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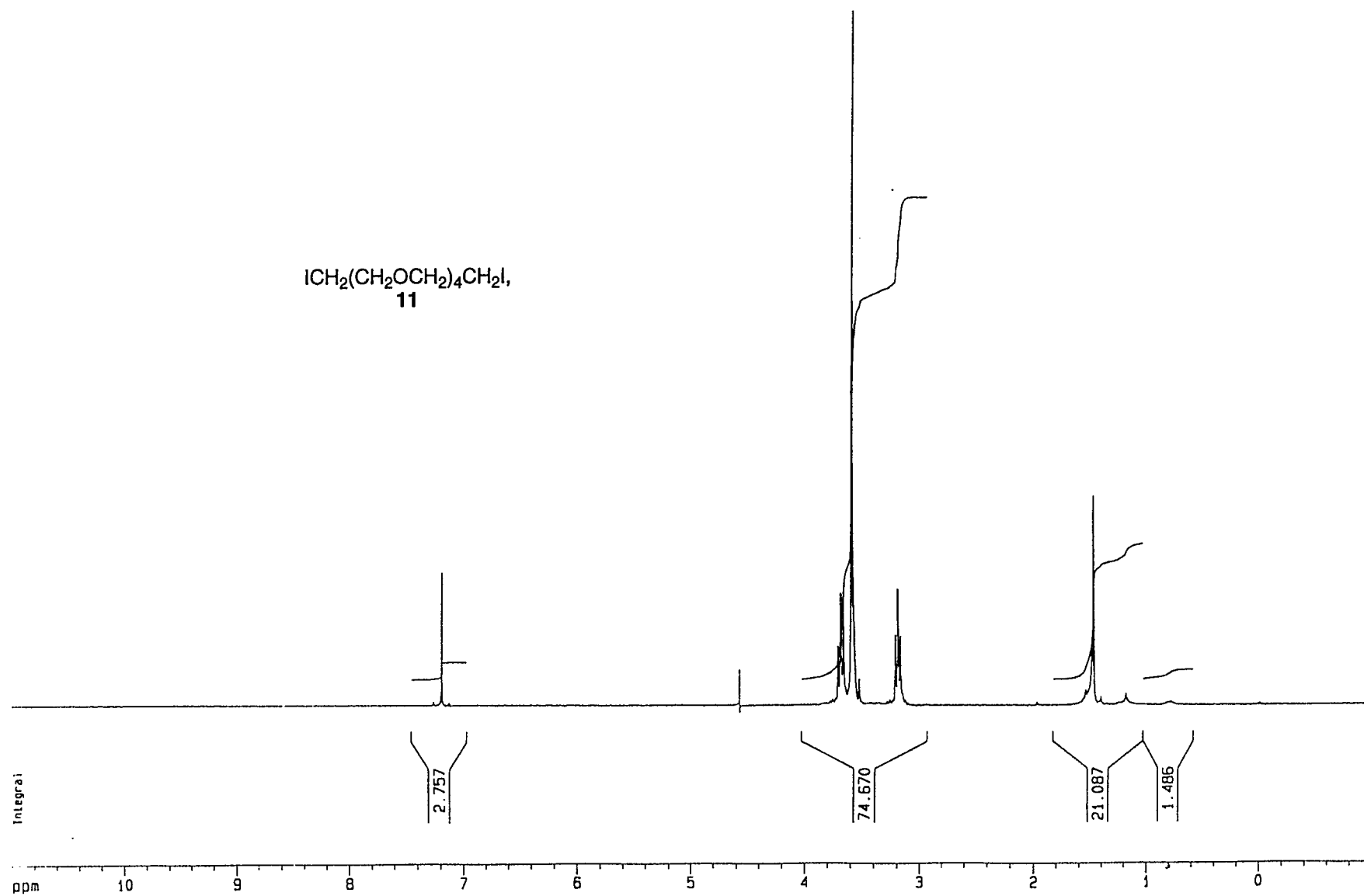
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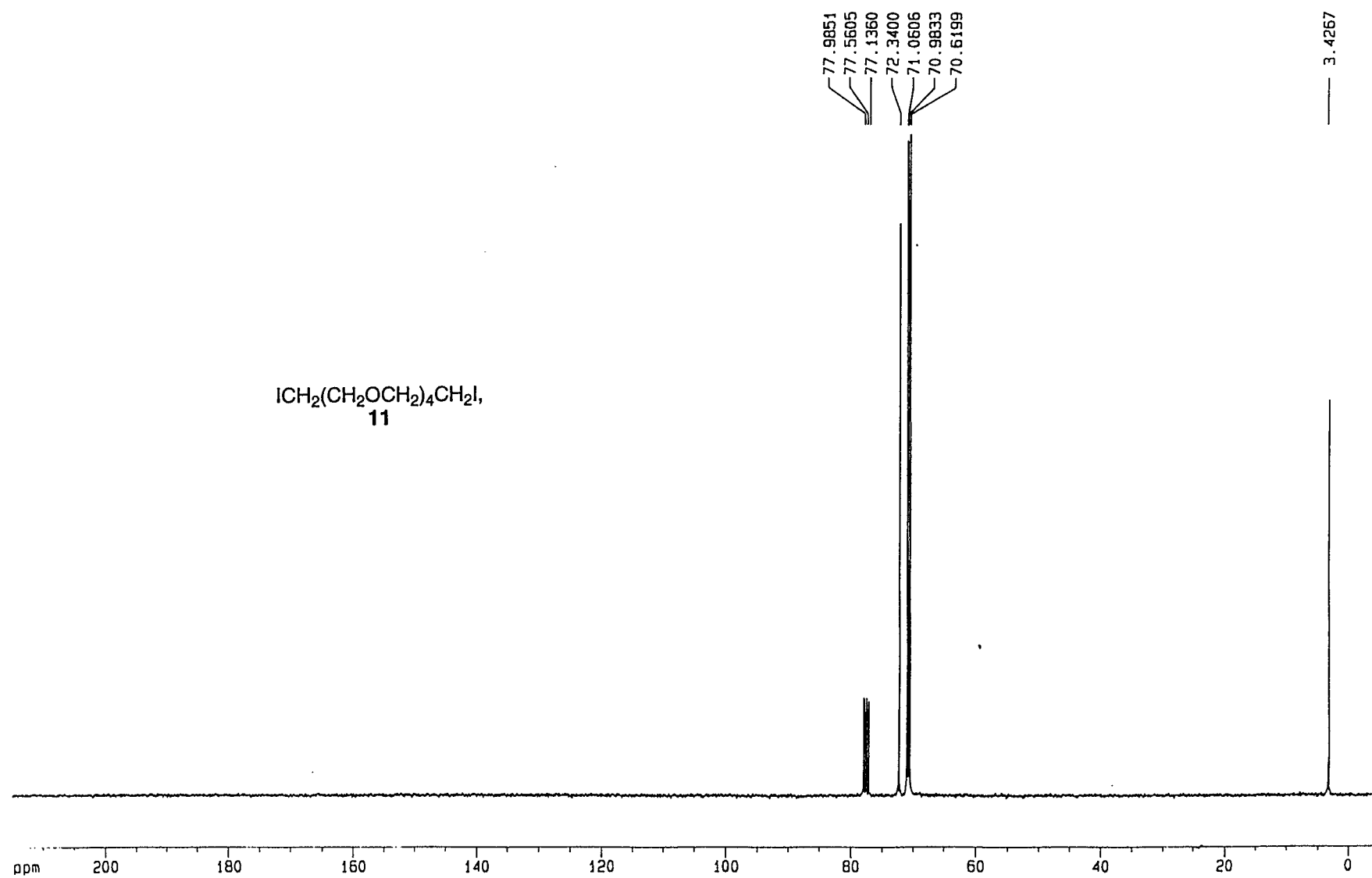


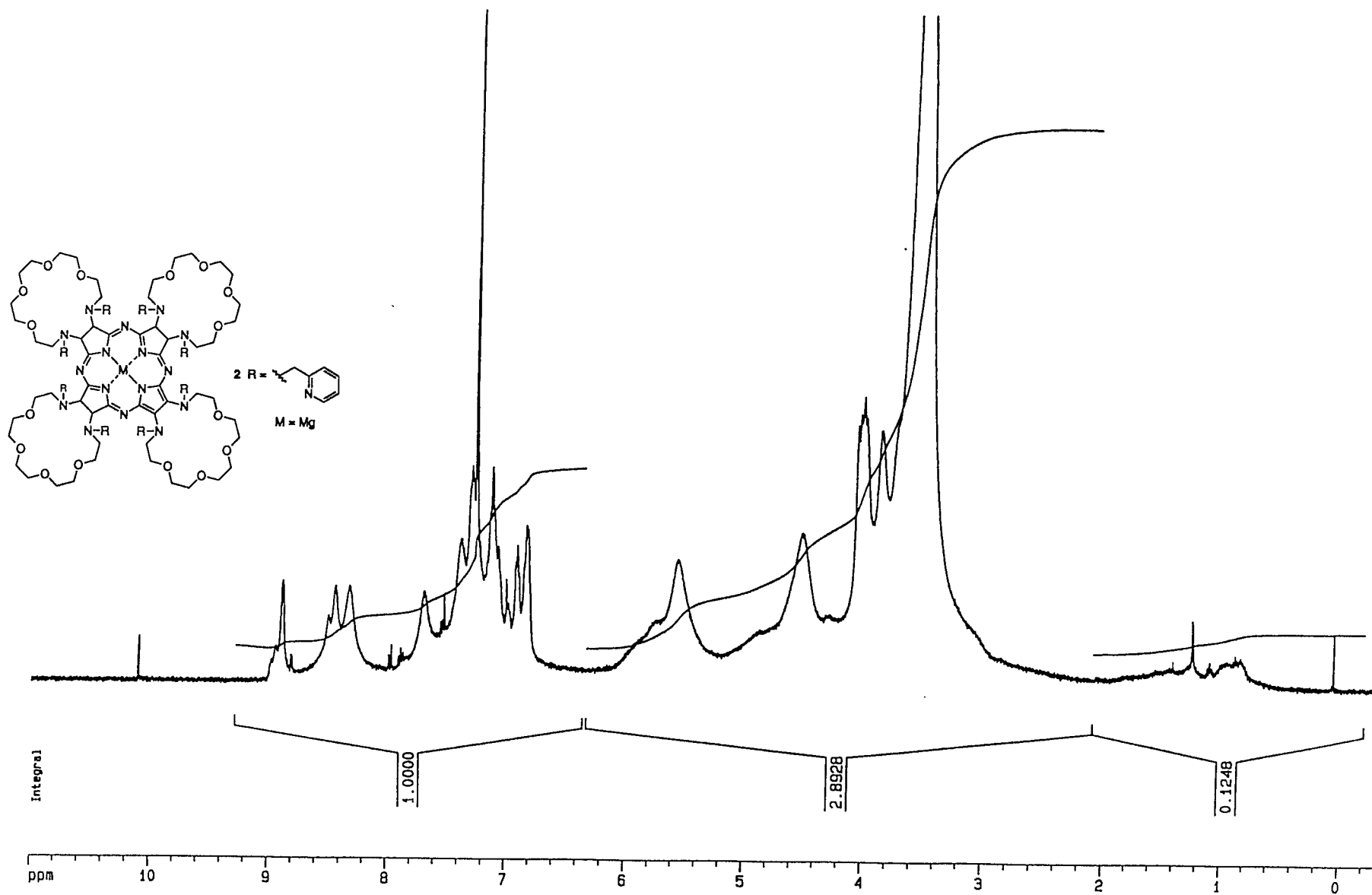
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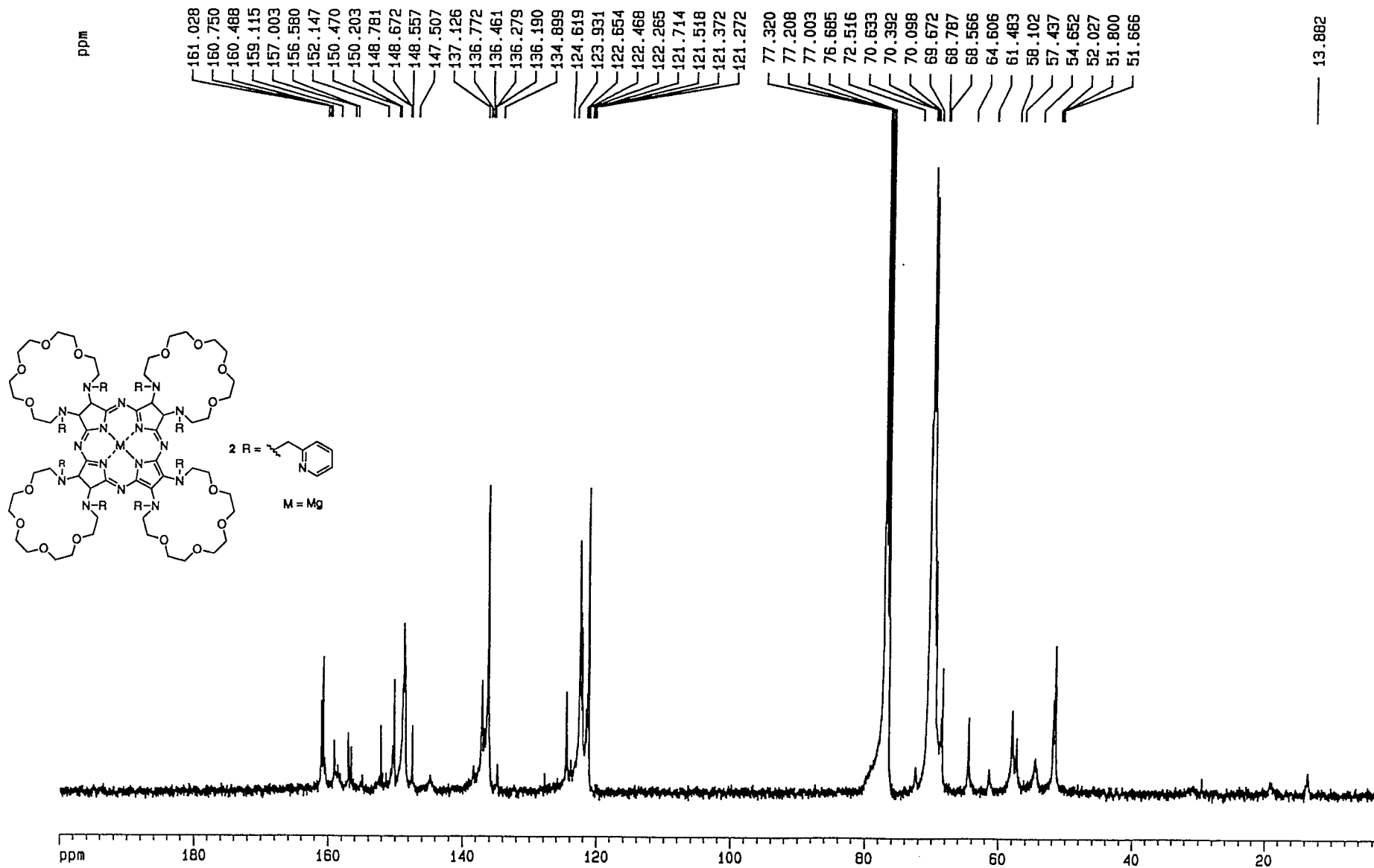
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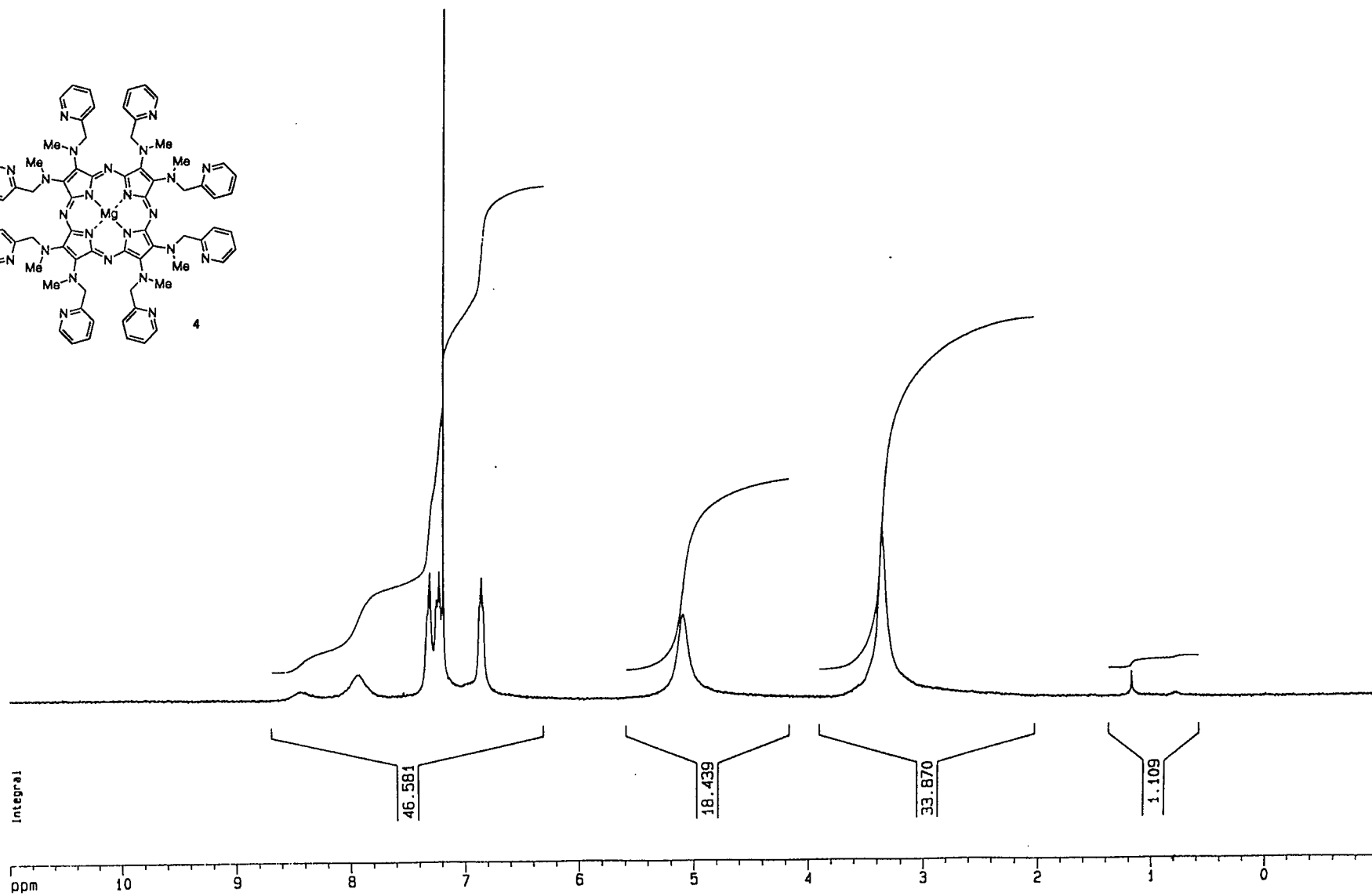
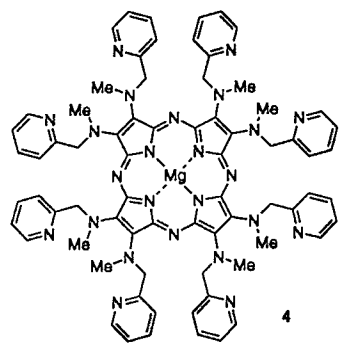
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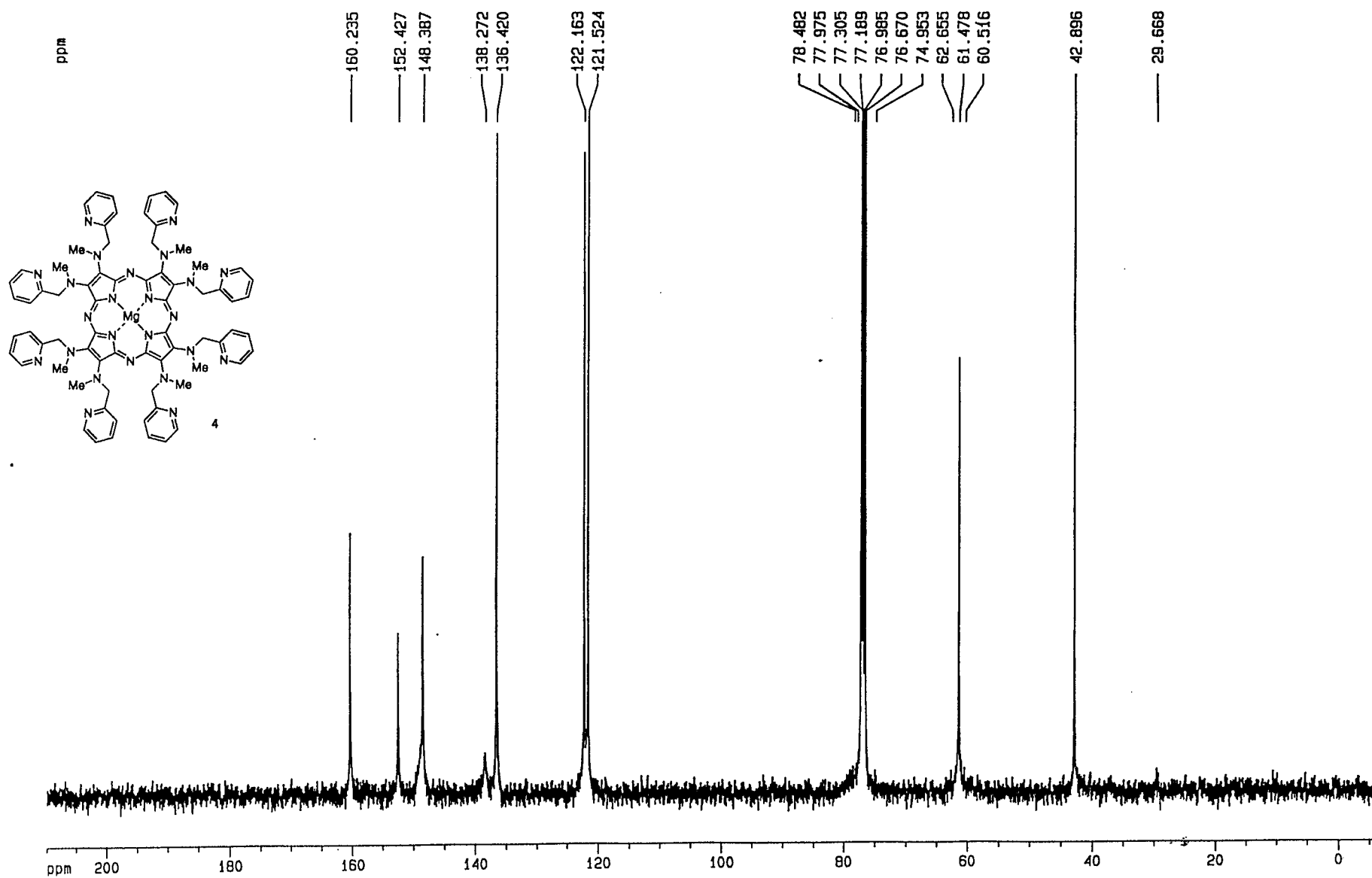












