**Table 1.** Crystal data and structure refinement for **3a**.

| | | |
|---|---|---|
| Empirical formula | $C_{60}H_{61}NClF_6P_5Ru$ | |
| Formula weight | 1202.48 | |
| Temperature | 183(2) K | |
| Wavelength | 0.71073 Å | |
| Crystal system | Monoclinic | |
| Space group | P2(1)/n | |
| Unit cell dimensions | *a* = 13.167(3) Å | alpha = 90 deg. |
| | *b* = 21.127(4) Å | beta = 96.94(3) deg. |
| | *c* = 20.644(4) Å | gamma = 90 deg. |
| Volume | 5701(2) $Å^3$ | |
| Z | 4 | |
| Density (calculated) | 1.401 $Mg/m^3$ | |
| Absorption coefficient | 0.521 $mm^{-1}$ | |
| F(000) | 2476 | |
| Crystal size | 0.35 x 0.25 x 0.2 mm | |
| Theta range for data collection | 1.74 to 23.00 deg. | |
| Index ranges | $-15 \leq h \leq 15$, $-13 \leq k \leq 25$, $-24 \leq l \leq 24$ | |
| Reflections collected | 9685 | |
| Independent reflections | 7910 [R(int) = 0.0514] | |
| Refinement method | Full-matrix least-squares on $F^2$ | |
| Data / restraints / parameters | 7698 / 0 / 608 | |
| Goodness-of-fit on $F^2$ | 3.932 | |
| Final R indices [I > 2sigma(I)] | R1 = 0.1832, wR2 = 0.3055 | |
| R indices (all data) | R1 = 0.2092, wR2 = 0.4194 | |
| Largest diff. peak and hole | 1.508 and -2.199 $e \cdot Å^{-3}$ | |

**Table 2.** Atomic coordinates (x $10^4$) and equivalent isotropic displacement parameters (Å$^2$ x $10^3$) for **3a**. U(eq) is defined as one third of the trace of the orthogonalized $U_{ij}$ tensor.

| | x | y | z | U(eq) |
|---|---|---|---|---|
| Ru | 9094(1) | 2368(1) | 2351(1) | 34(1) |
| Cl | 10035(4) | 2184(2) | 3439(2) | 49(1) |
| C(1) | 8405(13) | 2541(8) | 1440(8) | 34(5) |
| C(2) | 8087(14) | 2654(9) | 923(9) | 41(5) |
| C(3) | 7452(17) | 2730(8) | 270(8) | 41(5) |
| C(4) | 6508(19) | 2488(11) | 124(12) | 88(9) |
| N(5) | 7970(14) | 3093(7) | -199(6) | 51(5) |
| C(511) | 7939(32) | 3787(11) | -91(13) | 140(17) |
| C(512) | 6665(23) | 3995(12) | -86(16) | 131(15) |
| C(521) | 9133(16) | 2988(14) | -132(11) | 92(10) |
| C(522) | 9780(20) | 3262(18) | -616(12) | 154(17) |
| C(531) | 7608(17) | 2926(11) | -907(9) | 66(7) |
| C(532) | 7784(28) | 2261(15) | -1055(15) | 153(16) |
| P(1) | 7742(4) | 2657(3) | 2963(2) | 46(2) |
| C(11) | 7570(15) | 1838(9) | 3262(9) | 55(6) |
| P(2) | 8137(4) | 1460(2) | 2578(2) | 40(1) |
| C(111) | 6425(13) | 2865(8) | 2603(8) | 31(5) |
| C(112) | 5664(16) | 2949(10) | 3006(10) | 60(7) |
| C(113) | 4663(18) | 3047(11) | 2711(13) | 76(8) |
| C(114) | 4426(17) | 3059(8) | 2100(12) | 54(6) |
| C(115) | 5168(16) | 2947(9) | 1675(10) | 48(5) |
| C(116) | 6121(15) | 2855(8) | 1924(10) | 44(5) |
| C(121) | 7932(15) | 3177(10) | 3656(9) | 45(5) |
| C(122) | 7800(16) | 3841(13) | 3560(9) | 63(7) |
| C(123) | 8007(19) | 4244(14) | 4098(12) | 89(9) |
| C(124) | 8382(22) | 4039(18) | 4640(12) | 99(11) |
| C(125) | 8550(20) | 3426(18) | 4786(13) | 97(11) |
| C(126) | 8333(18) | 2961(12) | 4281(8) | 72(8) |
| C(211) | 7047(15) | 1168(10) | 2069(10) | 51(6) |
| C(212) | 6922(16) | 1268(9) | 1390(9) | 54(6) |
| C(213) | 6071(17) | 1020(11) | 1010(10) | 66(7) |
| C(214) | 5401(20) | 608(10) | 1265(12) | 77(8) |
| C(215) | 5549(18) | 481(14) | 1949(11) | 85(9) |
| C(216) | 6359(16) | 744(11) | 2281(10) | 62(7) |
| C(221) | 8748(15) | 733(9) | 2906(9) | 45(5) |
| C(222) | 8841(15) | 238(10) | 2468(9) | 52(6) |
| C(223) | 9436(19) | -318(12) | 2648(11) | 83(8) |
| C(224) | 9857(18) | -354(12) | 3286(11) | 70(7) |
| C(225) | 9719(15) | 131(10) | 3750(11) | 63(7) |
| C(226) | 9178(15) | 675(10) | 3559(10) | 56(6) |
| P(3) | 10490(4) | 2053(2) | 1829(2) | 31(1) |
| C(31) | 10922(14) | 2860(8) | 1685(8) | 39(5) |

