Anhang zur Dissertation Gernot Volker Bauer

Kristallographische Daten und Messparameter

cis-Bis[3-{(Diphenylphosphanyl-*kP*)methyl}benzol-1,2-diolato-*kO*^{1}] palladium(II) (5)

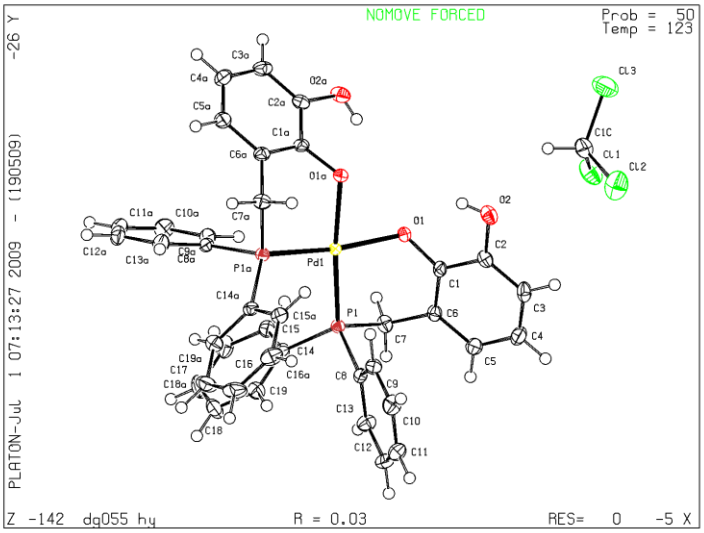
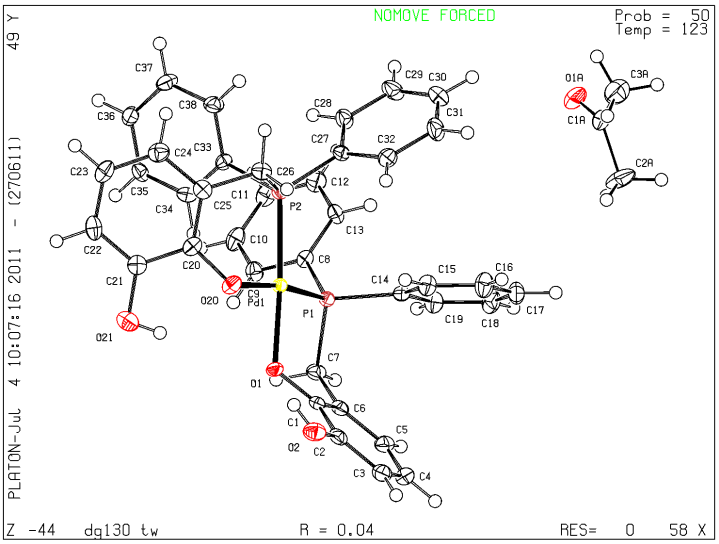


Table 1. Crystal data and structure refinement for dg055_hy.

Identification code	dg055_hy
Empirical formula	C40 H34 Cl6 O4 P2 Pd C38 H32 O4 P2 Pd - 2 CHCl3
Formula weight	959.71
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, C2/c (No.15)
Unit cell dimensions	a = 13.848(1) A alpha = 90 deg. b = 28.665(2) A beta = 116.05(1) deg. c = 11.434(1) A gamma = 90 deg.
Volume	4077.7(5) A^3
Z, Calculated density	4, 1.563 Mg/m^3
Absorption coefficient	0.967 mm^-1
F(000)	1936
Crystal size	0.35 x 0.20 x 0.10 mm
Theta range for data collection	3.16 to 27.48 deg.
Limiting indices	-17<=h<=17, -37<=k<=37, -14<=l<=14
Reflections collected / unique	47694 / 4678 [R(int) = 0.0384]
Completeness to theta = 27.48	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9010 and 0.7415
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	4678 / 1 / 243
Goodness-of-fit on F^2	1.043
Final R indices [I>2sigma(I)]	R1 = 0.0258, wR2 = 0.0560
R indices (all data)	R1 = 0.0331, wR2 = 0.0587
Largest diff. peak and hole	0.663 and -0.603 e.A^-3



DG130_HY
K-289

G. Bauer

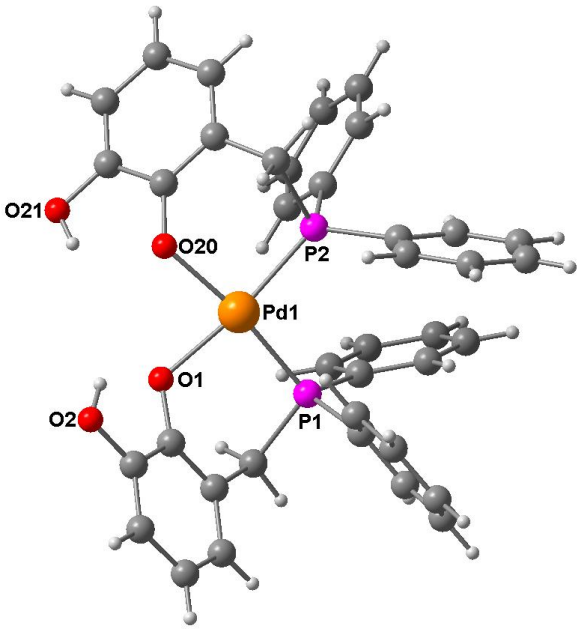
non-merohedral twin
BASF 0.0962(15)

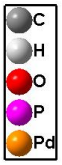
solved by
Patterson Methods

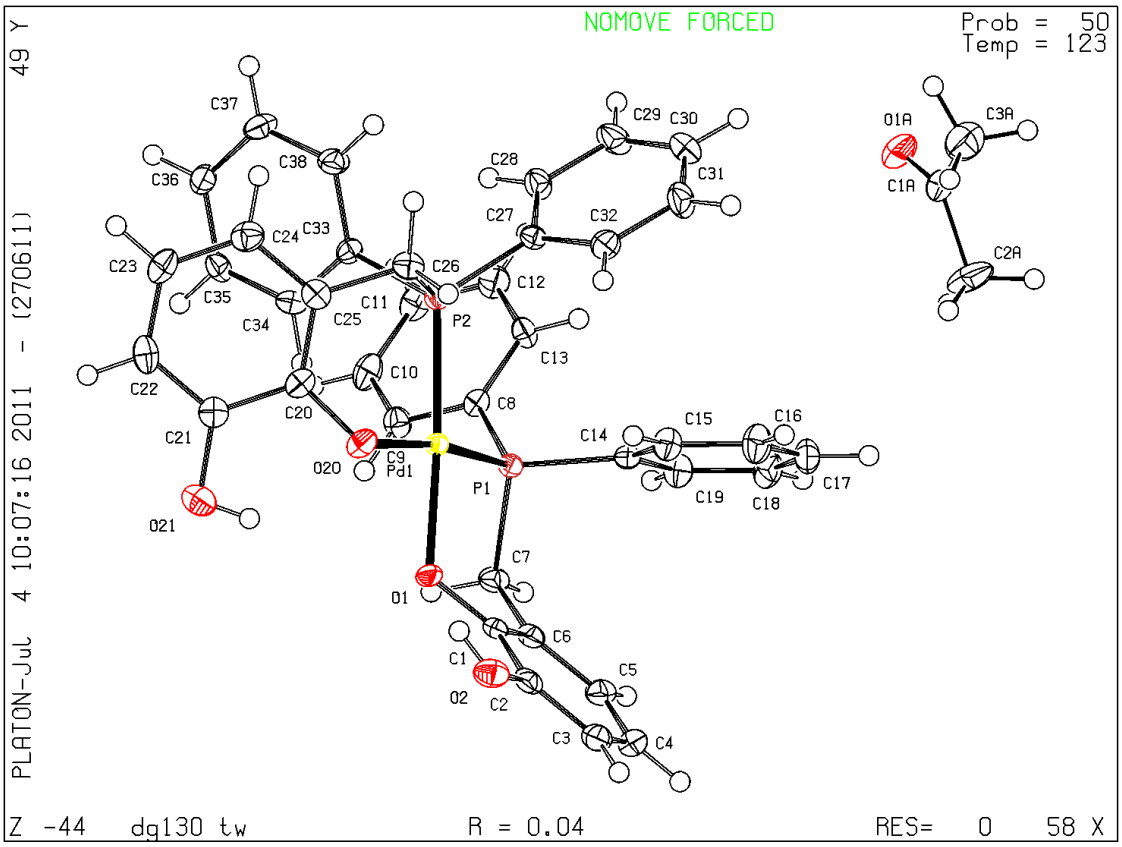
See also:
DG055_HY
DG129_HY

Crystal data and structure refinement for dg130_hy.

Identification code	**dg130_tw**
Empirical formula	**C39.50 H35 O4.50 P2 Pd** **C38 H32 O4 P2 Pd - 1/2 aceton**
Formula weight	**750.02**
Temperature	**123(2) K**
Wavelength	**0.71073 A**
Crystal system, space group	**Triclinic, P-1 (No.2)**
Unit cell dimensions	**a = 11.447(1) A alpha = 68.51(1) deg.** **b = 12.559(2) A beta = 68.15(1) deg.** **c = 13.501(2) A gamma = 88.13(1) deg.**
Volume	**1664.1(4) A^3**
Z, Calculated density	**2, 1.497 Mg/m^3**
Absorption coefficient	**0.697 mm^-1**
F(000)	**768**
Crystal size	**0.24 x 0.16 x 0.08 mm**
Theta range for data collection	**2.92 to 27.48 deg.**
Limiting indices	**-14<=h<=14, -15<=k<=16, -17<=l<=17**
Reflections collected / unique	**7617 / 7617 [R(int) = 0.0000]**
non-merohedral twin	**BASF = 0.0962(15)**
Completeness to theta = 27.48	**99.7 %**
Absorption correction	**Semi-empirical from equivalents**
Max. and min. transmission	**0.9422 and 0.6498**
Refinement method	**Full-matrix least-squares on F^2**
Data / restraints / parameters	**7617 / 41 / 451**
Goodness-of-fit on F^2	**1.189**
Final R indices [I>2sigma(I)]	**R1 = 0.0400, wR2 = 0.0919**
R indices (all data)	**R1 = 0.0468, wR2 = 0.0942**
Largest diff. peak and hole	**0.931 and -0.878 e.A^-3**


O21
O20
P2
Pd1
O1
O2
P1


C
H
O
P
Pd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Z -44 dg130 tw
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C37
C38
C36
C24
C33
C23
C35
C34
C25
C11
C26
C12
C27
C28
C29
C30
C31
C32
P2
C13
C10
C22
C20
C8
C21
O20
C9
Pd1
P1
C14
C15
C16
C17
C18
C19
O21
O1
C7
C6
C1
O2
C2
C5
C3
C4
O1A
C3A
C1A
C2A

Table 1. Crystal data and structure refinement for dg130_hy.

Identification code	dg130_tw
Empirical formula	C39.50 H35 O4.50 P2 Pd C38 H32 O4 P2 Pd - 1/2 aceton
Formula weight	750.02
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 11.447(1) A alpha = 68.51(1) deg. b = 12.559(2) A beta = 68.15(1) deg. c = 13.501(2) A gamma = 88.13(1) deg.
Volume	1664.1(4) A^3
Z, Calculated density	2, 1.497 Mg/m^3
Absorption coefficient	0.697 mm^-1
F(000)	768
Crystal size	0.24 x 0.16 x 0.08 mm
Theta range for data collection	2.92 to 27.48 deg.
Limiting indices	-14<=h<=14, -15<=k<=16, -17<=l<=17
Reflections collected / unique	7617 / 7617 [R(int) = 0.0000]
non-merohedral twin	BASF = 0.0962(15)
Completeness to theta = 27.48	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9422 and 0.6498
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7617 / 41 / 451
Goodness-of-fit on F^2	1.189
Final R indices [I>2sigma(I)]	R1 = 0.0400, wR2 = 0.0919
R indices (all data)	R1 = 0.0468, wR2 = 0.0942
Largest diff. peak and hole	0.931 and -0.878 e.A^-3

cis-Bis[3-{(Diphenylphosphanyl-_*kP*_)methyl}benzol-1,2-diolato-_*kO*^{1}_]platin(II) (6)

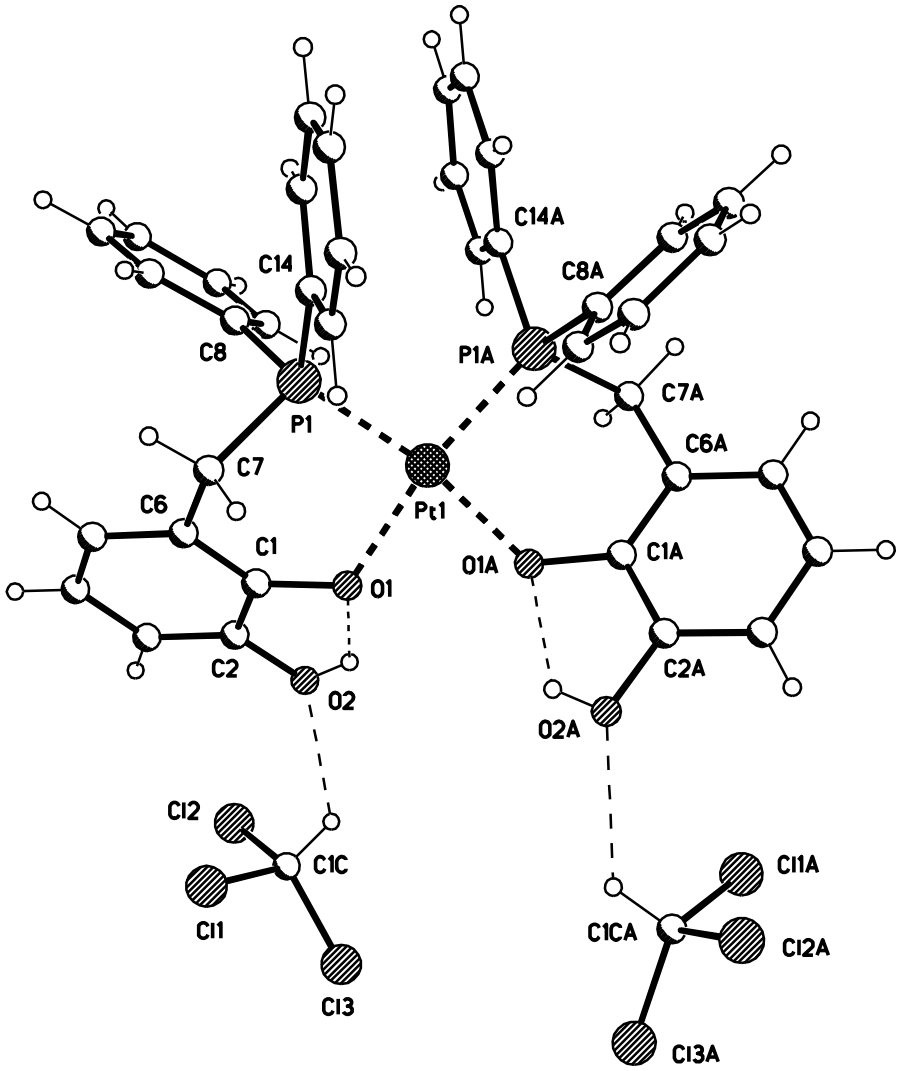

C14A
C14
C8A
C8
P1A
P1
C7A
C7
C6A
C6
Pt1
C1
O1A
C1A
O1
C2
C2A
O2
O2A
Cl2
C1C
Cl1A
Cl1
C1CA
Cl2A
Cl3
Cl3A

Table 1. Crystal data and structure refinement for gbau02.

Identification code	gbau02
Empirical formula	C40 H34 Cl6 O4 P2 Pt
Formula weight	1048.40
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, C 2/c (No. 15)
Unit cell dimensions	a = 13.864(2) A alpha = 90 deg. b = 28.702(4) A beta = 116.210(10) deg. c = 11.4290(10) A gamma = 90 deg.
Volume	4080.3(9) A^3
Z, Calculated density	4, 1.707 Mg/m^3
Absorption coefficient	3.951 mm^-1
F(000)	2064
Crystal size	0.30 x 0.10 x 0.05 mm
Theta range for data collection	3.16 to 27.48 deg.
Limiting indices	-17<=h<=17, -37<=k<=37, -14<=l<=14
Reflections collected / unique	46840 / 4671 [R(int) = 0.0535]
Completeness to theta = 27.48	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.8372 and 0.4616
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	4671 / 1 / 243
Goodness-of-fit on F^2	1.076
Final R indices [I>2sigma(I)]	R1 = 0.0256, wR2 = 0.0636
R indices (all data)	R1 = 0.0282, wR2 = 0.0649
Largest diff. peak and hole	2.285 and -0.974 e.A^-3

2,2'-Bis(ethoxymethoxy)biphenyl (18)

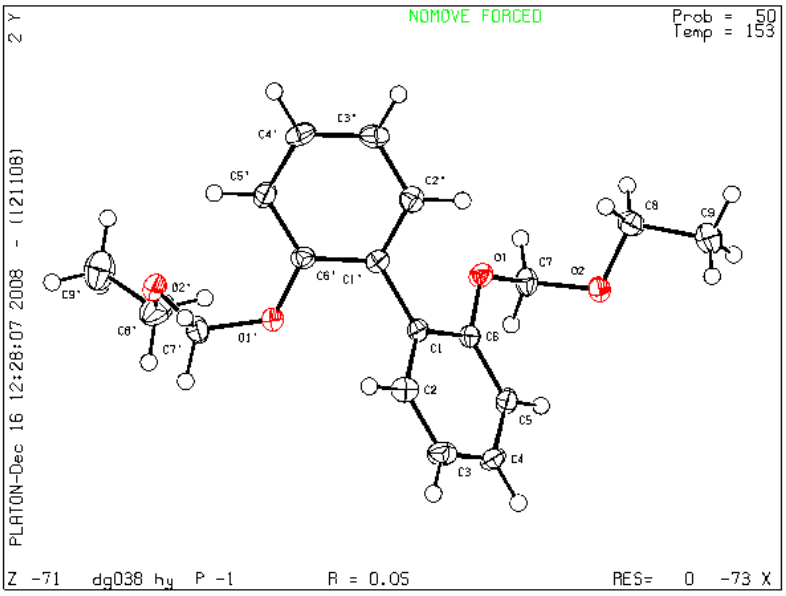


Table 1. Crystal data and structure refinement for dg038_hy.

Identification code	dg038_hy
Empirical formula	C18 H22 O4
Formula weight	302.36
Temperature	153(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 7.895(1) A alpha = 78.17(1) deg. b = 10.347(1) A beta = 74.08(1) deg. c = 10.530(1) A gamma = 86.21(1) deg.
Volume	809.59(15) A^3
Z, Calculated density	2, 1.240 Mg/m^3
Absorption coefficient	0.087 mm^-1
F(000)	324
Crystal size	0.30 x 0.10 x 0.10 mm
Theta range for data collection	3.14 to 27.48 deg.
Limiting indices	-10<=h<=10, -13<=k<=12, -12<=l<=13
Reflections collected / unique	8422 / 3697 [R(int) = 0.0319]
Completeness to theta = 25.00	99.7 %
Absorption correction	None
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	3697 / 0 / 199
Goodness-of-fit on F^2	1.016
Final R indices [I>2sigma(I)]	R1 = 0.0491, wR2 = 0.0977
R indices (all data)	R1 = 0.0858, wR2 = 0.1110
Largest diff. peak and hole	0.248 and -0.216 e.A^-3

3-[(Diphenylphosphorothioyl)methyl]benzol-1,2-diol (23)

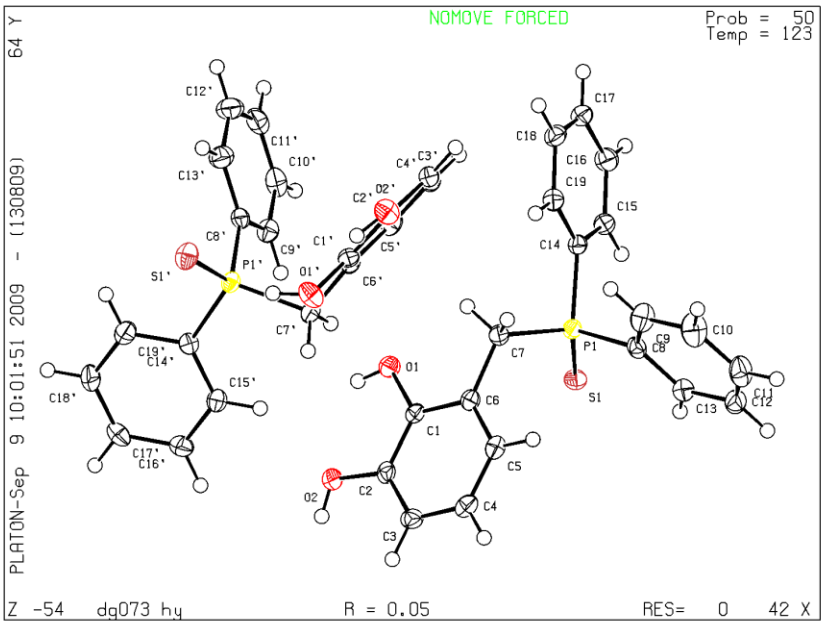


Table 1. Crystal data and structure refinement for dg073_hy.

Identification code	dg073_hy
Empirical formula	C19 H17 O2 P S
Formula weight	340.36
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P -1
Unit cell dimensions	a = 9.493(2) A alpha = 89.55(2) deg. b = 13.293(3) A beta = 72.32(2) deg. c = 13.863(3) A gamma = 81.28(2) deg.
Volume	1646.1(6) A^3
Z, Calculated density	4, 1.373 Mg/m^3
Absorption coefficient	0.300 mm^-1
F(000)	712
Crystal size	0.35 x 0.30 x 0.25 mm
Theta range for data collection	3.10 to 27.48 deg.
Limiting indices	-12<=h<=11, -17<=k<=16, -17<=l<=17
Reflections collected / unique	16589 / 7394 [R(int) = 0.0398]
Completeness to theta = 25.00	98.4 %
Absorption correction	None
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7394 / 4 / 427
Goodness-of-fit on F^2	1.119
Final R indices [I>2sigma(I)]	R1 = 0.0541, wR2 = 0.1184
R indices (all data)	R1 = 0.0788, wR2 = 0.1298
Largest diff. peak and hole	0.571 and -0.383 e.A^-3

[Diphenyl-(benzo-[1,3]-4-ylmethyl)-phosphan-*kP*]chlorogold(I) (24)

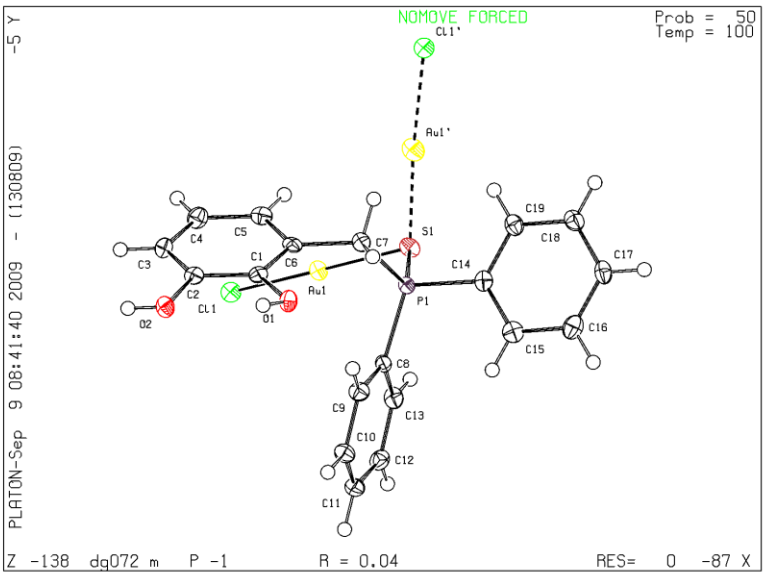


Table 1. Crystal data and structure refinement for dg072_m.

Identification code	dg072_m
Empirical formula	C19 H17 Au Cl O2 P S
Formula weight	572.77
Temperature	100(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 9.4738(3) A alpha = 108.527(2) deg. b = 10.0651(3) A beta = 105.608(2) deg. c = 10.8564(3) A gamma = 98.982(2) deg.
Volume	911.67(5) A^3
Z, Calculated density	2, 2.087 Mg/m^3
Absorption coefficient	8.427 mm^-1
F(000)	548
Crystal size	0.20 x 0.15 x 0.10 mm
Theta range for data collection	3.25 to 27.42 deg.
Limiting indices	-12<=h<=12, -13<=k<=13, -14<=l<=14
Reflections collected / unique	16429 / 4131 [R(int) = 0.0610]
Completeness to theta = 27.42	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.48526 and 0.28698
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	4131 / 5 / 242
Goodness-of-fit on F^2	1.064
Final R indices [I>2sigma(I)]	R1 = 0.0378, wR2 = 0.0960
R indices (all data)	R1 = 0.0400, wR2 = 0.0981
Largest diff. peak and hole	3.905 and -3.174 e.A^-3

μ-($\eta^2;\eta^6$-3-[(Diphenylphosphorothioyl)-methyl]-benzol-1,2-diolato-*kO,kO'*)-di-[(cycloocta-1,5-dien)rhodium(I)] (25)

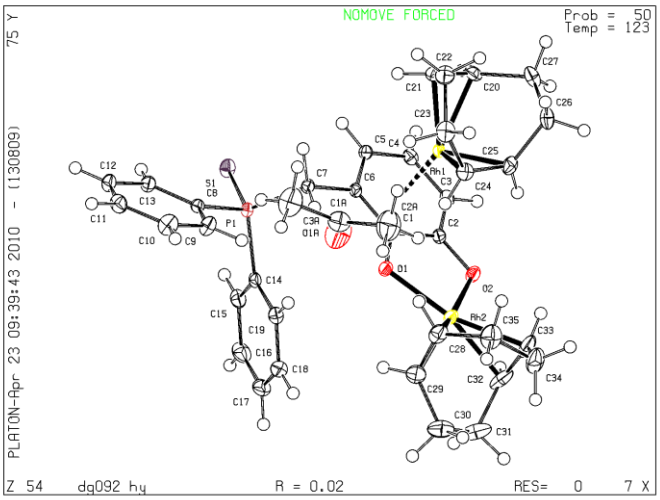


Table 1. Crystal data and structure refinement for dg092_hy.