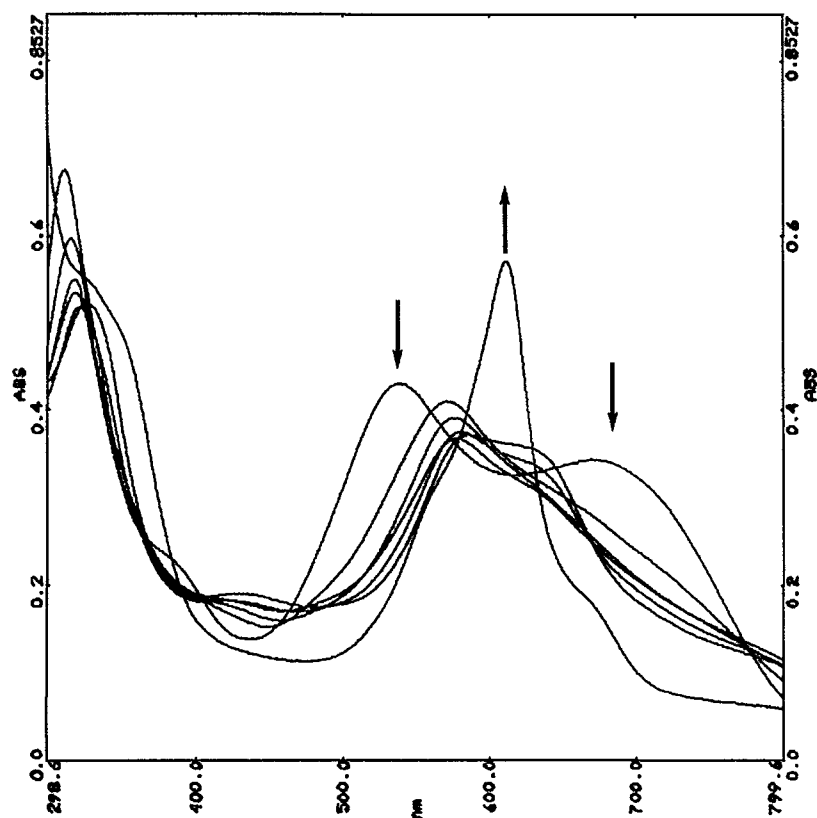


Figure 1: Porphyrazine 1 (M = Ni) titrated with $\text{Hg}(\text{ClO}_4)_2$ (0, 2, 4, 8, 20, 40, >100 equiv).

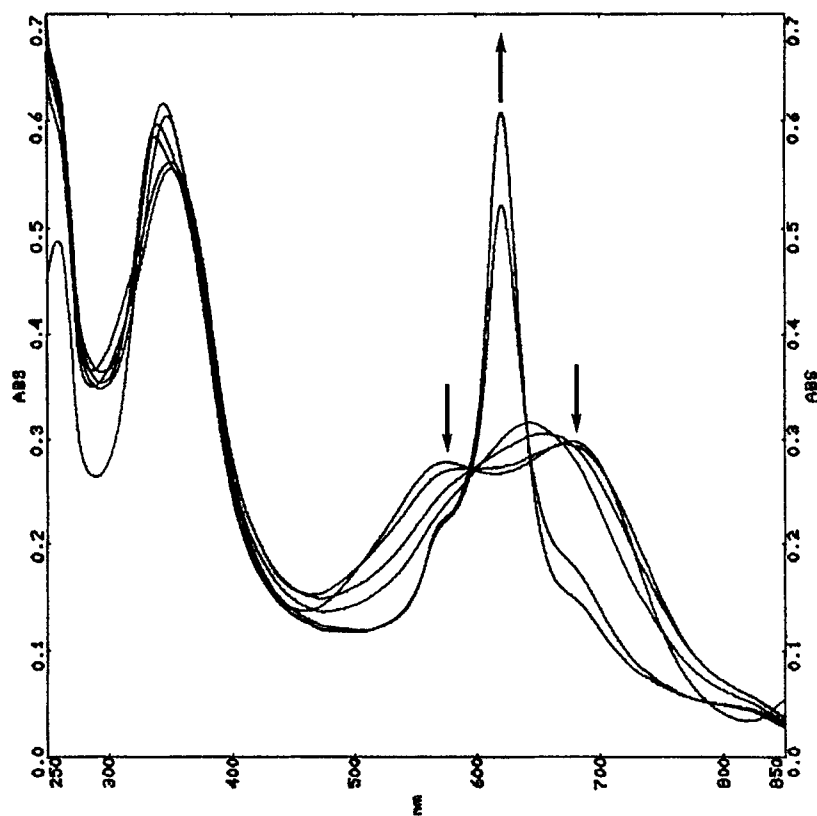


Figure 2: Porphyrazine 2 titrated with AgBF_4 (0, 1, 2, 3, 4, 6 equiv).

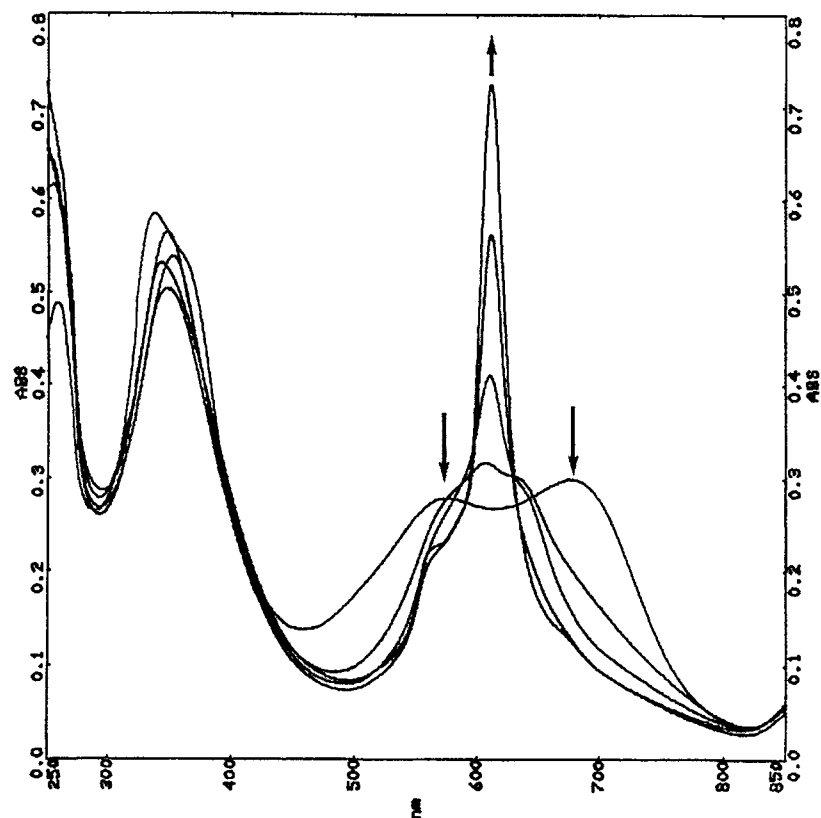


Figure 3: Porphyrzine 2 titrated with $\text{Pb}(\text{NO}_3)_2$ (0, 2, 4, 6, 8 equiv).

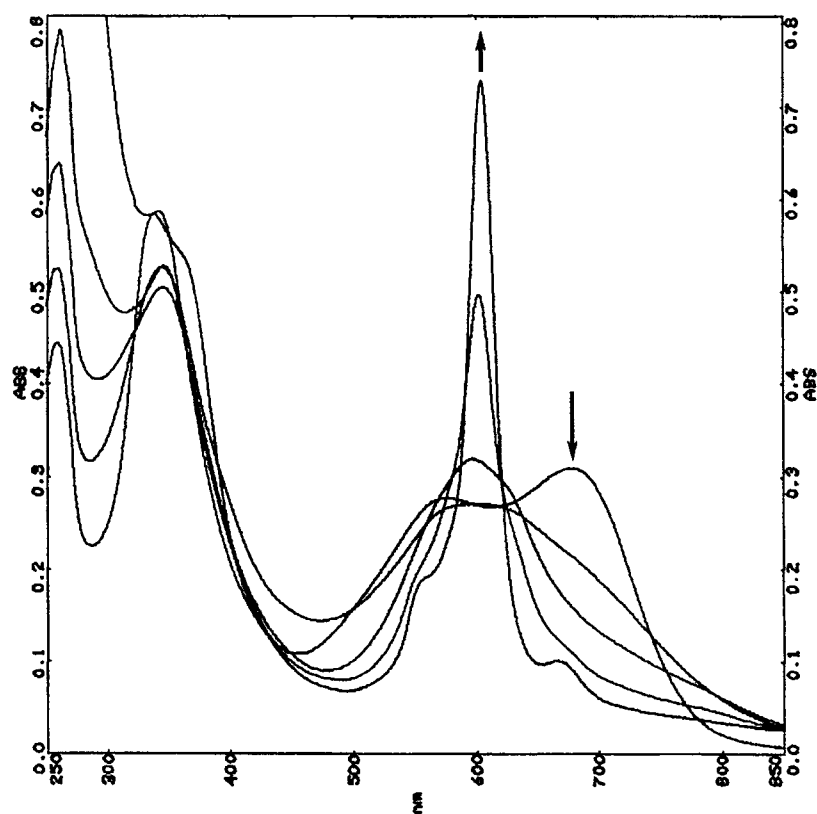


Figure 4: Porphyrzine 2 titrated with CuCl_2 (0, 2, 4, 8, 20 equiv).

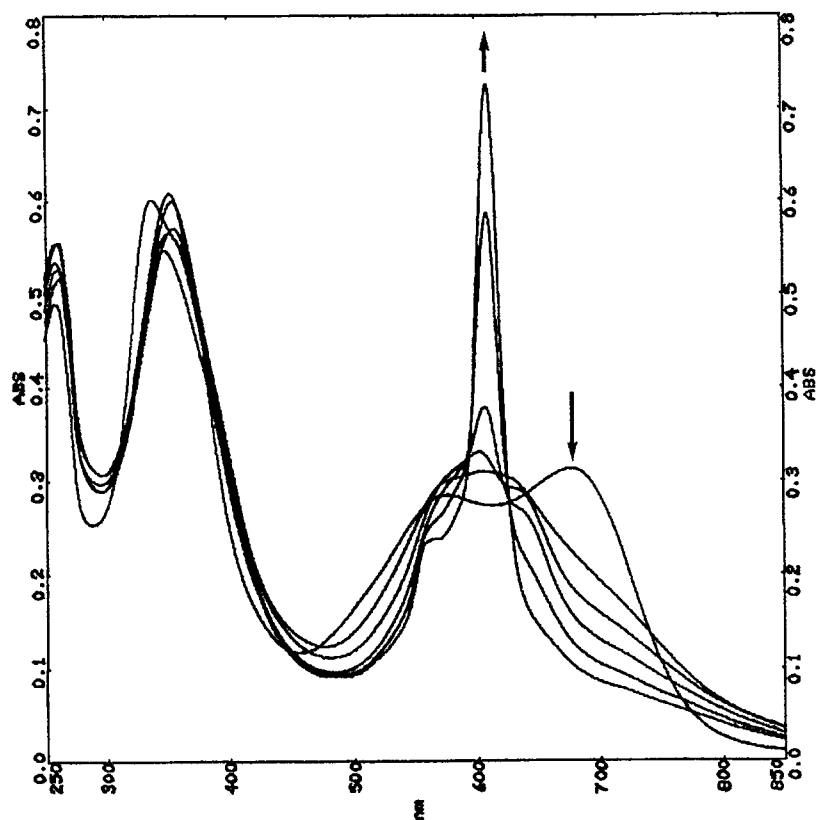


Figure 5: Porphyrazine 2 titrated with CoCl_2 (0, 2, 4, 8, 20, 40 equiv).