| | | | | |
|---|---|---|---|---|
| P(4) | 10064(4) | 3254(2) | 2195(2) | 31(1) |
| C(311) | 11603(15) | 1625(10) | 2208(10) | 48(6) |
| C(312) | 12560(16) | 1727(10) | 2100(9) | 52(6) |
| C(313) | 13396(18) | 1372(11) | 2371(12) | 75(8) |
| C(314) | 13218(18) | 884(11) | 2759(12) | 64(7) |
| C(315) | 12234(18) | 707(9) | 2889(11) | 57(6) |
| C(316) | 11421(16) | 1115(8) | 2616(9) | 42(5) |
| C(321) | 10317(13) | 1651(8) | 1013(9) | 32(4) |
| C(322) | 10941(16) | 1766(11) | 567(10) | 63(7) |
| C(323) | 10830(18) | 1462(13) | -37(11) | 75(8) |
| C(324) | 10059(21) | 1014(14) | -161(13) | 87(9) |
| C(325) | 9434(21) | 885(12) | 331(13) | 89(9) |
| C(326) | 9550(18) | 1225(10) | 895(10) | 59(6) |
| C(411) | 10924(13) | 3661(8) | 2828(7) | 30(4) |
| C(412) | 11808(15) | 3932(9) | 2724(9) | 48(5) |
| C(413) | 12419(17) | 4346(10) | 3198(10) | 62(6) |
| C(414) | 12071(17) | 4425(10) | 3772(10) | 61(6) |
| C(415) | 11174(16) | 4121(10) | 3923(10) | 58(6) |
| C(416) | 10572(16) | 3761(9) | 3446(9) | 53(6) |
| C(421) | 9518(15) | 3942(8) | 1717(7) | 32(5) |
| C(422) | 8490(13) | 4083(8) | 1763(8) | 33(5) |
| C(423) | 8093(21) | 4634(10) | 1437(11) | 72(8) |
| C(424) | 8699(24) | 4989(10) | 1075(11) | 68(9) |
| C(425) | 9681(21) | 4826(11) | 1029(10) | 67(7) |
| C(426) | 10102(16) | 4306(9) | 1369(8) | 43(5) |
| P | 2702(5) | 3798(3) | 406(2) | 51(2) |
| F(1) | 2763(11) | 3922(6) | 1165(5) | 85(4) |
| F(2) | 2594(10) | 3690(7) | -362(5) | 88(5) |
| F(3) | 1594(13) | 3701(16) | 375(8) | 205(14) |
| F(4) | 3818(13) | 3832(16) | 438(7) | 200(13) |
| F(5) | 2830(26) | 3117(9) | 517(10) | 211(13) |
| F(6) | 2565(33) | 4466(8) | 272(7) | 271(21) |

