51(5)	64(6)	110(10)	-21(7)	39(6)	17(4)
C(29)	59(5)	56(6)	68(7)	-20(5)	34(5)	-7(4)
C(30)	59(4)	42(5)	44(6)	-18(4)	15(4)	5(4)
C(31)	40(4)	32(4)	29(4)	-8(3)	-3(3)	3(3)
C(32)	37(4)	58(5)	52(6)	-6(4)	-6(4)	5(4)
C(33)	39(4)	54(5)	60(6)	-13(5)	5(4)	-13(4)
C(34)	56(5)	29(4)	46(6)	-5(4)	9(4)	-5(3)
C(35)	58(5)	34(4)	32(5)	1(4)	-3(4)	12(4)
C(36)	47(4)	28(4)	35(5)	-4(3)	-14(4)	6(3)
Pt(2)	19(1)	19(1)	22(1)	-1(1)	0(1)	-1(1)
As(3)	19(1)	21(1)	24(1)	-1(1)	-2(1)	-1(1)
As(4)	18(1)	19(1)	22(1)	-2(1)	-1(1)	-1(1)
Cl(3)	32(1)	27(1)	35(1)	7(1)	-2(1)	2(1)
Cl(4)	23(1)	35(1)	47(1)	2(1)	5(1)	-5(1)
O(3)	47(3)	36(3)	44(4)	-6(3)	-3(3)	-8(2)
O(4)	35(2)	33(3)	51(3)	-19(2)	-12(2)	13(2)
C(37)	17(3)	25(3)	23(4)	1(3)	1(3)	1(2)
C(38)	27(3)	20(3)	26(4)	-3(3)	-5(3)	-3(2)
C(39)	28(3)	54(5)	36(5)	-19(4)	-9(3)	3(3)
C(40)	27(3)	59(5)	28(5)	-1(4)	-3(3)	-2(3)
C(41)	22(3)	44(4)	32(5)	10(3)	-2(3)	-5(3)
C(42)	16(3)	30(4)	31(4)	2(3)	-3(3)	3(2)
C(43)	29(3)	23(3)	26(4)	3(3)	-6(3)	-2(3)
C(44)	25(3)	27(4)	30(4)	-3(3)	1(3)	-2(3)
C(45)	25(3)	27(4)	48(5)	-1(3)	-1(3)	1(3)
C(46)	30(3)	28(4)	59(6)	4(4)	-19(4)	-2(3)
C(47)	38(4)	38(4)	38(5)	-3(3)	-20(3)	3(3)
C(48)	34(3)	34(4)	28(4)	-7(3)	-1(3)	2(3)
C(49)	32(3)	23(3)	23(4)	2(3)	-4(3)	-2(3)
C(50)	35(3)	32(4)	29(4)	-5(3)	2(3)	-8(3)
C(51)	32(3)	43(5)	52(5)	-10(4)	-4(3)	-8(3)
C(52)	63(5)	30(4)	60(6)	-10(4)	-28(4)	-12(4)
C(53)	60(5)	31(4)	41(5)	-10(4)	-10(4)	14(4)

C(54)	34(3)	35(4)	44(5)	-4(3)	-16(3)	10(3)
C(55)	21(3)	20(3)	35(4)	8(3)	-5(3)	-5(2)
C(56)	33(3)	12(3)	32(4)	-2(3)	-3(3)	-1(2)
C(57)	37(3)	31(4)	38(5)	-2(3)	-4(3)	-3(3)
C(58)	31(3)	42(4)	41(5)	0(4)	-14(3)	-17(3)
C(59)	19(3)	48(4)	37(5)	-1(4)	-10(3)	1(3)
C(60)	21(3)	34(4)	31(4)	-15(3)	2(3)	-3(3)
C(61)	17(3)	29(3)	33(4)	-11(3)	-8(3)	4(2)
C(62)	27(3)	20(3)	34(4)	-5(3)	-2(3)	-8(3)
C(63)	35(3)	47(4)	16(4)	0(3)	-1(3)	-2(3)
C(64)	28(3)	34(4)	34(5)	7(3)	0(3)	3(3)
C(65)	28(3)	32(4)	38(5)	-3(3)	3(3)	-5(3)
C(66)	28(3)	22(3)	24(4)	-2(3)	1(3)	0(3)
C(67)	22(3)	23(3)	41(5)	-11(3)	-11(3)	-3(2)
C(68)	31(3)	29(4)	26(4)	-6(3)	0(3)	-1(3)
C(69)	34(3)	19(4)	47(5)	-1(3)	-5(3)	2(3)
C(70)	29(3)	27(4)	54(6)	-17(4)	7(3)	-5(3)
C(71)	39(4)	46(5)	36(5)	-5(4)	0(3)	-9(3)
C(72)	35(3)	29(4)	25(4)	-1(3)	-3(3)	-7(3)