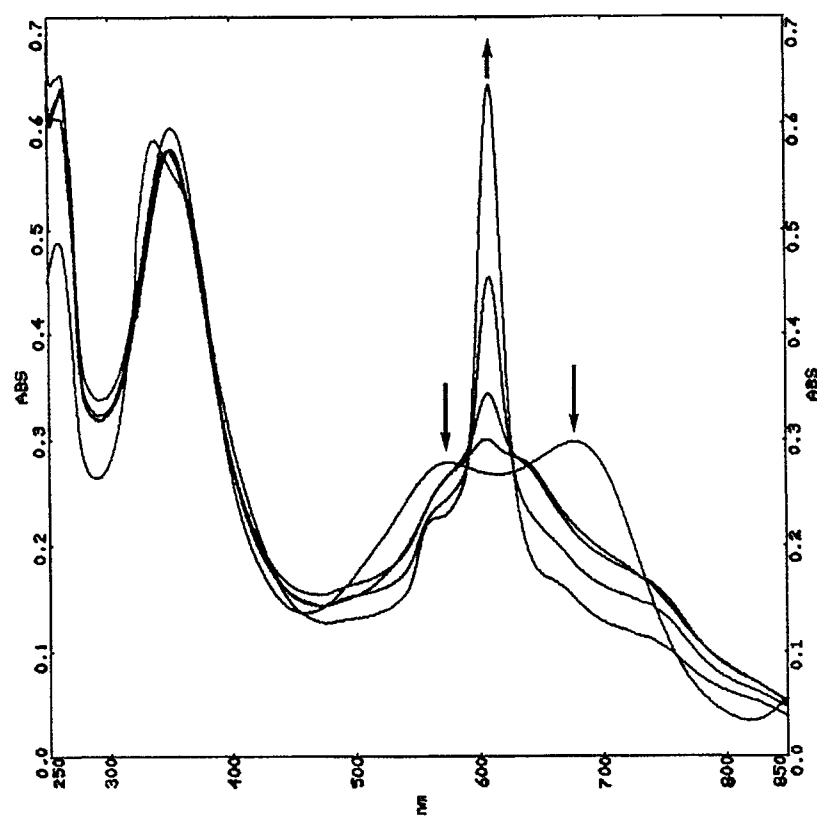


Figure 6: Porphyrazine 2 titrated with $\text{Zn}(\text{ClO}_4)_2$ (0, 4, 8, 20, 40 equiv).

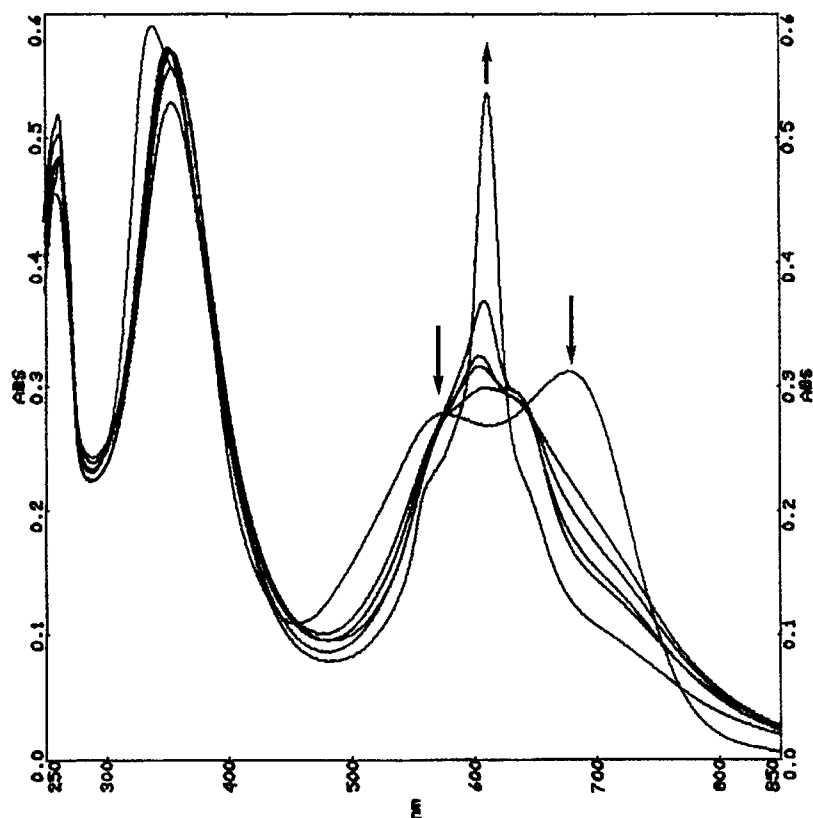


Figure 7: Porphyrazine 2 titrated with CdCl_2 (0, 2, 4, 8, 20, 40 equiv).

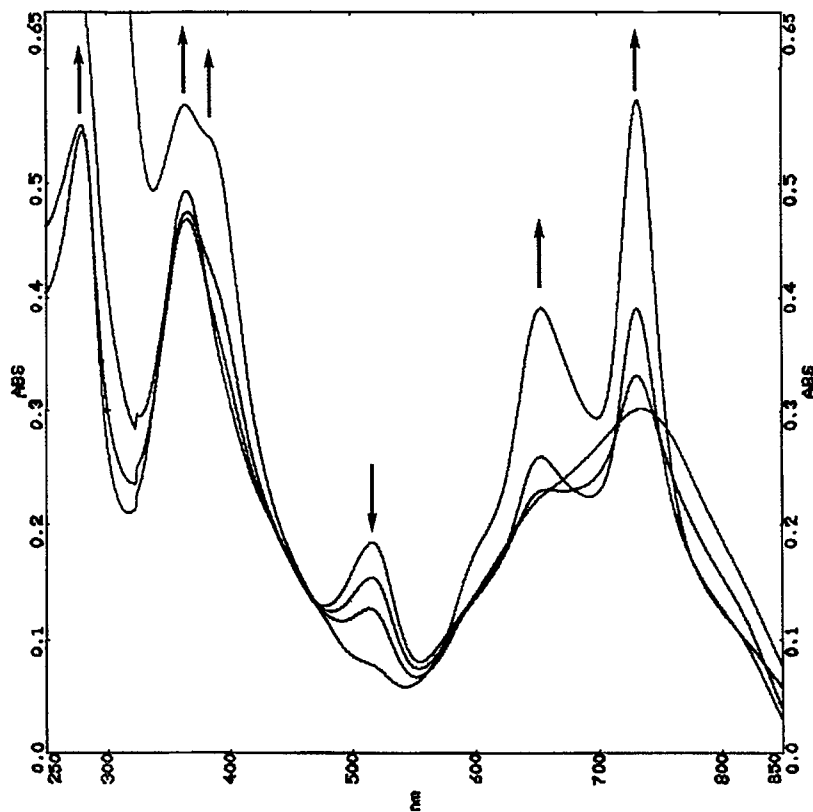


Figure 8: Norphthalocyanine 3 titrated with $\text{Cu}(\text{OAc})_2$ (0, 2, 10, 100 equiv).

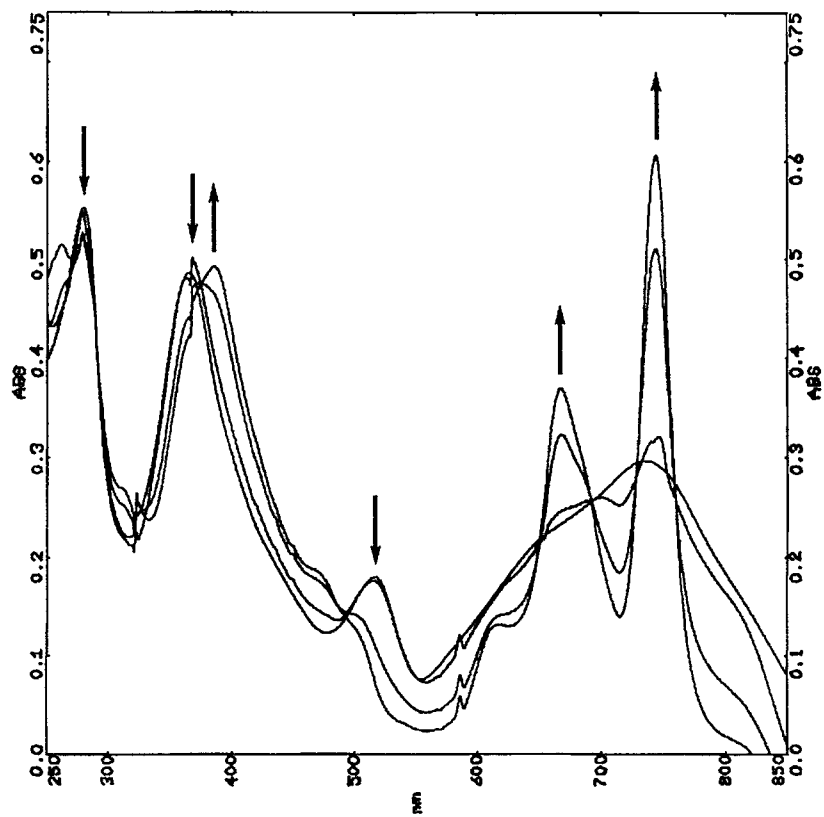


Figure 9: Norphthalocyanine 3 titrated with $\text{Hg}(\text{ClO}_4)_2 \cdot 3\text{H}_2\text{O}$ (0, 1, 2, 10 equiv).

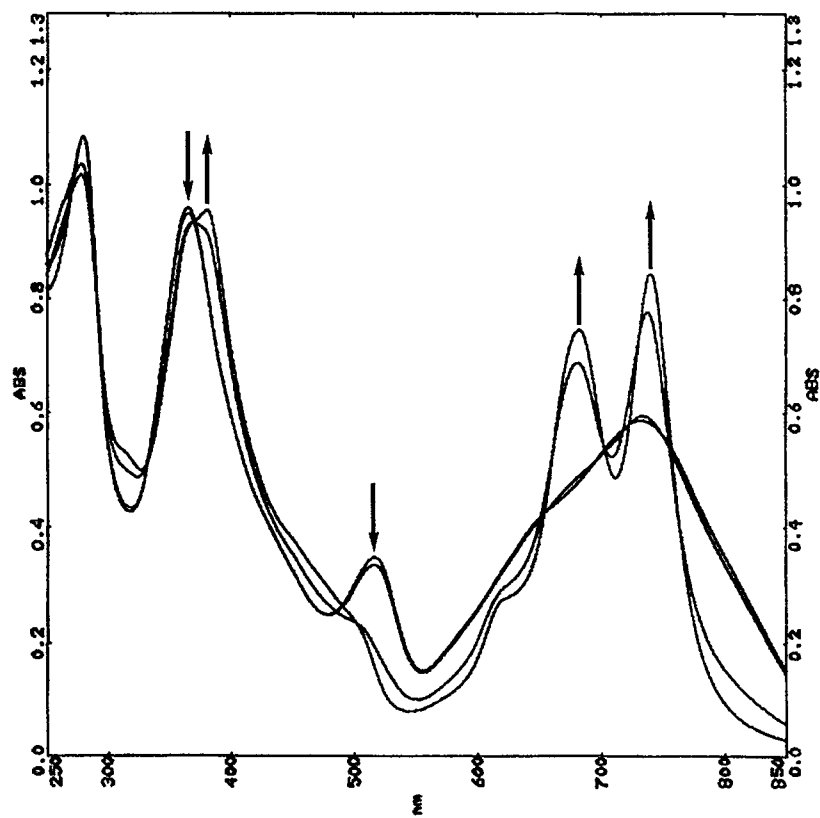


Figure 10: Norphthalocyanine 3 titrated with AgBF_4 (0, 1, 2, 4 equiv).

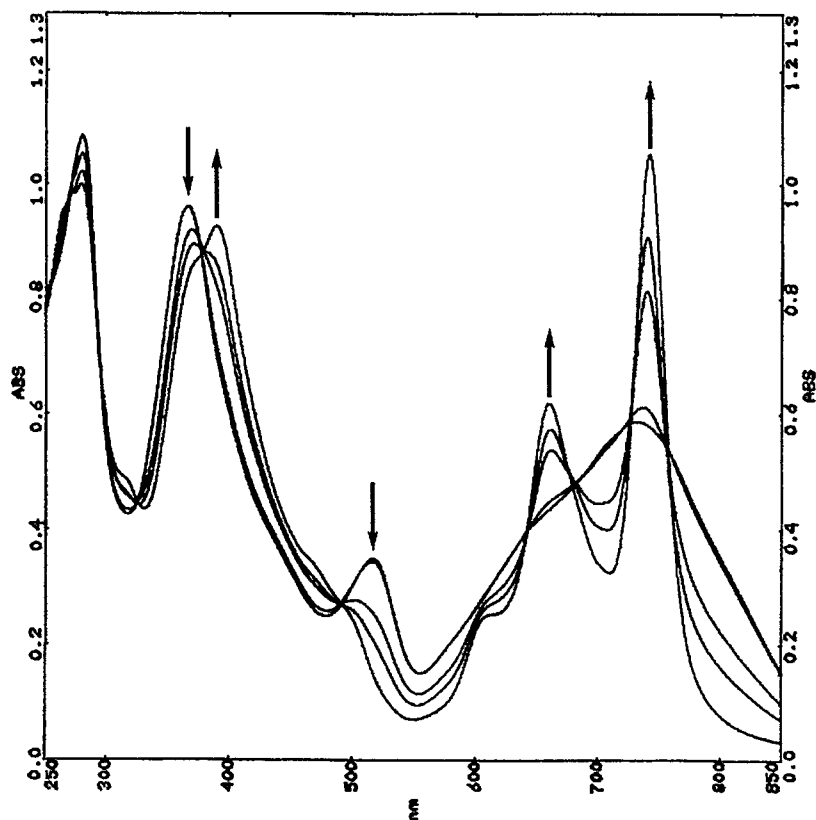


Figure 11: Norphthalocyanine 3 titrated with $\text{Zn}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$ (0, 2, 4, 10, 100 equiv).

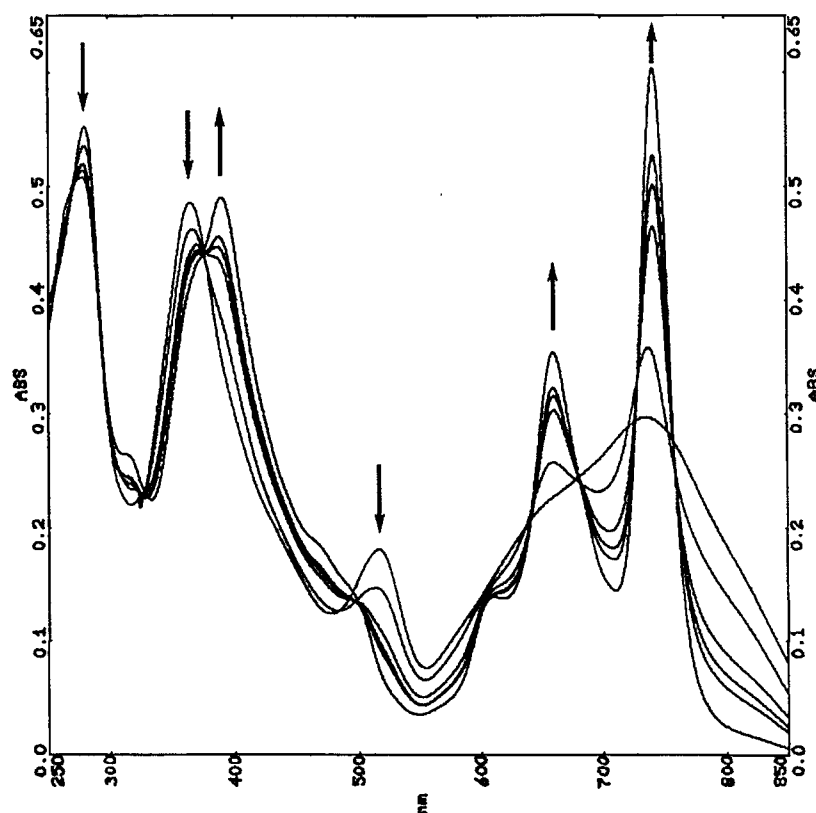


Figure 12: Norphthalocyanine 3 titrated with $\text{Co}(\text{BF}_4)_2$ (0, 1, 2, 4, 10, 100 equiv).