**Table 3.** Bond lengths [Å] and angles [deg] for **3a**.

| | |
|---|---|
| Ru-C(1) | 2.02(2) |
| Ru-P(4) | 2.310(5) |
| Ru-P(3) | 2.337(5) |
| Ru-P(2) | 2.373(5) |
| Ru-P(1) | 2.383(5) |
| Ru-Cl | 2.460(5) |
| C(1)-C(2) | 1.12(2) |
| C(2)-C(3) | 1.51(2) |
| C(3)-C(4) | 1.34(3) |
| C(3)-N(5) | 1.47(2) |
| N(5)-C(511) | 1.48(3) |
| N(5)-C(531) | 1.52(2) |
| N(5)-C(521) | 1.54(3) |
| C(511)-C(512) | 1.73(4) |
| C(521)-C(522) | 1.51(3) |
| C(531)-C(532) | 1.46(3) |
| P(1)-C(121) | 1.80(2) |
| P(1)-C(111) | 1.85(2) |
| P(1)-C(11) | 1.86(2) |
| C(11)-P(2) | 1.86(2) |
| P(2)-C(211) | 1.78(2) |
| P(2)-C(221) | 1.82(2) |
| C(111)-C(112) | 1.39(2) |
| C(111)-C(116) | 1.41(2) |
| C(112)-C(113) | 1.40(3) |
| C(113)-C(114) | 1.26(3) |
| C(114)-C(115) | 1.41(3) |
| C(115)-C(116) | 1.31(2) |
| C(121)-C(126) | 1.41(2) |
| C(121)-C(122) | 1.42(3) |
| C(122)-C(123) | 1.40(3) |
| C(123)-C(124) | 1.25(3) |
| C(124)-C(125) | 1.34(4) |
| C(125)-C(126) | 1.44(4) |
| C(211)-C(216) | 1.38(3) |
| C(211)-C(212) | 1.41(2) |
| C(212)-C(213) | 1.39(3) |
| C(213)-C(214) | 1.39(3) |
| C(214)-C(215) | 1.43(3) |
| C(215)-C(216) | 1.32(3) |
| C(221)-C(226) | 1.40(2) |
| C(221)-C(222) | 1.40(2) |
| C(222)-C(223) | 1.44(3) |
| C(223)-C(224) | 1.37(3) |
| C(224)-C(225) | 1.43(3) |

| | |
|---|---|
| C(225)-C(226) | 1.38(3) |
| P(3)-C(311) | 1.82(2) |
| P(3)-C(31) | 1.83(2) |
| P(3)-C(321) | 1.88(2) |
| C(31)-P(4) | 1.84(2) |
| P(4)-C(411) | 1.84(2) |
| P(4)-C(421) | 1.85(2) |
| C(311)-C(312) | 1.32(2) |
| C(311)-C(316) | 1.41(2) |
| C(312)-C(313) | 1.39(3) |
| C(313)-C(314) | 1.34(3) |
| C(314)-C(315) | 1.41(3) |
| C(315)-C(316) | 1.44(2) |
| C(321)-C(322) | 1.33(2) |
| C(321)-C(326) | 1.35(2) |
| C(322)-C(323) | 1.39(3) |
| C(323)-C(324) | 1.39(3) |
| C(324)-C(325) | 1.41(3) |
| C(325)-C(326) | 1.36(3) |
| C(411)-C(412) | 1.34(2) |
| C(411)-C(416) | 1.42(2) |
| C(412)-C(413) | 1.48(3) |
| C(413)-C(414) | 1.33(3) |
| C(414)-C(415) | 1.41(3) |
| C(415)-C(416) | 1.41(2) |
| C(421)-C(426) | 1.35(2) |
| C(421)-C(422) | 1.40(2) |
| C(422)-C(423) | 1.41(3) |
| C(423)-C(424) | 1.38(3) |
| C(424)-C(425) | 1.35(3) |
| C(425)-C(426) | 1.38(3) |
| P-F(6) | 1.45(2) |
| P-F(5) | 1.46(2) |
| P-F(3) | 1.47(2) |
| P-F(4) | 1.47(2) |
| P-F(1) | 1.581(11) |
| P-F(2) | 1.591(11) |
| | |
| C(1)-Ru-P(4) | 85.3(5) |
| C(1)-Ru-P(3) | 84.9(5) |
| P(4)-Ru-P(3) | 71.8(2) |
| C(1)-Ru-P(2) | 98.1(5) |
| P(4)-Ru-P(2) | 176.6(2) |
| P(3)-Ru-P(2) | 109.0(2) |
| C(1)-Ru-P(1) | 99.6(5) |
| P(4)-Ru-P(1) | 109.1(2) |
| P(3)-Ru-P(1) | 175.4(2) |
| P(2)-Ru-P(1) | 69.8(2) |
| C(1)-Ru-Cl | 176.3(5) |