Identification code	dg092_hy
Empirical formula	C38 H45 O3 P Rh2 S C35 H39 O2 P Rh2 S - aceton
Formula weight	818.59
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 11.383(1) A alpha = 72.45(1) deg. b = 12.220(1) A beta = 89.12(1) deg. c = 13.029(1) A gamma = 82.82(1) deg.
Volume	1714.0(2) A^3
Z, Calculated density	2, 1.586 Mg/m^3
Absorption coefficient	1.107 mm^-1
F(000)	836
Crystal size	0.40 x 0.16 x 0.08 mm
Theta range for data collection	3.14 to 27.48 deg.
Limiting indices	-14<=h<=14, -15<=k<=15, -16<=l<=16
Reflections collected / unique	41778 / 7843 [R(int) = 0.0282]
Completeness to theta = 27.48	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9144 and 0.7262
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7843 / 0 / 408
Goodness-of-fit on F^2	1.051
Final R indices [I>2sigma(I)]	R1 = 0.0197, wR2 = 0.0471
R indices (all data)	R1 = 0.0250, wR2 = 0.0499
Largest diff. peak and hole	0.516 and -0.529 e.A^-3

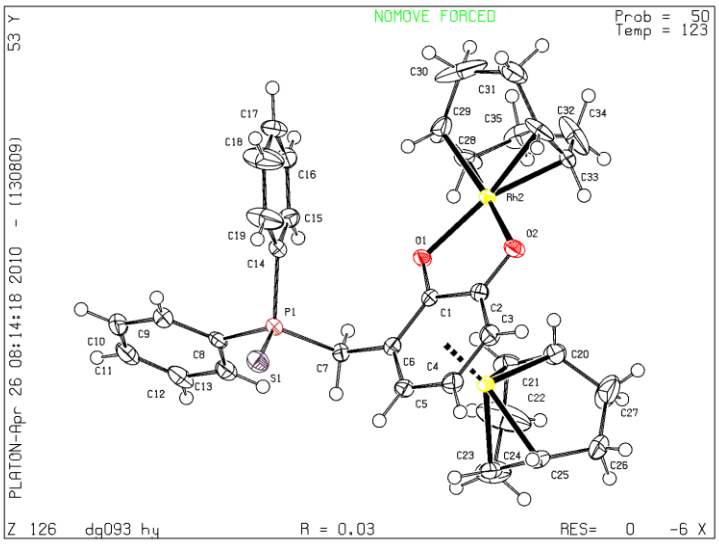
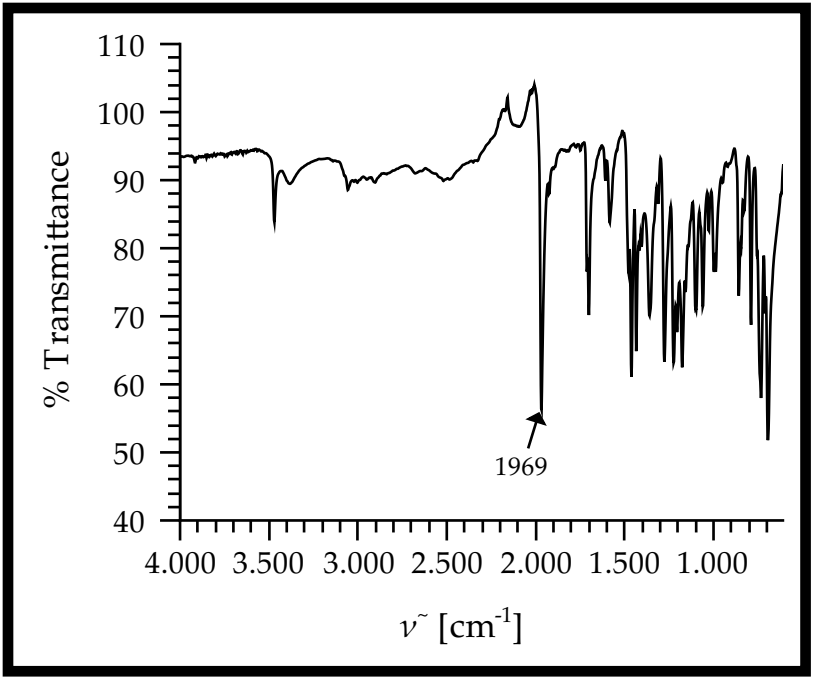
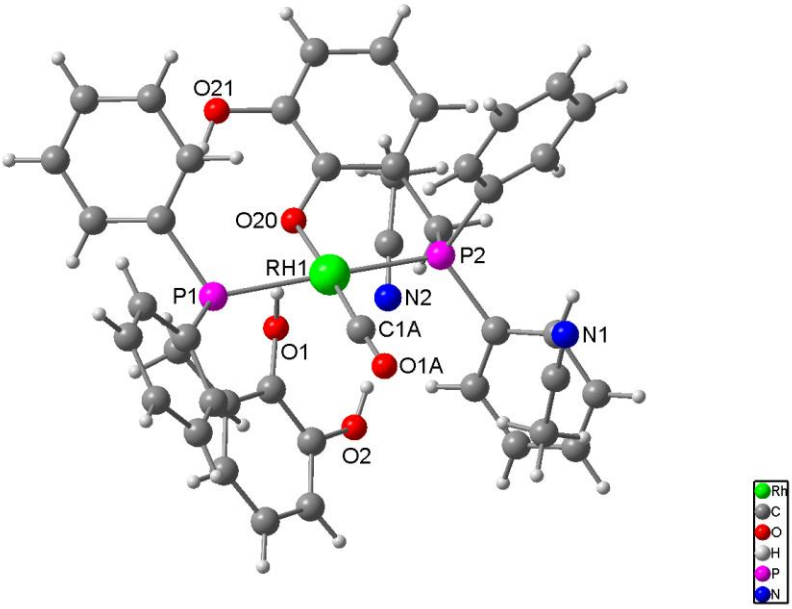


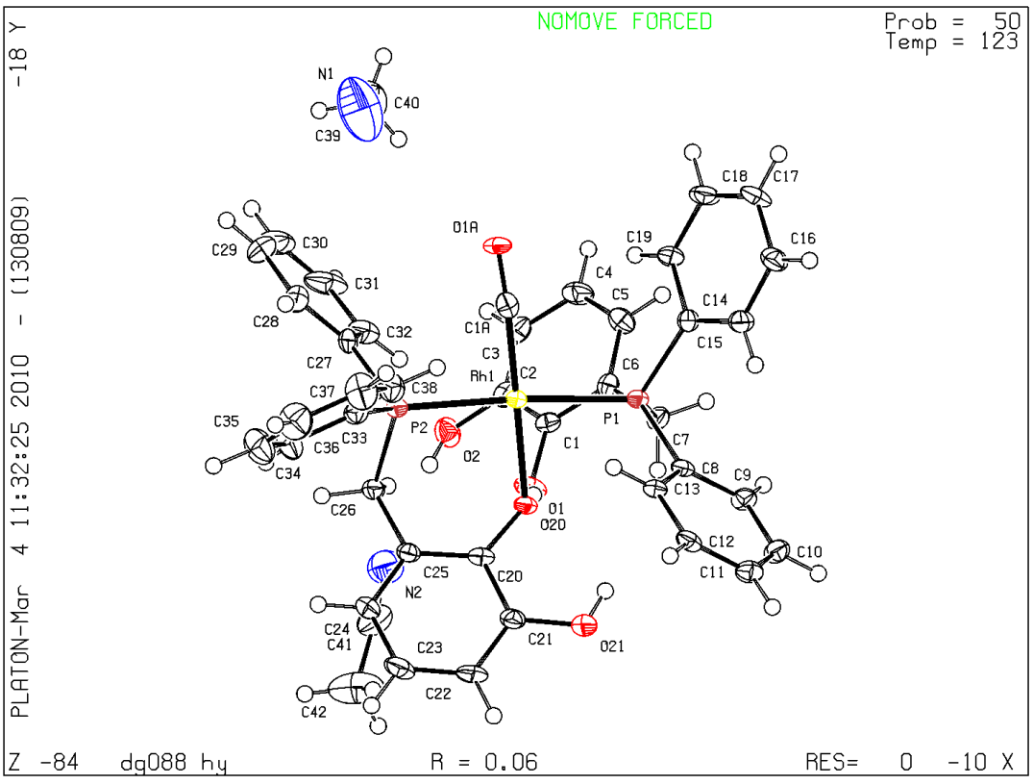
Table 1. Crystal data and structure refinement for dg093_hy.

Identification code	dg093_hy
Empirical formula	C35 H39 O2 P Rh2 S
Formula weight	760.51
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 10.482(1) A alpha = 110.91(1) deg. b = 12.689(1) A beta = 111.70(1) deg. c = 13.314(1) A gamma = 90.77(1) deg.
Volume	1515.3(2) A^3
Z, Calculated density	2, 1.667 Mg/m^3
Absorption coefficient	1.243 mm^-1
F(000)	772
Crystal size	0.40 x 0.30 x 0.25 mm
Theta range for data collection	2.94 to 27.48 deg.
Limiting indices	-13<=h<=10, -16<=k<=16, -17<=l<=17
Reflections collected / unique	22746 / 6923 [R(int) = 0.0309]
Completeness to theta = 27.48	99.5 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7456 and 0.6403
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	6923 / 0 / 370
Goodness-of-fit on F^2	1.075
Final R indices [I>2sigma(I)]	R1 = 0.0312, wR2 = 0.0730
R indices (all data)	R1 = 0.0399, wR2 = 0.0780
Largest diff. peak and hole	0.890 and -0.680 e.A^-3


110
100
90
80
70
60
50
40
% Transmittance
1969
4.000 3.500 3.000 2.500 2.000 1.500 1.000
ν˜ [cm-1]

trans-[3-{(Diphenylphosphanyl-_kP_)methyl}benzol-1,2-diolato-_kO_^{1}]-[3-{(Diphenylphosphanyl-_kP_)methyl}benzol-1,2-diol](carbonyl)rhodium(I) (26)


O21
O20
RH1
P2
P1
N2
C1A
N1
O1
O1A
O2
Rh
C
O
H
P
N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C40
C39
O1A
C18
C17
C19
C16
C29
C30
C4
C5
C14
C31
C28
C32
C1A
C3
C15
C27
C37
C38
Rh1
C2
C6
C35
C33
P2
P1
C36
C34
O2
C1
C7
C8
C9
C13
C26
O1
O20
C12
C10
C11
C25
C20
N2
C24
C41
C21
O21
C23
C22
C42

Table 1. Crystal data and structure refinement for dg088_hy.

Identification code	dg088_hy
Empirical formula	C43 H39 N2 O5 P2 Rh C39 H33 N2 O5 P2 Rh - 2 CH3CN
Formula weight	828.61
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/c (No.14)
Unit cell dimensions	a = 10.624(1) A alpha = 90 deg. b = 15.477(2) A beta = 95.53(1) deg. c = 23.849(4) A gamma = 90 deg.
Volume	3903.2(9) A^3
Z, Calculated density	4, 1.410 Mg/m^3
Absorption coefficient	0.567 mm^-1
F(000)	1704
Crystal size	0.24 x 0.08 x 0.04 mm
Theta range for data collection	3.00 to 27.48 deg.
Limiting indices	-13<=h<=13, -20<=k<=20, -30<=l<=30
Reflections collected / unique	58886 / 8934 [R(int) = 0.0992]
Completeness to theta = 27.48	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9703 and 0.7118
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8934 / 3 / 489
Goodness-of-fit on F^2	1.072
Final R indices [I>2sigma(I)]	R1 = 0.0640, wR2 = 0.1461
R indices (all data)	R1 = 0.0995, wR2 = 0.1642
Largest diff. peak and hole	2.563 and -1.051 e.A^-3

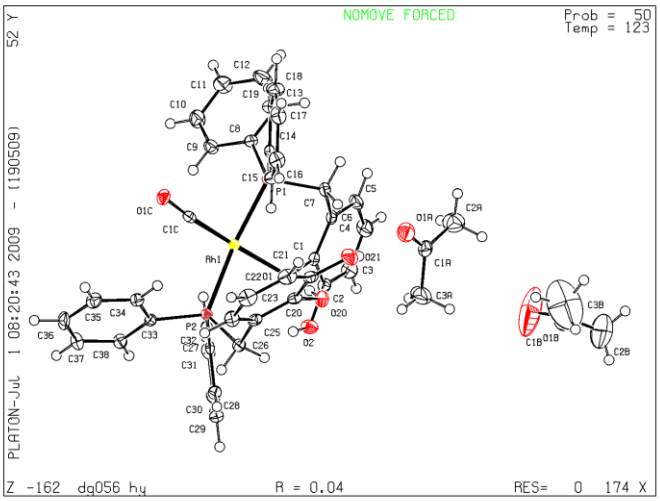


Table 1. Crystal data and structure refinement for dg056_hy.

Identification code	dg056_hy
Empirical formula	C45 H45 O7 P2 Rh C39 H33 O5 P2 Rh - 2 aceton
Formula weight	862.66
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/c (No.14)
Unit cell dimensions	a = 10.593(1) A alpha = 90 deg. b = 16.620(2) A beta = 93.03(1) deg. c = 23.179(3) A gamma = 90 deg.
Volume	4075.1(8) A^3
Z, Calculated density	4, 1.406 Mg/m^3
Absorption coefficient	0.548 mm^-1
F(000)	1784
Crystal size	0.30 x 0.15 x 0.10 mm
Theta range for data collection	2.91 to 27.48 deg.
Limiting indices	-13<=h<=13, -21<=k<=21, -30<=l<=29
Reflections collected / unique	61872 / 9325 [R(int) = 0.0676]
Completeness to theta = 27.48	99.9 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9472 and 0.7068
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	9325 / 9 / 509
Goodness-of-fit on F^2	1.046
Final R indices [I>2sigma(I)]	R1 = 0.0398, wR2 = 0.0749
R indices (all data)	R1 = 0.0600, wR2 = 0.0812
Largest diff. peak and hole	0.607 and -0.418 e.A^-3

Palladium(II)-bis{diphenyl-(benzo-[1,3]-*μ*-oxo-*k*-oxo-4-ylmethyl)-phosphan)}-aluminium(III)-2,4-pentandionat (27)

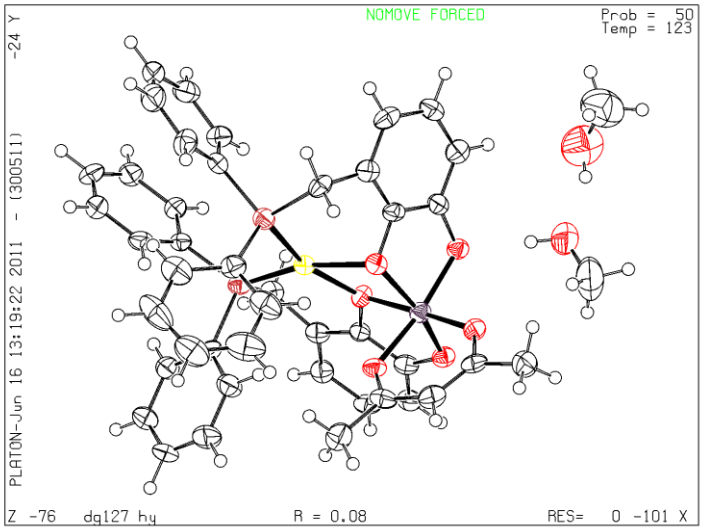
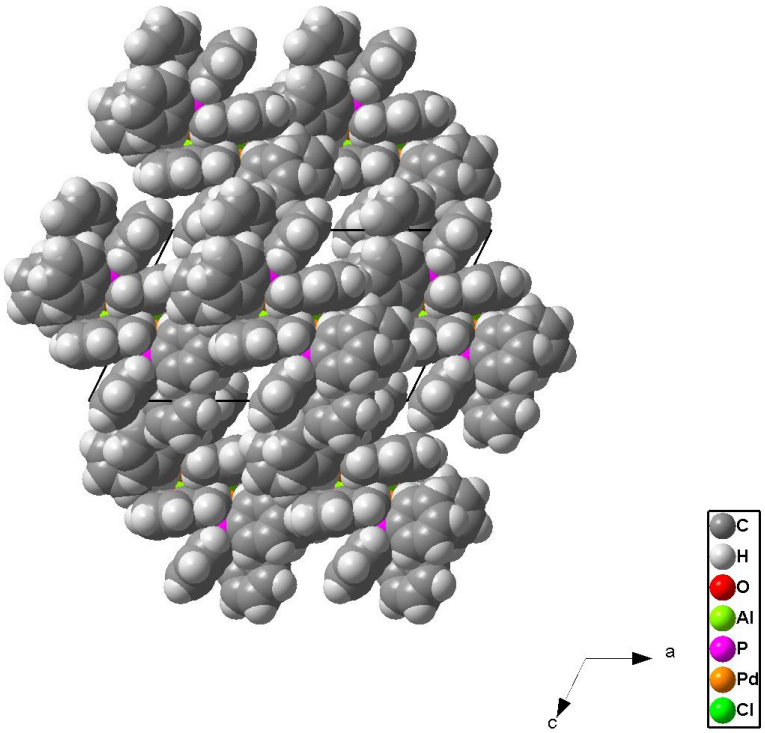


Table 1. Crystal data and structure refinement for dg127_hy.

Identification code	dg127_hy
Empirical formula	C45 H45 Al O8 P2 Pd C43 H37 Al O6 P2 Pd - 2 MeOH
Formula weight	909.13
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P -1
Unit cell dimensions	a = 12.393(2) A alpha = 96.11(1) deg. b = 13.325(2) A beta = 112.09(1) deg. c = 13.465(2) A gamma = 97.42(1) deg.
Volume	2013.8(5) A^3
Z, Calculated density	2, 1.499 Mg/m^3
Absorption coefficient	0.617 mm^-1
F(000)	936
Crystal size	0.16 x 0.08 x 0.04 mm
Theta range for data collection	2.98 to 25.00 deg.
Limiting indices	-14<=h<=14, -15<=k<=15, -15<=l<=15
Reflections collected / unique	28365 / 7058 [R(int) = 0.1239]
Completeness to theta = 25.00	99.6 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9801 and 0.6572
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7058 / 37 / 520
Goodness-of-fit on F^2	1.041
Final R indices [I>2sigma(I)]	R1 = 0.0759, wR2 = 0.1556
R indices (all data)	R1 = 0.1322, wR2 = 0.1802
Largest diff. peak and hole	1.125 and -0.724 e.A^-3

Bis-[palladium(II)-bis{diphenyl-(benzo-[1,3]-*μ*-oxo-*k*-oxo-4-ylmethyl)-phosphan)}]aluminium(III) (28)



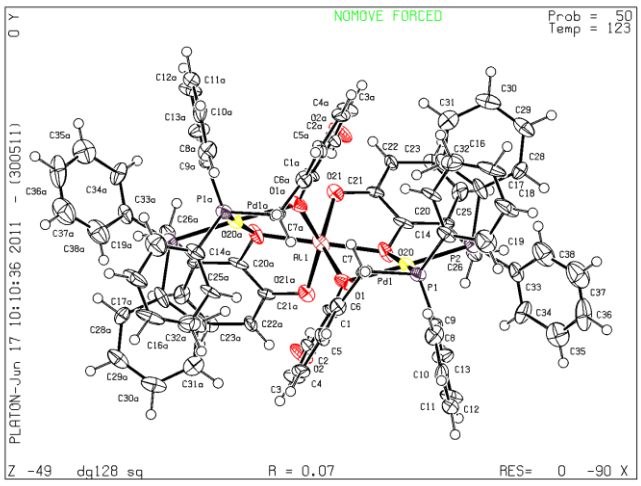


Table 1. Crystal data and structure refinement for dg128_hy.

Identification code	dg128_sq - SQUEEZE data
Empirical formula	C78 H65 Al Cl4 O8 P4 Pd2 C76 H61 Al O8 P4 Pd2 - 2 CH2Cl2
Formula weight	1635.76
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, C2 (No. 5)
Unit cell dimensions	a = 22.608(2) A alpha = 90 deg. b = 13.568(1) A beta = 116.15(1) deg. c = 13.497(1) A gamma = 90 deg.

Volume	3716.4(5) A^3
Z, Calculated density	2, 1.462 Mg/m^3
Absorption coefficient	0.780 mm^-1
F(000)	1660
Crystal size	0.12 x 0.06 x 0.02 mm
Theta range for data collection	3.00 to 25.02 deg.
Limiting indices	-26<=h<=24, -16<=k<=16, 0<=l<=16
Reflections collected / unique	6509 / 6509 [R(int) = 0.0000]
Completeness to theta = 25.02	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9801 and 0.7985
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	6509 / 1 / 412
Goodness-of-fit on F^2	0.947
Final R indices [I>2sigma(I)]	R1 = 0.0700, wR2 = 0.1309
R indices (all data)	R1 = 0.1300, wR2 = 0.1475
Absolute structure parameter	-0.10(5)
Largest diff. peak and hole	0.759 and -0.661 e.A^-3

Palladium(II)-bis{diphenyl-(benzo-[1,3]-*μ*-oxo-*k*-oxo-4-ylmethyl)-phosphan)}-chloro(dimethylformamid-*O*)gallium(III) (33)

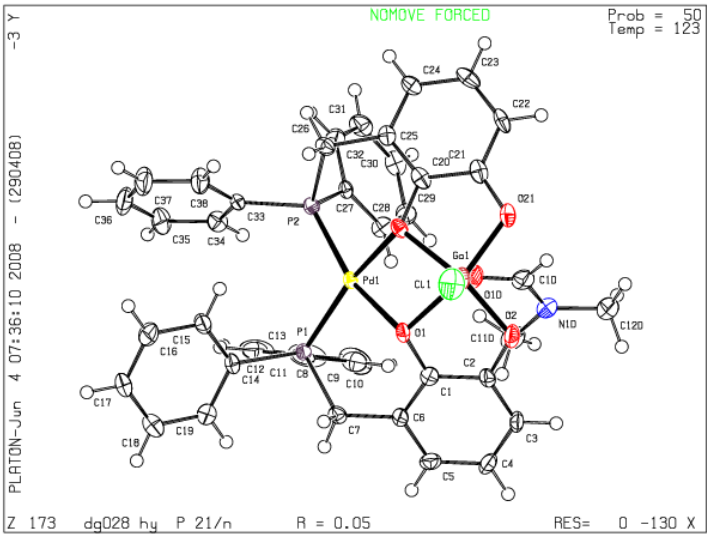


Table 1. Crystal data and structure refinement for dg028_hy.

Identification code	dg028_hy
Empirical formula	C41 H37 Cl Ga N O5 P2 Pd
Formula weight	897.23
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 12.644(1) A alpha = 90 deg. b = 16.798(2) A beta = 104.01(1) deg. c = 17.833(2) A gamma = 90 deg.
Volume	3675.0(7) A^3
Z, Calculated density	4, 1.622 Mg/m^3
Absorption coefficient	1.430 mm^-1
F(000)	1816
Crystal size	0.20 x 0.12 x 0.08 mm
Theta range for data collection	2.94 to 25.02 deg.
Limiting indices	-15<=h<=14, -18<=k<=19, -21<=l<=21
Reflections collected / unique	26201 / 6417 [R(int) = 0.0865]
Completeness to theta = 25.02	99.2 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.8620 and 0.7504
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	6417 / 0 / 471
Goodness-of-fit on F^2	1.069
Final R indices [I>2sigma(I)]	R1 = 0.0531, wR2 = 0.0776
R indices (all data)	R1 = 0.0978, wR2 = 0.0877
Largest diff. peak and hole	0.586 and -0.550 e.A^-3

Dichloro-[bis{bis(diphenyl-{benzo-[1,3]-μO^1-kO^2-4-ylmethyl}-phosphan-*kP*)palladium(II)}-μO^1-kO^2-μO^2-diindium(III)] (34)

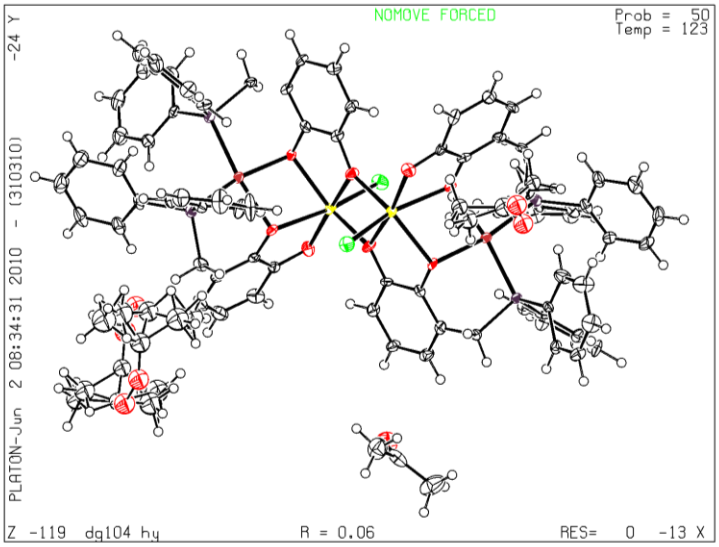


Table 1. Crystal data and structure refinement for dg104_hy.