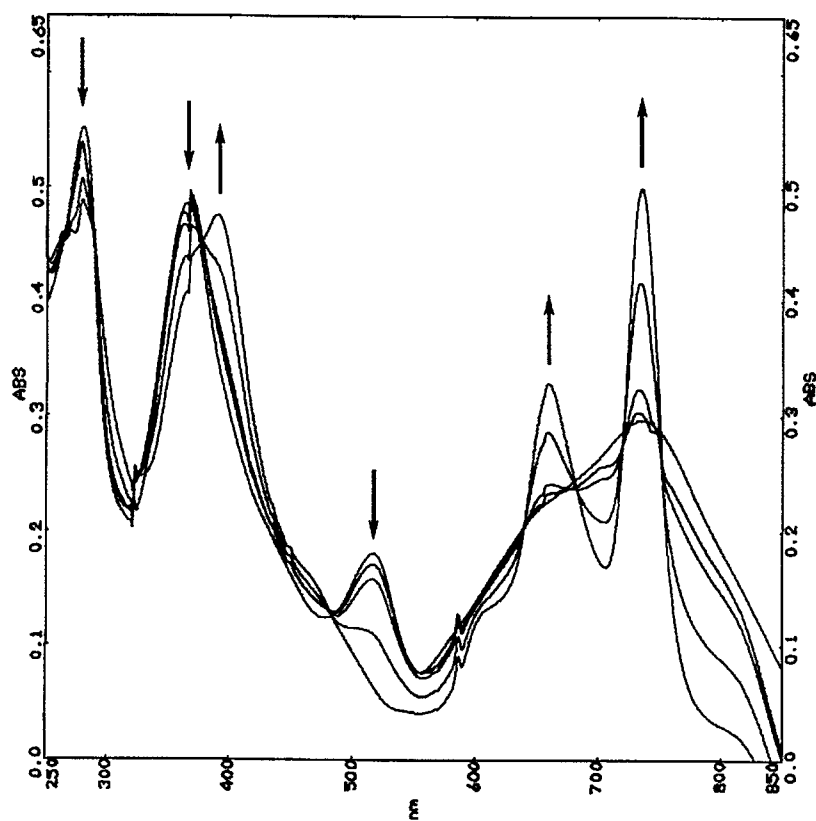


Figure 13: Norphthalocyanine 3 titrated with CdCl_2 (0, 1, 2, 10, 100 equiv).

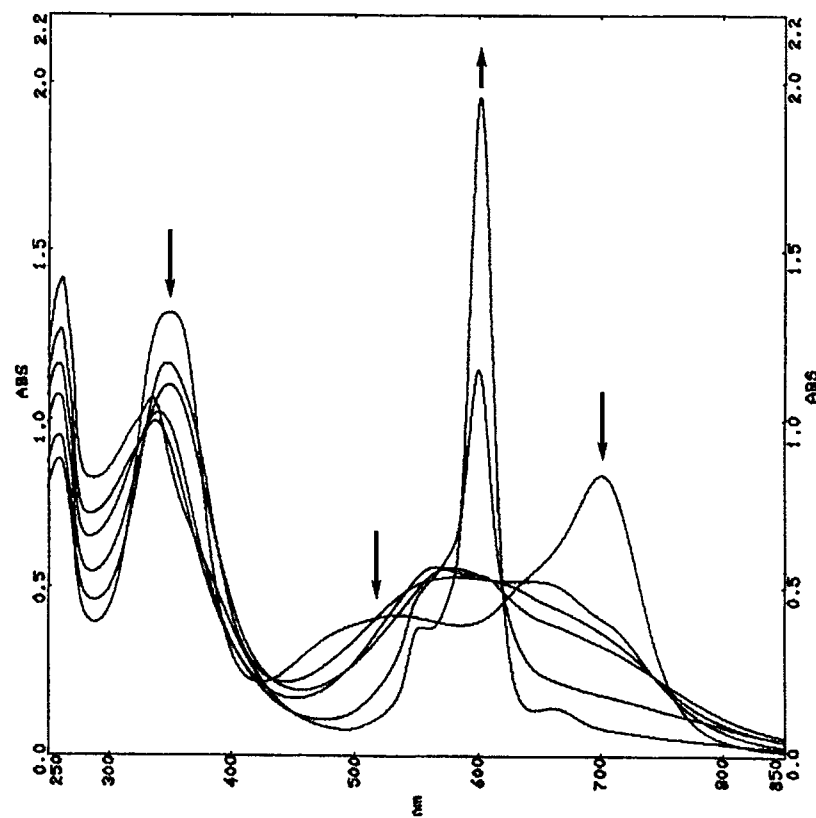


Figure 14: Porphyrizine 4 titrated with CuCl_2 (0, 1, 2, 3, 4, 6 equiv).

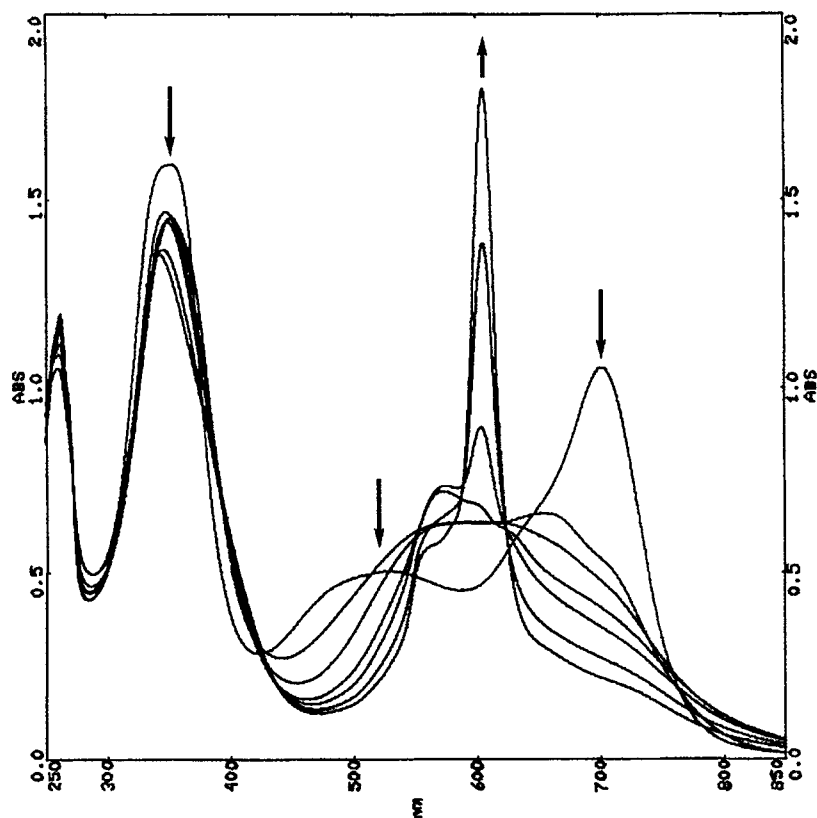


Figure 15: Porphyrzine 4 titrated with $\text{Zn}(\text{ClO}_4)_2$ (0, 1, 2, 3, 4, 6, 8 equiv).

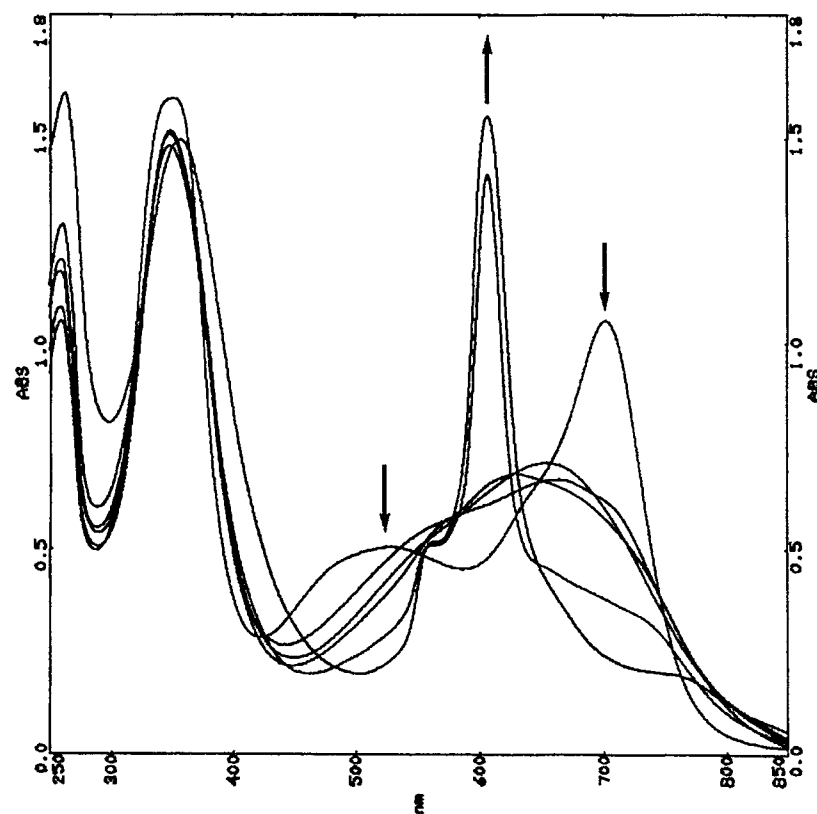


Figure 16: Porphyrzine 4 titrated with $\text{Hg}(\text{ClO}_4)_2$ (0, 1, 2, 3, 4, 6 equiv).

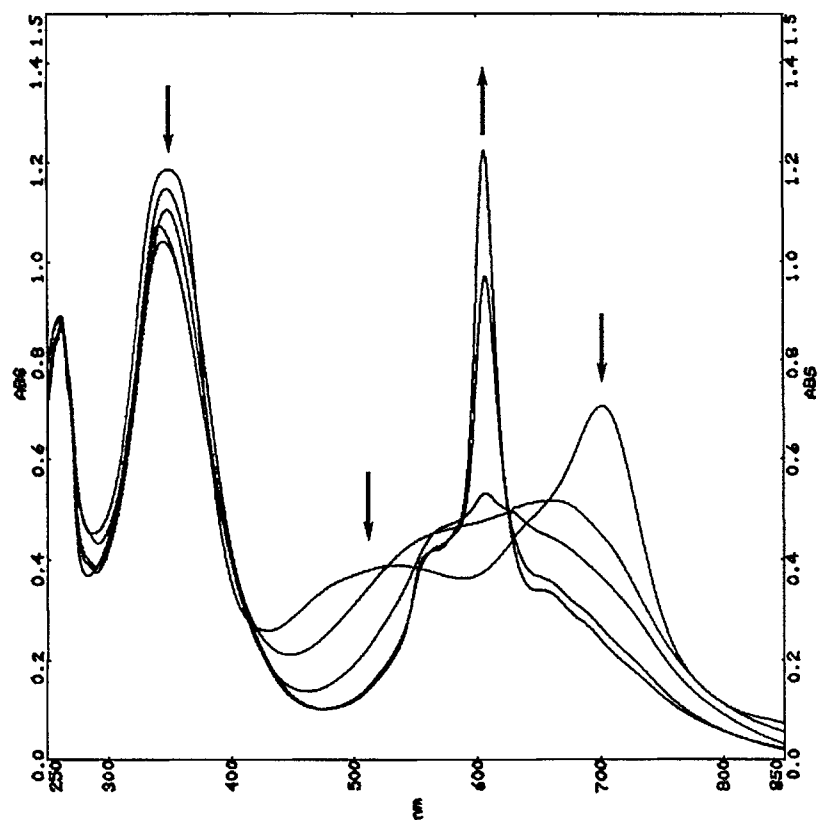


Figure 17: Porphyrazine 4 titrated with CdCl_2 (0, 1, 2, 3, 4 equiv).

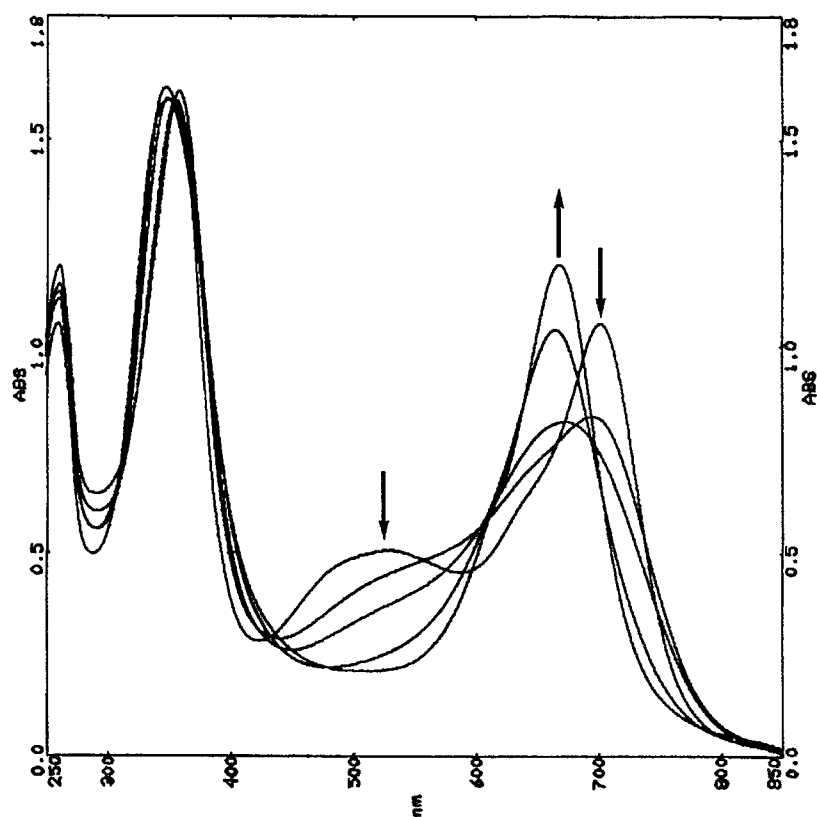


Figure 18: Porphyrazine 4 titrated with AgBF_4 (0, 1, 2, 4, 6 equiv).

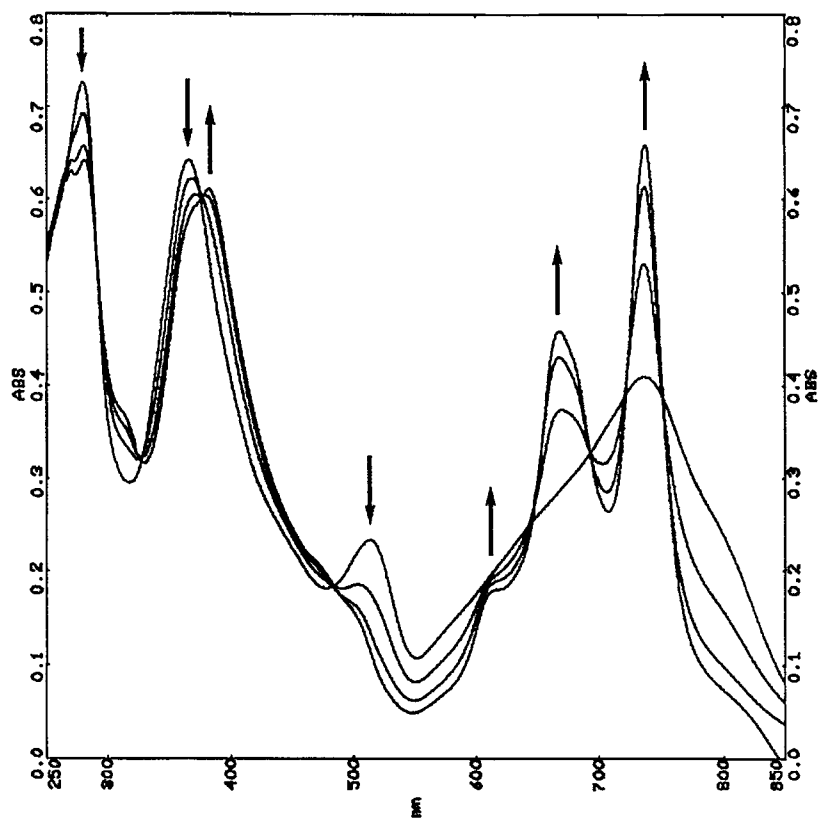


Figure 19: Norphthalocyanine **5** titrated with CdCl_2 (0.0, 0.25, 0.50, 1.0 equiv).