| | |
|---|---|
| P(4)-Ru-Cl | 91.7(2) |
| P(3)-Ru-Cl | 92.2(2) |
| P(2)-Ru-Cl | 85.0(2) |
| P(1)-Ru-Cl | 83.3(2) |
| C(2)-C(1)-Ru | 175(2) |
| C(1)-C(2)-C(3) | 167(2) |
| C(4)-C(3)-N(5) | 123(2) |
| C(4)-C(3)-C(2) | 124(2) |
| N(5)-C(3)-C(2) | 113(2) |
| C(3)-N(5)-C(511) | 113(2) |
| C(3)-N(5)-C(531) | 113(2) |
| C(511)-N(5)-C(531) | 111(2) |
| C(3)-N(5)-C(521) | 114(2) |
| C(511)-N(5)-C(521) | 100(2) |
| C(531)-N(5)-C(521) | 104(2) |
| N(5)-C(511)-C(512) | 107(2) |
| C(522)-C(521)-N(5) | 122(2) |
| C(532)-C(531)-N(5) | 113(2) |
| C(121)-P(1)-C(111) | 102.0(9) |
| C(121)-P(1)-C(11) | 108.4(9) |
| C(111)-P(1)-C(11) | 102.0(9) |
| C(121)-P(1)-Ru | 122.4(7) |
| C(111)-P(1)-Ru | 124.8(6) |
| C(11)-P(1)-Ru | 93.8(6) |
| P(2)-C(11)-P(1) | 94.1(9) |
| C(211)-P(2)-C(221) | 102.4(9) |
| C(211)-P(2)-C(11) | 103.2(9) |
| C(221)-P(2)-C(11) | 106.2(9) |
| C(211)-P(2)-Ru | 124.9(6) |
| C(221)-P(2)-Ru | 122.2(7) |
| C(11)-P(2)-Ru | 94.2(7) |
| C(112)-C(111)-C(116) | 117(2) |
| C(112)-C(111)-P(1) | 119.8(13) |
| C(116)-C(111)-P(1) | 122.2(14) |
| C(111)-C(112)-C(113) | 118(2) |
| C(114)-C(113)-C(112) | 123(2) |
| C(113)-C(114)-C(115) | 121(2) |
| C(116)-C(115)-C(114) | 119(2) |
| C(115)-C(116)-C(111) | 122(2) |
| C(126)-C(121)-C(122) | 118(2) |
| C(126)-C(121)-P(1) | 122(2) |
| C(122)-C(121)-P(1) | 119(2) |
| C(123)-C(122)-C(121) | 119(2) |
| C(124)-C(123)-C(122) | 121(3) |
| C(123)-C(124)-C(125) | 125(3) |
| C(124)-C(125)-C(126) | 119(3) |
| C(121)-C(126)-C(125) | 118(2) |
| C(216)-C(211)-C(212) | 114(2) |
| C(216)-C(211)-P(2) | 123(2) |