Identification code	dg104_hy
Empirical formula	C88 H84 Cl2 In2 O12 P4 Pd2 C76 H60 Cl2 In2 O8 P4 Pd2 - 4 aceton
Formula weight	1970.77
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 11.116(1) A alpha = 100.09(1) deg. b = 19.005(2) A beta = 103.19(1) deg. c = 20.826(2) A gamma = 99.94(1) deg.
Volume	4112.3(7) A^3
Z, Calculated density	2, 1.592 Mg/m^3
Absorption coefficient	1.188 mm^-1
F(000)	1984
Crystal size	0.18 x 0.09 x 0.03 mm
Theta range for data collection	2.93 to 25.03 deg.
Limiting indices	-13<=h<=13, -22<=k<=22, -24<=l<=24
Reflections collected / unique	43026 / 14483 [R(int) = 0.0717]
Completeness to theta = 25.03	99.6 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9703 and 0.8188
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	14483 / 224 / 981
Goodness-of-fit on F^2	1.019
Final R indices [I>2sigma(I)]	R1 = 0.0571, wR2 = 0.1048
R indices (all data)	R1 = 0.1140, wR2 = 0.1238
Largest diff. peak and hole	1.637 and -1.016 e.A^-3

Palladium(II)-bis{diphenyl-(benzo-[1,3]-*μ*-oxo-*k*-oxo-4-ylmethyl)-phosphan)}-dimethoxytitan(IV) (36)

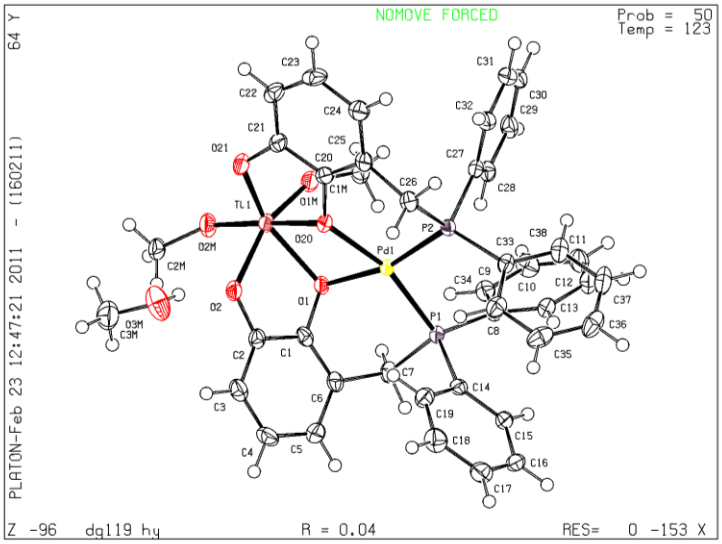
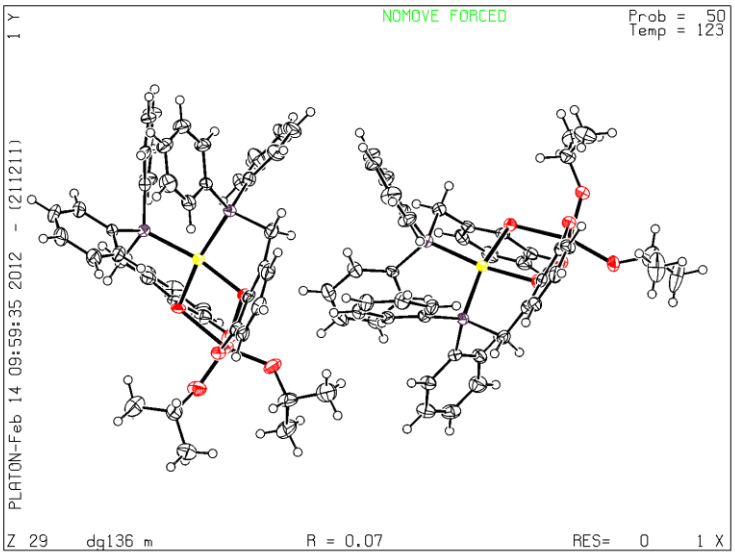


Table 1. Crystal data and structure refinement for dg119_hy.

Identification code	dg119_hy
Empirical formula	C41 H40 O7 P2 Pd Ti C40 H36 O6 P2 Pd Ti - MeOH
Formula weight	860.97
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 14.598(1) A alpha = 90 deg. b = 12.951(1) A beta = 97.28(1) deg. c = 19.652(2) A gamma = 90 deg.
Volume	3685.4(5) A^3
Z, Calculated density	4, 1.552 Mg/m^3
Absorption coefficient	0.843 mm^-1
F(000)	1760
Crystal size	0.18 x 0.09 x 0.03 mm
Theta range for data collection	3.09 to 27.48 deg.
Limiting indices	-18<=h<=18, -16<=k<=16, -25<=l<=25
Reflections collected / unique	36654 / 8431 [R(int) = 0.0506]
Completeness to theta = 27.48	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9703 and 0.8632
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8431 / 1 / 475
Goodness-of-fit on F^2	1.041
Final R indices [I>2sigma(I)]	R1 = 0.0394, wR2 = 0.0740
R indices (all data)	R1 = 0.0705, wR2 = 0.0828
Largest diff. peak and hole	1.087 and -0.402 e.A^-3

Palladium(II)-bis{diphenyl-(benzo-[1,3]-*μ*-oxo-*k*-oxo-4-ylmethyl)-phosphan)}-diisopropoxytitan(IV) (37)



DG136_HY

A-304

G. Bauer

Crystal data and structure refinement for dg136_m.

Identification code	dg136_m
Empirical formula	C44 H44 O6 P2 Pd Ti
Formula weight	885.03
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (no.14)
Unit cell dimensions	a = 17.7428(6) A alpha = 90 deg. b = 20.2475(9) A beta = 95.659(3) deg. c = 22.5638(9) A gamma = 90 deg.
Volume	8066.5(6) A^3
Z, Calculated density	8, 1.458 Mg/m^3
Absorption coefficient	0.770 mm^-1
F(000)	3632
Crystal size	0.24 x 0.06 x 0.03 mm
Theta range for data collection	3.63 to 25.03 deg.
Limiting indices	-21<=h<=21, -22<=k<=24, -21<=l<=26
Reflections collected / unique	36717 / 14106 [R(int) = 0.0894]
Completeness to theta = 25.03	99.0 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.96554 and 0.84633
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	14106 / 0 / 973
Goodness-of-fit on F^2	1.111
Final R indices [I>2sigma(I)]	R1 = 0.0657, wR2 = 0.1041
R indices (all data)	R1 = 0.1301, wR2 = 0.1258
Largest diff. peak and hole	0.626 and -0.531 e.A^-3

[*SP*-4-2]-[{Bis-(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)palladium(II)}-[*OC*-6-33]-μO^1:kO^2-dioxomolybdän(VI)] (38)

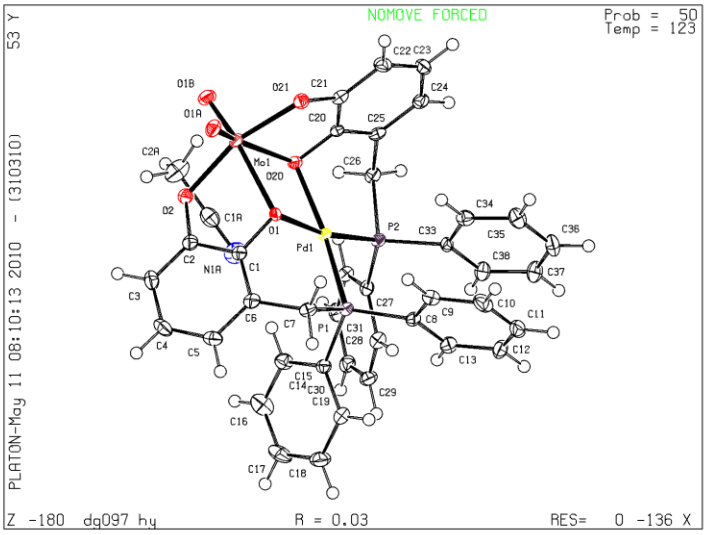


Table 1. Crystal data and structure refinement for dg097_hy.

Identification code	dg097_hy
Empirical formula	C40 H33 Mo N O6 P2 Pd C38 H30 Mo O6 P2 Pd - CH3CN
Formula weight	887.95
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 18.725(1) A alpha = 90 deg. b = 10.391(1) A beta = 114.46(1) deg. c = 19.739(1) A gamma = 90 deg.
Volume	3495.9(4) A^3
Z, Calculated density	4, 1.687 Mg/m^3
Absorption coefficient	1.015 mm^-1
F(000)	1784
Crystal size	0.18 x 0.12 x 0.06 mm
Theta range for data collection	2.93 to 27.48 deg.
Limiting indices	-20<=h<=24, -12<=k<=13, -25<=l<=20
Reflections collected / unique	22097 / 7985 [R(int) = 0.0390]
Completeness to theta = 27.48	99.5 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9422 and 0.8218
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7985 / 0 / 461
Goodness-of-fit on F^2	1.042
Final R indices [I>2sigma(I)]	R1 = 0.0346, wR2 = 0.0603
R indices (all data)	R1 = 0.0562, wR2 = 0.0659
Largest diff. peak and hole	0.576 and -0.487 e.A^-3

[*SP*-4-2]-[{Bis-(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)platin(II)}-[*OC*-6-33]-μO^1:kO^2-dioxomolybdän(VI)] (39)

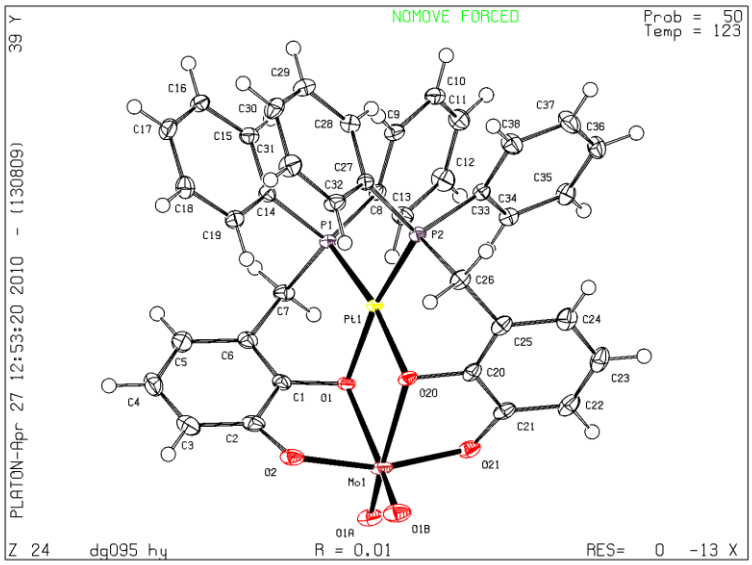


Table 1. Crystal data and structure refinement for dg095_hy.

Identification code	dg095_hy
Empirical formula	C38 H30 Mo O6 P2 Pt
Formula weight	935.59
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (No.2)
Unit cell dimensions	a = 10.434(1) A alpha = 82.00(1) deg. b = 10.784(1) A beta = 77.33(1) deg. c = 16.890(1) A gamma = 62.81(1) deg.
Volume	1647.6(2) A^3
Z, Calculated density	2, 1.886 Mg/m^3
Absorption coefficient	4.767 mm^-1
F(000)	912
Crystal size	0.30 x 0.15 x 0.10 mm
Theta range for data collection	3.02 to 27.48 deg.
Limiting indices	-13<=h<=13, -14<=k<=14, -21<=l<=21
Reflections collected / unique	38161 / 7533 [R(int) = 0.0199]
Completeness to theta = 27.48	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.6468 and 0.4225
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7533 / 0 / 433
Goodness-of-fit on F^2	1.056
Final R indices [I>2sigma(I)]	R1 = 0.0129, wR2 = 0.0306
R indices (all data)	R1 = 0.0148, wR2 = 0.0314
Largest diff. peak and hole	0.492 and -0.511 e.A^-3

[*SP*-4-2]-[{Bis-(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)platin(II)}-[*OC*-6-33]-μO^1:kO^2-dioxowolfram(VI)] (41)

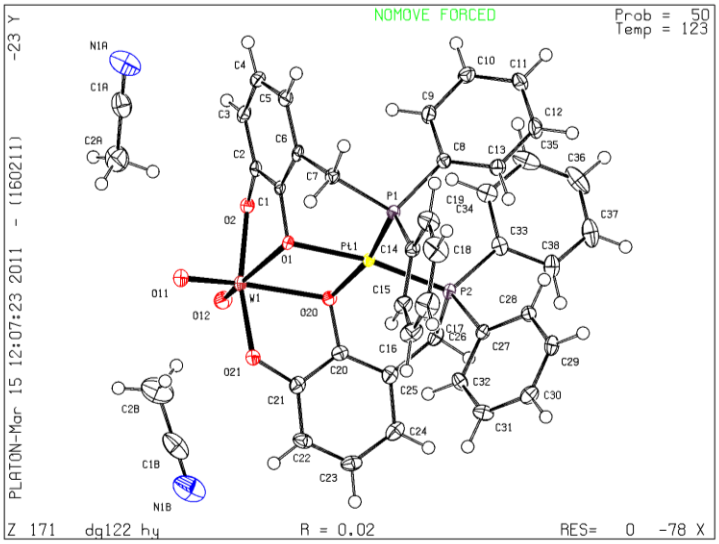
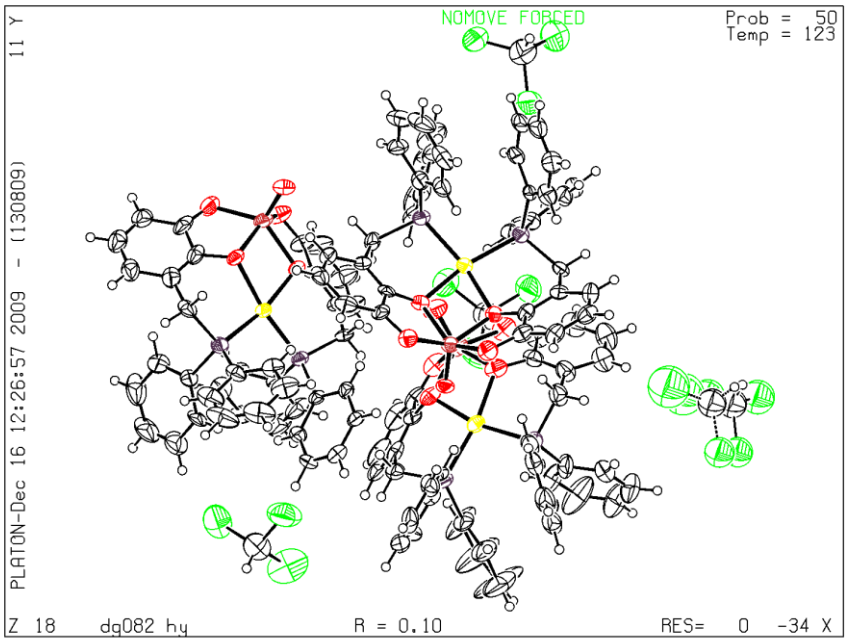


Table 1. Crystal data and structure refinement for dg122_hy.

Identification code	dg122_hy
Empirical formula	C42 H36 N2 O6 P2 Pt W C38 H30 O6 P2 Pt W - 2 CH3CN
Formula weight	1105.61
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 11.2931(7) A alpha = 90 deg. b = 17.2776(3) A beta = 100.306(6) deg. c = 19.4364(15) A gamma = 90 deg.
Volume	3731.2(4) A^3
Z, Calculated density	4, 1.968 Mg/m^3
Absorption coefficient	6.964 mm^-1
F(000)	2128
Crystal size	0.16 x 0.10 x 0.08 mm
Theta range for data collection	3.06 to 27.48 deg.
Limiting indices	-14<=h<=14, -22<=k<=22, -25<=l<=25
Reflections collected / unique	53995 / 8540 [R(int) = 0.0290]
Completeness to theta = 27.48	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.5949 and 0.4539
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8540 / 0 / 489
Goodness-of-fit on F^2	1.070
Final R indices [I>2sigma(I)]	R1 = 0.0178, wR2 = 0.0362
R indices (all data)	R1 = 0.0235, wR2 = 0.0378
Largest diff. peak and hole	0.530 and -0.487 e.A^-3

[*SP*-4-2]-[{Bis-(diphenyl-{benzo-[1,3]-μO^1-kO^2-4-ylmethyl}-phosphan-*kP*)palladium(II)}-[*SPY*-5-32]-μO^1-kO^2-oxovanadium(IV)] (42)



DG082_HY
PdVO1
G. Bauer
AK Gudat

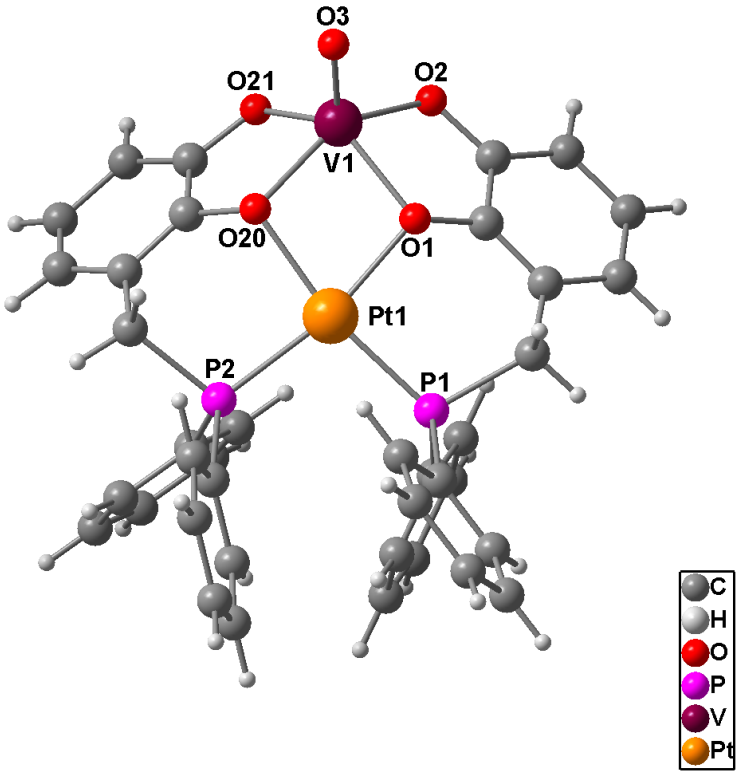
Crystal data and structure refinement for dg082_hy.
G.Bauer (AK Gudat, Stuttgart) 16.12.2009

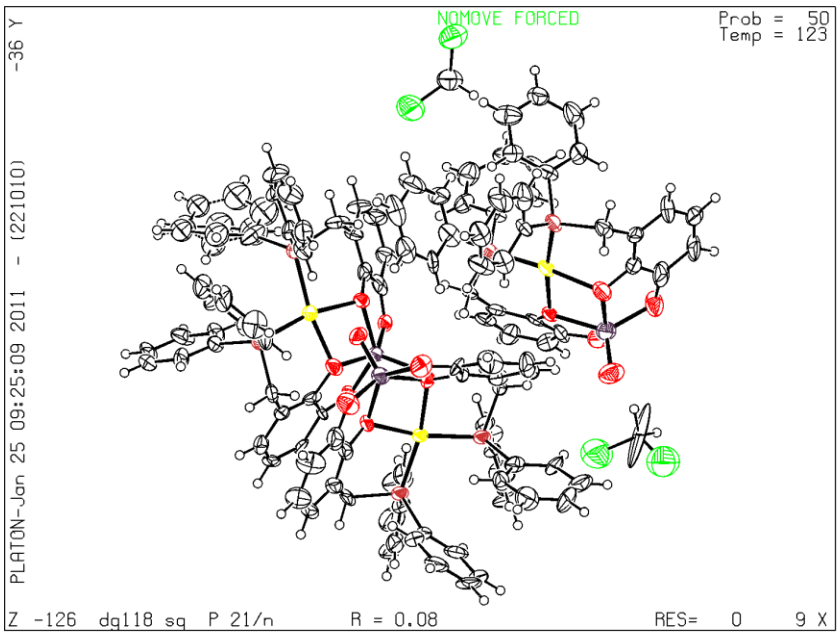
Identification code	dg082_hy
Empirical formula	C39.33 H31.33 Cl4 O5 P2 Pd V C38 H30 O5 P2 Pd V - 4/3 CHCl3
Formula weight	945.06
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 18.945(1) A alpha = 90 deg. b = 22.082(2) A beta = 97.47(1) deg. c = 28.081(3) A gamma = 90 deg.
Volume	11647.8(17) A^3
Z, Calculated density	12, 1.617 Mg/m^3
Absorption coefficient	1.105 mm^-1
F(000)	5692
Crystal size	0.50 x 0.08 x 0.04 mm
Theta range for data collection	2.92 to 25.00 deg.
Limiting indices	-22<=h<=22, -25<=k<=26, -31<=l<=33
Reflections collected / unique	69656 / 20428 [R(int) = 0.1291]
Completeness to theta = 25.00	99.5 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9280 and 0.3917
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	20428 / 396 / 1407
Goodness-of-fit on F^2	1.037
Final R indices [I>2sigma(I)]	R1 = 0.0955, wR2 = 0.2286
R indices (all data)	R1 = 0.1785, wR2 = 0.2824
Largest diff. peak and hole	1.666 and -2.068 e.A^-3

[*SP*-4-2]-[{Bis-(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)platin(II)}-[*SPY*-5-32]-μO^1:kO^2-oxovanadium(IV)] (43)

DG118_HY
K237

SQUEEZE data: 4 CH_2Cl_2 'squeezed out'





2 methylenchloride / molecule, but only 2 in the asymmetric unit reasonalble refined

Crystal data and structure refinement for dg118_sq.
SWQUEEZE-data

Identification code	dg118_sq
Empirical formula	C40 H34 Cl4 O5 P2 Pt V C38 H30 O5 P2 Pt V - 2 CH2Cl2
Formula weight	1044.44
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P 21/n
Unit cell dimensions	a = 23.423(2) A alpha = 90 deg. b = 18.647(1) A beta = 98.84(1) deg. c = 28.122(2) A gamma = 90 deg.
Volume	12136.9(15) A^3
Z, Calculated density	12, 1.715 Mg/m^3
Absorption coefficient	4.071 mm^-1
F(000)	6156
Crystal size	0.16 x 0.12 x 0.04 mm
Theta range for data collection	2.93 to 25.03 deg.
Limiting indices	-27<=h<=27, 0<=k<=22, 0<=l<=33
Reflections collected / unique	20683 / 20683 [R(int) = 0.0000]
Completeness to theta = 25.03	96.4 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.8621 and 0.4500
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	20683 / 51 / 1183
Goodness-of-fit on F^2	0.951
Final R indices [I>2sigma(I)]	R1 = 0.0781, wR2 = 0.1903
R indices (all data)	R1 = 0.1451, wR2 = 0.2154
Largest diff. peak and hole	4.809 and -2.481 e.A^-3

[*SP*-4-2]-Chloro[{bis-(diphenyl-{benzo-[1,3]-μO^{1}:kO^{2}-4-ylmethyl}-phosphan-*kP*)palladium(II)}-[*SPY*-5-13]-μO^{1}:kO^{2}-eisen(III)] (44)

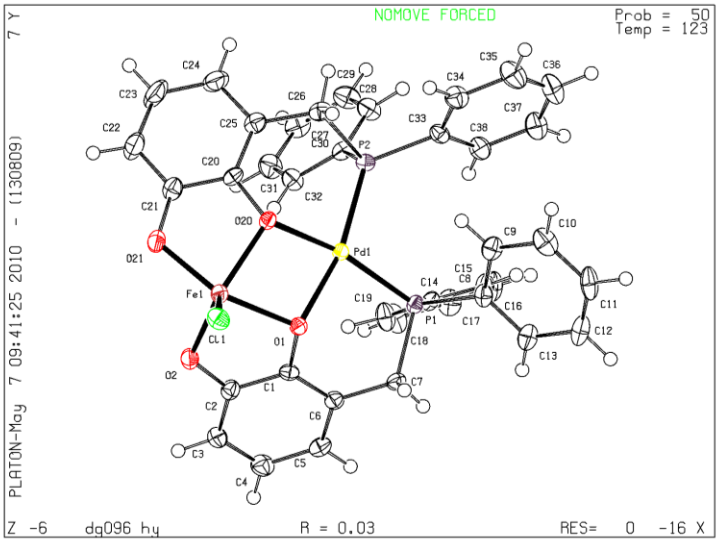


Table 1. Crystal data and structure refinement for dg096_hy.

Identification code	dg096_hy
Empirical formula	C38 H30 Cl Fe O4 P2 Pd
Formula weight	810.26
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Orthorhombic, P2(1)2(1)2(1)
Unit cell dimensions	a = 12.623(1) A alpha = 90 deg. b = 13.212(1) A beta = 90 deg. c = 20.098(1) A gamma = 90 deg.
Volume	3351.8(4) A^3
Z, Calculated density	4, 1.606 Mg/m^3
Absorption coefficient	1.185 mm^-1
F(000)	1636
Crystal size	0.36 x 0.12 x 0.06 mm
Theta range for data collection	3.02 to 27.48 deg.
Limiting indices	-16<=h<=16, -17<=k<=17, -26<=l<=26
Reflections collected / unique	45337 / 7673 [R(int) = 0.0562]
Completeness to theta = 27.48	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9281 and 0.6162
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7673 / 0 / 424
Goodness-of-fit on F^2	1.061
Final R indices [I>2sigma(I)]	R1 = 0.0257, wR2 = 0.0579
R indices (all data)	R1 = 0.0301, wR2 = 0.0598
Absolute structure parameter	-0.006(13)
Largest diff. peak and hole	0.793 and -0.413 e.A^-3

Bis-[*SP*-4-2]-[{bis-(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)platin(II)}-[*SPY*-5-32]-μO^1:kO^2-eisen(III)]-oxid (45)

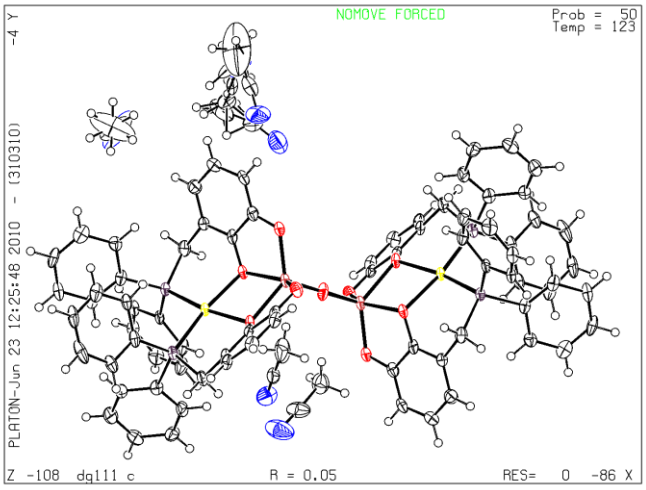
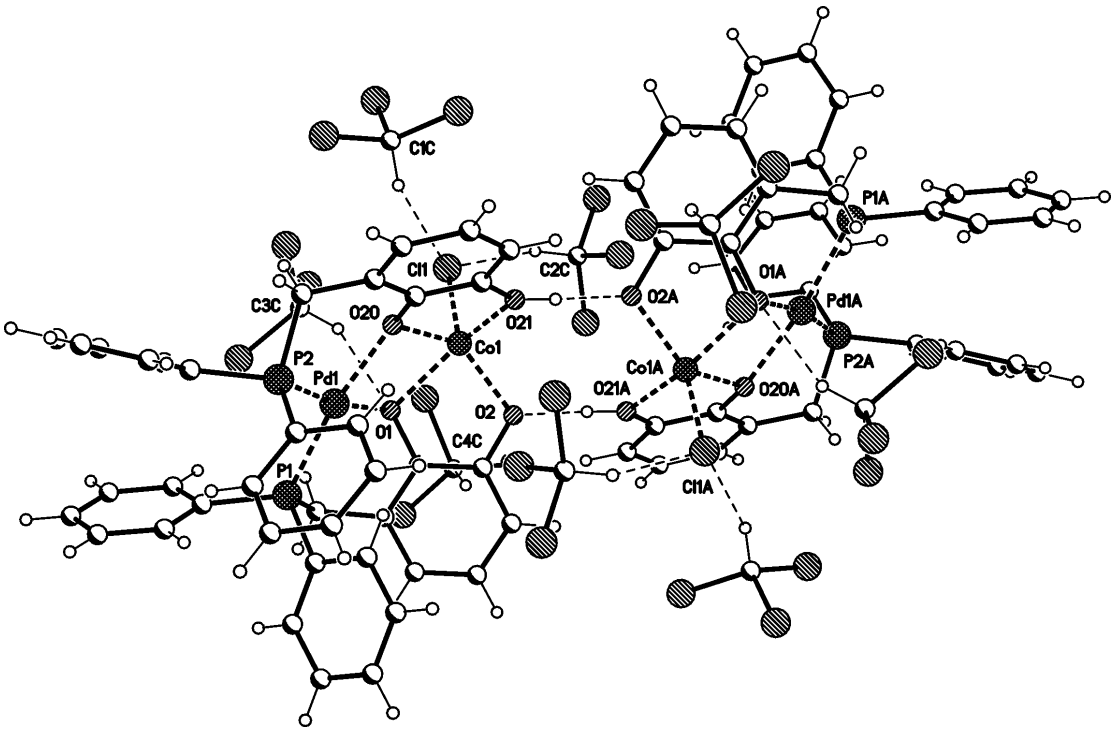


Table 1. Crystal data and structure refinement for dg111_hy.