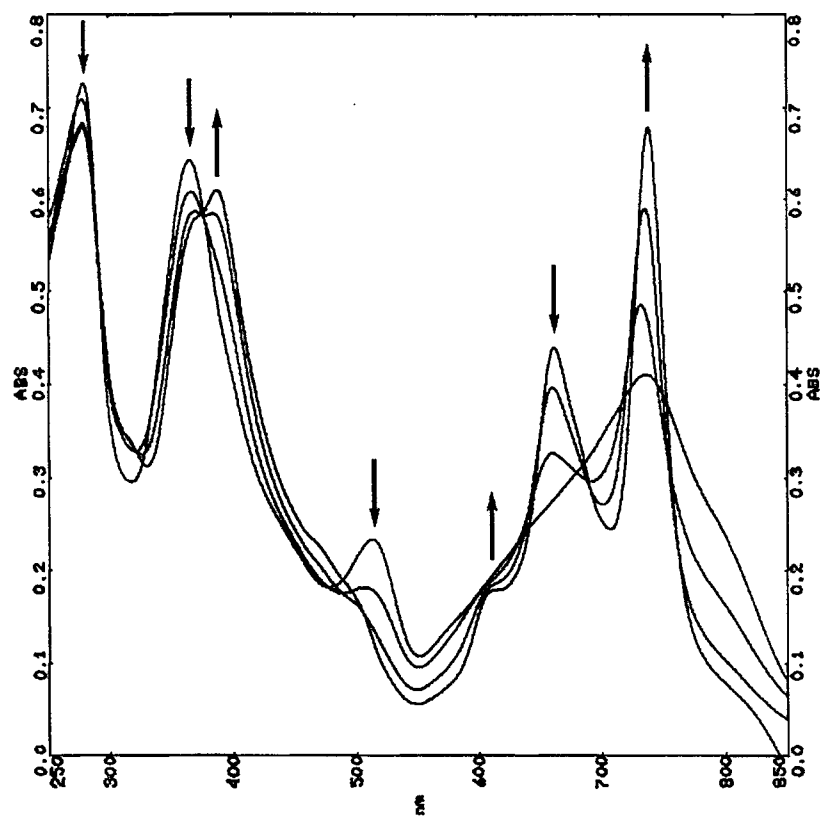


Figure 20: Norphthalocyanine **5** titrated with $\text{Co}(\text{BF}_4)_2$ (0.0, 0.25, 0.50, 1.0 equiv).

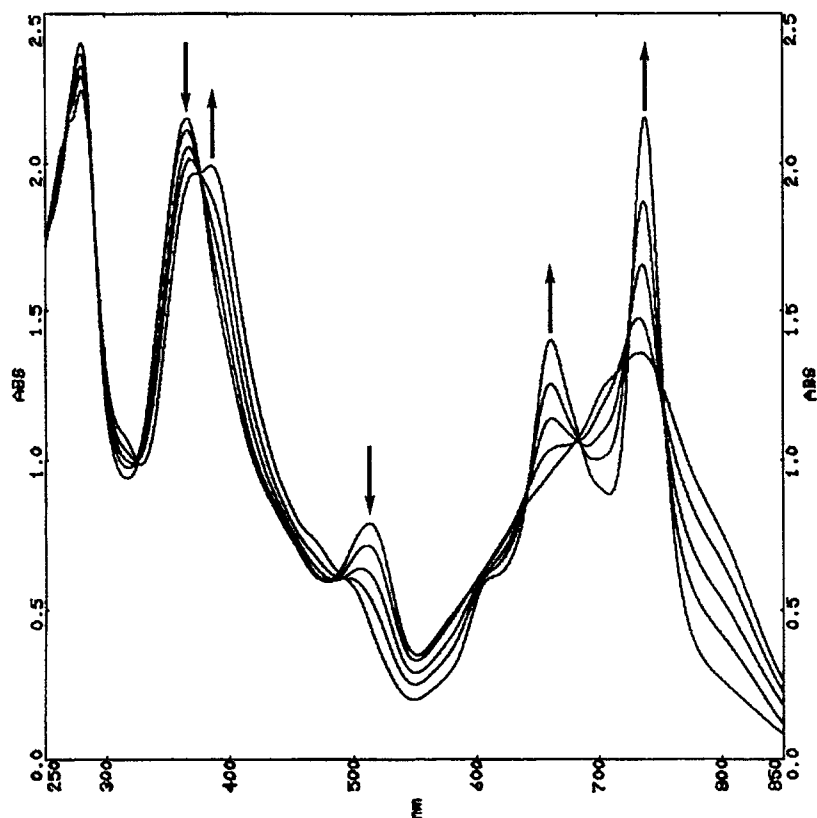


Figure 21: Norphthalocyanine **5** titrated with $\text{Zn}(\text{ClO}_4)_2$ (0.0, 0.50, 1.0, 1.5, 2.0 equiv).

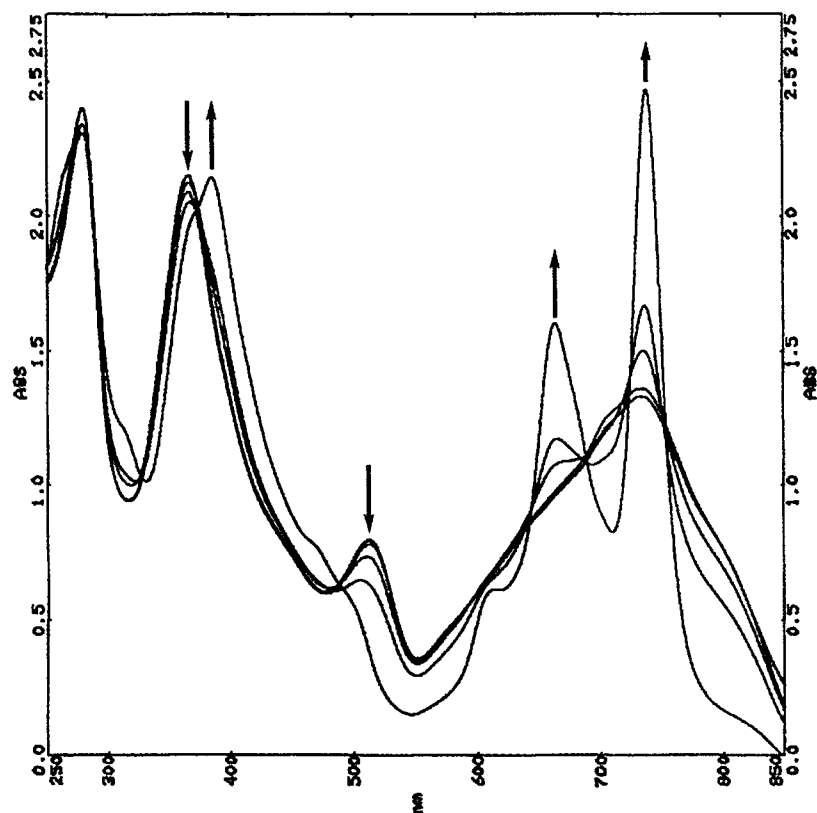


Figure 22: Norphthalocyanine **5** titrated with $\text{Hg}(\text{ClO}_4)_2$ (0.0, 0.50, 1.0, 1.5, 2.0 equiv).

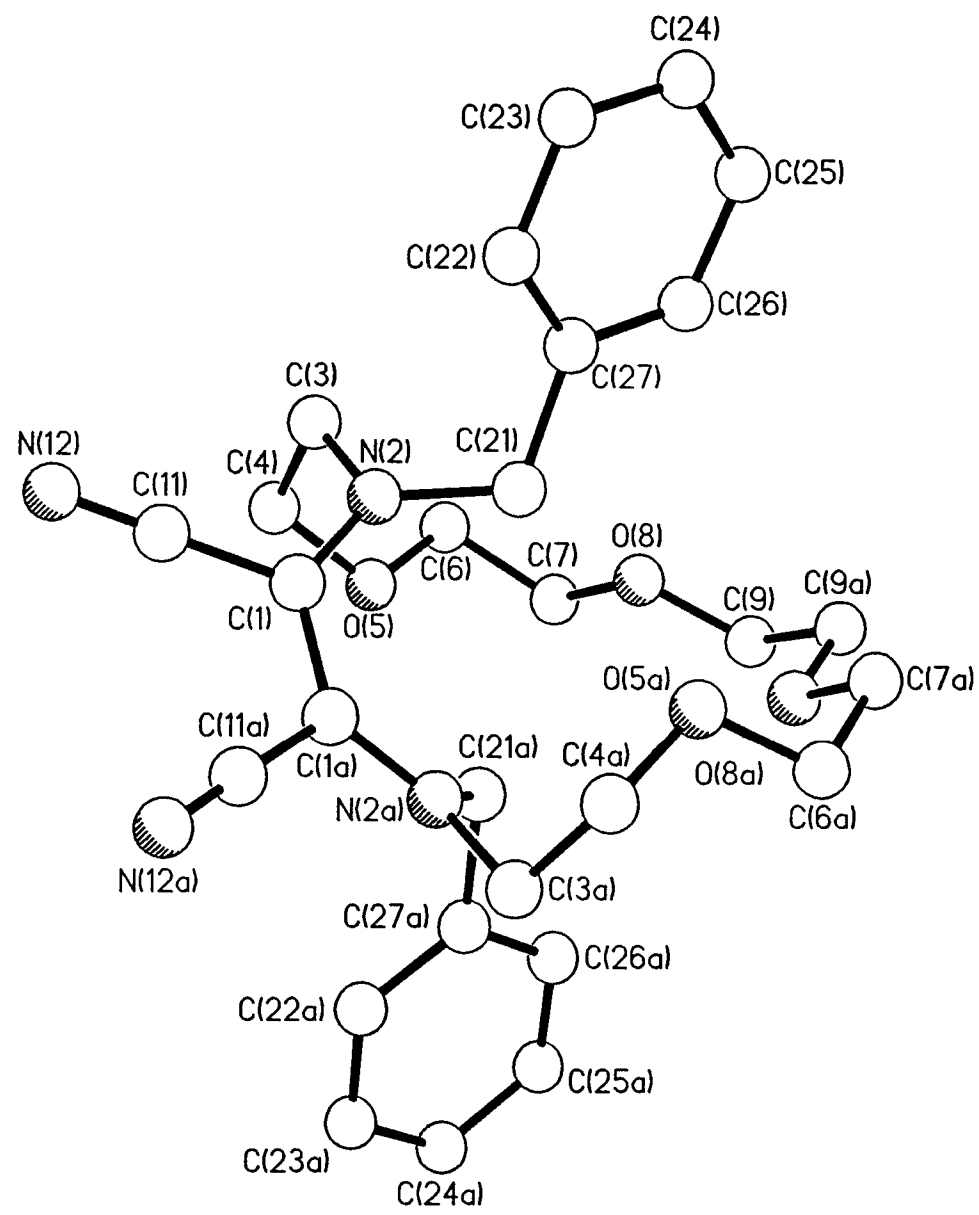


Table 1. Crystal data and structure refinement for 1.

Identification code	AGMB19
Empirical formula	$C_{28}H_{34}N_4O_4$
Formula weight	490.59
Temperature	293(2) K
Diffractometer Used	Siemens P4/PC
Wavelength	1.54178 Å
Crystal system	Monoclinic
Space group	C2/c
Unit cell dimensions	$a = 14.203(3)$ Å $\alpha = 90^\circ$ $b = 11.753(3)$ Å $\beta = 112.13(2)^\circ$ $c = 16.923(5)$ Å $\gamma = 90^\circ$
Volume, Z	$2616.9(12)$ Å ³ , 4
Density (calculated)	1.245 Mg/m ³
Absorption coefficient	0.680 mm ⁻¹
F(000)	1048
Crystal colour/morphology	Yellow cubes
Crystal size	0.37 x 0.33 x 0.33 mm
θ range for data collection	5.05 to 62.49°
Limiting indices	$-16 \leq h \leq 15$, $0 \leq k \leq 13$, $0 \leq l \leq 19$
Scan type	ω -scans
Reflections collected	2097
Independent reflections	2097 ($R_{int} = 0.0000$)
Observed reflections [$F > 4\sigma(F)$]	1799
Absorption correction	None
Structure solution method	Direct
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	2050 / 0 / 152
Goodness-of-fit on F^2	1.058
Final R indices [$F > 4\sigma(F)$]	$R1 = 0.0928$, $wR2 = 0.2550$
R indices (all data)	$R1 = 0.1012$, $wR2 = 0.2888$
Extinction coefficient	$0.0035(8)$
Largest diff. peak and hole	0.507 and -0.439 eÅ ⁻³
Mean and maximum shift/error	0.000 and 0.000

Table 2. Atomic coordinates [$\times 10^4$], equivalent isotropic displacement parameters [$\text{\AA}^2 \times 10^3$] and site occupancy factors for 1. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	$U(\text{eq})$	sof
C(1)	502(2)	2538(2)	2528(2)	34(1)	1
N(2)	1147(2)	1630(2)	2641(1)	39(1)	1
C(3)	1840(2)	1568(3)	2183(2)	54(1)	1
C(4)	1294(3)	1361(4)	1244(2)	75(1)	1
O(5)	667(2)	387(3)	1072(1)	78(1)	1
C(6)	1156(3)	-661(5)	1049(3)	97(2)	1
C(7)	508(4)	-1621(5)	1098(3)	104(2)	1
O(8)	552(2)	-1729(2)	1946(2)	90(1)	1
C(9)	-6(4)	-2679(3)	2066(3)	115(2)	1
C(11)	908(2)	3630(2)	2442(2)	47(1)	1
N(12)	1232(2)	4491(2)	2367(3)	77(1)	1
C(21)	1117(2)	656(2)	3164(2)	39(1)	1
C(22)	2677(2)	1361(1)	4385(1)	65(1)	1
C(23)	3555(2)	1147(2)	5095(1)	86(1)	1
C(24)	3858(2)	33(2)	5333(1)	82(1)	1
C(25)	3283(2)	-867(2)	4862(2)	88(1)	1
C(26)	2405(2)	-654(1)	4152(1)	67(1)	1
C(27)	2102(1)	461(2)	3914(1)	38(1)	1

Table 3. Bond lengths [Å] and angles [°] for 1.

C(1)-N(2)	1.373(3)	C(1)-C(1)#1	1.394(5)
C(1)-C(11)	1.436(4)	N(2)-C(21)	1.457(3)
N(2)-C(3)	1.465(3)	C(3)-C(4)	1.503(5)
C(4)-O(5)	1.412(5)	O(5)-C(6)	1.421(5)
C(6)-C(7)	1.478(7)	C(7)-O(8)	1.418(6)
O(8)-C(9)	1.428(6)	C(9)-C(9)#1	1.461(12)
C(11)-N(12)	1.138(4)	C(21)-C(27)	1.511(3)
N(2)-C(1)-C(1)#1	128.42(14)	N(2)-C(1)-C(11)	115.9(2)
C(1)#1-C(1)-C(11)	115.67(14)	C(1)-N(2)-C(21)	121.7(2)
C(1)-N(2)-C(3)	120.7(2)	C(21)-N(2)-C(3)	117.5(2)
N(2)-C(3)-C(4)	112.7(3)	O(5)-C(4)-C(3)	112.5(3)
C(4)-O(5)-C(6)	115.6(3)	O(5)-C(6)-C(7)	109.8(3)
O(8)-C(7)-C(6)	109.5(3)	C(7)-O(8)-C(9)	113.5(3)
O(8)-C(9)-C(9)#1	110.3(3)	N(12)-C(11)-C(1)	179.3(4)
N(2)-C(21)-C(27)	113.6(2)	C(26)-C(27)-C(21)	118.3(2)
C(22)-C(27)-C(21)	121.6(2)		

Symmetry transformations used to generate equivalent atoms:

#1 -x,y,-z+1/2

Table 4. Anisotropic displacement parameters [$\text{\AA}^2 \times 10^3$] for 1.