| | |
|---|---|
| C(212)-C(211)-P(2) | 122(2) |
| C(213)-C(212)-C(211) | 120(2) |
| C(214)-C(213)-C(212) | 122(2) |
| C(213)-C(214)-C(215) | 118(2) |
| C(216)-C(215)-C(214) | 116(2) |
| C(215)-C(216)-C(211) | 129(2) |
| C(226)-C(221)-C(222) | 120(2) |
| C(226)-C(221)-P(2) | 123(2) |
| C(222)-C(221)-P(2) | 117.3(14) |
| C(221)-C(222)-C(223) | 122(2) |
| C(224)-C(223)-C(222) | 116(2) |
| C(223)-C(224)-C(225) | 123(2) |
| C(226)-C(225)-C(224) | 120(2) |
| C(225)-C(226)-C(221) | 119(2) |
| C(311)-P(3)-C(31) | 106.4(9) |
| C(311)-P(3)-C(321) | 99.5(9) |
| C(31)-P(3)-C(321) | 106.4(8) |
| C(311)-P(3)-Ru | 125.6(7) |
| C(31)-P(3)-Ru | 95.0(6) |
| C(321)-P(3)-Ru | 121.8(6) |
| P(4)-C(31)-P(3) | 95.9(8) |
| C(31)-P(4)-C(411) | 104.5(8) |
| C(31)-P(4)-C(421) | 106.0(8) |
| C(411)-P(4)-C(421) | 100.3(8) |
| C(31)-P(4)-Ru | 95.9(6) |
| C(411)-P(4)-Ru | 125.7(6) |
| C(421)-P(4)-Ru | 121.6(6) |
| C(312)-C(311)-C(316) | 117(2) |
| C(312)-C(311)-P(3) | 126(2) |
| C(316)-C(311)-P(3) | 117(2) |
| C(311)-C(312)-C(313) | 125(2) |
| C(314)-C(313)-C(312) | 118(2) |
| C(313)-C(314)-C(315) | 123(2) |
| C(314)-C(315)-C(316) | 115(2) |
| C(311)-C(316)-C(315) | 122(2) |
| C(322)-C(321)-C(326) | 120(2) |
| C(322)-C(321)-P(3) | 121(2) |
| C(326)-C(321)-P(3) | 118.1(14) |
| C(321)-C(322)-C(323) | 122(2) |
| C(324)-C(323)-C(322) | 118(2) |
| C(323)-C(324)-C(325) | 118(2) |
| C(326)-C(325)-C(324) | 120(3) |
| C(321)-C(326)-C(325) | 121(2) |
| C(412)-C(411)-C(416) | 118(2) |
| C(412)-C(411)-P(4) | 124.1(14) |
| C(416)-C(411)-P(4) | 117.8(14) |
| C(411)-C(412)-C(413) | 124(2) |
| C(414)-C(413)-C(412) | 117(2) |
| C(413)-C(414)-C(415) | 122(2) |

| | |
|---|---|
| C(416)-C(415)-C(414) | 120(2) |
| C(415)-C(416)-C(411) | 119(2) |
| C(426)-C(421)-C(422) | 122(2) |
| C(426)-C(421)-P(4) | 121(2) |
| C(422)-C(421)-P(4) | 116.5(14) |
| C(421)-C(422)-C(423) | 117(2) |
| C(424)-C(423)-C(422) | 120(2) |
| C(425)-C(424)-C(423) | 121(2) |
| C(424)-C(425)-C(426) | 120(3) |
| C(421)-C(426)-C(425) | 120(2) |
| F(6)-P-F(5) | 178.0(10) |
| F(6)-P-F(3) | 92(2) |
| F(5)-P-F(3) | 88(2) |
| F(6)-P-F(4) | 94(2) |
| F(5)-P-F(4) | 87(2) |
| F(3)-P-F(4) | 175(2) |
| F(6)-P-F(1) | 91.1(8) |
| F(5)-P-F(1) | 90.9(10) |
| F(3)-P-F(1) | 89.9(8) |
| F(4)-P-F(1) | 90.9(9) |
| F(6)-P-F(2) | 87.5(8) |
| F(5)-P-F(2) | 90.5(10) |
| F(3)-P-F(2) | 88.2(8) |
| F(4)-P-F(2) | 91.2(8) |
| F(1)-P-F(2) | 177.5(9) |

**Table 4.** Anisotropic displacement parameters (Å$^2$ x $10^3$) for **3a**. The anisotropic displacement factor exponent takes the form: $-2 \pi^2 [ h^2 a^{*2} U_{11} + ... + 2 h k a^* b^* U_{12} ]$