Identification code	dg111_hy
Empirical formula	C94 H87 Fe2 N9 O9 P4 Pt2 C76 H60 Fe2 O9 P4 Pt2 - 9 CH3CN
Formula weight	2112.49
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, C2/c (No.15)
Unit cell dimensions	a = 24.856(2) A alpha = 90 deg. b = 16.089(1) A beta = 109.92(1) deg. c = 23.260(2) A gamma = 90 deg.
Volume	8745.3(12) A^3
Z, Calculated density	4, 1.604 Mg/m^3
Absorption coefficient	3.651 mm^-1
F(000)	4216
Crystal size	0.18 x 0.09 x 0.03 mm
Theta range for data collection	2.92 to 27.48 deg.
Limiting indices	-32<=h<=32, -20<=k<=20, -30<=l<=29
Reflections collected / unique	60538 / 10008 [R(int) = 0.1044]
Completeness to theta = 27.48	99.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.8940 and 0.6023
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	10008 / 90 / 598
Goodness-of-fit on F^2	1.039
Final R indices [I>2sigma(I)]	R1 = 0.0538, wR2 = 0.1082
R indices (all data)	R1 = 0.0889, wR2 = 0.1214
Largest diff. peak and hole	2.612 and -1.461 e.A^-3

Bis-[*SP*-4-2]-[{(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)(diphenyl-{benzo-[1,3]-μO^1-4-ylmethyl}-phosphan-*kP*-palladium(II)}-[*SPY*-5-13]-μO^1:μO^1:kO^2-chlorocobalt(II)] (48)


C1C
Cl1
C2C
C3C
O20
O21
Co1
O2A
O1A
Pd1A
P1A
P2
Pd1
O1
O2
C4C
P1
Co1A
O21A
O20A
P2A
Cl1A

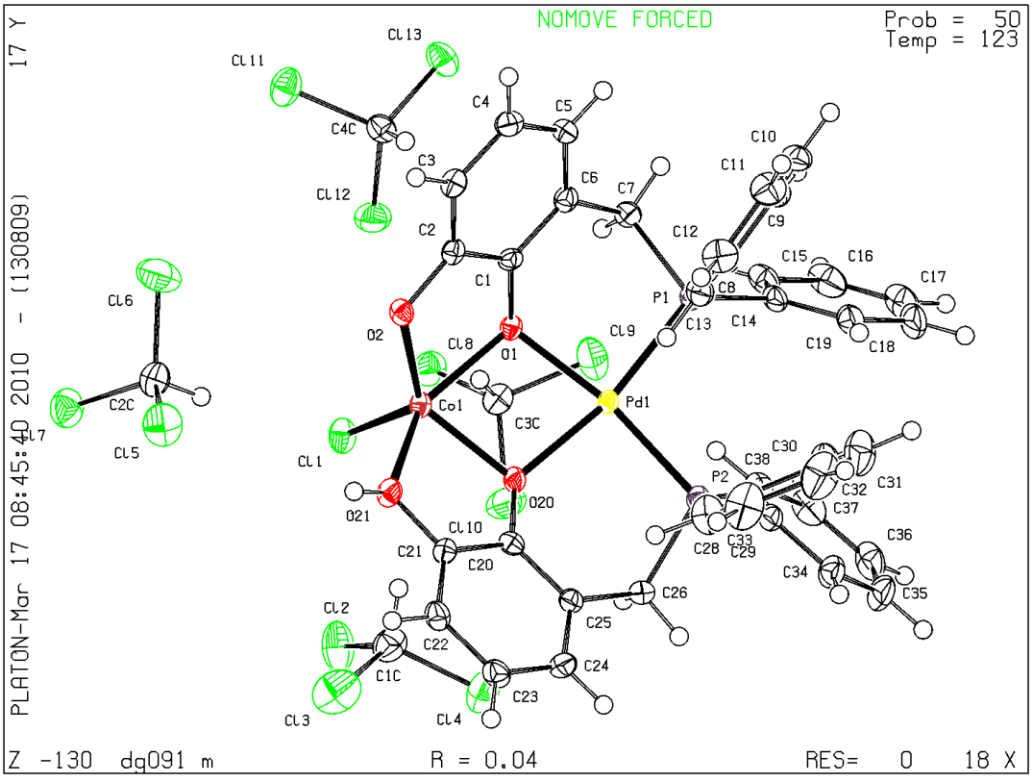

NOMOVE FORCED
Prob = 50
Temp = 123
PLATON-Mar 17 08:45:40 2010 - (130809)
17 Y
Z -130 dg091 m
R = 0.04
RES= 0 18 X
Cl13
Cl11
C4
C5
C4C
C3
C10
C11
C6
C7
C9
Cl12
C2
C12
C15
C16
C17
C1
C8
P1
C13
C14
C19
C18
Cl6
O2
Cl8
O1
Cl9
Co1
C3C
Pd1
C2C
Cl7
Cl5
Cl1
C38
C30
P2
C32
C31
O21
O20
C37
Cl10
C21
C20
C28
C29
C33
C36
C34
C35
C26
Cl2
C25
C22
C24
C1C
C23
Cl3
Cl4

Table 1. Crystal data and structure refinement for dg091_hy.

Identification code	dg091_m
Empirical formula	C42 H35 Cl13 Co O4 P2 Pd C38 H31 Cl Co O4 P2 Pd - 4 CHCl3
Formula weight	1291.82
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/c (No.14)
Unit cell dimensions	a = 15.009(1) A alpha = 90 deg. b = 13.892(1) A beta = 92.52(1) deg. c = 23.974(2) A gamma = 90 deg.
Volume	4993.9(6) A^3
Z, Calculated density	4, 1.718 Mg/m^3
Absorption coefficient	1.493 mm^-1
F(000)	2572
Crystal size	0.12 x 0.08 x 0.04 mm
Theta range for data collection	2.93 to 27.48 deg.
Limiting indices	-19<=h<=19, -18<=k<=18, -31<=l<=31
Reflections collected / unique	66297 / 11432 [R(int) = 0.0581]
Completeness to theta = 27.48	99.9 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9422 and 0.7916
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	11432 / 1 / 571
Goodness-of-fit on F^2	1.034
Final R indices [I>2sigma(I)]	R1 = 0.0387, wR2 = 0.0725
R indices (all data)	R1 = 0.0680, wR2 = 0.0817
Largest diff. peak and hole	0.553 and -0.535 e.A^-3

Zink-Komplex von 5 (49)

Table 1. Crystal data and structure refinement for gud17_sq.

Identification code	gud17_sq
Empirical formula	C318.50 H332.50 Cl8 N17.50 O45.50 P14 Pd7 Zn11
Formula weight	7314.57
Temperature	100(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P -1
Unit cell dimensions	a = 21.4475(12) A alpha = 88.469(3) deg. b = 25.3152(12) A beta = 85.014(3) deg. c = 27.7107(13) A gamma = 88.086(3) deg.
Volume	14975.9(13) A^3
Z, Calculated density	2, 1.622 Mg/m^3
Absorption coefficient	1.494 mm^-1
F(000)	7456
Crystal size	0.52 x 0.20 x 0.09 mm
Theta range for data collection	2.94 to 25.03 deg.

Limiting indices	-25<=h<=25, -30<=k<=30, 0<=l<=32
Reflections collected / unique	51709 / 51709 [R(int) = 0.0000]
Completeness to theta = 25.03	97.8 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7516 and 0.6518
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	51709 / 6099 / 3168
Goodness-of-fit on F^2	1.004
Final R indices [I>2sigma(I)]	R1 = 0.1059, wR2 = 0.2649
R indices (all data)	R1 = 0.2317, wR2 = 0.3268
Largest diff. peak and hole	3.704 and -1.193 e.A^-3

Table 3. Bond lengths [A] and angles [deg] for gud17_sq.

Zn(1)-O(2B)	1.972(10)
Zn(1)-O(21A)	1.982(9)
Zn(1)-O(21C)	1.987(9)
Zn(1)-Cl(1)	2.220(4)
Pd(1A)-O(20A)	2.076(9)
Pd(1A)-O(1A)	2.079(9)
Pd(1A)-P(2A)	2.240(4)
Pd(1A)-P(1A)	2.265(4)
Pd(1A)-Zn(1A)	3.1640(17)
Zn(1A)-O(2C)	1.930(9)
Zn(1A)-O(20A)	2.033(9)
Zn(1A)-O(2A)	2.044(9)
Zn(1A)-O(21A)	2.045(9)
Zn(1A)-O(1A)	2.099(9)
P(1A)-C(14A)	1.788(7)
P(1A)-C(8A)	1.805(7)
P(1A)-C(7A)	1.867(13)
P(2A)-C(33A)	1.824(7)
P(2A)-C(27A)	1.834(9)
P(2A)-C(26A)	1.836(15)
O(1A)-C(1A)	1.318(16)
O(2A)-C(2A)	1.342(15)
O(2A)-Zn(1B)	1.959(9)
O(20A)-C(20A)	1.357(16)
O(21A)-C(21A)	1.364(16)
C(1A)-C(6A)	1.356(18)

C(1A)-C(2A)	1.463(18)
C(2A)-C(3A)	1.322(18)
C(3A)-C(4A)	1.400(19)
C(3A)-H(3A)	0.9500
C(4A)-C(5A)	1.387(19)
C(4A)-H(4A)	0.9500
C(5A)-C(6A)	1.380(19)
C(5A)-H(5A)	0.9500
C(6A)-C(7A)	1.539(18)
C(7A)-H(7A1)	0.9900
C(7A)-H(7A2)	0.9900
C(8A)-C(9A)	1.3900
C(8A)-C(13A)	1.3900
C(9A)-C(10A)	1.3900
C(9A)-H(9A)	0.9500
C(10A)-C(11A)	1.3900
C(10A)-H(10A)	0.9500
C(11A)-C(12A)	1.3900
C(11A)-H(11A)	0.9500
C(12A)-C(13A)	1.3900
C(12A)-H(12A)	0.9500
C(13A)-H(13A)	0.9500
C(14A)-C(15A)	1.3900
C(14A)-C(19A)	1.3900
C(15A)-C(16A)	1.3900
C(15A)-H(15A)	0.9500
C(16A)-C(17A)	1.3900
C(16A)-H(16A)	0.9500
C(17A)-C(18A)	1.3900
C(17A)-H(17A)	0.9500

C(18A)-C(19A)	1.3900
C(18A)-H(18A)	0.9500
C(19A)-H(19A)	0.9500
C(20A)-C(25A)	1.406(19)
C(20A)-C(21A)	1.407(19)
C(21A)-C(22A)	1.377(19)
C(22A)-C(23A)	1.38(2)
C(22A)-H(22A)	0.9500
C(23A)-C(24A)	1.35(2)
C(23A)-H(23A)	0.9500
C(24A)-C(25A)	1.378(19)
C(24A)-H(24A)	0.9500
C(25A)-C(26A)	1.55(2)
C(26A)-H(26A)	0.9900
C(26A)-H(26B)	0.9900
C(27A)-C(28A)	1.3900
C(27A)-C(32A)	1.3900
C(28A)-C(29A)	1.3900
C(28A)-H(28A)	0.9500
C(29A)-C(30A)	1.3900
C(29A)-H(29A)	0.9500
C(30A)-C(31A)	1.3900
C(30A)-H(30A)	0.9500
C(31A)-C(32A)	1.3900
C(31A)-H(31A)	0.9500
C(32A)-H(32A)	0.9500
C(33A)-C(34A)	1.3900
C(33A)-C(38A)	1.3900
C(34A)-C(35A)	1.3900
C(34A)-H(34A)	0.9500

C(35A)-C(36A)	1.3900
C(35A)-H(35A)	0.9500
C(36A)-C(37A)	1.3900
C(36A)-H(36A)	0.9500
C(37A)-C(38A)	1.3900
C(37A)-H(37A)	0.9500
C(38A)-H(38A)	0.9500
Pd(1B)-O(20B)	2.063(8)
Pd(1B)-O(1B)	2.077(9)
Pd(1B)-P(2B)	2.237(4)
Pd(1B)-P(1B)	2.249(4)
Pd(1B)-Zn(1B)	3.152(2)
Zn(1B)-O(2B)	2.019(9)
Zn(1B)-O(21B)	2.022(9)
Zn(1B)-O(1B)	2.063(9)
Zn(1B)-O(20B)	2.081(9)
P(1B)-C(8B)	1.804(7)
P(1B)-C(14B)	1.807(9)
P(1B)-C(7B)	1.839(14)
P(2B)-C(33B)	1.774(12)
P(2B)-C(27B)	1.799(9)
P(2B)-C(26B)	1.862(14)
O(1B)-C(1B)	1.358(15)
O(2B)-C(2B)	1.397(16)
O(20B)-C(20B)	1.373(15)
O(21B)-C(21B)	1.397(16)
O(21B)-Zn(1C)	1.957(10)
C(1B)-C(6B)	1.371(18)
C(1B)-C(2B)	1.384(19)
C(2B)-C(3B)	1.433(18)

C(3B)-C(4B)	1.407(19)
C(3B)-H(3B)	0.9500
C(4B)-C(5B)	1.37(2)
C(4B)-H(4B)	0.9500
C(5B)-C(6B)	1.396(19)
C(5B)-H(5B)	0.9500
C(6B)-C(7B)	1.47(2)
C(7B)-H(7B1)	0.9900
C(7B)-H(7B2)	0.9900
C(8B)-C(9B)	1.3900
C(8B)-C(13B)	1.3900
C(9B)-C(10B)	1.3900
C(9B)-H(9B)	0.9500
C(10B)-C(11B)	1.3900
C(10B)-H(10B)	0.9500
C(11B)-C(12B)	1.3900
C(11B)-H(11B)	0.9500
C(12B)-C(13B)	1.3900
C(12B)-H(12B)	0.9500
C(13B)-H(13B)	0.9500
C(14B)-C(15B)	1.3900
C(14B)-C(19B)	1.3900
C(15B)-C(16B)	1.3900
C(15B)-H(15B)	0.9500
C(16B)-C(17B)	1.3900
C(16B)-H(16B)	0.9500
C(17B)-C(18B)	1.3900
C(17B)-H(17B)	0.9500
C(18B)-C(19B)	1.3900
C(18B)-H(18B)	0.9500

C(19B)-H(19B)	0.9500
C(20B)-C(21B)	1.384(19)
C(20B)-C(25B)	1.389(19)
C(21B)-C(22B)	1.375(18)
C(22B)-C(23B)	1.424(19)
C(22B)-H(22B)	0.9500
C(23B)-C(24B)	1.30(2)
C(23B)-H(23B)	0.9500
C(24B)-C(25B)	1.45(2)
C(24B)-H(24B)	0.9500
C(25B)-C(26B)	1.43(2)
C(26B)-H(26C)	0.9900
C(26B)-H(26D)	0.9900
C(27B)-C(28B)	1.3900
C(27B)-C(32B)	1.3900
C(28B)-C(29B)	1.3900
C(28B)-H(28B)	0.9500
C(29B)-C(30B)	1.3900
C(29B)-H(29B)	0.9500
C(30B)-C(31B)	1.3900
C(30B)-H(30B)	0.9500
C(31B)-C(32B)	1.3900
C(31B)-H(31B)	0.9500
C(32B)-H(32B)	0.9500
C(33B)-C(34B)	1.3900
C(33B)-C(38B)	1.3900
C(34B)-C(35B)	1.3900
C(34B)-H(34B)	0.9500
C(35B)-C(36B)	1.3900
C(35B)-H(35B)	0.9500

C(36B)-C(37B)	1.3900
C(36B)-H(36B)	0.9500
C(37B)-C(38B)	1.3900
C(37B)-H(37B)	0.9500
C(38B)-H(38B)	0.9500
Pd(1C)-O(20C)	2.040(9)
Pd(1C)-O(1C)	2.061(9)
Pd(1C)-P(1C)	2.221(4)
Pd(1C)-P(2C)	2.257(4)
Pd(1C)-Zn(1C)	3.1334(19)
Zn(1C)-O(2C)	1.999(8)
Zn(1C)-O(21C)	2.046(9)
Zn(1C)-O(20C)	2.047(9)
Zn(1C)-O(1C)	2.120(9)
P(1C)-C(14C)	1.764(10)
P(1C)-C(8C)	1.810(9)
P(1C)-C(7C)	1.861(15)
P(2C)-C(33C)	1.784(12)
P(2C)-C(26C)	1.836(16)
P(2C)-C(27C)	1.837(9)
O(1C)-C(1C)	1.328(16)
O(2C)-C(2C)	1.375(16)
O(20C)-C(20C)	1.344(16)
O(21C)-C(21C)	1.359(17)
C(1C)-C(6C)	1.320(19)
C(1C)-C(2C)	1.402(19)
C(2C)-C(3C)	1.444(19)
C(3C)-C(4C)	1.39(2)
C(3C)-H(3C)	0.9500
C(4C)-C(5C)	1.40(2)

C(4C)-H(4C)	0.9500
C(5C)-C(6C)	1.42(2)
C(5C)-H(5C)	0.9500
C(6C)-C(7C)	1.494(19)
C(7C)-H(7C1)	0.9900
C(7C)-H(7C2)	0.9900
C(8C)-C(9C)	1.3900
C(8C)-C(13C)	1.3900
C(9C)-C(10C)	1.3900
C(9C)-H(9C)	0.9500
C(10C)-C(11C)	1.3900
C(10C)-H(10C)	0.9500
C(11C)-C(12C)	1.3900
C(11C)-H(11C)	0.9500
C(12C)-C(13C)	1.3900
C(12C)-H(12C)	0.9500
C(13C)-H(13C)	0.9500
C(14C)-C(15C)	1.3900
C(14C)-C(19C)	1.3900
C(15C)-C(16C)	1.3900
C(15C)-H(15C)	0.9500
C(16C)-C(17C)	1.3900
C(16C)-H(16C)	0.9500
C(17C)-C(18C)	1.3900
C(17C)-H(17C)	0.9500
C(18C)-C(19C)	1.3900
C(18C)-H(18C)	0.9500
C(19C)-H(19C)	0.9500
C(20C)-C(25C)	1.40(2)
C(20C)-C(21C)	1.407(19)

C(21C)-C(22C)	1.38(2)
C(22C)-C(23C)	1.42(2)
C(22C)-H(22C)	0.9500
C(23C)-C(24C)	1.39(2)
C(23C)-H(23C)	0.9500
C(24C)-C(25C)	1.42(2)
C(24C)-H(24C)	0.9500
C(25C)-C(26C)	1.50(2)
C(26C)-H(26E)	0.9900
C(26C)-H(26F)	0.9900
C(27C)-C(28C)	1.3900
C(27C)-C(32C)	1.3900
C(28C)-C(29C)	1.3900
C(28C)-H(28C)	0.9500
C(29C)-C(30C)	1.3900
C(29C)-H(29C)	0.9500
C(30C)-C(31C)	1.3900
C(30C)-H(30C)	0.9500
C(31C)-C(32C)	1.3900
C(31C)-H(31C)	0.9500
C(32C)-H(32C)	0.9500
C(33C)-C(34C)	1.3900
C(33C)-C(38C)	1.3900
C(34C)-C(35C)	1.3900
C(34C)-H(34C)	0.9500
C(35C)-C(36C)	1.3900
C(35C)-H(35C)	0.9500
C(36C)-C(37C)	1.3900
C(36C)-H(36C)	0.9500
C(37C)-C(38C)	1.3900

C(37C)-H(37C)	0.9500
C(38C)-H(38C)	0.9500
Zn(2)-O(2D)	1.966(9)
Zn(2)-O(21F)	1.969(10)
Zn(2)-O(21E)	1.973(9)
Zn(2)-Cl(2)	2.239(4)
Pd(1D)-O(1D)	2.050(9)
Pd(1D)-O(20D)	2.065(9)
Pd(1D)-P(2D)	2.239(4)
Pd(1D)-P(1D)	2.243(4)
Pd(1D)-Zn(1D)	3.165(2)
Zn(1D)-O(2F)	1.941(10)
Zn(1D)-O(21D)	1.982(9)
Zn(1D)-O(1D)	2.026(9)
Zn(1D)-O(2D)	2.070(9)
Zn(1D)-O(20D)	2.115(9)
P(1D)-C(8D)	1.799(6)
P(1D)-C(14D)	1.805(7)
P(1D)-C(7D)	1.846(15)
P(2D)-C(33D)	1.807(8)
P(2D)-C(27D)	1.811(7)
P(2D)-C(26D)	1.872(14)
O(1D)-C(1D)	1.339(16)
O(2D)-C(2D)	1.377(15)
O(20D)-C(20D)	1.322(16)
O(21D)-C(21D)	1.335(17)
O(21D)-Zn(1E)	1.967(9)
C(1D)-C(6D)	1.389(18)
C(1D)-C(2D)	1.394(18)
C(2D)-C(3D)	1.391(19)

C(3D)-C(4D)	1.354(19)
C(3D)-H(3D)	0.9500
C(4D)-C(5D)	1.422(19)
C(4D)-H(4D)	0.9500
C(5D)-C(6D)	1.368(19)
C(5D)-H(5D)	0.9500
C(6D)-C(7D)	1.503(19)
C(7D)-H(7D1)	0.9900
C(7D)-H(7D2)	0.9900
C(8D)-C(9D)	1.3900
C(8D)-C(13D)	1.3900
C(9D)-C(10D)	1.3900
C(9D)-H(9D)	0.9500
C(10D)-C(11D)	1.3900
C(10D)-H(10D)	0.9500
C(11D)-C(12D)	1.3900
C(11D)-H(11D)	0.9500
C(12D)-C(13D)	1.3900
C(12D)-H(12D)	0.9500
C(13D)-H(13D)	0.9500
C(14D)-C(15D)	1.3900
C(14D)-C(19D)	1.3900
C(15D)-C(16D)	1.3900
C(15D)-H(15D)	0.9500
C(16D)-C(17D)	1.3900
C(16D)-H(16D)	0.9500
C(17D)-C(18D)	1.3900
C(17D)-H(17D)	0.9500
C(18D)-C(19D)	1.3900
C(18D)-H(18D)	0.9500

C(19D)-H(19D)	0.9500
C(20D)-C(25D)	1.418(19)
C(20D)-C(21D)	1.436(19)
C(21D)-C(22D)	1.43(2)
C(22D)-C(23D)	1.37(2)
C(22D)-H(22D)	0.9500
C(23D)-C(24D)	1.39(2)
C(23D)-H(23D)	0.9500
C(24D)-C(25D)	1.403(19)
C(24D)-H(24D)	0.9500
C(25D)-C(26D)	1.458(19)
C(26D)-H(26G)	0.9900
C(26D)-H(26H)	0.9900
C(27D)-C(28D)	1.3900
C(27D)-C(32D)	1.3900
C(28D)-C(29D)	1.3900
C(28D)-H(28D)	0.9500
C(29D)-C(30D)	1.3900
C(29D)-H(29D)	0.9500
C(30D)-C(31D)	1.3900
C(30D)-H(30D)	0.9500
C(31D)-C(32D)	1.3900
C(31D)-H(31D)	0.9500
C(32D)-H(32D)	0.9500
C(33D)-C(34D)	1.3900
C(33D)-C(38D)	1.3900
C(34D)-C(35D)	1.3900
C(34D)-H(34D)	0.9500
C(35D)-C(36D)	1.3900
C(35D)-H(35D)	0.9500