The anisotropic displacement factor exponent takes the form:

$$-2\pi^2 [(ha^*)^2 U_{11} + \dots + 2hka^*b^* U_{12}]$$

	U11	U22	U33	U23	U13	U12
C(1)	28(1)	35(1)	33(1)	2(1)	4(1)	0(1)
N(2)	34(1)	45(1)	38(1)	7(1)	14(1)	10(1)
C(3)	43(2)	71(2)	54(2)	11(2)	25(1)	14(1)
C(4)	69(2)	113(3)	51(2)	16(2)	30(2)	26(2)
O(5)	57(2)	122(2)	49(1)	-19(1)	13(1)	30(2)
C(6)	65(3)	139(4)	75(3)	-48(3)	14(2)	32(3)
C(7)	74(3)	131(4)	82(3)	-66(3)	2(2)	23(3)
O(8)	92(2)	66(2)	75(2)	-28(1)	-13(2)	11(1)
C(9)	112(4)	51(2)	112(4)	-21(2)	-36(3)	15(2)
C(11)	26(1)	47(2)	58(2)	8(1)	6(1)	-1(1)
N(12)	49(2)	52(2)	122(3)	18(2)	23(2)	-12(1)
C(21)	34(1)	37(1)	39(1)	3(1)	6(1)	1(1)
C(22)	60(2)	60(2)	52(2)	8(2)	-6(2)	-11(2)
C(23)	63(2)	108(3)	57(2)	10(2)	-11(2)	-28(2)
C(24)	56(2)	119(4)	53(2)	24(2)	-2(2)	22(2)
C(25)	87(3)	84(3)	64(2)	15(2)	-2(2)	39(2)
C(26)	72(2)	54(2)	57(2)	3(2)	4(2)	19(2)
C(27)	34(1)	44(1)	32(1)	3(1)	10(1)	3(1)

Table 5. Hydrogen coordinates ($\times 10^4$), isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) and site occupancy factors for 1.

	x	y	z	U(eq)	sof
H(3A)	2325(2)	960(3)	2424(2)	65	1
H(3B)	2216(2)	2276(3)	2265(2)	65	1
H(4A)	880(3)	2020(4)	988(2)	90	1
H(4B)	1790(3)	1271(4)	982(2)	90	1
H(6A)	1805(3)	-697(5)	1524(3)	116	1
H(6B)	1280(3)	-711(5)	524(3)	116	1
H(7A)	-188(4)	-1488(5)	713(3)	125	1
H(7B)	742(4)	-2319(5)	926(3)	125	1
H(9A)	293(4)	-3379(3)	1966(3)	137	1
H(9B)	-702(4)	-2641(3)	1660(3)	137	1
H(21A)	956(2)	-21(2)	2810(2)	47	1
H(21B)	576(2)	769(2)	3374(2)	47	1
H(22A)	2474(2)	2107(1)	4226(1)	78	1
H(23A)	3939(2)	1749(3)	5410(2)	103	1
H(24A)	4445(2)	-110(3)	5808(2)	99	1
H(25A)	3486(3)	-1613(2)	5021(2)	105	1
H(26A)	2020(2)	-1256(2)	3837(2)	80	1

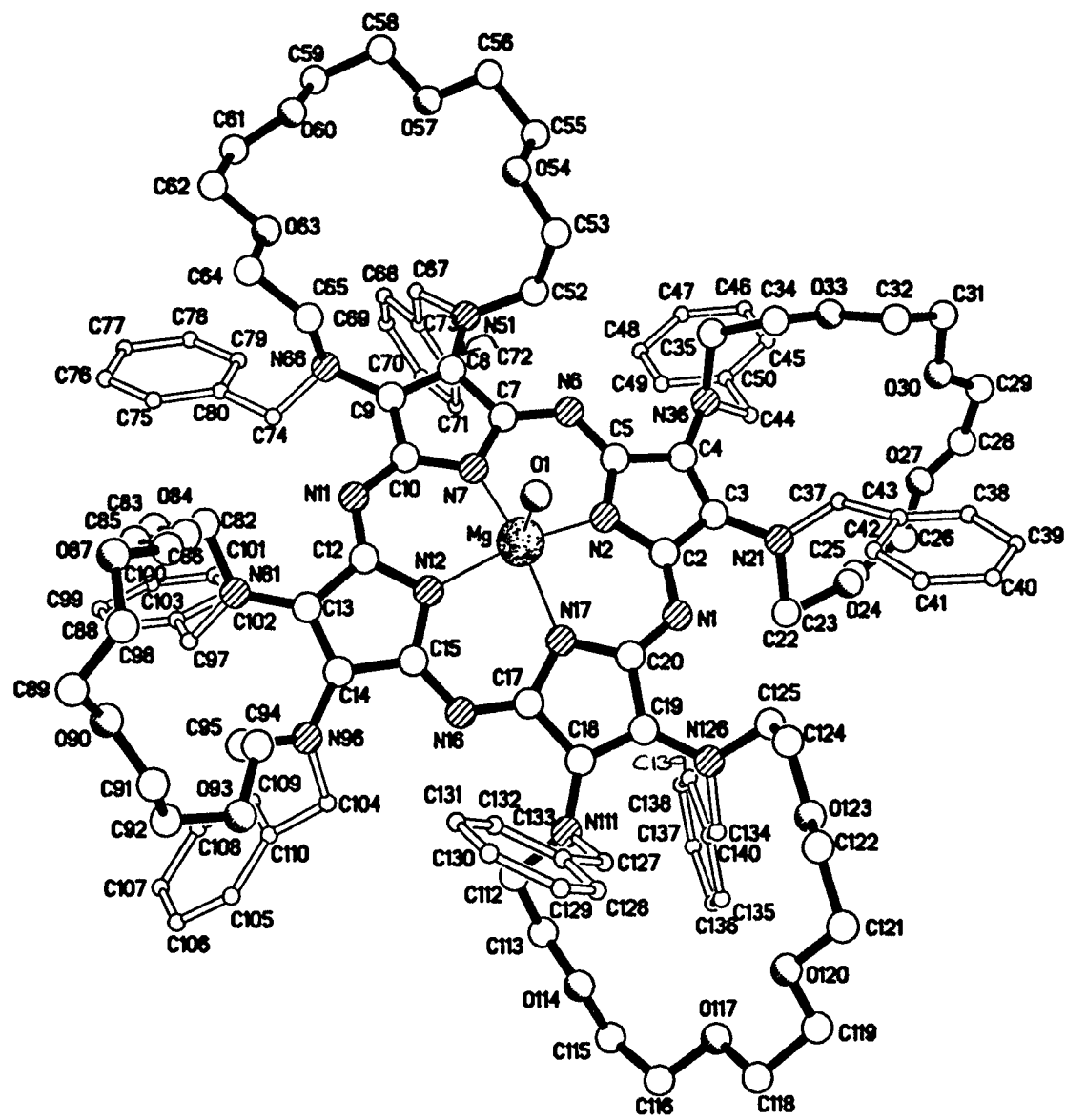


Table 1. Crystal data and structure refinement for 1.

Identification code	AB9521
Empirical formula	$C_{112}H_{136}N_{16}O_{17}Mg \cdot 0.75MeCO_2Et$
Formula weight	2068.76
Temperature	203(2) K
Diffractometer Used	Siemens P4/PC
Wavelength	1.54178 Å
Crystal system	Monoclinic
Space group	$P2_1/n$
Unit cell dimensions	$a = 24.419(9)$ Å $\alpha = 90^\circ$ $b = 17.824(8)$ Å $\beta = 99.43(3)^\circ$ $c = 25.512(10)$ Å $\gamma = 90^\circ$
Volume, Z	$10954(7)$ Å ³ , 4
Density (calculated)	1.254 Mg/m ³
Absorption coefficient	0.746 mm ⁻¹
F(000)	4416
Crystal colour/morphology	Deep red blocks
Crystal size	$0.43 \times 0.33 \times 0.27$ mm
θ range for data collection	2.32 to 56.08°
Limiting indices	$0 \leq h \leq 26$, $0 \leq k \leq 19$, $-27 \leq l \leq 27$
Scan type	ω -scans
Reflections collected	14673
Independent reflections	14288 ($R_{int} = 0.0692$)
Observed reflections [$F > 4\sigma(F)$]	7682
Absorption correction	None
Structure solution method	Direct
Refinement method	Full-matrix-block least-squares on F^2
Data / restraints / parameters	12172 / 673 / 1328
Goodness-of-fit on F^2	1.042
Final R indices [$F > 4\sigma(F)$]	$R1 = 0.1481$, $wR2 = 0.4019$
R indices (all data)	$R1 = 0.2208$, $wR2 = 0.5143$
Extinction coefficient	$0.00045(13)$
Largest diff. peak and hole	0.848 and -0.578 eÅ ⁻³
Mean and maximum shift/error	0.118 and -0.738

Table 2. Atomic coordinates [$\times 10^4$], equivalent isotropic displacement parameters [$\text{\AA}^2 \times 10^3$] and site occupancy factors for 1. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)	sof
Mg	8833(1)	5075(2)	1066(1)	52(1)	1
O(1)	8820(2)	6000(4)	615(2)	70(2)	1
N(1)	8933(3)	5872(4)	2290(3)	61(2)	1
C(2)	9401(4)	5623(5)	2147(3)	62(2)	1
N(2)	9450(3)	5251(4)	1691(2)	56(2)	1
C(3)	9955(4)	5708(6)	2480(3)	73(3)	1
C(4)	10312(4)	5410(6)	2195(3)	72(3)	1
C(5)	9996(4)	5113(5)	1707(3)	62(2)	1
N(6)	10226(3)	4707(4)	1360(3)	63(2)	1
C(7)	9937(3)	4334(5)	947(3)	57(2)	1
N(7)	9378(3)	4352(4)	803(2)	54(2)	1
C(8)	10188(3)	3813(5)	597(4)	60(2)	1
C(9)	9736(3)	3525(5)	256(3)	55(2)	1
C(10)	9246(4)	3868(5)	385(3)	59(2)	1
N(11)	8727(3)	3715(4)	117(3)	57(2)	1
C(12)	8267(3)	3954(5)	259(3)	54(2)	1
N(12)	8224(3)	4424(4)	685(2)	52(2)	1
C(13)	7713(3)	3690(5)	11(3)	62(2)	1
C(14)	7349(3)	3971(6)	327(4)	71(3)	1
C(15)	7666(3)	4427(5)	733(3)	58(2)	1
N(16)	7439(3)	4788(4)	1110(3)	58(2)	1
C(17)	7732(3)	5194(4)	1495(3)	54(2)	1
N(17)	8305(3)	5296(4)	1577(3)	57(2)	1
C(18)	7484(4)	5586(5)	1899(3)	58(2)	1
C(19)	7915(4)	5945(5)	2218(3)	63(2)	1
C(20)	8424(4)	5735(5)	2023(3)	59(2)	1
N(21)	10026(4)	6077(6)	2977(3)	98(3)	1
C(22)	9689(5)	5805(10)	3405(5)	123(5)	1
C(23)	9962(7)	5179(9)	3769(6)	131(5)	1
O(24)	10423(8)	5610(11)	4096(8)	237(7)	1
C(25)	10778(14)	5134(21)	4435(15)	336(24)	1
C(26)	11215(14)	5514(18)	4639(12)	242(14)	1
O(27)	11507(9)	5977(12)	4360(8)	261(11)	1
C(28)	11909(12)	6361(18)	4464(12)	234(12)	1
C(29)	12122(8)	6898(11)	4162(7)	149(6)	1
O(30)	11885(7)	6959(11)	3645(5)	225(8)	1
C(31)	12118(10)	7347(15)	3292(7)	234(14)	1
C(32)	11683(10)	7436(14)	2759(8)	212(10)	1
O(33)	11690(4)	6671(7)	2548(4)	147(4)	1
C(34)	11299(5)	6582(9)	2077(4)	105(4)	1
C(35)	11231(4)	5736(8)	1972(4)	90(3)	1
N(36)	10910(3)	5330(6)	2314(3)	96(3)	1
C(37)	10452(8)	6571(10)	3185(6)	153(7)	1
C(38)	10566(6)	7843(9)	3728(5)	249(13)	1
C(39)	10311(9)	8510(7)	3835(6)	243(14)	1
C(40)	9805(9)	8712(8)	3536(9)	349(24)	1
C(41)	9553(6)	8246(11)	3130(9)	358(26)	1
C(42)	9807(7)	7579(9)	3022(6)	250(14)	1
C(43)	10314(7)	7377(7)	3321(5)	155(7)	1
C(44)	11179(6)	5224(8)	2859(5)	116(4)	1
C(45)	12142(5)	4716(8)	3126(5)	220(11)	1
C(46)	12532(4)	4148(12)	3123(7)	237(11)	1
C(47)	12382(7)	3482(10)	2854(8)	293(17)	1

C(48)	11842(8)	3384(7)	2588(7)	258(14)	1
C(49)	11453(5)	3952(8)	2591(5)	204(10)	1
C(50)	11603(5)	4619(7)	2860(5)	126(5)	1
N(51)	10746(3)	3640(4)	655(3)	60(2)	1
C(52)	11197(4)	4041(6)	1040(4)	87(3)	1
C(53)	11449(5)	4655(7)	780(4)	90(3)	1
O(54)	11754(3)	4410(4)	366(3)	88(2)	1
C(55)	12303(4)	4147(7)	560(5)	98(4)	1
C(56)	12572(4)	3854(7)	91(5)	91(3)	1
O(57)	12273(3)	3236(4)	-119(3)	87(2)	1
C(58)	12458(4)	2974(7)	-576(5)	94(3)	1
C(59)	12118(5)	2293(8)	-803(5)	111(4)	1
O(60)	11587(3)	2560(5)	-1015(3)	102(2)	1
C(61)	11216(5)	1974(7)	-1176(5)	98(4)	1
C(62)	10650(4)	2330(6)	-1391(4)	85(3)	1
O(63)	10484(2)	2728(4)	-964(2)	71(2)	1
C(64)	9955(4)	3039(5)	-1125(3)	65(2)	1
C(65)	9794(4)	3474(5)	-669(3)	68(2)	1
N(66)	9759(3)	3034(4)	-191(3)	61(2)	1
C(67)	10934(4)	2939(5)	451(4)	63(2)	1
C(68)	11290(3)	1680(4)	736(2)	94(3)	1
C(69)	11375(3)	1093(3)	1099(3)	113(4)	1
C(70)	11181(4)	1147(4)	1580(3)	97(3)	1
C(71)	10901(3)	1789(4)	1699(2)	94(3)	1
C(72)	10816(3)	2376(3)	1336(3)	86(3)	1
C(73)	11010(3)	2321(3)	855(2)	57(2)	1
C(74)	9333(4)	2454(5)	-264(5)	86(3)	1
C(75)	9154(3)	1418(5)	-925(3)	108(4)	1
C(76)	9291(5)	742(5)	-1142(3)	144(6)	1
C(77)	9777(5)	372(4)	-927(5)	160(8)	1
C(78)	10126(4)	678(5)	-494(6)	227(14)	1
C(79)	9989(3)	1354(5)	-277(4)	149(7)	1
C(80)	9503(3)	1724(3)	-492(3)	79(3)	1
N(81)	7599(3)	3194(4)	-423(3)	75(2)	1
C(82)	7857(3)	3289(6)	-901(3)	77(3)	1
C(83)	7469(5)	3492(6)	-1381(4)	112(4)	1
O(84)	7318(4)	4236(5)	-1415(4)	127(3)	1
C(85)	6936(7)	4416(8)	-1869(6)	167(8)	1
C(86)	6776(8)	5194(9)	-1913(6)	225(12)	1
O(87)	6404(5)	5363(7)	-2368(4)	176(5)	1
C(88)	5912(7)	5663(10)	-2253(9)	212(9)	1
C(89)	5490(8)	5094(16)	-2234(10)	335(9)	1
O(90)	5587(14)	4720(19)	-1756(13)	337(9)	0.50
C(91)	5327(27)	5005(29)	-1361(12)	335(9)	0.50
C(92)	5345(17)	4459(28)	-937(12)	337(9)	0.50
O(93)	5650(20)	4700(24)	-466(11)	336(9)	0.50
C(94)	6210(17)	4596(29)	-453(21)	336(9)	0.50
C(95)	6387(22)	3861(25)	-256(14)	334(9)	0.50
O(90')	5661(12)	4572(21)	-1846(16)	338(9)	0.50
C(91')	5219(17)	4179(25)	-1708(12)	333(9)	0.50
C(92')	5267(13)	4164(32)	-1135(12)	336(9)	0.50
O(93')	5753(16)	3819(21)	-912(14)	336(9)	0.50
C(94')	5954(19)	4127(40)	-419(16)	338(9)	0.50
C(95')	6547(14)	4002(46)	-310(8)	334(9)	0.50
N(96)	6765(4)	3894(8)	261(4)	151(6)	1
C(97)	7269(4)	2524(6)	-391(4)	84(3)	1
C(98)	7416(4)	1158(5)	-527(4)	177(8)	1
C(99)	7714(5)	496(4)	-417(5)	197(10)	1
C(100)	8194(4)	490(5)	-40(4)	132(5)	1
C(101)	8377(3)	1146(6)	228(3)	108(4)	1
C(102)	8079(4)	1808(4)	118(3)	97(4)	1
C(103)	7599(3)	1814(4)	-259(3)	89(3)	1

C(104)	6544(7)	3624(11)	736(7)	196(10)	1
C(105)	5692(4)	2826(8)	517(7)	281(16)	1
C(106)	5458(5)	2116(11)	434(8)	270(15)	1
C(107)	5797(9)	1485(8)	480(6)	248(16)	1
C(108)	6370(8)	1564(8)	609(5)	245(17)	1
C(109)	6604(4)	2274(11)	691(4)	164(9)	1
C(110)	6265(5)	2905(8)	645(5)	131(5)	1
N(111)	6922(3)	5616(4)	1933(3)	64(2)	1
C(112)	6600(4)	4949(5)	1929(4)	71(3)	1
C(113)	6456(4)	4727(6)	2464(4)	79(3)	1
O(114)	6101(3)	5260(4)	2633(3)	83(2)	1
C(115)	5971(5)	5117(7)	3147(5)	101(4)	1
C(116)	5709(6)	5800(8)	3316(5)	106(4)	1
O(117)	6080(4)	6394(5)	3397(3)	106(2)	1
C(118)	5790(8)	7086(9)	3450(6)	138(6)	1
C(119)	6195(8)	7731(10)	3493(6)	143(6)	1
O(120)	6369(4)	7824(5)	3005(3)	104(2)	1
C(121)	6678(6)	8501(7)	2998(6)	120(5)	1
C(122)	7087(6)	8409(6)	2646(6)	105(4)	1
O(123)	7484(3)	7856(4)	2856(3)	102(2)	1
C(124)	7895(5)	7740(6)	2544(6)	105(4)	1
C(125)	8214(4)	7059(6)	2751(5)	93(3)	1
N(126)	7910(4)	6363(4)	2676(3)	78(2)	1
C(127)	6653(4)	6339(5)	1948(4)	80(3)	1
C(128)	6071(4)	7296(4)	1404(4)	144(7)	1
C(129)	5793(4)	7580(4)	926(5)	191(11)	1
C(130)	5791(4)	7182(6)	457(4)	161(8)	1
C(131)	6068(4)	6500(6)	466(3)	121(5)	1
C(132)	6347(3)	6216(4)	944(4)	106(4)	1
C(133)	6348(3)	6614(4)	1413(3)	91(3)	1
C(134)	7571(5)	6145(6)	3056(4)	91(3)	1
C(135)	7499(3)	5261(4)	3804(3)	96(3)	1
C(136)	7668(3)	4634(5)	4112(3)	126(5)	1
C(137)	8120(3)	4216(4)	4013(3)	99(4)	1
C(138)	8404(3)	4424(4)	3606(3)	86(3)	1
C(139)	8235(3)	5051(4)	3298(2)	85(3)	1
C(140)	7783(3)	5470(3)	3396(2)	77(3)	1
C(141)	4194(10)	8156(16)	807(14)	207(13)	0.75
C(142)	4168(11)	8084(19)	1369(9)	180(13)	0.75
O(143)	4615(7)	8371(9)	1693(6)	148(5)	0.75
C(144)	4832(11)	8163(13)	2143(11)	145(9)	0.75
O(145)	4713(10)	7552(12)	2301(7)	209(8)	0.75
C(146)	5206(10)	8656(12)	2481(9)	162(10)	0.75

Table 3. Bond lengths [$\text{\AA}$] and angles [$^{\circ}$] for 1.