| | U11 | U22 | U33 | U23 | U13 | U12 |
|---|---|---|---|---|---|---|
| Ru | 34(1) | 39(1) | 27(1) | 20(1) | 2(1) | 10(1) |
| Cl | 46(3) | 52(4) | 46(3) | 18(2) | -2(3) | 4(3) |
| C(1) | 33(11) | 31(12) | 36(11) | 0(9) | -1(9) | -7(9) |
| C(2) | 44(12) | 43(12) | 35(11) | 2(10) | -1(10) | -13(11) |
| C(3) | 74(15) | 21(11) | 25(10) | -3(8) | -13(10) | -6(11) |
| C(4) | 79(18) | 71(20) | 109(20) | 56(16) | -10(16) | -21(16) |
| N(5) | 95(15) | 46(11) | 12(7) | 9(8) | 5(9) | -23(11) |
| C(511) | 316(53) | 28(15) | 76(19) | -2(13) | 21(27) | -75(25) |
| C(512) | 130(27) | 34(17) | 199(34) | 3(18) | -99(26) | 23(17) |
| C(521) | 39(14) | 155(28) | 79(17) | 32(19) | -10(13) | -31(18) |
| C(522) | 86(22) | 291(50) | 82(19) | 71(26) | -6(17) | -90(28) |
| C(531) | 62(16) | 86(18) | 44(12) | 17(13) | -20(12) | -28(15) |
| C(532) | 200(40) | 135(32) | 138(28) | -95(25) | 77(28) | -34(29) |
| P(1) | 38(3) | 74(4) | 27(3) | 15(3) | 7(2) | 12(3) |
| C(11) | 37(13) | 69(16) | 62(14) | -17(12) | 11(11) | 13(12) |
| P(2) | 35(3) | 37(3) | 48(3) | 23(3) | 2(3) | 2(3) |
| C(111) | 23(10) | 30(11) | 39(11) | 15(9) | -2(9) | 2(9) |
| C(112) | 50(14) | 72(16) | 58(14) | 53(13) | 1(12) | 24(13) |
| C(113) | 50(16) | 77(19) | 105(21) | 63(17) | 28(15) | 13(14) |
| C(114) | 48(15) | 12(11) | 97(18) | 20(12) | -16(14) | 12(11) |
| C(115) | 45(14) | 33(12) | 64(14) | 6(11) | -7(12) | 11(11) |
| C(116) | 38(13) | 26(11) | 65(14) | -8(10) | 0(11) | 13(10) |
| C(121) | 41(13) | 56(15) | 42(12) | 3(10) | 22(10) | 12(12) |
| C(122) | 54(15) | 115(22) | 22(11) | -7(13) | 8(10) | -10(16) |
| C(123) | 80(20) | 136(26) | 52(16) | -27(17) | 18(15) | 21(19) |
| C(124) | 89(23) | 175(35) | 29(15) | -31(18) | -15(15) | -8(25) |
| C(125) | 62(18) | 170(34) | 61(18) | 35(22) | 15(15) | 32(22) |
| C(126) | 99(19) | 110(20) | 8(10) | 15(12) | 10(11) | 62(17) |
| C(211) | 47(14) | 53(14) | 56(13) | 37(11) | 14(11) | 21(12) |
| C(212) | 53(14) | 46(14) | 57(14) | 28(11) | -17(12) | -9(12) |
| C(213) | 70(17) | 83(19) | 39(12) | 41(12) | -14(12) | 4(15) |
| C(214) | 91(20) | 43(15) | 89(18) | 33(13) | -24(16) | -20(15) |
| C(215) | 39(15) | 143(26) | 73(18) | 27(18) | 8(14) | 1(17) |
| C(216) | 41(14) | 96(19) | 46(13) | 41(13) | -4(12) | -10(14) |
| C(225) | 40(14) | 57(15) | 82(16) | 48(13) | -39(12) | -3(12) |
| C(226) | 56(15) | 37(13) | 70(15) | 20(11) | -10(12) | -21(12) |
| P(3) | 35(3) | 18(3) | 39(3) | 7(2) | 4(2) | -1(2) |
| P(4) | 41(3) | 38(3) | 14(2) | 2(2) | -1(2) | 7(3) |
| C(311) | 34(12) | 46(14) | 64(14) | 15(11) | 3(11) | 1(11) |
| C(312) | 51(14) | 56(15) | 51(13) | 14(11) | 12(11) | 5(13) |
| C(313) | 53(16) | 44(16) | 118(21) | 9(15) | -23(15) | 33(14) |