C(36D)-C(37D)	1.3900
C(36D)-H(36D)	0.9500
C(37D)-C(38D)	1.3900
C(37D)-H(37D)	0.9500
C(38D)-H(38D)	0.9500
Pd(1E)-O(20E)	2.004(9)
Pd(1E)-O(1E)	2.036(9)
Pd(1E)-P(2E)	2.231(4)
Pd(1E)-P(1E)	2.249(4)
Pd(1E)-Zn(1E)	3.1685(18)
Zn(1E)-O(2E)	1.978(10)
Zn(1E)-O(20E)	1.989(9)
Zn(1E)-O(21E)	2.073(9)
Zn(1E)-O(1E)	2.142(9)
P(1E)-C(14E)	1.792(8)
P(1E)-C(8E)	1.822(8)
P(1E)-C(7E)	1.841(14)
P(2E)-C(33E)	1.804(7)
P(2E)-C(27E)	1.822(8)
P(2E)-C(26E)	1.859(14)
O(1E)-C(1E)	1.351(17)
O(2E)-C(2E)	1.352(16)
O(2E)-Zn(1F)	1.989(9)
O(20E)-C(20E)	1.364(16)
O(21E)-C(21E)	1.364(16)
C(1E)-C(6E)	1.439(19)
C(1E)-C(2E)	1.46(2)
C(2E)-C(3E)	1.36(2)
C(3E)-C(4E)	1.37(2)
C(3E)-H(3E)	0.9500

C(4E)-C(5E)	1.37(2)
C(4E)-H(4E)	0.9500
C(5E)-C(6E)	1.24(2)
C(5E)-H(5E)	0.9500
C(6E)-C(7E)	1.52(2)
C(7E)-H(7E1)	0.9900
C(7E)-H(7E2)	0.9900
C(8E)-C(9E)	1.3900
C(8E)-C(13E)	1.3900
C(9E)-C(10E)	1.3900
C(9E)-H(9E)	0.9500
C(10E)-C(11E)	1.3900
C(10E)-H(10E)	0.9500
C(11E)-C(12E)	1.3900
C(11E)-H(11E)	0.9500
C(12E)-C(13E)	1.3900
C(12E)-H(12E)	0.9500
C(13E)-H(13E)	0.9500
C(14E)-C(15E)	1.3900
C(14E)-C(19E)	1.3900
C(15E)-C(16E)	1.3900
C(15E)-H(15E)	0.9500
C(16E)-C(17E)	1.3900
C(16E)-H(16E)	0.9500
C(17E)-C(18E)	1.3900
C(17E)-H(17E)	0.9500
C(18E)-C(19E)	1.3900
C(18E)-H(18E)	0.9500
C(19E)-H(19E)	0.9500
C(20E)-C(25E)	1.390(19)

C(20E)-C(21E)	1.415(19)
C(21E)-C(22E)	1.391(19)
C(22E)-C(23E)	1.38(2)
C(22E)-H(22E)	0.9500
C(23E)-C(24E)	1.35(2)
C(23E)-H(23E)	0.9500
C(24E)-C(25E)	1.403(19)
C(24E)-H(24E)	0.9500
C(25E)-C(26E)	1.48(2)
C(26E)-H(26I)	0.9900
C(26E)-H(26J)	0.9900
C(27E)-C(28E)	1.3900
C(27E)-C(32E)	1.3900
C(28E)-C(29E)	1.3900
C(28E)-H(28E)	0.9500
C(29E)-C(30E)	1.3900
C(29E)-H(29E)	0.9500
C(30E)-C(31E)	1.3900
C(30E)-H(30E)	0.9500
C(31E)-C(32E)	1.3900
C(31E)-H(31E)	0.9500
C(32E)-H(32E)	0.9500
C(33E)-C(34E)	1.3900
C(33E)-C(38E)	1.3900
C(34E)-C(35E)	1.3900
C(34E)-H(34E)	0.9500
C(35E)-C(36E)	1.3900
C(35E)-H(35E)	0.9500
C(36E)-C(37E)	1.3900
C(36E)-H(36E)	0.9500

C(37E)-C(38E)	1.3900
C(37E)-H(37E)	0.9500
C(38E)-H(38E)	0.9500
Pd(1F)-O(20F)	2.057(10)
Pd(1F)-O(1F)	2.070(11)
Pd(1F)-P(1F)	2.238(4)
Pd(1F)-P(2F)	2.267(5)
Pd(1F)-Zn(1F)	3.150(2)
Zn(1F)-O(2F)	2.030(10)
Zn(1F)-O(20F)	2.032(11)
Zn(1F)-O(21F)	2.079(9)
Zn(1F)-O(1F)	2.085(10)
P(1F)-C(14F)	1.777(11)
P(1F)-C(8F)	1.818(9)
P(1F)-C(7F)	1.859(18)
P(2F)-C(27F)	1.785(10)
P(2F)-C(33F)	1.789(9)
P(2F)-C(26F)	1.799(15)
O(1F)-C(1F)	1.377(18)
O(2F)-C(2F)	1.375(16)
O(20F)-C(20F)	1.362(17)
O(21F)-C(21F)	1.349(17)
C(1F)-C(6F)	1.36(2)
C(1F)-C(2F)	1.39(2)
C(2F)-C(3F)	1.38(2)
C(3F)-C(4F)	1.40(2)
C(3F)-H(3F)	0.9500
C(4F)-C(5F)	1.43(2)
C(4F)-H(4F)	0.9500
C(5F)-C(6F)	1.36(2)

C(5F)-H(5F)	0.9500
C(6F)-C(7F)	1.50(2)
C(7F)-H(7F1)	0.9900
C(7F)-H(7F2)	0.9900
C(8F)-C(9F)	1.3900
C(8F)-C(13F)	1.3900
C(9F)-C(10F)	1.3900
C(9F)-H(9F)	0.9500
C(10F)-C(11F)	1.3900
C(10F)-H(10F)	0.9500
C(11F)-C(12F)	1.3900
C(11F)-H(11F)	0.9500
C(12F)-C(13F)	1.3900
C(12F)-H(12F)	0.9500
C(13F)-H(13F)	0.9500
C(14F)-C(15F)	1.3900
C(14F)-C(19F)	1.3900
C(15F)-C(16F)	1.3900
C(15F)-H(15F)	0.9500
C(16F)-C(17F)	1.3900
C(16F)-H(16F)	0.9500
C(17F)-C(18F)	1.3900
C(17F)-H(17F)	0.9500
C(18F)-C(19F)	1.3900
C(18F)-H(18F)	0.9500
C(19F)-H(19F)	0.9500
C(20F)-C(25F)	1.40(2)
C(20F)-C(21F)	1.42(2)
C(21F)-C(22F)	1.37(2)
C(22F)-C(23F)	1.37(2)

C(22F)-H(22F)	0.9500
C(23F)-C(24F)	1.38(2)
C(23F)-H(23F)	0.9500
C(24F)-C(25F)	1.37(2)
C(24F)-H(24F)	0.9500
C(25F)-C(26F)	1.56(2)
C(26F)-H(26K)	0.9900
C(26F)-H(26L)	0.9900
C(27F)-C(28F)	1.3900
C(27F)-C(32F)	1.3900
C(28F)-C(29F)	1.3900
C(28F)-H(28F)	0.9500
C(29F)-C(30F)	1.3900
C(29F)-H(29F)	0.9500
C(30F)-C(31F)	1.3900
C(30F)-H(30F)	0.9500
C(31F)-C(32F)	1.3900
C(31F)-H(31F)	0.9500
C(32F)-H(32F)	0.9500
C(33F)-C(34F)	1.3900
C(33F)-C(38F)	1.3900
C(34F)-C(35F)	1.3900
C(34F)-H(34F)	0.9500
C(35F)-C(36F)	1.3900
C(35F)-H(35F)	0.9500
C(36F)-C(37F)	1.3900
C(36F)-H(36F)	0.9500
C(37F)-C(38F)	1.3900
C(37F)-H(37F)	0.9500
C(38F)-H(38F)	0.9500

Pd(1G)-O(20G)	2.079(11)
Pd(1G)-O(1G)	2.085(11)
Pd(1G)-P(1G)	2.233(5)
Pd(1G)-P(2G)	2.243(5)
Pd(1G)-Zn(1G)	3.175(2)
Zn(1G)-O(2G)	2.037(13)
Zn(1G)-O(20G)	2.070(11)
Zn(1G)-O(21G)	2.088(12)
Zn(1G)-O(1G)	2.154(12)
Zn(1G)-Cl(1G)	2.197(6)
Zn(1G)-Zn(3)	3.058(3)
P(1G)-C(8G)	1.799(10)
P(1G)-C(14G)	1.835(11)
P(1G)-C(7G)	1.853(19)
P(2G)-C(33G)	1.780(9)
P(2G)-C(27G)	1.815(9)
P(2G)-C(26G)	1.833(16)
O(1G)-C(1G)	1.33(2)
O(2G)-C(2G)	1.39(2)
O(2G)-Zn(3)	2.055(13)
O(20G)-C(20G)	1.376(19)
O(21G)-C(21G)	1.326(19)
O(21G)-Zn(3)	2.035(12)
C(1G)-C(2G)	1.39(3)
C(1G)-C(6G)	1.40(2)
C(2G)-C(3G)	1.37(3)
C(3G)-C(4G)	1.39(3)
C(3G)-H(3G)	0.9500
C(4G)-C(5G)	1.35(3)
C(4G)-H(4G)	0.9500

C(5G)-C(6G)	1.39(3)
C(5G)-H(5G)	0.9500
C(6G)-C(7G)	1.53(3)
C(7G)-H(7G1)	0.9900
C(7G)-H(7G2)	0.9900
C(8G)-C(9G)	1.3900
C(8G)-C(13G)	1.3900
C(9G)-C(10G)	1.3900
C(9G)-H(9G)	0.9500
C(10G)-C(11G)	1.3900
C(10G)-H(10G)	0.9500
C(11G)-C(12G)	1.3900
C(11G)-H(11G)	0.9500
C(12G)-C(13G)	1.3900
C(12G)-H(12G)	0.9500
C(13G)-H(13G)	0.9500
C(14G)-C(15G)	1.3900
C(14G)-C(19G)	1.3900
C(15G)-C(16G)	1.3900
C(15G)-H(15G)	0.9500
C(16G)-C(17G)	1.3900
C(16G)-H(16G)	0.9500
C(17G)-C(18G)	1.3900
C(17G)-H(17G)	0.9500
C(18G)-C(19G)	1.3900
C(18G)-H(18G)	0.9500
C(19G)-H(19G)	0.9500
C(20G)-C(21G)	1.36(2)
C(20G)-C(25G)	1.36(2)
C(21G)-C(22G)	1.43(2)

C(22G)-C(23G)	1.38(2)
C(22G)-H(22G)	0.9500
C(23G)-C(24G)	1.38(2)
C(23G)-H(23G)	0.9500
C(24G)-C(25G)	1.41(2)
C(24G)-H(24G)	0.9500
C(25G)-C(26G)	1.53(2)
C(26G)-H(26M)	0.9900
C(26G)-H(26N)	0.9900
C(27G)-C(28G)	1.3900
C(27G)-C(32G)	1.3900
C(28G)-C(29G)	1.3900
C(28G)-H(28G)	0.9500
C(29G)-C(30G)	1.3900
C(29G)-H(29G)	0.9500
C(30G)-C(31G)	1.3900
C(30G)-H(30G)	0.9500
C(31G)-C(32G)	1.3900
C(31G)-H(31G)	0.9500
C(32G)-H(32G)	0.9500
C(33G)-C(34G)	1.3900
C(33G)-C(38G)	1.3900
C(34G)-C(35G)	1.3900
C(34G)-H(34G)	0.9500
C(35G)-C(36G)	1.3900
C(35G)-H(35G)	0.9500
C(36G)-C(37G)	1.3900
C(36G)-H(36G)	0.9500
C(37G)-C(38G)	1.3900
C(37G)-H(37G)	0.9500

C(38G)-H(38G)	0.9500
Zn(3)-Cl(5)	2.192(6)
Zn(3)-Cl(4)	2.195(6)
Zn(4)-O(11)	1.994(12)
Zn(4)-Cl(7)	2.224(10)
Zn(4)-Cl(6)	2.258(8)
Zn(4)-Cl(8)	2.265(8)
O(11)-C(11)	1.281(10)
C(11)-N(11)	1.354(11)
C(11)-H(11)	0.9500
N(11)-C(112)	1.472(9)
N(11)-C(111)	1.476(9)
C(111)-H(11H)	0.9800
C(111)-H(11I)	0.9800
C(111)-H(11J)	0.9800
C(112)-H(11K)	0.9800
C(112)-H(11L)	0.9800
C(112)-H(11M)	0.9800
O(21)-C(21)	1.275(10)
C(21)-N(21)	1.348(11)
C(21)-H(21)	0.9500
N(21)-C(211)	1.466(9)
N(21)-C(212)	1.469(9)
C(211)-H(21A)	0.9800
C(211)-H(21B)	0.9800
C(211)-H(21C)	0.9800
C(212)-H(21D)	0.9800
C(212)-H(21E)	0.9800
C(212)-H(21F)	0.9800
O(31)-C(31)	1.284(10)

C(31)-N(31)	1.351(11)
C(31)-H(31)	0.9500
N(31)-C(312)	1.470(9)
N(31)-C(311)	1.473(9)
C(311)-H(31H)	0.9800
C(311)-H(31I)	0.9800
C(311)-H(31J)	0.9800
C(312)-H(31K)	0.9800
C(312)-H(31L)	0.9800
C(312)-H(31M)	0.9800
O(41)-C(41)	1.280(10)
C(41)-N(41)	1.353(11)
C(41)-H(41)	0.9500
N(41)-C(412)	1.468(9)
N(41)-C(411)	1.468(9)
C(411)-H(41A)	0.9800
C(411)-H(41B)	0.9800
C(411)-H(41C)	0.9800
C(412)-H(41D)	0.9800
C(412)-H(41E)	0.9800
C(412)-H(41F)	0.9800
O(51)-C(51)	1.279(10)
C(51)-N(51)	1.352(11)
C(51)-H(51)	0.9500
N(51)-C(511)	1.471(9)
N(51)-C(512)	1.472(9)
C(511)-H(51A)	0.9800
C(511)-H(51B)	0.9800
C(511)-H(51C)	0.9800
C(512)-H(51D)	0.9800

C(512)-H(51E)	0.9800
C(512)-H(51F)	0.9800
O(61)-C(61)	1.283(10)
C(61)-N(61)	1.347(11)
C(61)-H(61)	0.9500
N(61)-C(611)	1.468(9)
N(61)-C(612)	1.474(9)
C(611)-H(61A)	0.9800
C(611)-H(61B)	0.9800
C(611)-H(61C)	0.9800
C(612)-H(61D)	0.9800
C(612)-H(61E)	0.9800
C(612)-H(61F)	0.9800
O(71)-C(71)	1.287(11)
C(71)-N(71)	1.354(11)
C(71)-H(71)	0.9500
N(71)-C(711)	1.470(9)
N(71)-C(712)	1.471(9)
C(711)-H(71A)	0.9800
C(711)-H(71B)	0.9800
C(711)-H(71C)	0.9800
C(712)-H(71D)	0.9800
C(712)-H(71E)	0.9800
C(712)-H(71F)	0.9800
O(81)-C(81)	1.284(11)
C(81)-N(81)	1.360(12)
C(81)-H(81)	0.9500
N(81)-C(812)	1.469(9)
N(81)-C(811)	1.470(9)
C(811)-H(81A)	0.9800

C(811)-H(81B)	0.9800
C(811)-H(81C)	0.9800
C(812)-H(81D)	0.9800
C(812)-H(81E)	0.9800
C(812)-H(81F)	0.9800
O(91)-C(91)	1.284(11)
C(91)-N(91)	1.357(12)
C(91)-H(91)	0.9500
N(91)-C(912)	1.472(9)
N(91)-C(911)	1.475(9)
C(911)-H(91A)	0.9800
C(911)-H(91B)	0.9800
C(911)-H(91C)	0.9800
C(912)-H(91D)	0.9800
C(912)-H(91E)	0.9800
C(912)-H(91F)	0.9800
O(22)-C(22)	1.279(11)
C(22)-N(22)	1.349(12)
C(22)-H(22)	0.9500
N(22)-C(221)	1.469(9)
N(22)-C(222)	1.470(9)
C(221)-H(22H)	0.9800
C(221)-H(22I)	0.9800
C(221)-H(22J)	0.9800
C(222)-H(22K)	0.9800
C(222)-H(22L)	0.9800
C(222)-H(22M)	0.9800
O(32)-C(32)	1.284(11)
C(32)-N(32)	1.358(12)
C(32)-H(32)	0.9500

N(32)-C(322)	1.472(9)
N(32)-C(321)	1.475(9)
C(321)-H(32H)	0.9800
C(321)-H(32I)	0.9800
C(321)-H(32J)	0.9800
C(322)-H(32K)	0.9800
C(322)-H(32L)	0.9800
C(322)-H(32M)	0.9800

O(2B)-Zn(1)-O(21A)	102.4(4)
O(2B)-Zn(1)-O(21C)	94.7(4)
O(21A)-Zn(1)-O(21C)	107.2(4)
O(2B)-Zn(1)-Cl(1)	117.9(3)
O(21A)-Zn(1)-Cl(1)	112.0(3)
O(21C)-Zn(1)-Cl(1)	120.0(3)
O(20A)-Pd(1A)-O(1A)	79.8(3)
O(20A)-Pd(1A)-P(2A)	90.3(3)
O(1A)-Pd(1A)-P(2A)	170.1(3)
O(20A)-Pd(1A)-P(1A)	167.4(3)
O(1A)-Pd(1A)-P(1A)	88.6(3)
P(2A)-Pd(1A)-P(1A)	101.25(14)
O(20A)-Pd(1A)-Zn(1A)	39.2(2)
O(1A)-Pd(1A)-Zn(1A)	41.0(2)
P(2A)-Pd(1A)-Zn(1A)	129.17(11)
P(1A)-Pd(1A)-Zn(1A)	129.58(10)
O(2C)-Zn(1A)-O(20A)	109.5(4)
O(2C)-Zn(1A)-O(2A)	112.0(4)
O(20A)-Zn(1A)-O(2A)	137.9(4)
O(2C)-Zn(1A)-O(21A)	106.4(4)
O(20A)-Zn(1A)-O(21A)	82.1(4)

O(2A)-Zn(1A)-O(21A)	93.3(4)
O(2C)-Zn(1A)-O(1A)	108.2(3)
O(20A)-Zn(1A)-O(1A)	80.3(4)
O(2A)-Zn(1A)-O(1A)	80.0(4)
O(21A)-Zn(1A)-O(1A)	144.7(3)
O(2C)-Zn(1A)-Pd(1A)	119.1(3)
O(20A)-Zn(1A)-Pd(1A)	40.1(3)
O(2A)-Zn(1A)-Pd(1A)	109.4(3)
O(21A)-Zn(1A)-Pd(1A)	113.9(2)
O(1A)-Zn(1A)-Pd(1A)	40.5(2)
C(14A)-P(1A)-C(8A)	106.6(4)
C(14A)-P(1A)-C(7A)	105.7(5)
C(8A)-P(1A)-C(7A)	103.4(5)
C(14A)-P(1A)-Pd(1A)	118.7(3)
C(8A)-P(1A)-Pd(1A)	113.8(3)
C(7A)-P(1A)-Pd(1A)	107.2(4)
C(33A)-P(2A)-C(27A)	105.6(5)
C(33A)-P(2A)-C(26A)	102.5(6)
C(27A)-P(2A)-C(26A)	102.5(6)
C(33A)-P(2A)-Pd(1A)	118.7(4)
C(27A)-P(2A)-Pd(1A)	116.5(4)
C(26A)-P(2A)-Pd(1A)	109.0(5)
C(1A)-O(1A)-Pd(1A)	120.0(7)
C(1A)-O(1A)-Zn(1A)	111.9(7)
Pd(1A)-O(1A)-Zn(1A)	98.5(4)
C(2A)-O(2A)-Zn(1B)	121.8(8)
C(2A)-O(2A)-Zn(1A)	113.3(8)
Zn(1B)-O(2A)-Zn(1A)	117.8(4)
C(20A)-O(20A)-Zn(1A)	110.6(8)
C(20A)-O(20A)-Pd(1A)	122.4(8)

Zn(1A)-O(20A)-Pd(1A)	100.7(4)
C(21A)-O(21A)-Zn(1)	130.1(8)
C(21A)-O(21A)-Zn(1A)	109.3(8)
Zn(1)-O(21A)-Zn(1A)	118.5(4)
O(1A)-C(1A)-C(6A)	124.1(12)
O(1A)-C(1A)-C(2A)	117.3(11)
C(6A)-C(1A)-C(2A)	118.3(13)
C(3A)-C(2A)-O(2A)	126.3(12)
C(3A)-C(2A)-C(1A)	117.2(12)
O(2A)-C(2A)-C(1A)	116.4(12)
C(2A)-C(3A)-C(4A)	123.7(13)
C(2A)-C(3A)-H(3A)	118.2
C(4A)-C(3A)-H(3A)	118.2
C(5A)-C(4A)-C(3A)	119.5(14)
C(5A)-C(4A)-H(4A)	120.3
C(3A)-C(4A)-H(4A)	120.3
C(6A)-C(5A)-C(4A)	117.6(13)
C(6A)-C(5A)-H(5A)	121.2
C(4A)-C(5A)-H(5A)	121.2
C(1A)-C(6A)-C(5A)	123.4(13)
C(1A)-C(6A)-C(7A)	116.2(13)
C(5A)-C(6A)-C(7A)	120.3(12)
C(6A)-C(7A)-P(1A)	116.5(9)
C(6A)-C(7A)-H(7A1)	108.2
P(1A)-C(7A)-H(7A1)	108.2
C(6A)-C(7A)-H(7A2)	108.2
P(1A)-C(7A)-H(7A2)	108.2
H(7A1)-C(7A)-H(7A2)	107.3
C(9A)-C(8A)-C(13A)	120.0
C(9A)-C(8A)-P(1A)	120.3(5)

C(13A)-C(8A)-P(1A) 119.7(5)

C(10A)-C(9A)-C(8A) 120.0

C(10A)-C(9A)-H(9A) 120.0

C(8A)-C(9A)-H(9A) 120.0

C(9A)-C(10A)-C(11A) 120.0

C(9A)-C(10A)-H(10A) 120.0

C(11A)-C(10A)-H(10A) 120.0

C(12A)-C(11A)-C(10A) 120.0

C(12A)-C(11A)-H(11A) 120.0

C(10A)-C(11A)-H(11A) 120.0

C(11A)-C(12A)-C(13A) 120.0

C(11A)-C(12A)-H(12A) 120.0

C(13A)-C(12A)-H(12A) 120.0

C(12A)-C(13A)-C(8A) 120.0

C(12A)-C(13A)-H(13A) 120.0

C(8A)-C(13A)-H(13A) 120.0

C(15A)-C(14A)-C(19A) 120.0

C(15A)-C(14A)-P(1A) 117.8(5)

C(19A)-C(14A)-P(1A) 122.1(5)

C(16A)-C(15A)-C(14A) 120.0

C(16A)-C(15A)-H(15A) 120.0

C(14A)-C(15A)-H(15A) 120.0

C(15A)-C(16A)-C(17A) 120.0

C(15A)-C(16A)-H(16A) 120.0

C(17A)-C(16A)-H(16A) 120.0

C(18A)-C(17A)-C(16A) 120.0

C(18A)-C(17A)-H(17A) 120.0

C(16A)-C(17A)-H(17A) 120.0

C(17A)-C(18A)-C(19A) 120.0

C(17A)-C(18A)-H(18A) 120.0

C(19A)-C(18A)-H(18A)	120.0
C(18A)-C(19A)-C(14A)	120.0
C(18A)-C(19A)-H(19A)	120.0
C(14A)-C(19A)-H(19A)	120.0
O(20A)-C(20A)-C(25A)	122.0(12)
O(20A)-C(20A)-C(21A)	117.5(12)
C(25A)-C(20A)-C(21A)	120.5(12)
O(21A)-C(21A)-C(22A)	123.9(12)
O(21A)-C(21A)-C(20A)	118.1(12)
C(22A)-C(21A)-C(20A)	118.0(13)
C(21A)-C(22A)-C(23A)	121.5(13)
C(21A)-C(22A)-H(22A)	119.3
C(23A)-C(22A)-H(22A)	119.3
C(24A)-C(23A)-C(22A)	119.4(14)
C(24A)-C(23A)-H(23A)	120.3
C(22A)-C(23A)-H(23A)	120.3
C(23A)-C(24A)-C(25A)	122.5(14)
C(23A)-C(24A)-H(24A)	118.7
C(25A)-C(24A)-H(24A)	118.7
C(24A)-C(25A)-C(20A)	117.7(13)
C(24A)-C(25A)-C(26A)	124.2(12)
C(20A)-C(25A)-C(26A)	118.1(12)
C(25A)-C(26A)-P(2A)	113.9(10)
C(25A)-C(26A)-H(26A)	108.8
P(2A)-C(26A)-H(26A)	108.8
C(25A)-C(26A)-H(26B)	108.8
P(2A)-C(26A)-H(26B)	108.8
H(26A)-C(26A)-H(26B)	107.7
C(28A)-C(27A)-C(32A)	120.0
C(28A)-C(27A)-P(2A)	121.2(6)

C(32A)-C(27A)-P(2A)	118.7(6)
C(27A)-C(28A)-C(29A)	120.0
C(27A)-C(28A)-H(28A)	120.0
C(29A)-C(28A)-H(28A)	120.0
C(30A)-C(29A)-C(28A)	120.0
C(30A)-C(29A)-H(29A)	120.0
C(28A)-C(29A)-H(29A)	120.0
C(31A)-C(30A)-C(29A)	120.0
C(31A)-C(30A)-H(30A)	120.0
C(29A)-C(30A)-H(30A)	120.0
C(30A)-C(31A)-C(32A)	120.0
C(30A)-C(31A)-H(31A)	120.0
C(32A)-C(31A)-H(31A)	120.0
C(31A)-C(32A)-C(27A)	120.0
C(31A)-C(32A)-H(32A)	120.0
C(27A)-C(32A)-H(32A)	120.0
C(34A)-C(33A)-C(38A)	120.0
C(34A)-C(33A)-P(2A)	120.3(5)
C(38A)-C(33A)-P(2A)	119.6(5)
C(33A)-C(34A)-C(35A)	120.0
C(33A)-C(34A)-H(34A)	120.0
C(35A)-C(34A)-H(34A)	120.0
C(34A)-C(35A)-C(36A)	120.0
C(34A)-C(35A)-H(35A)	120.0
C(36A)-C(35A)-H(35A)	120.0
C(37A)-C(36A)-C(35A)	120.0
C(37A)-C(36A)-H(36A)	120.0
C(35A)-C(36A)-H(36A)	120.0
C(38A)-C(37A)-C(36A)	120.0
C(38A)-C(37A)-H(37A)	120.0