Mg-N(12)	2.008(7)	Mg-O(1)	2.006(7)
Mg-N(17)	2.017(7)	Mg-N(2)	2.031(7)
Mg-N(7)	2.042(7)	N(1)-C(2)	1.331(11)
N(1)-C(20)	1.337(11)	C(2)-N(2)	1.361(11)
C(2)-C(3)	1.483(12)	N(2)-C(5)	1.352(11)
C(3)-C(4)	1.334(13)	C(3)-N(21)	1.413(9)
C(4)-N(36)	1.449(9)	C(4)-C(5)	1.452(12)
C(5)-N(6)	1.336(11)	N(6)-C(7)	1.344(11)
C(7)-N(7)	1.354(10)	C(7)-C(8)	1.489(12)
N(7)-C(10)	1.368(11)	C(8)-N(51)	1.382(8)
C(8)-C(9)	1.386(12)	C(9)-C(10)	1.430(11)
C(9)-N(66)	1.446(8)	C(10)-N(11)	1.367(11)
N(11)-C(12)	1.307(10)	C(12)-N(12)	1.390(10)
C(12)-C(13)	1.475(11)	N(12)-C(15)	1.386(10)
C(13)-C(14)	1.386(11)	C(13)-N(81)	1.408(9)
C(14)-N(96)	1.416(9)	C(14)-C(15)	1.438(12)
C(15)-N(16)	1.350(10)	N(16)-C(17)	1.331(10)
C(17)-N(17)	1.391(10)	C(17)-C(18)	1.457(11)
N(17)-C(20)	1.373(10)	C(18)-C(19)	1.377(12)
C(18)-N(111)	1.390(8)	C(19)-N(126)	1.387(8)
C(19)-C(20)	1.462(12)	N(21)-C(37)	1.40(2)
N(21)-C(22)	1.55(2)	C(22)-C(23)	1.53(2)
C(23)-O(24)	1.50(2)	O(24)-C(25)	1.40(3)
C(25)-C(26)	1.30(4)	C(26)-O(27)	1.36(3)
O(27)-C(28)	1.19(3)	C(28)-C(29)	1.39(3)
C(29)-O(30)	1.35(2)	O(30)-C(31)	1.33(2)
C(31)-C(32)	1.59(3)	C(32)-O(33)	1.47(2)
O(33)-C(34)	1.418(13)	C(34)-C(35)	1.54(2)
C(35)-N(36)	1.456(13)	N(36)-C(44)	1.450(14)
C(37)-C(43)	1.53(2)	C(44)-C(50)	1.50(2)
N(51)-C(67)	1.455(11)	N(51)-C(52)	1.527(12)
C(52)-C(53)	1.47(2)	C(53)-O(54)	1.457(12)
O(54)-C(55)	1.428(11)	C(55)-C(56)	1.55(2)
C(56)-O(57)	1.379(12)	O(57)-C(58)	1.398(13)
C(58)-C(59)	1.53(2)	C(59)-O(60)	1.403(12)
O(60)-C(61)	1.400(13)	C(61)-C(62)	1.54(2)
C(62)-O(63)	1.413(11)	O(63)-C(64)	1.403(10)
C(64)-C(65)	1.505(12)	C(65)-N(66)	1.465(11)
N(66)-C(74)	1.456(11)	C(67)-C(73)	1.498(10)
C(74)-C(80)	1.511(11)	N(81)-C(97)	1.450(12)
N(81)-C(82)	1.472(8)	C(82)-C(83)	1.467(8)
C(83)-O(84)	1.375(8)	O(84)-C(85)	1.400(9)
C(85)-C(86)	1.440(10)	C(86)-O(87)	1.384(9)
O(87)-C(88)	1.390(9)	C(88)-C(89)	1.453(10)
C(89)-O(90')	1.373(11)	C(89)-O(90)	1.377(10)
O(90)-C(91)	1.374(10)	C(91)-C(92)	1.451(10)
C(92)-O(93)	1.376(10)	O(93)-C(94)	1.374(11)
C(94)-C(95)	1.443(11)	C(95)-N(96)	1.480(10)
O(90')-C(91')	1.379(10)	C(91')-C(92')	1.448(10)
C(92')-O(93')	1.375(10)	O(93')-C(94')	1.386(10)
C(94')-C(95')	1.447(11)	C(95')-N(96)	1.479(10)
N(96)-C(104)	1.49(2)	C(97)-C(103)	1.510(13)
C(104)-C(110)	1.45(2)	N(111)-C(112)	1.424(11)
N(111)-C(127)	1.450(11)	C(112)-C(113)	1.517(13)
C(113)-O(114)	1.400(11)	O(114)-C(115)	1.423(12)
C(115)-C(116)	1.47(2)	C(116)-O(117)	1.389(14)
O(117)-C(118)	1.44(2)	C(118)-C(119)	1.51(2)
C(119)-O(120)	1.39(2)	O(120)-C(121)	1.42(2)
C(121)-C(122)	1.46(2)	C(122)-O(123)	1.423(13)

O(123)-C(124)	1.395(13)	C(124)-C(125)	1.49(2)
C(125)-N(126)	1.442(13)	N(126)-C(134)	1.428(13)
C(127)-C(133)	1.525(12)	C(134)-C(140)	1.525(12)
N(12)-Mg-O(1)	104.9(3)	N(12)-Mg-N(17)	85.6(3)
O(1)-Mg-N(17)	105.0(3)	N(12)-Mg-N(2)	149.9(3)
O(1)-Mg-N(2)	105.2(3)	N(17)-Mg-N(2)	86.1(3)
N(12)-Mg-N(7)	87.0(3)	O(1)-Mg-N(7)	106.3(3)
N(17)-Mg-N(7)	148.7(3)	N(2)-Mg-N(7)	85.2(3)
C(2)-N(1)-C(20)	124.5(7)	N(1)-C(2)-N(2)	126.6(8)
N(1)-C(2)-C(3)	123.6(8)	N(2)-C(2)-C(3)	109.8(8)
C(5)-N(2)-C(2)	106.7(7)	C(5)-N(2)-Mg	126.7(6)
C(2)-N(2)-Mg	126.1(6)	C(4)-C(3)-N(21)	132.8(8)
C(4)-C(3)-C(2)	105.3(8)	N(21)-C(3)-C(2)	121.8(8)
C(3)-C(4)-N(36)	130.7(8)	C(3)-C(4)-C(5)	108.0(8)
N(36)-C(4)-C(5)	121.3(8)	N(6)-C(5)-N(2)	126.7(8)
N(6)-C(5)-C(4)	123.0(8)	N(2)-C(5)-C(4)	110.1(8)
C(5)-N(6)-C(7)	124.3(7)	N(7)-C(7)-N(6)	125.2(8)
N(7)-C(7)-C(8)	110.4(8)	N(6)-C(7)-C(8)	124.3(8)
C(7)-N(7)-C(10)	107.1(7)	C(7)-N(7)-Mg	127.5(6)
C(10)-N(7)-Mg	124.8(5)	N(51)-C(8)-C(9)	130.8(8)
N(51)-C(8)-C(7)	124.8(8)	C(9)-C(8)-C(7)	104.1(7)
C(8)-C(9)-C(10)	107.9(7)	C(8)-C(9)-N(66)	126.1(7)
C(10)-C(9)-N(66)	125.7(7)	N(11)-C(10)-N(7)	126.7(7)
N(11)-C(10)-C(9)	122.8(8)	N(7)-C(10)-C(9)	110.6(8)
C(12)-N(11)-C(10)	124.3(7)	N(11)-C(12)-N(12)	126.4(7)
N(11)-C(12)-C(13)	123.2(8)	N(12)-C(12)-C(13)	110.1(7)
C(12)-N(12)-C(15)	105.9(6)	C(12)-N(12)-Mg	125.5(5)
C(15)-N(12)-Mg	128.0(5)	C(14)-C(13)-N(81)	128.4(7)
C(14)-C(13)-C(12)	105.4(7)	N(81)-C(13)-C(12)	125.9(7)
C(13)-C(14)-N(96)	128.6(7)	C(13)-C(14)-C(15)	107.6(7)
N(96)-C(14)-C(15)	123.6(7)	N(16)-C(15)-N(12)	126.0(7)
N(16)-C(15)-C(14)	123.2(8)	N(12)-C(15)-C(14)	110.8(7)
C(17)-N(16)-C(15)	123.5(7)	N(16)-C(17)-N(17)	125.9(7)
N(16)-C(17)-C(18)	123.2(7)	N(17)-C(17)-C(18)	110.9(7)
C(20)-N(17)-C(17)	105.7(7)	C(20)-N(17)-Mg	125.1(6)
C(17)-N(17)-Mg	127.7(5)	C(19)-C(18)-N(111)	127.8(7)
C(19)-C(18)-C(17)	105.9(7)	N(111)-C(18)-C(17)	126.3(7)
C(18)-C(19)-N(126)	129.4(7)	C(18)-C(19)-C(20)	106.9(7)
N(126)-C(19)-C(20)	123.4(8)	N(1)-C(20)-N(17)	125.5(8)
N(1)-C(20)-C(19)	123.3(8)	N(17)-C(20)-C(19)	110.6(8)
C(37)-N(21)-C(3)	127.3(9)	C(37)-N(21)-C(22)	112.2(10)
C(3)-N(21)-C(22)	119.1(8)	C(23)-C(22)-N(21)	115.2(12)
O(24)-C(23)-C(22)	100.2(14)	C(25)-O(24)-C(23)	111(2)
O(24)-C(25)-C(26)	108(4)	O(27)-C(26)-C(25)	125(4)
C(28)-O(27)-C(26)	136(3)	O(27)-C(28)-C(29)	130(3)
O(30)-C(29)-C(28)	117(2)	C(29)-O(30)-C(31)	123(2)
O(30)-C(31)-C(32)	109(2)	O(33)-C(32)-C(31)	100(2)
C(34)-O(33)-C(32)	111.6(14)	O(33)-C(34)-C(35)	107.2(12)
N(36)-C(35)-C(34)	116.0(10)	C(44)-N(36)-C(4)	119.7(8)
C(44)-N(36)-C(35)	115.9(9)	C(4)-N(36)-C(35)	116.7(7)
N(21)-C(37)-C(43)	120(2)	C(42)-C(43)-C(37)	109.2(14)
C(38)-C(43)-C(37)	130.0(13)	N(36)-C(44)-C(50)	107.5(11)
C(49)-C(50)-C(44)	119.3(10)	C(45)-C(50)-C(44)	120.7(10)
C(8)-N(51)-C(67)	121.0(6)	C(8)-N(51)-C(52)	123.9(6)
C(67)-N(51)-C(52)	113.4(7)	C(53)-C(52)-N(51)	111.8(9)
O(54)-C(53)-C(52)	114.0(10)	C(55)-O(54)-C(53)	114.2(8)
O(54)-C(55)-C(56)	109.6(9)	O(57)-C(56)-C(55)	107.8(9)
C(56)-O(57)-C(58)	111.6(9)	O(57)-C(58)-C(59)	110.6(9)
O(60)-C(59)-C(58)	106.6(10)	C(61)-O(60)-C(59)	111.9(10)
O(60)-C(61)-C(62)	107.3(9)	O(63)-C(62)-C(61)	106.7(8)
C(62)-O(63)-C(64)	109.8(7)	O(63)-C(64)-C(65)	108.9(7)

N(66)-C(65)-C(64)	115.2(7)	C(9)-N(66)-C(74)	114.3(6)
C(9)-N(66)-C(65)	110.2(6)	C(74)-N(66)-C(65)	114.2(8)
N(51)-C(67)-C(73)	113.4(7)	C(72)-C(73)-C(67)	122.2(5)
C(68)-C(73)-C(67)	117.8(5)	N(66)-C(74)-C(80)	115.1(7)
C(79)-C(80)-C(74)	121.8(8)	C(75)-C(80)-C(74)	118.2(8)
C(13)-N(81)-C(97)	120.9(6)	C(13)-N(81)-C(82)	121.6(6)
C(97)-N(81)-C(82)	117.2(8)	C(83)-C(82)-N(81)	114.6(8)
O(84)-C(83)-C(82)	114.8(9)	C(83)-O(84)-C(85)	114.1(9)
O(84)-C(85)-C(86)	114.9(11)	O(87)-C(86)-C(85)	114.0(12)
C(86)-O(87)-C(88)	112.1(12)	O(87)-C(88)-C(89)	112.4(13)
O(90')-C(89)-C(88)	111(2)	O(90)-C(89)-C(88)	110(2)
C(91)-O(90)-C(89)	116(2)	O(90)-C(91)-C(92)	110(2)
O(93)-C(92)-C(91)	113(2)	C(94)-O(93)-C(92)	112(2)
O(93)-C(94)-C(95)	112(2)	C(94)-C(95)-N(96)	113(2)
C(89)-O(90')-C(91')	112(2)	O(90')-C(91')-C(92')	109(2)
O(93')-C(92')-C(91')	110(2)	C(92')-O(93')-C(94')	111(2)
O(93')-C(94')-C(95')	108(2)	C(94')-C(95')-N(96)	113(2)
C(14)-N(96)-C(95)	125(3)	C(14)-N(96)-C(95')	107(2)
C(14)-N(96)-C(104)	115.3(11)	C(95)-N(96)-C(104)	117(3)
C(95')-N(96)-C(104)	137(2)	N(81)-C(97)-C(103)	115.0(8)
C(102)-C(103)-C(97)	121.3(7)	C(98)-C(103)-C(97)	118.7(7)
C(110)-C(104)-N(96)	112.3(11)	C(109)-C(110)-C(104)	116.3(13)
C(105)-C(110)-C(104)	123.7(13)	C(18)-N(111)-C(112)	121.2(6)
C(18)-N(111)-C(127)	119.4(7)	C(112)-N(111)-C(127)	119.3(7)
N(111)-C(112)-C(113)	114.9(8)	O(114)-C(113)-C(112)	110.2(8)
C(113)-O(114)-C(115)	113.9(8)	O(114)-C(115)-C(116)	107.2(9)
O(117)-C(116)-C(115)	111.6(10)	C(116)-O(117)-C(118)	110.3(12)
O(117)-C(118)-C(119)	109.4(14)	O(120)-C(119)-C(118)	108.6(12)
C(119)-O(120)-C(121)	110.6(12)	O(120)-C(121)-C(122)	109.3(10)
O(123)-C(122)-C(121)	109.7(12)	C(124)-O(123)-C(122)	113.3(11)
O(123)-C(124)-C(125)	107.6(10)	N(126)-C(125)-C(124)	115.1(9)
C(19)-N(126)-C(134)	120.8(7)	C(19)-N(126)-C(125)	119.9(8)
C(134)-N(126)-C(125)	119.1(8)	N(111)-C(127)-C(133)	114.8(8)
C(132)-C(133)-C(127)	122.5(7)	C(128)-C(133)-C(127)	117.5(7)
N(126)-C(134)-C(140)	114.9(8)	C(139)-C(140)-C(134)	121.7(6)
C(135)-C(140)-C(134)	118.2(6)		

Table 4. Anisotropic displacement parameters [$\text{\AA}^2 \times 10^3$] for 1.