| | | | | | | |
|---|---|---|---|---|---|---|
| C(314) | 48(16) | 49(16) | 89(19) | -31(14) | -19(14) | -6(13) |
| C(315) | 70(17) | 10(11) | 90(17) | 5(10) | -4(14) | 3(12) |
| C(316) | 52(13) | 10(10) | 62(13) | 9(9) | 3(11) | 9(10) |
| C(321) | 29(11) | 15(10) | 55(12) | 5(9) | 14(10) | 0(9) |
| C(322) | 51(15) | 65(16) | 78(16) | -35(13) | 33(13) | 1(13) |
| C(323) | 56(16) | 108(22) | 63(16) | -32(15) | 17(14) | -16(16) |
| C(324) | 79(21) | 117(26) | 63(17) | -3(17) | 4(16) | 7(19) |
| C(325) | 101(23) | 74(19) | 85(19) | -23(16) | -17(18) | -30(18) |
| C(326) | 86(18) | 46(14) | 45(13) | -10(11) | 6(13) | -13(14) |
| C(421) | 59(14) | 17(10) | 16(9) | -3(8) | -12(9) | 18(10) |
| C(423) | 88(20) | 39(15) | 75(17) | -33(13) | -50(16) | 36(15) |
| C(424) | 116(26) | 26(14) | 48(15) | -9(11) | -52(16) | 10(16) |
| C(425) | 85(21) | 52(16) | 55(14) | -8(12) | -27(15) | 7(15) |
| C(426) | 57(14) | 46(13) | 24(10) | 11(10) | -2(10) | 20(12) |
| P | 59(5) | 63(4) | 30(3) | -4(3) | 0(3) | -13(3) |
| F(1) | 122(12) | 95(10) | 34(6) | -10(7) | -12(7) | -1(10) |
| F(2) | 104(11) | 136(13) | 26(6) | -3(7) | 14(7) | -13(10) |
| F(3) | 77(13) | 464(44) | 76(11) | -78(19) | 18(10) | -51(20) |
| F(4) | 91(14) | 442(42) | 62(11) | -26(18) | -3(10) | -94(20) |
| F(5) | 383(42) | 85(15) | 153(18) | -32(13) | -21(23) | 4(21) |
| F(6) | 677(64) | 62(12) | 51(10) | 3(8) | -57(22) | -16(24) |

Figure S1: Plot of the packing diagramm of **3a** (view down the *a* axis).

Figure S2: EPR spectrum of electrochemically oxidized *trans*-[Cl(dppm)$_2$Ru-C≡C-C(NEt$_3$)=CH$_2$]$^{2+}$.