C(36A)-C(37A)-H(37A) 120.0

C(37A)-C(38A)-C(33A) 120.0

C(37A)-C(38A)-H(38A) 120.0

C(33A)-C(38A)-H(38A) 120.0

O(20B)-Pd(1B)-O(1B) 79.6(3)

O(20B)-Pd(1B)-P(2B) 90.6(3)

O(1B)-Pd(1B)-P(2B) 168.7(3)

O(20B)-Pd(1B)-P(1B) 168.6(3)

O(1B)-Pd(1B)-P(1B) 90.8(3)

P(2B)-Pd(1B)-P(1B) 99.51(15)

O(20B)-Pd(1B)-Zn(1B) 40.7(2)

O(1B)-Pd(1B)-Zn(1B) 40.3(2)

P(2B)-Pd(1B)-Zn(1B) 130.90(12)

P(1B)-Pd(1B)-Zn(1B) 128.51(11)

O(2A)-Zn(1B)-O(2B) 102.1(4)

O(2A)-Zn(1B)-O(21B) 107.9(4)

O(2B)-Zn(1B)-O(21B) 96.4(4)

O(2A)-Zn(1B)-O(1B) 116.8(4)

O(2B)-Zn(1B)-O(1B) 81.9(4)

O(21B)-Zn(1B)-O(1B) 134.6(4)

O(2A)-Zn(1B)-O(20B) 105.6(4)

O(2B)-Zn(1B)-O(20B) 151.4(3)

O(21B)-Zn(1B)-O(20B) 81.8(4)

O(1B)-Zn(1B)-O(20B) 79.5(3)

O(2A)-Zn(1B)-Pd(1B) 125.9(3)

O(2B)-Zn(1B)-Pd(1B) 115.1(3)

O(21B)-Zn(1B)-Pd(1B) 105.5(3)

O(1B)-Zn(1B)-Pd(1B) 40.6(2)

O(20B)-Zn(1B)-Pd(1B) 40.3(2)

C(8B)-P(1B)-C(14B) 108.7(5)

C(8B)-P(1B)-C(7B)	104.2(6)
C(14B)-P(1B)-C(7B)	103.0(6)
C(8B)-P(1B)-Pd(1B)	112.5(3)
C(14B)-P(1B)-Pd(1B)	122.3(4)
C(7B)-P(1B)-Pd(1B)	104.1(5)
C(33B)-P(2B)-C(27B)	105.2(7)
C(33B)-P(2B)-C(26B)	103.2(7)
C(27B)-P(2B)-C(26B)	107.9(6)
C(33B)-P(2B)-Pd(1B)	116.7(5)
C(27B)-P(2B)-Pd(1B)	116.8(4)
C(26B)-P(2B)-Pd(1B)	105.9(5)
C(1B)-O(1B)-Zn(1B)	110.0(8)
C(1B)-O(1B)-Pd(1B)	123.0(7)
Zn(1B)-O(1B)-Pd(1B)	99.2(3)
C(2B)-O(2B)-Zn(1)	125.8(8)
C(2B)-O(2B)-Zn(1B)	107.9(8)
Zn(1)-O(2B)-Zn(1B)	126.1(4)
C(20B)-O(20B)-Pd(1B)	117.2(8)
C(20B)-O(20B)-Zn(1B)	110.0(8)
Pd(1B)-O(20B)-Zn(1B)	99.0(3)
C(21B)-O(21B)-Zn(1C)	124.9(8)
C(21B)-O(21B)-Zn(1B)	112.0(8)
Zn(1C)-O(21B)-Zn(1B)	120.0(4)
O(1B)-C(1B)-C(6B)	123.1(13)
O(1B)-C(1B)-C(2B)	116.7(11)
C(6B)-C(1B)-C(2B)	120.2(12)
C(1B)-C(2B)-O(2B)	118.9(11)
C(1B)-C(2B)-C(3B)	120.4(12)
O(2B)-C(2B)-C(3B)	120.7(12)
C(4B)-C(3B)-C(2B)	117.5(13)

C(4B)-C(3B)-H(3B)	121.2
C(2B)-C(3B)-H(3B)	121.2
C(5B)-C(4B)-C(3B)	120.8(13)
C(5B)-C(4B)-H(4B)	119.6
C(3B)-C(4B)-H(4B)	119.6
C(4B)-C(5B)-C(6B)	120.6(14)
C(4B)-C(5B)-H(5B)	119.7
C(6B)-C(5B)-H(5B)	119.7
C(1B)-C(6B)-C(5B)	120.2(14)
C(1B)-C(6B)-C(7B)	116.4(12)
C(5B)-C(6B)-C(7B)	123.4(13)
C(6B)-C(7B)-P(1B)	113.9(9)
C(6B)-C(7B)-H(7B1)	108.8
P(1B)-C(7B)-H(7B1)	108.8
C(6B)-C(7B)-H(7B2)	108.8
P(1B)-C(7B)-H(7B2)	108.8
H(7B1)-C(7B)-H(7B2)	107.7
C(9B)-C(8B)-C(13B)	120.0
C(9B)-C(8B)-P(1B)	119.0(5)
C(13B)-C(8B)-P(1B)	121.0(5)
C(8B)-C(9B)-C(10B)	120.0
C(8B)-C(9B)-H(9B)	120.0
C(10B)-C(9B)-H(9B)	120.0
C(11B)-C(10B)-C(9B)	120.0
C(11B)-C(10B)-H(10B)	120.0
C(9B)-C(10B)-H(10B)	120.0
C(12B)-C(11B)-C(10B)	120.0
C(12B)-C(11B)-H(11B)	120.0
C(10B)-C(11B)-H(11B)	120.0
C(11B)-C(12B)-C(13B)	120.0

C(11B)-C(12B)-H(12B)	120.0
C(13B)-C(12B)-H(12B)	120.0
C(12B)-C(13B)-C(8B)	120.0
C(12B)-C(13B)-H(13B)	120.0
C(8B)-C(13B)-H(13B)	120.0
C(15B)-C(14B)-C(19B)	120.0
C(15B)-C(14B)-P(1B)	123.0(6)
C(19B)-C(14B)-P(1B)	116.8(6)
C(16B)-C(15B)-C(14B)	120.0
C(16B)-C(15B)-H(15B)	120.0
C(14B)-C(15B)-H(15B)	120.0
C(15B)-C(16B)-C(17B)	120.0
C(15B)-C(16B)-H(16B)	120.0
C(17B)-C(16B)-H(16B)	120.0
C(18B)-C(17B)-C(16B)	120.0
C(18B)-C(17B)-H(17B)	120.0
C(16B)-C(17B)-H(17B)	120.0
C(17B)-C(18B)-C(19B)	120.0
C(17B)-C(18B)-H(18B)	120.0
C(19B)-C(18B)-H(18B)	120.0
C(18B)-C(19B)-C(14B)	120.0
C(18B)-C(19B)-H(19B)	120.0
C(14B)-C(19B)-H(19B)	120.0
O(20B)-C(20B)-C(21B)	119.0(12)
O(20B)-C(20B)-C(25B)	119.3(13)
C(21B)-C(20B)-C(25B)	121.7(12)
C(22B)-C(21B)-C(20B)	121.4(13)
C(22B)-C(21B)-O(21B)	121.5(13)
C(20B)-C(21B)-O(21B)	117.1(11)
C(21B)-C(22B)-C(23B)	117.0(14)

C(21B)-C(22B)-H(22B)	121.5
C(23B)-C(22B)-H(22B)	121.5
C(24B)-C(23B)-C(22B)	122.5(13)
C(24B)-C(23B)-H(23B)	118.8
C(22B)-C(23B)-H(23B)	118.8
C(23B)-C(24B)-C(25B)	121.6(14)
C(23B)-C(24B)-H(24B)	119.2
C(25B)-C(24B)-H(24B)	119.2
C(20B)-C(25B)-C(26B)	120.2(13)
C(20B)-C(25B)-C(24B)	115.8(14)
C(26B)-C(25B)-C(24B)	124.0(13)
C(25B)-C(26B)-P(2B)	116.5(9)
C(25B)-C(26B)-H(26C)	108.2
P(2B)-C(26B)-H(26C)	108.2
C(25B)-C(26B)-H(26D)	108.2
P(2B)-C(26B)-H(26D)	108.2
H(26C)-C(26B)-H(26D)	107.3
C(28B)-C(27B)-C(32B)	120.0
C(28B)-C(27B)-P(2B)	120.5(7)
C(32B)-C(27B)-P(2B)	119.3(7)
C(27B)-C(28B)-C(29B)	120.0
C(27B)-C(28B)-H(28B)	120.0
C(29B)-C(28B)-H(28B)	120.0
C(30B)-C(29B)-C(28B)	120.0
C(30B)-C(29B)-H(29B)	120.0
C(28B)-C(29B)-H(29B)	120.0
C(29B)-C(30B)-C(31B)	120.0
C(29B)-C(30B)-H(30B)	120.0
C(31B)-C(30B)-H(30B)	120.0
C(32B)-C(31B)-C(30B)	120.0

C(32B)-C(31B)-H(31B)	120.0
C(30B)-C(31B)-H(31B)	120.0
C(31B)-C(32B)-C(27B)	120.0
C(31B)-C(32B)-H(32B)	120.0
C(27B)-C(32B)-H(32B)	120.0
C(34B)-C(33B)-C(38B)	120.0
C(34B)-C(33B)-P(2B)	120.2(9)
C(38B)-C(33B)-P(2B)	119.6(9)
C(35B)-C(34B)-C(33B)	120.0
C(35B)-C(34B)-H(34B)	120.0
C(33B)-C(34B)-H(34B)	120.0
C(34B)-C(35B)-C(36B)	120.0
C(34B)-C(35B)-H(35B)	120.0
C(36B)-C(35B)-H(35B)	120.0
C(37B)-C(36B)-C(35B)	120.0
C(37B)-C(36B)-H(36B)	120.0
C(35B)-C(36B)-H(36B)	120.0
C(38B)-C(37B)-C(36B)	120.0
C(38B)-C(37B)-H(37B)	120.0
C(36B)-C(37B)-H(37B)	120.0
C(37B)-C(38B)-C(33B)	120.0
C(37B)-C(38B)-H(38B)	120.0
C(33B)-C(38B)-H(38B)	120.0
O(20C)-Pd(1C)-O(1C)	80.9(4)
O(20C)-Pd(1C)-P(1C)	166.9(3)
O(1C)-Pd(1C)-P(1C)	89.6(3)
O(20C)-Pd(1C)-P(2C)	90.1(3)
O(1C)-Pd(1C)-P(2C)	170.9(3)
P(1C)-Pd(1C)-P(2C)	99.55(15)
O(20C)-Pd(1C)-Zn(1C)	40.0(2)

O(1C)-Pd(1C)-Zn(1C)	42.2(3)
P(1C)-Pd(1C)-Zn(1C)	131.68(12)
P(2C)-Pd(1C)-Zn(1C)	128.70(11)
O(21B)-Zn(1C)-O(2C)	103.5(4)
O(21B)-Zn(1C)-O(21C)	108.9(4)
O(2C)-Zn(1C)-O(21C)	96.7(4)
O(21B)-Zn(1C)-O(20C)	110.9(4)
O(2C)-Zn(1C)-O(20C)	143.8(4)
O(21C)-Zn(1C)-O(20C)	82.7(4)
O(21B)-Zn(1C)-O(1C)	107.8(4)
O(2C)-Zn(1C)-O(1C)	79.9(3)
O(21C)-Zn(1C)-O(1C)	142.9(4)
O(20C)-Zn(1C)-O(1C)	79.4(3)
O(21B)-Zn(1C)-Pd(1C)	123.2(3)
O(2C)-Zn(1C)-Pd(1C)	110.3(3)
O(21C)-Zn(1C)-Pd(1C)	110.8(3)
O(20C)-Zn(1C)-Pd(1C)	39.9(3)
O(1C)-Zn(1C)-Pd(1C)	40.8(2)
C(14C)-P(1C)-C(8C)	110.2(5)
C(14C)-P(1C)-C(7C)	107.4(7)
C(8C)-P(1C)-C(7C)	101.3(6)
C(14C)-P(1C)-Pd(1C)	116.3(4)
C(8C)-P(1C)-Pd(1C)	112.6(4)
C(7C)-P(1C)-Pd(1C)	107.7(5)
C(33C)-P(2C)-C(26C)	106.6(7)
C(33C)-P(2C)-C(27C)	106.3(6)
C(26C)-P(2C)-C(27C)	107.3(6)
C(33C)-P(2C)-Pd(1C)	114.1(5)
C(26C)-P(2C)-Pd(1C)	103.5(5)
C(27C)-P(2C)-Pd(1C)	118.2(4)

C(1C)-O(1C)-Pd(1C)	119.6(9)
C(1C)-O(1C)-Zn(1C)	112.4(8)
Pd(1C)-O(1C)-Zn(1C)	97.1(4)
C(2C)-O(2C)-Zn(1A)	125.6(8)
C(2C)-O(2C)-Zn(1C)	111.0(8)
Zn(1A)-O(2C)-Zn(1C)	121.7(4)
C(20C)-O(20C)-Pd(1C)	123.2(9)
C(20C)-O(20C)-Zn(1C)	109.9(8)
Pd(1C)-O(20C)-Zn(1C)	100.1(4)
C(21C)-O(21C)-Zn(1)	125.8(9)
C(21C)-O(21C)-Zn(1C)	109.9(8)
Zn(1)-O(21C)-Zn(1C)	121.3(5)
C(6C)-C(1C)-O(1C)	124.7(13)
C(6C)-C(1C)-C(2C)	121.4(13)
O(1C)-C(1C)-C(2C)	114.0(12)
O(2C)-C(2C)-C(1C)	120.8(12)
O(2C)-C(2C)-C(3C)	120.6(12)
C(1C)-C(2C)-C(3C)	118.6(13)
C(4C)-C(3C)-C(2C)	119.3(13)
C(4C)-C(3C)-H(3C)	120.3
C(2C)-C(3C)-H(3C)	120.3
C(3C)-C(4C)-C(5C)	119.9(14)
C(3C)-C(4C)-H(4C)	120.1
C(5C)-C(4C)-H(4C)	120.1
C(4C)-C(5C)-C(6C)	119.2(14)
C(4C)-C(5C)-H(5C)	120.4
C(6C)-C(5C)-H(5C)	120.4
C(1C)-C(6C)-C(5C)	121.7(14)
C(1C)-C(6C)-C(7C)	118.8(13)
C(5C)-C(6C)-C(7C)	119.0(13)

C(6C)-C(7C)-P(1C)	117.0(10)
C(6C)-C(7C)-H(7C1)	108.0
P(1C)-C(7C)-H(7C1)	108.0
C(6C)-C(7C)-H(7C2)	108.0
P(1C)-C(7C)-H(7C2)	108.0
H(7C1)-C(7C)-H(7C2)	107.3
C(9C)-C(8C)-C(13C)	120.0
C(9C)-C(8C)-P(1C)	122.7(6)
C(13C)-C(8C)-P(1C)	116.8(6)
C(10C)-C(9C)-C(8C)	120.0
C(10C)-C(9C)-H(9C)	120.0
C(8C)-C(9C)-H(9C)	120.0
C(9C)-C(10C)-C(11C)	120.0
C(9C)-C(10C)-H(10C)	120.0
C(11C)-C(10C)-H(10C)	120.0
C(12C)-C(11C)-C(10C)	120.0
C(12C)-C(11C)-H(11C)	120.0
C(10C)-C(11C)-H(11C)	120.0
C(11C)-C(12C)-C(13C)	120.0
C(11C)-C(12C)-H(12C)	120.0
C(13C)-C(12C)-H(12C)	120.0
C(12C)-C(13C)-C(8C)	120.0
C(12C)-C(13C)-H(13C)	120.0
C(8C)-C(13C)-H(13C)	120.0
C(15C)-C(14C)-C(19C)	120.0
C(15C)-C(14C)-P(1C)	120.7(7)
C(19C)-C(14C)-P(1C)	118.3(7)
C(14C)-C(15C)-C(16C)	120.0
C(14C)-C(15C)-H(15C)	120.0
C(16C)-C(15C)-H(15C)	120.0

C(15C)-C(16C)-C(17C)	120.0
C(15C)-C(16C)-H(16C)	120.0
C(17C)-C(16C)-H(16C)	120.0
C(18C)-C(17C)-C(16C)	120.0
C(18C)-C(17C)-H(17C)	120.0
C(16C)-C(17C)-H(17C)	120.0
C(19C)-C(18C)-C(17C)	120.0
C(19C)-C(18C)-H(18C)	120.0
C(17C)-C(18C)-H(18C)	120.0
C(18C)-C(19C)-C(14C)	120.0
C(18C)-C(19C)-H(19C)	120.0
C(14C)-C(19C)-H(19C)	120.0
O(20C)-C(20C)-C(25C)	119.4(12)
O(20C)-C(20C)-C(21C)	119.1(13)
C(25C)-C(20C)-C(21C)	121.2(14)
O(21C)-C(21C)-C(22C)	122.5(13)
O(21C)-C(21C)-C(20C)	118.2(13)
C(22C)-C(21C)-C(20C)	119.3(14)
C(21C)-C(22C)-C(23C)	120.5(14)
C(21C)-C(22C)-H(22C)	119.8
C(23C)-C(22C)-H(22C)	119.8
C(24C)-C(23C)-C(22C)	119.8(15)
C(24C)-C(23C)-H(23C)	120.1
C(22C)-C(23C)-H(23C)	120.1
C(23C)-C(24C)-C(25C)	120.4(14)
C(23C)-C(24C)-H(24C)	119.8
C(25C)-C(24C)-H(24C)	119.8
C(20C)-C(25C)-C(24C)	118.6(13)
C(20C)-C(25C)-C(26C)	116.7(13)
C(24C)-C(25C)-C(26C)	124.6(13)

C(25C)-C(26C)-P(2C)	112.1(11)
C(25C)-C(26C)-H(26E)	109.2
P(2C)-C(26C)-H(26E)	109.2
C(25C)-C(26C)-H(26F)	109.2
P(2C)-C(26C)-H(26F)	109.2
H(26E)-C(26C)-H(26F)	107.9
C(28C)-C(27C)-C(32C)	120.0
C(28C)-C(27C)-P(2C)	115.8(7)
C(32C)-C(27C)-P(2C)	124.0(7)
C(27C)-C(28C)-C(29C)	120.0
C(27C)-C(28C)-H(28C)	120.0
C(29C)-C(28C)-H(28C)	120.0
C(30C)-C(29C)-C(28C)	120.0
C(30C)-C(29C)-H(29C)	120.0
C(28C)-C(29C)-H(29C)	120.0
C(29C)-C(30C)-C(31C)	120.0
C(29C)-C(30C)-H(30C)	120.0
C(31C)-C(30C)-H(30C)	120.0
C(32C)-C(31C)-C(30C)	120.0
C(32C)-C(31C)-H(31C)	120.0
C(30C)-C(31C)-H(31C)	120.0
C(31C)-C(32C)-C(27C)	120.0
C(31C)-C(32C)-H(32C)	120.0
C(27C)-C(32C)-H(32C)	120.0
C(34C)-C(33C)-C(38C)	120.0
C(34C)-C(33C)-P(2C)	117.2(8)
C(38C)-C(33C)-P(2C)	122.8(8)
C(33C)-C(34C)-C(35C)	120.0
C(33C)-C(34C)-H(34C)	120.0
C(35C)-C(34C)-H(34C)	120.0

C(36C)-C(35C)-C(34C) 120.0

C(36C)-C(35C)-H(35C) 120.0

C(34C)-C(35C)-H(35C) 120.0

C(35C)-C(36C)-C(37C) 120.0

C(35C)-C(36C)-H(36C) 120.0

C(37C)-C(36C)-H(36C) 120.0

C(38C)-C(37C)-C(36C) 120.0

C(38C)-C(37C)-H(37C) 120.0

C(36C)-C(37C)-H(37C) 120.0

C(37C)-C(38C)-C(33C) 120.0

C(37C)-C(38C)-H(38C) 120.0

C(33C)-C(38C)-H(38C) 120.0

O(2D)-Zn(2)-O(21F) 97.6(4)

O(2D)-Zn(2)-O(21E) 101.5(4)

O(21F)-Zn(2)-O(21E) 108.6(4)

O(2D)-Zn(2)-Cl(2) 122.6(3)

O(21F)-Zn(2)-Cl(2) 114.1(3)

O(21E)-Zn(2)-Cl(2) 110.8(3)

O(1D)-Pd(1D)-O(20D) 78.6(4)

O(1D)-Pd(1D)-P(2D) 170.4(3)

O(20D)-Pd(1D)-P(2D) 92.1(3)

O(1D)-Pd(1D)-P(1D) 90.5(3)

O(20D)-Pd(1D)-P(1D) 169.1(3)

P(2D)-Pd(1D)-P(1D) 98.78(14)

O(1D)-Pd(1D)-Zn(1D) 38.8(2)

O(20D)-Pd(1D)-Zn(1D) 41.4(3)

P(2D)-Pd(1D)-Zn(1D) 132.58(10)

P(1D)-Pd(1D)-Zn(1D) 127.96(11)

O(2F)-Zn(1D)-O(21D) 106.0(4)

O(2F)-Zn(1D)-O(1D) 109.5(4)

O(21D)-Zn(1D)-O(1D)	143.0(4)
O(2F)-Zn(1D)-O(2D)	101.4(4)
O(21D)-Zn(1D)-O(2D)	101.1(4)
O(1D)-Zn(1D)-O(2D)	82.0(3)
O(2F)-Zn(1D)-O(20D)	111.4(4)
O(21D)-Zn(1D)-O(20D)	79.6(4)
O(1D)-Zn(1D)-O(20D)	78.0(3)
O(2D)-Zn(1D)-O(20D)	145.7(4)
O(2F)-Zn(1D)-Pd(1D)	125.2(3)
O(21D)-Zn(1D)-Pd(1D)	109.1(3)
O(1D)-Zn(1D)-Pd(1D)	39.3(3)
O(2D)-Zn(1D)-Pd(1D)	111.3(3)
O(20D)-Zn(1D)-Pd(1D)	40.2(2)
C(8D)-P(1D)-C(14D)	108.5(4)
C(8D)-P(1D)-C(7D)	103.5(5)
C(14D)-P(1D)-C(7D)	108.1(6)
C(8D)-P(1D)-Pd(1D)	118.5(3)
C(14D)-P(1D)-Pd(1D)	111.9(3)
C(7D)-P(1D)-Pd(1D)	105.5(5)
C(33D)-P(2D)-C(27D)	110.9(5)
C(33D)-P(2D)-C(26D)	107.5(6)
C(27D)-P(2D)-C(26D)	103.4(6)
C(33D)-P(2D)-Pd(1D)	115.9(4)
C(27D)-P(2D)-Pd(1D)	112.8(4)
C(26D)-P(2D)-Pd(1D)	105.2(5)
C(1D)-O(1D)-Zn(1D)	111.8(8)
C(1D)-O(1D)-Pd(1D)	126.6(8)
Zn(1D)-O(1D)-Pd(1D)	101.9(4)
C(2D)-O(2D)-Zn(2)	126.0(8)
C(2D)-O(2D)-Zn(1D)	109.1(7)

Zn(2)-O(2D)-Zn(1D)	122.6(4)
C(20D)-O(20D)-Pd(1D)	120.7(9)
C(20D)-O(20D)-Zn(1D)	111.0(8)
Pd(1D)-O(20D)-Zn(1D)	98.4(4)
C(21D)-O(21D)-Zn(1E)	125.3(8)
C(21D)-O(21D)-Zn(1D)	114.7(8)
Zn(1E)-O(21D)-Zn(1D)	118.3(5)
O(1D)-C(1D)-C(6D)	120.7(12)
O(1D)-C(1D)-C(2D)	118.6(12)
C(6D)-C(1D)-C(2D)	120.6(13)
O(2D)-C(2D)-C(3D)	123.5(12)
O(2D)-C(2D)-C(1D)	118.2(12)
C(3D)-C(2D)-C(1D)	118.2(13)
C(4D)-C(3D)-C(2D)	121.9(14)
C(4D)-C(3D)-H(3D)	119.1
C(2D)-C(3D)-H(3D)	119.1
C(3D)-C(4D)-C(5D)	119.6(14)
C(3D)-C(4D)-H(4D)	120.2
C(5D)-C(4D)-H(4D)	120.2
C(6D)-C(5D)-C(4D)	119.2(14)
C(6D)-C(5D)-H(5D)	120.4
C(4D)-C(5D)-H(5D)	120.4
C(5D)-C(6D)-C(1D)	120.5(13)
C(5D)-C(6D)-C(7D)	119.9(13)
C(1D)-C(6D)-C(7D)	119.6(12)
C(6D)-C(7D)-P(1D)	112.5(10)
C(6D)-C(7D)-H(7D1)	109.1
P(1D)-C(7D)-H(7D1)	109.1
C(6D)-C(7D)-H(7D2)	109.1
P(1D)-C(7D)-H(7D2)	109.1

H(7D1)-C(7D)-H(7D2)	107.8
C(9D)-C(8D)-C(13D)	120.0
C(9D)-C(8D)-P(1D)	122.2(5)
C(13D)-C(8D)-P(1D)	117.7(5)
C(10D)-C(9D)-C(8D)	120.0
C(10D)-C(9D)-H(9D)	120.0
C(8D)-C(9D)-H(9D)	120.0
C(9D)-C(10D)-C(11D)	120.0
C(9D)-C(10D)-H(10D)	120.0
C(11D)-C(10D)-H(10D)	120.0
C(12D)-C(11D)-C(10D)	120.0
C(12D)-C(11D)-H(11D)	120.0
C(10D)-C(11D)-H(11D)	120.0
C(11D)-C(12D)-C(13D)	120.0
C(11D)-C(12D)-H(12D)	120.0
C(13D)-C(12D)-H(12D)	120.0
C(12D)-C(13D)-C(8D)	120.0
C(12D)-C(13D)-H(13D)	120.0
C(8D)-C(13D)-H(13D)	120.0
C(15D)-C(14D)-C(19D)	120.0
C(15D)-C(14D)-P(1D)	122.2(5)
C(19D)-C(14D)-P(1D)	117.7(5)
C(14D)-C(15D)-C(16D)	120.0
C(14D)-C(15D)-H(15D)	120.0
C(16D)-C(15D)-H(15D)	120.0
C(17D)-C(16D)-C(15D)	120.0
C(17D)-C(16D)-H(16D)	120.0
C(15D)-C(16D)-H(16D)	120.0
C(16D)-C(17D)-C(18D)	120.0
C(16D)-C(17D)-H(17D)	120.0