$Pt_{10}$-Cluster in $CH_2Cl_2$, GC, -78 °C

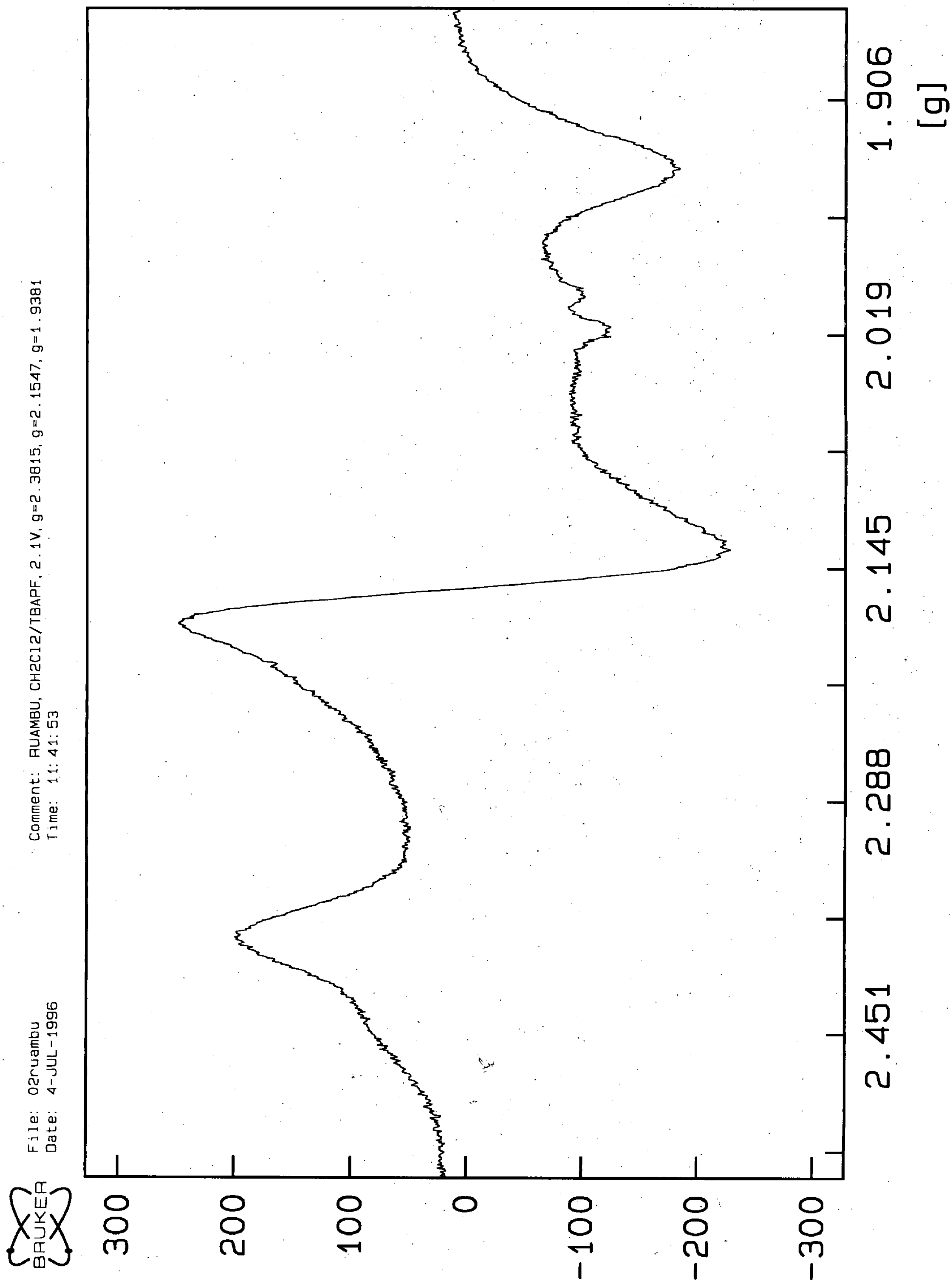
| File | v [V/s] | $Ep_f$ [V] | $Ep_r$ [V] | $E_{p/2}$ [V] | $Ep-Ep_{/2}$ [mV] | $\Delta E_p$ [mV] | $E_{1/2}$ [V] | $i_{p,f}$ [µA] | $i_{p,r}$ [µA] | $i_\lambda$ [µA] | r | $i_{p,f}/v^{1/2}$ $\Delta Ep$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CV 32 6 | 0.1 | -1.270 | 0.530/0.67 | -1.15 | 120 | | | 4.10 | | | | |
| | | 1.312 | 1.271 | -1.234 | 78 | | | -8.4 | | | | |
| CV 30 | 0.4 | -1.516 | 0.421/0.572 | -1.376 | 140 | | | | | | | |
| | | 1.174 | | 1.090 | 84 | | | 14.6 | | | | |
| CV 28 | 0.4 | 1.174 | - | 1.090 | | | | 14.0 | | | | |
| | | -1.526 | - | - | | | | - | | | | |
| CV 27 | 0.2 | 1.142 | -1.204 | 1.058 | 84 | | | -11.3 | | | | |
| | | -1.49 | - | - | - | - | - | - | | | | |
| CV 33 | 0.1 | -1.234 | 0.581 0.72 | -1.10 | 124 | | | +4.44 | | | | |
| | | 1.360 | -1 | -1.290 | 70 | | | -7.8 | | | | |
| CV 34 | 0.1 | -1.310 | | -1.18 | 130 | | | +4.5 | | | | -2.015 |
| | | 0.704 | 0.630 | 0.649 | 55 | 74 | 0. | -9.75 | +9.75 | | | 0 |
| | | 1.154 | | | | | | | | | | 0.450 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Fc

Lage der Folgepeaks: Peaks, die der Reduktion zugehörig sind: ~ -0.19 V, -0.05 V

Peak, der Oxidation zugehörig ist: ~ -1.70 V


File: 02ruambu
Date: 4-JUL-1996
Comment: RUAMBU, CH2Cl2/TBAPF, 2.1V, g=2.3815, g=2.1547, g=1.9381
Time: 11:41:53
BRUKER
300
200
100
0
-100
-200
-300
2.451
2.288
2.145
2.019
1.906
[g]