C(18D)-C(17D)-H(17D)	120.0
C(19D)-C(18D)-C(17D)	120.0
C(19D)-C(18D)-H(18D)	120.0
C(17D)-C(18D)-H(18D)	120.0
C(18D)-C(19D)-C(14D)	120.0
C(18D)-C(19D)-H(19D)	120.0
C(14D)-C(19D)-H(19D)	120.0
O(20D)-C(20D)-C(25D)	123.9(12)
O(20D)-C(20D)-C(21D)	116.6(13)
C(25D)-C(20D)-C(21D)	119.5(13)
O(21D)-C(21D)-C(22D)	124.6(13)
O(21D)-C(21D)-C(20D)	116.6(13)
C(22D)-C(21D)-C(20D)	118.7(13)
C(23D)-C(22D)-C(21D)	119.9(14)
C(23D)-C(22D)-H(22D)	120.0
C(21D)-C(22D)-H(22D)	120.0
C(22D)-C(23D)-C(24D)	122.1(14)
C(22D)-C(23D)-H(23D)	118.9
C(24D)-C(23D)-H(23D)	118.9
C(23D)-C(24D)-C(25D)	120.0(15)
C(23D)-C(24D)-H(24D)	120.0
C(25D)-C(24D)-H(24D)	120.0
C(24D)-C(25D)-C(20D)	119.7(13)
C(24D)-C(25D)-C(26D)	123.6(13)
C(20D)-C(25D)-C(26D)	116.6(12)
C(25D)-C(26D)-P(2D)	116.4(10)
C(25D)-C(26D)-H(26G)	108.2
P(2D)-C(26D)-H(26G)	108.2
C(25D)-C(26D)-H(26H)	108.2
P(2D)-C(26D)-H(26H)	108.2

H(26G)-C(26D)-H(26H)	107.3
C(28D)-C(27D)-C(32D)	120.0
C(28D)-C(27D)-P(2D)	124.1(6)
C(32D)-C(27D)-P(2D)	115.8(6)
C(27D)-C(28D)-C(29D)	120.0
C(27D)-C(28D)-H(28D)	120.0
C(29D)-C(28D)-H(28D)	120.0
C(28D)-C(29D)-C(30D)	120.0
C(28D)-C(29D)-H(29D)	120.0
C(30D)-C(29D)-H(29D)	120.0
C(31D)-C(30D)-C(29D)	120.0
C(31D)-C(30D)-H(30D)	120.0
C(29D)-C(30D)-H(30D)	120.0
C(30D)-C(31D)-C(32D)	120.0
C(30D)-C(31D)-H(31D)	120.0
C(32D)-C(31D)-H(31D)	120.0
C(31D)-C(32D)-C(27D)	120.0
C(31D)-C(32D)-H(32D)	120.0
C(27D)-C(32D)-H(32D)	120.0
C(34D)-C(33D)-C(38D)	120.0
C(34D)-C(33D)-P(2D)	122.1(6)
C(38D)-C(33D)-P(2D)	117.9(6)
C(33D)-C(34D)-C(35D)	120.0
C(33D)-C(34D)-H(34D)	120.0
C(35D)-C(34D)-H(34D)	120.0
C(34D)-C(35D)-C(36D)	120.0
C(34D)-C(35D)-H(35D)	120.0
C(36D)-C(35D)-H(35D)	120.0
C(35D)-C(36D)-C(37D)	120.0
C(35D)-C(36D)-H(36D)	120.0

C(37D)-C(36D)-H(36D)	120.0
C(38D)-C(37D)-C(36D)	120.0
C(38D)-C(37D)-H(37D)	120.0
C(36D)-C(37D)-H(37D)	120.0
C(37D)-C(38D)-C(33D)	120.0
C(37D)-C(38D)-H(38D)	120.0
C(33D)-C(38D)-H(38D)	120.0
O(20E)-Pd(1E)-O(1E)	78.8(4)
O(20E)-Pd(1E)-P(2E)	89.9(3)
O(1E)-Pd(1E)-P(2E)	168.7(3)
O(20E)-Pd(1E)-P(1E)	166.5(3)
O(1E)-Pd(1E)-P(1E)	88.3(3)
P(2E)-Pd(1E)-P(1E)	102.96(14)
O(20E)-Pd(1E)-Zn(1E)	37.3(3)
O(1E)-Pd(1E)-Zn(1E)	41.9(2)
P(2E)-Pd(1E)-Zn(1E)	126.80(10)
P(1E)-Pd(1E)-Zn(1E)	130.21(11)
O(21D)-Zn(1E)-O(2E)	115.1(4)
O(21D)-Zn(1E)-O(20E)	111.3(4)
O(2E)-Zn(1E)-O(20E)	132.4(4)
O(21D)-Zn(1E)-O(21E)	97.8(4)
O(2E)-Zn(1E)-O(21E)	102.0(4)
O(20E)-Zn(1E)-O(21E)	81.5(4)
O(21D)-Zn(1E)-O(1E)	104.0(4)
O(2E)-Zn(1E)-O(1E)	82.4(4)
O(20E)-Zn(1E)-O(1E)	76.7(4)
O(21E)-Zn(1E)-O(1E)	153.5(3)
O(21D)-Zn(1E)-Pd(1E)	117.0(3)
O(2E)-Zn(1E)-Pd(1E)	107.8(3)
O(20E)-Zn(1E)-Pd(1E)	37.6(3)

O(21E)-Zn(1E)-Pd(1E) 116.2(2)

O(1E)-Zn(1E)-Pd(1E) 39.4(2)

C(14E)-P(1E)-C(8E) 106.9(5)

C(14E)-P(1E)-C(7E) 104.9(5)

C(8E)-P(1E)-C(7E) 106.1(6)

C(14E)-P(1E)-Pd(1E) 113.2(3)

C(8E)-P(1E)-Pd(1E) 119.1(4)

C(7E)-P(1E)-Pd(1E) 105.7(4)

C(33E)-P(2E)-C(27E) 104.8(5)

C(33E)-P(2E)-C(26E) 107.5(6)

C(27E)-P(2E)-C(26E) 101.6(6)

C(33E)-P(2E)-Pd(1E) 112.3(4)

C(27E)-P(2E)-Pd(1E) 122.4(4)

C(26E)-P(2E)-Pd(1E) 107.0(5)

C(1E)-O(1E)-Pd(1E) 116.8(8)

C(1E)-O(1E)-Zn(1E) 105.7(8)

Pd(1E)-O(1E)-Zn(1E) 98.6(4)

C(2E)-O(2E)-Zn(1E) 115.5(8)

C(2E)-O(2E)-Zn(1F) 118.1(8)

Zn(1E)-O(2E)-Zn(1F) 118.8(5)

C(20E)-O(20E)-Zn(1E) 114.1(8)

C(20E)-O(20E)-Pd(1E) 138.4(8)

Zn(1E)-O(20E)-Pd(1E) 105.0(4)

C(21E)-O(21E)-Zn(2) 130.1(8)

C(21E)-O(21E)-Zn(1E) 109.4(8)

Zn(2)-O(21E)-Zn(1E) 118.8(4)

O(1E)-C(1E)-C(6E) 122.0(12)

O(1E)-C(1E)-C(2E) 121.9(12)

C(6E)-C(1E)-C(2E) 116.0(13)

O(2E)-C(2E)-C(3E) 128.4(14)

O(2E)-C(2E)-C(1E)	113.4(13)
C(3E)-C(2E)-C(1E)	118.1(14)
C(2E)-C(3E)-C(4E)	121.8(15)
C(2E)-C(3E)-H(3E)	119.1
C(4E)-C(3E)-H(3E)	119.1
C(3E)-C(4E)-C(5E)	117.5(16)
C(3E)-C(4E)-H(4E)	121.2
C(5E)-C(4E)-H(4E)	121.2
C(6E)-C(5E)-C(4E)	125.6(16)
C(6E)-C(5E)-H(5E)	117.2
C(4E)-C(5E)-H(5E)	117.2
C(5E)-C(6E)-C(1E)	120.9(15)
C(5E)-C(6E)-C(7E)	127.1(14)
C(1E)-C(6E)-C(7E)	111.4(13)
C(6E)-C(7E)-P(1E)	118.7(10)
C(6E)-C(7E)-H(7E1)	107.6
P(1E)-C(7E)-H(7E1)	107.6
C(6E)-C(7E)-H(7E2)	107.6
P(1E)-C(7E)-H(7E2)	107.6
H(7E1)-C(7E)-H(7E2)	107.1
C(9E)-C(8E)-C(13E)	120.0
C(9E)-C(8E)-P(1E)	119.6(6)
C(13E)-C(8E)-P(1E)	120.2(6)
C(10E)-C(9E)-C(8E)	120.0
C(10E)-C(9E)-H(9E)	120.0
C(8E)-C(9E)-H(9E)	120.0
C(9E)-C(10E)-C(11E)	120.0
C(9E)-C(10E)-H(10E)	120.0
C(11E)-C(10E)-H(10E)	120.0
C(12E)-C(11E)-C(10E)	120.0

C(12E)-C(11E)-H(11E)	120.0
C(10E)-C(11E)-H(11E)	120.0
C(11E)-C(12E)-C(13E)	120.0
C(11E)-C(12E)-H(12E)	120.0
C(13E)-C(12E)-H(12E)	120.0
C(12E)-C(13E)-C(8E)	120.0
C(12E)-C(13E)-H(13E)	120.0
C(8E)-C(13E)-H(13E)	120.0
C(15E)-C(14E)-C(19E)	120.0
C(15E)-C(14E)-P(1E)	120.1(5)
C(19E)-C(14E)-P(1E)	119.9(5)
C(16E)-C(15E)-C(14E)	120.0
C(16E)-C(15E)-H(15E)	120.0
C(14E)-C(15E)-H(15E)	120.0
C(17E)-C(16E)-C(15E)	120.0
C(17E)-C(16E)-H(16E)	120.0
C(15E)-C(16E)-H(16E)	120.0
C(18E)-C(17E)-C(16E)	120.0
C(18E)-C(17E)-H(17E)	120.0
C(16E)-C(17E)-H(17E)	120.0
C(17E)-C(18E)-C(19E)	120.0
C(17E)-C(18E)-H(18E)	120.0
C(19E)-C(18E)-H(18E)	120.0
C(18E)-C(19E)-C(14E)	120.0
C(18E)-C(19E)-H(19E)	120.0
C(14E)-C(19E)-H(19E)	120.0
O(20E)-C(20E)-C(25E)	120.7(13)
O(20E)-C(20E)-C(21E)	115.3(12)
C(25E)-C(20E)-C(21E)	123.9(13)
O(21E)-C(21E)-C(22E)	124.5(13)

O(21E)-C(21E)-C(20E)	118.5(12)
C(22E)-C(21E)-C(20E)	116.9(13)
C(23E)-C(22E)-C(21E)	120.2(15)
C(23E)-C(22E)-H(22E)	119.9
C(21E)-C(22E)-H(22E)	119.9
C(24E)-C(23E)-C(22E)	120.8(15)
C(24E)-C(23E)-H(23E)	119.6
C(22E)-C(23E)-H(23E)	119.6
C(23E)-C(24E)-C(25E)	122.9(14)
C(23E)-C(24E)-H(24E)	118.5
C(25E)-C(24E)-H(24E)	118.5
C(20E)-C(25E)-C(24E)	114.7(13)
C(20E)-C(25E)-C(26E)	123.0(13)
C(24E)-C(25E)-C(26E)	122.3(13)
C(25E)-C(26E)-P(2E)	117.5(11)
C(25E)-C(26E)-H(26I)	107.9
P(2E)-C(26E)-H(26I)	107.9
C(25E)-C(26E)-H(26J)	107.9
P(2E)-C(26E)-H(26J)	107.9
H(26I)-C(26E)-H(26J)	107.2
C(28E)-C(27E)-C(32E)	120.0
C(28E)-C(27E)-P(2E)	119.5(5)
C(32E)-C(27E)-P(2E)	120.4(5)
C(29E)-C(28E)-C(27E)	120.0
C(29E)-C(28E)-H(28E)	120.0
C(27E)-C(28E)-H(28E)	120.0
C(30E)-C(29E)-C(28E)	120.0
C(30E)-C(29E)-H(29E)	120.0
C(28E)-C(29E)-H(29E)	120.0
C(29E)-C(30E)-C(31E)	120.0

C(29E)-C(30E)-H(30E)	120.0
C(31E)-C(30E)-H(30E)	120.0
C(32E)-C(31E)-C(30E)	120.0
C(32E)-C(31E)-H(31E)	120.0
C(30E)-C(31E)-H(31E)	120.0
C(31E)-C(32E)-C(27E)	120.0
C(31E)-C(32E)-H(32E)	120.0
C(27E)-C(32E)-H(32E)	120.0
C(34E)-C(33E)-C(38E)	120.0
C(34E)-C(33E)-P(2E)	120.7(5)
C(38E)-C(33E)-P(2E)	119.1(5)
C(35E)-C(34E)-C(33E)	120.0
C(35E)-C(34E)-H(34E)	120.0
C(33E)-C(34E)-H(34E)	120.0
C(36E)-C(35E)-C(34E)	120.0
C(36E)-C(35E)-H(35E)	120.0
C(34E)-C(35E)-H(35E)	120.0
C(35E)-C(36E)-C(37E)	120.0
C(35E)-C(36E)-H(36E)	120.0
C(37E)-C(36E)-H(36E)	120.0
C(36E)-C(37E)-C(38E)	120.0
C(36E)-C(37E)-H(37E)	120.0
C(38E)-C(37E)-H(37E)	120.0
C(37E)-C(38E)-C(33E)	120.0
C(37E)-C(38E)-H(38E)	120.0
C(33E)-C(38E)-H(38E)	120.0
O(20F)-Pd(1F)-O(1F)	77.8(4)
O(20F)-Pd(1F)-P(1F)	168.4(3)
O(1F)-Pd(1F)-P(1F)	91.4(3)
O(20F)-Pd(1F)-P(2F)	91.4(3)

O(1F)-Pd(1F)-P(2F)	168.4(3)
P(1F)-Pd(1F)-P(2F)	99.67(18)
O(20F)-Pd(1F)-Zn(1F)	39.3(3)
O(1F)-Pd(1F)-Zn(1F)	40.9(3)
P(1F)-Pd(1F)-Zn(1F)	131.09(15)
P(2F)-Pd(1F)-Zn(1F)	127.56(12)
O(2E)-Zn(1F)-O(2F)	105.6(4)
O(2E)-Zn(1F)-O(20F)	118.6(4)
O(2F)-Zn(1F)-O(20F)	134.9(4)
O(2E)-Zn(1F)-O(21F)	99.4(3)
O(2F)-Zn(1F)-O(21F)	100.3(4)
O(20F)-Zn(1F)-O(21F)	81.9(4)
O(2E)-Zn(1F)-O(1F)	106.4(4)
O(2F)-Zn(1F)-O(1F)	81.5(4)
O(20F)-Zn(1F)-O(1F)	78.0(4)
O(21F)-Zn(1F)-O(1F)	152.6(4)
O(2E)-Zn(1F)-Pd(1F)	130.0(3)
O(2F)-Zn(1F)-Pd(1F)	103.6(3)
O(20F)-Zn(1F)-Pd(1F)	39.9(3)
O(21F)-Zn(1F)-Pd(1F)	114.1(3)
O(1F)-Zn(1F)-Pd(1F)	40.5(3)
C(14F)-P(1F)-C(8F)	110.9(6)
C(14F)-P(1F)-C(7F)	102.8(7)
C(8F)-P(1F)-C(7F)	105.7(7)
C(14F)-P(1F)-Pd(1F)	115.2(5)
C(8F)-P(1F)-Pd(1F)	115.8(4)
C(7F)-P(1F)-Pd(1F)	104.9(5)
C(27F)-P(2F)-C(33F)	103.7(6)
C(27F)-P(2F)-C(26F)	105.3(7)
C(33F)-P(2F)-C(26F)	106.9(7)

C(27F)-P(2F)-Pd(1F)	122.8(4)
C(33F)-P(2F)-Pd(1F)	112.4(5)
C(26F)-P(2F)-Pd(1F)	104.7(6)
C(1F)-O(1F)-Pd(1F)	115.8(9)
C(1F)-O(1F)-Zn(1F)	111.2(9)
Pd(1F)-O(1F)-Zn(1F)	98.6(4)
C(2F)-O(2F)-Zn(1D)	120.9(9)
C(2F)-O(2F)-Zn(1F)	111.2(8)
Zn(1D)-O(2F)-Zn(1F)	122.8(4)
C(20F)-O(20F)-Zn(1F)	110.7(9)
C(20F)-O(20F)-Pd(1F)	126.3(9)
Zn(1F)-O(20F)-Pd(1F)	100.8(4)
C(21F)-O(21F)-Zn(2)	127.9(9)
C(21F)-O(21F)-Zn(1F)	109.9(8)
Zn(2)-O(21F)-Zn(1F)	122.2(5)
C(6F)-C(1F)-O(1F)	121.9(14)
C(6F)-C(1F)-C(2F)	121.7(15)
O(1F)-C(1F)-C(2F)	116.2(13)
O(2F)-C(2F)-C(3F)	121.4(14)
O(2F)-C(2F)-C(1F)	119.9(13)
C(3F)-C(2F)-C(1F)	118.6(14)
C(2F)-C(3F)-C(4F)	119.1(15)
C(2F)-C(3F)-H(3F)	120.5
C(4F)-C(3F)-H(3F)	120.5
C(3F)-C(4F)-C(5F)	121.8(15)
C(3F)-C(4F)-H(4F)	119.1
C(5F)-C(4F)-H(4F)	119.1
C(6F)-C(5F)-C(4F)	116.0(15)
C(6F)-C(5F)-H(5F)	122.0
C(4F)-C(5F)-H(5F)	122.0

C(1F)-C(6F)-C(5F)	122.5(16)
C(1F)-C(6F)-C(7F)	117.2(15)
C(5F)-C(6F)-C(7F)	119.6(14)
C(6F)-C(7F)-P(1F)	113.1(12)
C(6F)-C(7F)-H(7F1)	109.0
P(1F)-C(7F)-H(7F1)	109.0
C(6F)-C(7F)-H(7F2)	109.0
P(1F)-C(7F)-H(7F2)	109.0
H(7F1)-C(7F)-H(7F2)	107.8
C(9F)-C(8F)-C(13F)	120.0
C(9F)-C(8F)-P(1F)	122.2(7)
C(13F)-C(8F)-P(1F)	117.8(7)
C(10F)-C(9F)-C(8F)	120.0
C(10F)-C(9F)-H(9F)	120.0
C(8F)-C(9F)-H(9F)	120.0
C(9F)-C(10F)-C(11F)	120.0
C(9F)-C(10F)-H(10F)	120.0
C(11F)-C(10F)-H(10F)	120.0
C(12F)-C(11F)-C(10F)	120.0
C(12F)-C(11F)-H(11F)	120.0
C(10F)-C(11F)-H(11F)	120.0
C(11F)-C(12F)-C(13F)	120.0
C(11F)-C(12F)-H(12F)	120.0
C(13F)-C(12F)-H(12F)	120.0
C(12F)-C(13F)-C(8F)	120.0
C(12F)-C(13F)-H(13F)	120.0
C(8F)-C(13F)-H(13F)	120.0
C(15F)-C(14F)-C(19F)	120.0
C(15F)-C(14F)-P(1F)	121.3(8)
C(19F)-C(14F)-P(1F)	118.6(8)

C(16F)-C(15F)-C(14F)	120.0
C(16F)-C(15F)-H(15F)	120.0
C(14F)-C(15F)-H(15F)	120.0
C(15F)-C(16F)-C(17F)	120.0
C(15F)-C(16F)-H(16F)	120.0
C(17F)-C(16F)-H(16F)	120.0
C(16F)-C(17F)-C(18F)	120.0
C(16F)-C(17F)-H(17F)	120.0
C(18F)-C(17F)-H(17F)	120.0
C(17F)-C(18F)-C(19F)	120.0
C(17F)-C(18F)-H(18F)	120.0
C(19F)-C(18F)-H(18F)	120.0
C(18F)-C(19F)-C(14F)	120.0
C(18F)-C(19F)-H(19F)	120.0
C(14F)-C(19F)-H(19F)	120.0
O(20F)-C(20F)-C(25F)	121.7(14)
O(20F)-C(20F)-C(21F)	118.4(14)
C(25F)-C(20F)-C(21F)	119.9(14)
O(21F)-C(21F)-C(22F)	126.5(14)
O(21F)-C(21F)-C(20F)	117.9(13)
C(22F)-C(21F)-C(20F)	115.5(15)
C(23F)-C(22F)-C(21F)	124.8(16)
C(23F)-C(22F)-H(22F)	117.6
C(21F)-C(22F)-H(22F)	117.6
C(22F)-C(23F)-C(24F)	119.1(16)
C(22F)-C(23F)-H(23F)	120.5
C(24F)-C(23F)-H(23F)	120.5
C(25F)-C(24F)-C(23F)	118.7(16)
C(25F)-C(24F)-H(24F)	120.7
C(23F)-C(24F)-H(24F)	120.7

C(24F)-C(25F)-C(20F) 121.9(15)

C(24F)-C(25F)-C(26F) 119.4(15)

C(20F)-C(25F)-C(26F) 118.5(14)

C(25F)-C(26F)-P(2F) 111.4(11)

C(25F)-C(26F)-H(26K) 109.3

P(2F)-C(26F)-H(26K) 109.3

C(25F)-C(26F)-H(26L) 109.3

P(2F)-C(26F)-H(26L) 109.3

H(26K)-C(26F)-H(26L) 108.0

C(28F)-C(27F)-C(32F) 120.0

C(28F)-C(27F)-P(2F) 121.3(7)

C(32F)-C(27F)-P(2F) 118.7(7)

C(29F)-C(28F)-C(27F) 120.0

C(29F)-C(28F)-H(28F) 120.0

C(27F)-C(28F)-H(28F) 120.0

C(28F)-C(29F)-C(30F) 120.0

C(28F)-C(29F)-H(29F) 120.0

C(30F)-C(29F)-H(29F) 120.0

C(31F)-C(30F)-C(29F) 120.0

C(31F)-C(30F)-H(30F) 120.0

C(29F)-C(30F)-H(30F) 120.0

C(32F)-C(31F)-C(30F) 120.0

C(32F)-C(31F)-H(31F) 120.0

C(30F)-C(31F)-H(31F) 120.0

C(31F)-C(32F)-C(27F) 120.0

C(31F)-C(32F)-H(32F) 120.0

C(27F)-C(32F)-H(32F) 120.0

C(34F)-C(33F)-C(38F) 120.0

C(34F)-C(33F)-P(2F) 122.7(7)

C(38F)-C(33F)-P(2F) 117.1(7)

C(35F)-C(34F)-C(33F)	120.0
C(35F)-C(34F)-H(34F)	120.0
C(33F)-C(34F)-H(34F)	120.0
C(34F)-C(35F)-C(36F)	120.0
C(34F)-C(35F)-H(35F)	120.0
C(36F)-C(35F)-H(35F)	120.0
C(35F)-C(36F)-C(37F)	120.0
C(35F)-C(36F)-H(36F)	120.0
C(37F)-C(36F)-H(36F)	120.0
C(38F)-C(37F)-C(36F)	120.0
C(38F)-C(37F)-H(37F)	120.0
C(36F)-C(37F)-H(37F)	120.0
C(37F)-C(38F)-C(33F)	120.0
C(37F)-C(38F)-H(38F)	120.0
C(33F)-C(38F)-H(38F)	120.0
O(20G)-Pd(1G)-O(1G)	81.6(4)
O(20G)-Pd(1G)-P(1G)	172.4(3)
O(1G)-Pd(1G)-P(1G)	90.9(3)
O(20G)-Pd(1G)-P(2G)	90.4(3)
O(1G)-Pd(1G)-P(2G)	170.0(4)
P(1G)-Pd(1G)-P(2G)	97.23(17)
O(20G)-Pd(1G)-Zn(1G)	40.0(3)
O(1G)-Pd(1G)-Zn(1G)	42.3(3)
P(1G)-Pd(1G)-Zn(1G)	132.67(14)
P(2G)-Pd(1G)-Zn(1G)	128.67(13)
O(2G)-Zn(1G)-O(20G)	129.3(5)
O(2G)-Zn(1G)-O(21G)	83.3(5)
O(20G)-Zn(1G)-O(21G)	80.1(4)
O(2G)-Zn(1G)-O(1G)	79.8(5)
O(20G)-Zn(1G)-O(1G)	80.2(4)

O(21G)-Zn(1G)-O(1G)	136.2(5)
O(2G)-Zn(1G)-Cl(1G)	121.8(4)
O(20G)-Zn(1G)-Cl(1G)	108.9(4)
O(21G)-Zn(1G)-Cl(1G)	111.4(4)
O(1G)-Zn(1G)-Cl(1G)	111.8(4)
O(2G)-Zn(1G)-Zn(3)	41.9(4)
O(20G)-Zn(1G)-Zn(3)	106.5(3)
O(21G)-Zn(1G)-Zn(3)	41.5(3)
O(1G)-Zn(1G)-Zn(3)	110.3(3)
Cl(1G)-Zn(1G)-Zn(3)	128.3(2)
O(2G)-Zn(1G)-Pd(1G)	103.1(3)
O(20G)-Zn(1G)-Pd(1G)	40.2(3)
O(21G)-Zn(1G)-Pd(1G)	107.0(3)
O(1G)-Zn(1G)-Pd(1G)	40.7(3)
Cl(1G)-Zn(1G)-Pd(1G)	122.8(2)
Zn(3)-Zn(1G)-Pd(1G)	108.59(8)
C(8G)-P(1G)-C(14G)	109.3(6)
C(8G)-P(1G)-C(7G)	105.1(8)
C(14G)-P(1G)-C(7G)	101.6(8)
C(8G)-P(1G)-Pd(1G)	115.8(5)
C(14G)-P(1G)-Pd(1G)	117.8(5)
C(7G)-P(1G)-Pd(1G)	105.4(6)
C(33G)-P(2G)-C(27G)	109.2(6)
C(33G)-P(2G)-C(26G)	105.9(7)
C(27G)-P(2G)-C(26G)	101.6(7)
C(33G)-P(2G)-Pd(1G)	122.9(5)
C(27G)-P(2G)-Pd(1G)	109.5(4)
C(26G)-P(2G)-Pd(1G)	105.6(6)
C(1G)-O(1G)-Pd(1G)	115.3(11)
C(1G)-O(1G)-Zn(1G)	108.3(11)

Pd(1G)-O(1G)-Zn(1G)	97.0(5)
C(2G)-O(2G)-Zn(1G)	113.9(11)
C(2G)-O(2G)-Zn(3)	120.0(12)
Zn(1G)-O(2G)-Zn(3)	96.7(5)
C(20G)-O(20G)-Zn(1G)	111.7(9)
C(20G)-O(20G)-Pd(1G)	121.4(9)
Zn(1G)-O(20G)-Pd(1G)	99.8(5)
C(21G)-O(21G)-Zn(3)	121.7(11)
C(21G)-O(21G)-Zn(1G)	109.8(10)
Zn(3)-O(21G)-Zn(1G)	95.7(5)
O(1G)-C(1G)-C(2G)	122.5(17)
O(1G)-C(1G)-C(6G)	121.4(17)
C(2G)-C(1G)-C(6G)	115.2(18)
C(3G)-C(2G)-O(2G)	120.6(17)
C(3G)-C(2G)-C(1G)	125.3(18)
O(2G)-C(2G)-C(1G)	114.1(17)
C(2G)-C(3G)-C(4G)	117(2)
C(2G)-C(3G)-H(3G)	121.6
C(4G)-C(3G)-H(3G)	121.6
C(5G)-C(4G)-C(3G)	120(2)
C(5G)-C(4G)-H(4G)	119.8
C(3G)-C(4G)-H(4G)	119.8
C(4G)-C(5G)-C(6G)	121.7(19)
C(4G)-C(5G)-H(5G)	119.2
C(6G)-C(5G)-H(5G)	119.2
C(5G)-C(6G)-C(1G)	120.4(18)
C(5G)-C(6G)-C(7G)	124.1(17)
C(1G)-C(6G)-C(7G)	115.4(17)
C(6G)-C(7G)-P(1G)	110.6(13)
C(6G)-C(7G)-H(7G1)	109.5

P(1G)-C(7G)-H(7G1)	109.5
C(6G)-C(7G)-H(7G2)	109.5
P(1G)-C(7G)-H(7G2)	109.5
H(7G1)-C(7G)-H(7G2)	108.1
C(9G)-C(8G)-C(13G)	120.0
C(9G)-C(8G)-P(1G)	121.6(7)
C(13G)-C(8G)-P(1G)	118.4(7)
C(10G)-C(9G)-C(8G)	120.0
C(10G)-C(9G)-H(9G)	120.0
C(8G)-C(9G)-H(9G)	120.0
C(9G)-C(10G)-C(11G)	120.0
C(9G)-C(10G)-H(10G)	120.0
C(11G)-C(10G)-H(10G)	120.0
C(12G)-C(11G)-C(10G)	120.0
C(12G)-C(11G)-H(11G)	120.0
C(10G)-C(11G)-H(11G)	120.0
C(13G)-C(12G)-C(11G)	120.0
C(13G)-C(12G)-H(12G)	120.0
C(11G)-C(12G)-H(12G)	120.0
C(12G)-C(13G)-C(8G)	120.0
C(12G)-C(13G)-H(13G)	120.0
C(8G)-C(13G)-H(13G)	120.0
C(15G)-C(14G)-C(19G)	120.0
C(15G)-C(14G)-P(1G)	121.7(8)
C(19G)-C(14G)-P(1G)	118.3(8)
C(16G)-C(15G)-C(14G)	120.0
C(16G)-C(15G)-H(15G)	120.0
C(14G)-C(15G)-H(15G)	120.0
C(15G)-C(16G)-C(17G)	120.0
C(15G)-C(16G)-H(16G)	120.0

C(17G)-C(16G)-H(16G)	120.0
C(18G)-C(17G)-C(16G)	120.0
C(18G)-C(17G)-H(17G)	120.0
C(16G)-C(17G)-H(17G)	120.0
C(17G)-C(18G)-C(19G)	120.0
C(17G)-C(18G)-H(18G)	120.0
C(19G)-C(18G)-H(18G)	120.0
C(18G)-C(19G)-C(14G)	120.0
C(18G)-C(19G)-H(19G)	120.0
C(14G)-C(19G)-H(19G)	120.0
C(21G)-C(20G)-C(25G)	124.3(17)
C(21G)-C(20G)-O(20G)	116.0(15)
C(25G)-C(20G)-O(20G)	119.8(15)
O(21G)-C(21G)-C(20G)	122.4(17)
O(21G)-C(21G)-C(22G)	121.2(15)
C(20G)-C(21G)-C(22G)	116.4(16)
C(23G)-C(22G)-C(21G)	121.4(16)
C(23G)-C(22G)-H(22G)	119.3
C(21G)-C(22G)-H(22G)	119.3
C(24G)-C(23G)-C(22G)	119.0(17)
C(24G)-C(23G)-H(23G)	120.5
C(22G)-C(23G)-H(23G)	120.5
C(23G)-C(24G)-C(25G)	120.2(16)
C(23G)-C(24G)-H(24G)	119.9
C(25G)-C(24G)-H(24G)	119.9
C(20G)-C(25G)-C(24G)	118.5(15)
C(20G)-C(25G)-C(26G)	120.0(15)
C(24G)-C(25G)-C(26G)	121.5(15)
C(25G)-C(26G)-P(2G)	108.7(11)
C(25G)-C(26G)-H(26M)	109.9

P(2G)-C(26G)-H(26M)	109.9
C(25G)-C(26G)-H(26N)	109.9
P(2G)-C(26G)-H(26N)	109.9
H(26M)-C(26G)-H(26N)	108.3
C(28G)-C(27G)-C(32G)	120.0
C(28G)-C(27G)-P(2G)	118.6(6)
C(32G)-C(27G)-P(2G)	121.0(6)
C(27G)-C(28G)-C(29G)	120.0
C(27G)-C(28G)-H(28G)	120.0
C(29G)-C(28G)-H(28G)	120.0
C(28G)-C(29G)-C(30G)	120.0
C(28G)-C(29G)-H(29G)	120.0
C(30G)-C(29G)-H(29G)	120.0
C(31G)-C(30G)-C(29G)	120.0
C(31G)-C(30G)-H(30G)	120.0
C(29G)-C(30G)-H(30G)	120.0
C(32G)-C(31G)-C(30G)	120.0
C(32G)-C(31G)-H(31G)	120.0
C(30G)-C(31G)-H(31G)	120.0
C(31G)-C(32G)-C(27G)	120.0
C(31G)-C(32G)-H(32G)	120.0
C(27G)-C(32G)-H(32G)	120.0
C(34G)-C(33G)-C(38G)	120.0
C(34G)-C(33G)-P(2G)	121.8(7)
C(38G)-C(33G)-P(2G)	118.1(7)
C(33G)-C(34G)-C(35G)	120.0
C(33G)-C(34G)-H(34G)	120.0
C(35G)-C(34G)-H(34G)	120.0
C(34G)-C(35G)-C(36G)	120.0
C(34G)-C(35G)-H(35G)	120.0

C(36G)-C(35G)-H(35G) 120.0

C(35G)-C(36G)-C(37G) 120.0

C(35G)-C(36G)-H(36G) 120.0

C(37G)-C(36G)-H(36G) 120.0

C(38G)-C(37G)-C(36G) 120.0

C(38G)-C(37G)-H(37G) 120.0

C(36G)-C(37G)-H(37G) 120.0

C(37G)-C(38G)-C(33G) 120.0

C(37G)-C(38G)-H(38G) 120.0

C(33G)-C(38G)-H(38G) 120.0

O(21G)-Zn(3)-O(2G) 84.2(5)

O(21G)-Zn(3)-Cl(5) 113.9(4)

O(2G)-Zn(3)-Cl(5) 112.8(4)

O(21G)-Zn(3)-Cl(4) 111.6(4)

O(2G)-Zn(3)-Cl(4) 110.4(4)

Cl(5)-Zn(3)-Cl(4) 118.9(3)

O(21G)-Zn(3)-Zn(1G) 42.8(3)

O(2G)-Zn(3)-Zn(1G) 41.4(4)

Cl(5)-Zn(3)-Zn(1G) 124.0(3)

Cl(4)-Zn(3)-Zn(1G) 117.12(18)

O(11)-Zn(4)-Cl(7) 104.3(5)

O(11)-Zn(4)-Cl(6) 99.4(5)

Cl(7)-Zn(4)-Cl(6) 116.4(3)

O(11)-Zn(4)-Cl(8) 103.6(5)

Cl(7)-Zn(4)-Cl(8) 119.3(4)

Cl(6)-Zn(4)-Cl(8) 110.5(4)

C(11)-O(11)-Zn(4) 114.1(10)

O(11)-C(11)-N(11) 121.6(11)

O(11)-C(11)-H(11) 119.2

N(11)-C(11)-H(11) 119.2

C(11)-N(11)-C(112) 118.7(9)

C(11)-N(11)-C(111) 119.7(9)

C(112)-N(11)-C(111) 121.6(10)

N(11)-C(111)-H(11H) 109.5

N(11)-C(111)-H(11I) 109.5

H(11H)-C(111)-H(11I) 109.5

N(11)-C(111)-H(11J) 109.5

H(11H)-C(111)-H(11J) 109.5

H(11I)-C(111)-H(11J) 109.5

N(11)-C(112)-H(11K) 109.5

N(11)-C(112)-H(11L) 109.5

H(11K)-C(112)-H(11L) 109.5

N(11)-C(112)-H(11M) 109.5

H(11K)-C(112)-H(11M) 109.5

H(11L)-C(112)-H(11M) 109.5

O(21)-C(21)-N(21) 122.4(12)

O(21)-C(21)-H(21) 118.8

N(21)-C(21)-H(21) 118.8

C(21)-N(21)-C(211) 120.1(9)

C(21)-N(21)-C(212) 119.5(9)

C(211)-N(21)-C(212) 120.3(11)

N(21)-C(211)-H(21A) 109.5

N(21)-C(211)-H(21B) 109.5

H(21A)-C(211)-H(21B) 109.5

N(21)-C(211)-H(21C) 109.5

H(21A)-C(211)-H(21C) 109.5

H(21B)-C(211)-H(21C) 109.5

N(21)-C(212)-H(21D) 109.5

N(21)-C(212)-H(21E) 109.5

H(21D)-C(212)-H(21E) 109.5

N(21)-C(212)-H(21F) 109.5

H(21D)-C(212)-H(21F) 109.5

H(21E)-C(212)-H(21F) 109.5

O(31)-C(31)-N(31) 122.8(12)

O(31)-C(31)-H(31) 118.6

N(31)-C(31)-H(31) 118.6

C(31)-N(31)-C(312) 120.0(10)

C(31)-N(31)-C(311) 118.6(9)

C(312)-N(31)-C(311) 120.6(11)

N(31)-C(311)-H(31H) 109.5

N(31)-C(311)-H(31I) 109.5

H(31H)-C(311)-H(31I) 109.5

N(31)-C(311)-H(31J) 109.5

H(31H)-C(311)-H(31J) 109.5

H(31I)-C(311)-H(31J) 109.5

N(31)-C(312)-H(31K) 109.5

N(31)-C(312)-H(31L) 109.5

H(31K)-C(312)-H(31L) 109.5

N(31)-C(312)-H(31M) 109.5

H(31K)-C(312)-H(31M) 109.5

H(31L)-C(312)-H(31M) 109.5

O(41)-C(41)-N(41) 121.5(12)

O(41)-C(41)-H(41) 119.3

N(41)-C(41)-H(41) 119.3

C(41)-N(41)-C(412) 119.5(10)

C(41)-N(41)-C(411) 118.5(9)

C(412)-N(41)-C(411) 121.9(11)

N(41)-C(411)-H(41A) 109.5

N(41)-C(411)-H(41B) 109.5

H(41A)-C(411)-H(41B) 109.5

N(41)-C(411)-H(41C)	109.5
H(41A)-C(411)-H(41C)	109.5
H(41B)-C(411)-H(41C)	109.5
N(41)-C(412)-H(41D)	109.5
N(41)-C(412)-H(41E)	109.5
H(41D)-C(412)-H(41E)	109.5
N(41)-C(412)-H(41F)	109.5
H(41D)-C(412)-H(41F)	109.5
H(41E)-C(412)-H(41F)	109.5
O(51)-C(51)-N(51)	121.8(12)
O(51)-C(51)-H(51)	119.1
N(51)-C(51)-H(51)	119.1
C(51)-N(51)-C(511)	119.8(9)
C(51)-N(51)-C(512)	117.8(9)
C(511)-N(51)-C(512)	121.7(11)
N(51)-C(511)-H(51A)	109.5
N(51)-C(511)-H(51B)	109.5
H(51A)-C(511)-H(51B)	109.5
N(51)-C(511)-H(51C)	109.5
H(51A)-C(511)-H(51C)	109.5
H(51B)-C(511)-H(51C)	109.5
N(51)-C(512)-H(51D)	109.5
N(51)-C(512)-H(51E)	109.5
H(51D)-C(512)-H(51E)	109.5
N(51)-C(512)-H(51F)	109.5
H(51D)-C(512)-H(51F)	109.5
H(51E)-C(512)-H(51F)	109.5
O(61)-C(61)-N(61)	123.7(12)
O(61)-C(61)-H(61)	118.2
N(61)-C(61)-H(61)	118.2

C(61)-N(61)-C(611) 120.3(9)

C(61)-N(61)-C(612) 119.8(9)

C(611)-N(61)-C(612) 119.8(11)

N(61)-C(611)-H(61A) 109.5

N(61)-C(611)-H(61B) 109.5

H(61A)-C(611)-H(61B) 109.5

N(61)-C(611)-H(61C) 109.5

H(61A)-C(611)-H(61C) 109.5

H(61B)-C(611)-H(61C) 109.5

N(61)-C(612)-H(61D) 109.5

N(61)-C(612)-H(61E) 109.5

H(61D)-C(612)-H(61E) 109.5

N(61)-C(612)-H(61F) 109.5

H(61D)-C(612)-H(61F) 109.5

H(61E)-C(612)-H(61F) 109.5

O(71)-C(71)-N(71) 119.8(12)

O(71)-C(71)-H(71) 120.1

N(71)-C(71)-H(71) 120.1

C(71)-N(71)-C(711) 119.9(10)

C(71)-N(71)-C(712) 118.6(9)

C(711)-N(71)-C(712) 121.5(11)

N(71)-C(711)-H(71A) 109.5

N(71)-C(711)-H(71B) 109.5

H(71A)-C(711)-H(71B) 109.5

N(71)-C(711)-H(71C) 109.5

H(71A)-C(711)-H(71C) 109.5

H(71B)-C(711)-H(71C) 109.5

N(71)-C(712)-H(71D) 109.5

N(71)-C(712)-H(71E) 109.5

H(71D)-C(712)-H(71E) 109.5

N(71)-C(712)-H(71F) 109.5

H(71D)-C(712)-H(71F) 109.5

H(71E)-C(712)-H(71F) 109.5

O(81)-C(81)-N(81) 119.3(14)

O(81)-C(81)-H(81) 120.3

N(81)-C(81)-H(81) 120.3

C(81)-N(81)-C(812) 117.8(11)

C(81)-N(81)-C(811) 118.1(11)

C(812)-N(81)-C(811) 122.0(13)

N(81)-C(811)-H(81A) 109.5

N(81)-C(811)-H(81B) 109.5

H(81A)-C(811)-H(81B) 109.5

N(81)-C(811)-H(81C) 109.5

H(81A)-C(811)-H(81C) 109.5

H(81B)-C(811)-H(81C) 109.5

N(81)-C(812)-H(81D) 109.5

N(81)-C(812)-H(81E) 109.5

H(81D)-C(812)-H(81E) 109.5

N(81)-C(812)-H(81F) 109.5

H(81D)-C(812)-H(81F) 109.5

H(81E)-C(812)-H(81F) 109.5

O(91)-C(91)-N(91) 124.2(16)

O(91)-C(91)-H(91) 117.9

N(91)-C(91)-H(91) 117.9

C(91)-N(91)-C(912) 119.1(12)

C(91)-N(91)-C(911) 118.5(12)

C(912)-N(91)-C(911) 119.9(13)

N(91)-C(911)-H(91A) 109.5

N(91)-C(911)-H(91B) 109.5

H(91A)-C(911)-H(91B) 109.5

N(91)-C(911)-H(91C)	109.5
H(91A)-C(911)-H(91C)	109.5
H(91B)-C(911)-H(91C)	109.5
N(91)-C(912)-H(91D)	109.5
N(91)-C(912)-H(91E)	109.5
H(91D)-C(912)-H(91E)	109.5
N(91)-C(912)-H(91F)	109.5
H(91D)-C(912)-H(91F)	109.5
H(91E)-C(912)-H(91F)	109.5
O(22)-C(22)-N(22)	123.2(14)
O(22)-C(22)-H(22)	118.4
N(22)-C(22)-H(22)	118.4
C(22)-N(22)-C(221)	119.4(11)
C(22)-N(22)-C(222)	119.4(10)
C(221)-N(22)-C(222)	120.3(12)
N(22)-C(221)-H(22H)	109.5
N(22)-C(221)-H(22I)	109.5
H(22H)-C(221)-H(22I)	109.5
N(22)-C(221)-H(22J)	109.5
H(22H)-C(221)-H(22J)	109.5
H(22I)-C(221)-H(22J)	109.5
N(22)-C(222)-H(22K)	109.5
N(22)-C(222)-H(22L)	109.5
H(22K)-C(222)-H(22L)	109.5
N(22)-C(222)-H(22M)	109.5
H(22K)-C(222)-H(22M)	109.5
H(22L)-C(222)-H(22M)	109.5
O(32)-C(32)-N(32)	121.4(15)
O(32)-C(32)-H(32)	119.3
N(32)-C(32)-H(32)	119.3

C(32)-N(32)-C(322)	119.4(10)
C(32)-N(32)-C(321)	119.3(10)
C(322)-N(32)-C(321)	121.3(12)
N(32)-C(321)-H(32H)	109.5
N(32)-C(321)-H(32I)	109.5
H(32H)-C(321)-H(32I)	109.5
N(32)-C(321)-H(32J)	109.5
H(32H)-C(321)-H(32J)	109.5
H(32I)-C(321)-H(32J)	109.5
N(32)-C(322)-H(32K)	109.5
N(32)-C(322)-H(32L)	109.5
H(32K)-C(322)-H(32L)	109.5
N(32)-C(322)-H(32M)	109.5
H(32K)-C(322)-H(32M)	109.5
H(32L)-C(322)-H(32M)	109.5

Symmetry transformations used to generate equivalent atoms:

[*SP*-4-2]-[{(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)(diphenyl-{benzo-[1,3]-μO^1-4-ylmethyl}-phosphan-*kP*-palladium(II)}-[*SAPR*-8-13]-μO^1:μO^1:kO^2-bis-(2,4-pentandionato)-europium(III)] (50)

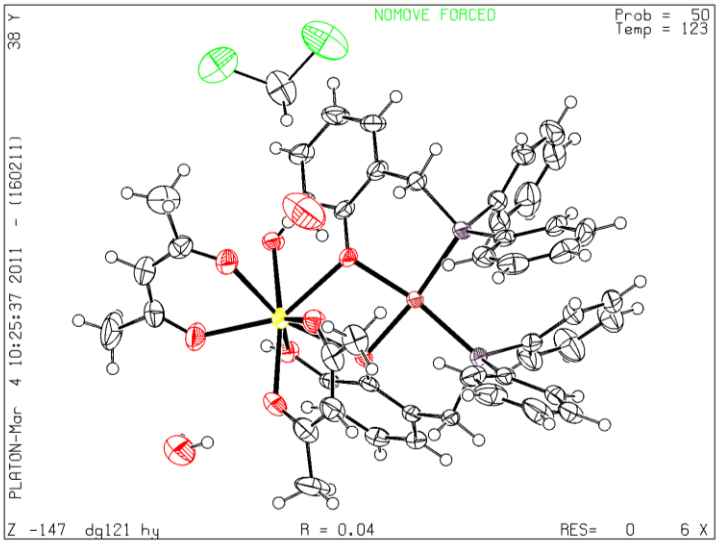


Table 1. Crystal data and structure refinement for dg121_hy.

Identification code	dg121_hy
Empirical formula	C48.50 H50 Cl Eu O10 P2 Pd C48 H45 Eu O8 P2 Pd - 2 H2O, 0.5 CH2Cl2
Formula weight	1148.64
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 13.205(1) A alpha = 90 deg. b = 12.857(1) A beta = 100.60(1) deg. c = 29.164(2) A gamma = 90 deg.
Volume	4866.9(6) A^3
Z, Calculated density	4, 1.568 Mg/m^3
Absorption coefficient	1.822 mm^-1
F(000)	2308
Crystal size	0.16 x 0.08 x 0.04 mm
Theta range for data collection	3.14 to 25.00 deg.
Limiting indices	-15<=h<=12, -15<=k<=14, -25<=l<=34
Reflections collected / unique	26211 / 8532 [R(int) = 0.0503]
Completeness to theta = 25.00	99.6 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9280 and 0.6176
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8532 / 48 / 605
Goodness-of-fit on F^2	1.040
Final R indices [I>2sigma(I)]	R1 = 0.0443, wR2 = 0.0957
R indices (all data)	R1 = 0.0726, wR2 = 0.1069
Largest diff. peak and hole	1.661 and -0.950 e.A^-3

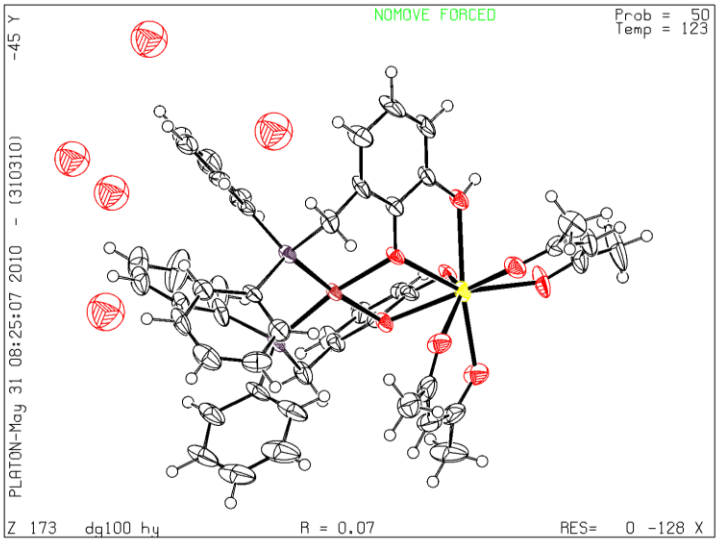


Table 1. Crystal data and structure refinement for dg100_hy.

Identification code	dg100_hy
Empirical formula	C48 H53 Eu O12 P2 Pd C48 H45 Eu O8 P2 Pd - 4 water
Formula weight	1142.20
Temperature	123(2) K
Wavelength	0.71073 A
Crystal system, space group	Monoclinic, P2(1)/n (No.14)
Unit cell dimensions	a = 13.168(1) A alpha = 90 deg. b = 12.833(1) A beta = 100.59(1) deg. c = 29.254(2) A gamma = 90 deg.
Volume	4859.3(6) A^3
Z, Calculated density	4, 1.561 Mg/m^3
Absorption coefficient	1.774 mm^-1
F(000)	2304
Crystal size	0.15 x 0.10 x 0.03 mm
Theta range for data collection	3.15 to 25.03 deg.
Limiting indices	-15<=h<=15, -15<=k<=15, -25<=l<=34
Reflections collected / unique	33443 / 8535 [R(int) = 0.0726]
Completeness to theta = 25.03	99.4 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.9562 and 0.6896
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	8535 / 1 / 568
Goodness-of-fit on F^2	1.106
Final R indices [I>2sigma(I)]	R1 = 0.0737, wR2 = 0.1611
R indices (all data)	R1 = 0.1062, wR2 = 0.1745
Largest diff. peak and hole	2.084 and -1.180 e.A^-3

[*SP*-4-2]-[{(diphenyl-{benzo-[1,3]-μO^1:kO^2-4-ylmethyl}-phosphan-*kP*)(diphenyl-{benzo-[1,3]-μO^1-4-ylmethyl}-phosphan-*kP*-palladium(II)}-[*SAPR*-8-13]-μO^1:μO^1:kO^2-bis-(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyloctan-3,5-dionato)-europium(III)] (51)

Table 1. Crystal data and structure refinement for gud37.

Identification code	gud37
Empirical formula	C59 H53 Cl2 Eu F14 O8 P2 Pd
	C58 H51 Eu F14 O8 P2 Pd - CHCl2
Formula weight	1547.21
Temperature	100(2) K
Wavelength	0.71073 A
Crystal system, space group	Triclinic, P-1 (no.2)
Unit cell dimensions	a = 14.6078(12) A alpha = 89.515(4) deg.
	b = 14.7211(12) A beta = 71.274(4) deg.
	c = 16.7575(12) A gamma = 63.721(4) deg.
Volume	3022.0(4) A^3
Z, Calculated density	2, 1.700 Mg/m^3
Absorption coefficient	1.564 mm^-1
F(000)	1540
Crystal size	0.18 x 0.12 x 0.06 mm

Theta range for data collection	1.56 to 26.45 deg.
Limiting indices	-18<=h<=18, -18<=k<=18, -20<=l<=20
Reflections collected / unique	77691 / 12339 [R(int) = 0.0698]
Completeness to theta = 25.00	99.9 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7454 and 0.6367
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	12339 / 54 / 777
Goodness-of-fit on F^2	1.037
Final R indices [I>2sigma(I)]	R1 = 0.0521, wR2 = 0.1164
R indices (all data)	R1 = 0.0969, wR2 = 0.1418
Largest diff. peak and hole	2.455 and -1.937 e.A^-3