The anisotropic displacement factor exponent takes the form:

$$-2\pi^2 [(ha^*)^2 U_{11} + \dots + 2hka^* b^* U_{12}]$$

	U11	U22	U33	U23	U13	U12
Mg	48(1)	63(2)	46(1)	1(1)	7(1)	3(1)
O(1)	59(4)	81(4)	69(4)	13(3)	4(3)	-2(3)
N(1)	63(5)	58(4)	60(4)	-4(3)	4(4)	0(4)
C(2)	58(5)	71(6)	53(5)	-2(5)	2(4)	-9(5)
N(2)	48(4)	72(5)	48(4)	6(3)	5(3)	-3(3)
C(3)	86(7)	78(6)	49(5)	8(5)	-4(5)	-3(5)
C(4)	65(6)	104(8)	45(5)	5(5)	-1(4)	1(5)
C(5)	59(6)	67(6)	58(5)	5(4)	5(4)	3(5)
N(6)	55(4)	88(5)	44(4)	13(4)	5(3)	8(4)
C(7)	49(5)	69(6)	56(5)	13(4)	17(4)	6(4)
N(7)	48(4)	68(5)	46(4)	2(3)	10(3)	6(3)
C(8)	57(5)	51(5)	75(6)	21(4)	21(5)	6(4)
C(9)	51(5)	61(5)	58(5)	1(4)	26(4)	5(4)
C(10)	64(6)	65(6)	52(5)	8(4)	17(4)	4(4)
N(11)	57(4)	66(5)	52(4)	-1(3)	19(3)	10(4)
C(12)	49(5)	60(5)	55(5)	-1(4)	13(4)	7(4)
N(12)	45(4)	63(4)	48(4)	-3(3)	11(3)	-2(3)
C(13)	55(5)	69(6)	63(5)	-9(4)	12(4)	-8(4)
C(14)	47(5)	99(7)	70(6)	-32(5)	26(4)	-19(5)
C(15)	61(5)	60(5)	53(5)	-3(4)	7(4)	-2(4)
N(16)	50(4)	62(4)	64(4)	-12(4)	15(3)	-3(3)
C(17)	56(5)	50(5)	60(5)	2(4)	25(4)	5(4)
N(17)	66(5)	54(4)	52(4)	-3(3)	13(3)	6(3)
C(18)	68(6)	56(5)	52(5)	-1(4)	20(4)	4(4)
C(19)	78(6)	59(5)	56(5)	-7(4)	21(5)	5(5)
C(20)	68(6)	58(5)	50(5)	-1(4)	11(4)	-1(4)
N(21)	96(6)	138(8)	53(5)	-13(5)	-14(4)	-42(6)
C(22)	105(10)	178(15)	83(8)	-19(9)	6(7)	-16(10)
C(23)	153(14)	125(12)	112(10)	12(9)	11(10)	6(11)
O(24)	219(10)	235(10)	247(10)	48(8)	12(8)	-13(8)
C(25)	242(31)	279(36)	415(46)	-37(33)	-163(32)	128(28)
C(26)	260(32)	225(29)	241(30)	92(24)	49(26)	-44(24)
O(27)	249(20)	265(20)	218(17)	54(15)	-110(16)	-112(17)
C(28)	198(26)	226(29)	250(32)	8(25)	-47(23)	-40(22)
C(29)	164(13)	133(12)	132(12)	-21(10)	-32(10)	-34(11)
O(30)	232(14)	342(21)	103(9)	-82(11)	30(9)	-138(14)
C(31)	276(26)	336(32)	87(11)	-44(15)	22(14)	-211(25)
C(32)	245(24)	227(24)	146(16)	-76(17)	-23(15)	-72(20)
O(33)	128(7)	213(12)	96(6)	-31(7)	5(5)	-49(8)
C(34)	78(7)	171(14)	59(6)	-38(7)	-5(5)	-23(8)
C(35)	60(6)	149(11)	58(6)	-1(7)	2(5)	-1(7)
N(36)	57(5)	183(10)	43(4)	8(5)	-11(4)	-9(5)
C(37)	193(17)	164(15)	113(11)	-57(11)	55(11)	-25(13)
C(38)	324(33)	188(24)	233(28)	33(21)	46(25)	111(24)
C(39)	407(43)	88(12)	257(27)	-25(15)	122(29)	25(19)
C(40)	324(38)	219(29)	507(56)	155(36)	82(39)	185(29)
C(41)	353(27)	359(27)	359(27)	0(10)	53(11)	-5(10)
C(42)	237(24)	170(20)	283(27)	63(19)	-134(22)	12(18)
C(43)	262(22)	124(12)	74(8)	-23(8)	15(11)	85(13)
C(44)	117(10)	118(10)	106(9)	-14(8)	0(8)	-7(8)
C(45)	130(15)	305(30)	201(20)	-40(20)	-44(14)	88(18)
C(46)	179(15)	265(19)	239(17)	4(16)	-47(13)	50(15)
C(47)	290(19)	289(19)	295(19)	-4(10)	36(10)	20(10)

C(48)	324(41)	174(22)	288(31)	-70(22)	90(30)	64(23)
C(49)	277(27)	108(13)	230(22)	-56(14)	46(19)	33(16)
C(50)	100(10)	164(14)	104(10)	-5(9)	-14(8)	46(10)
N(51)	43(4)	57(4)	78(5)	-7(4)	9(3)	-2(3)
C(52)	69(6)	96(8)	94(8)	1(6)	8(6)	6(6)
C(53)	89(7)	116(9)	69(7)	9(6)	21(6)	1(7)
O(54)	72(4)	101(5)	83(5)	16(4)	-12(4)	-2(4)
C(55)	69(7)	112(9)	104(8)	-19(7)	-15(6)	21(6)
C(56)	62(6)	103(9)	102(8)	18(7)	-5(6)	-5(6)
O(57)	75(4)	82(5)	103(5)	-2(4)	11(4)	3(4)
C(58)	65(7)	101(9)	112(9)	10(7)	5(6)	2(6)
C(59)	77(8)	129(11)	128(10)	-2(9)	21(7)	42(8)
O(60)	72(5)	104(6)	129(6)	-23(5)	12(4)	12(4)
C(61)	88(8)	103(9)	109(9)	-34(7)	30(7)	18(7)
C(62)	83(7)	89(7)	82(7)	-19(6)	16(6)	-11(6)
O(63)	66(4)	84(4)	65(4)	-11(3)	15(3)	-5(3)
C(64)	65(6)	76(6)	54(5)	8(5)	7(4)	0(5)
C(65)	71(6)	66(6)	65(6)	6(5)	2(5)	6(5)
N(66)	59(4)	61(4)	65(4)	6(4)	18(3)	0(4)
C(67)	51(5)	65(6)	74(6)	3(5)	12(4)	1(4)
C(68)	108(9)	87(8)	93(8)	15(6)	35(7)	28(7)
C(69)	161(12)	66(7)	118(10)	25(7)	43(9)	33(7)
C(70)	115(9)	71(8)	100(9)	27(6)	-1(7)	4(7)
C(71)	120(9)	85(8)	83(7)	30(6)	33(7)	-6(7)
C(72)	96(8)	81(7)	84(7)	-4(6)	22(6)	-6(6)
C(73)	45(4)	56(5)	70(6)	0(4)	14(4)	-4(4)
C(74)	78(7)	66(6)	126(9)	-10(6)	50(6)	-1(5)
C(75)	119(10)	79(8)	128(10)	-32(8)	26(8)	-15(7)
C(76)	182(17)	119(12)	146(13)	-55(11)	68(12)	-40(12)
C(77)	112(12)	105(12)	289(24)	-70(14)	108(15)	-12(10)
C(78)	113(13)	78(11)	510(45)	-55(17)	108(20)	5(9)
C(79)	98(10)	66(8)	273(21)	2(10)	1(11)	-10(7)
C(80)	78(7)	72(7)	101(8)	3(6)	55(6)	-3(6)
N(81)	71(5)	83(5)	79(5)	-31(4)	31(4)	-19(4)
C(82)	65(6)	90(7)	77(6)	-17(5)	19(5)	8(5)
C(83)	121(10)	122(11)	88(8)	9(8)	0(7)	31(9)
O(84)	125(7)	124(7)	134(8)	10(6)	23(6)	-3(6)
C(85)	184(17)	180(17)	128(13)	67(12)	-2(12)	69(14)
C(86)	185(19)	361(36)	108(13)	52(18)	-35(13)	93(21)
O(87)	158(10)	196(12)	161(10)	-36(9)	-12(8)	19(9)
C(88)	186(15)	200(16)	253(17)	-19(14)	50(14)	19(14)
C(89)	328(11)	325(12)	349(11)	19(9)	45(8)	-7(9)
O(90)	329(12)	322(13)	355(13)	25(11)	42(11)	-6(11)
C(91)	327(13)	321(13)	353(13)	24(11)	41(11)	-8(11)
C(92)	328(13)	322(13)	355(13)	23(11)	41(11)	-10(11)
O(93)	329(13)	320(13)	355(13)	24(11)	40(11)	-5(11)
C(94)	328(13)	321(13)	354(13)	24(11)	42(11)	-12(11)
C(95)	325(13)	321(13)	354(13)	23(11)	42(11)	-8(11)
O(90')	331(12)	322(13)	357(13)	26(11)	41(11)	-7(11)
C(91')	324(13)	319(13)	353(13)	24(11)	44(11)	-11(11)
C(92')	326(13)	321(13)	355(13)	24(11)	41(11)	-10(11)
O(93')	331(12)	320(13)	354(13)	23(11)	42(11)	-10(11)
C(94')	330(13)	323(13)	355(13)	24(11)	40(11)	-9(11)
C(95')	324(13)	320(13)	354(13)	23(11)	43(11)	-8(11)
N(96)	81(6)	258(15)	124(8)	-117(10)	50(6)	-73(8)
C(97)	67(6)	87(8)	100(8)	-32(6)	19(5)	-13(6)
C(98)	186(17)	127(13)	187(17)	-71(12)	-58(13)	49(12)
C(99)	195(19)	116(13)	248(23)	-67(14)	-58(17)	24(13)
C(100)	133(13)	120(13)	150(13)	4(11)	47(11)	26(10)
C(101)	129(11)	76(8)	129(11)	5(8)	47(8)	-24(8)
C(102)	125(10)	85(8)	86(8)	-7(6)	30(7)	-42(8)
C(103)	90(8)	90(8)	92(8)	-37(6)	34(6)	-36(7)

C(104)	149(13)	273(21)	202(16)	-165(16)	138(13)	-145(15)
C(105)	113(14)	179(20)	508(45)	56(25)	-76(20)	-54(14)
C(106)	267(17)	262(17)	272(17)	6(10)	19(10)	-1(10)
C(107)	351(40)	173(23)	195(22)	-22(19)	-31(26)	-49(27)
C(108)	393(44)	264(32)	110(16)	113(20)	132(22)	151(28)
C(109)	111(11)	286(27)	99(11)	50(16)	32(9)	30(17)
C(110)	74(9)	187(16)	128(11)	-45(11)	7(8)	5(10)
N(111)	63(4)	55(4)	79(5)	-8(4)	26(4)	5(4)
C(112)	62(6)	74(6)	80(6)	-26(5)	22(5)	2(5)
C(113)	81(7)	71(6)	89(7)	-14(5)	23(6)	3(5)
O(114)	79(4)	83(5)	93(5)	-6(4)	36(4)	7(4)
C(115)	114(9)	101(9)	105(8)	17(7)	67(8)	0(7)
C(116)	112(9)	115(10)	104(9)	-10(8)	58(8)	-15(9)
O(117)	140(7)	96(6)	92(5)	-14(4)	43(5)	10(6)
C(118)	197(17)	124(12)	109(11)	-18(9)	67(11)	46(13)
C(119)	214(18)	118(12)	92(10)	-29(9)	10(11)	49(13)
O(120)	122(6)	89(6)	102(6)	-22(5)	14(5)	22(5)
C(121)	119(11)	61(8)	172(14)	-41(8)	-4(10)	3(7)
C(122)	118(10)	54(7)	132(11)	-23(7)	-14(8)	3(7)
O(123)	103(6)	67(5)	132(7)	-21(4)	9(5)	17(4)
C(124)	115(9)	49(6)	158(12)	-19(7)	41(9)	-2(6)
C(125)	79(7)	85(8)	117(9)	-33(7)	19(6)	-2(6)
N(126)	99(6)	58(5)	79(5)	-21(4)	25(5)	2(4)
C(127)	80(7)	64(6)	104(8)	8(6)	43(6)	12(5)
C(128)	88(9)	93(9)	222(18)	-19(10)	-58(10)	30(8)
C(129)	109(12)	82(10)	338(30)	-2(14)	-92(16)	-6(9)
C(130)	80(9)	136(14)	245(23)	86(15)	-42(11)	-20(10)
C(131)	87(9)	145(13)	128(11)	50(10)	13(8)	1(9)
C(132)	90(8)	119(10)	111(10)	19(9)	25(7)	17(8)
C(133)	54(6)	61(7)	154(11)	15(7)	10(7)	-6(5)
C(134)	124(9)	81(7)	72(7)	-14(6)	30(6)	34(7)
C(135)	86(8)	118(10)	86(8)	10(7)	24(6)	6(7)
C(136)	123(11)	136(12)	133(11)	39(10)	59(9)	12(10)
C(137)	91(8)	78(8)	129(10)	16(7)	22(7)	-8(6)
C(138)	101(8)	70(7)	84(7)	-5(6)	3(6)	0(6)
C(139)	110(8)	86(8)	62(6)	-19(6)	20(6)	0(6)
C(140)	86(7)	83(7)	62(6)	-29(5)	16(5)	8(6)
C(141)	129(20)	198(27)	288(40)	7(27)	12(22)	-57(19)
C(142)	176(23)	288(36)	82(14)	-27(18)	37(15)	-77(23)
O(143)	180(14)	151(12)	111(10)	26(10)	16(10)	-42(11)
C(144)	173(21)	111(16)	148(21)	78(16)	15(17)	19(15)
O(145)	294(24)	180(17)	150(14)	19(14)	25(14)	-22(17)
C(146)	164(19)	114(15)	175(21)	-36(15)	-67(17)	19(14)

Table 5. Hydrogen coordinates ($\times 10^4$), isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) and site occupancy factors for 1.

	x	y	z	U(eq)	sof
H(22A)	9624(5)	6230(10)	3623(5)	148	1
H(22B)	9330(5)	5628(10)	3228(5)	148	1
H(23A)	9709(7)	4970(9)	3985(6)	157	1
H(23B)	10103(7)	4781(9)	3568(6)	157	1
H(25A)	10885(14)	4710(21)	4236(15)	404	1
H(25B)	10590(14)	4947(21)	4715(15)	404	1
H(26A)	11105(14)	5818(18)	4919(12)	290	1
H(26B)	11480(14)	5150(18)	4813(12)	290	1
H(28A)	12211(12)	6010(18)	4565(12)	281	1
H(28B)	11861(12)	6619(18)	4788(12)	281	1
H(29A)	12094(8)	7382(11)	4329(7)	179	1
H(29B)	12514(8)	6794(11)	4174(7)	179	1
H(31A)	12446(10)	7087(15)	3218(7)	281	1
H(31B)	12230(10)	7838(15)	3435(7)	281	1
H(32A)	11317(10)	7574(14)	2830(8)	255	1
H(32B)	11805(10)	7801(14)	2521(8)	255	1
H(34A)	11431(5)	6826(9)	1781(4)	126	1
H(34B)	10946(5)	6804(9)	2119(4)	126	1
H(35A)	11055(4)	5665(8)	1606(4)	108	1
H(35B)	11597(4)	5512(8)	2011(4)	108	1
H(37A)	10708(8)	6596(10)	2932(6)	184	1
H(37B)	10652(8)	6344(10)	3506(6)	184	1
H(38A)	10905(6)	7708(9)	3928(5)	298	1
H(39A)	10480(13)	8821(11)	4107(8)	292	1
H(40A)	9634(13)	9158(10)	3608(12)	418	1
H(41A)	9214(8)	8382(17)	2929(12)	429	1
H(42A)	9639(11)	7268(13)	2750(8)	300	1
H(44A)	10908(6)	5079(8)	3079(5)	139	1
H(44B)	11356(6)	5686(8)	2999(5)	139	1
H(45A)	12243(5)	5162(8)	3306(5)	264	1
H(46A)	12892(5)	4213(16)	3302(10)	284	1
H(47A)	12642(10)	3101(12)	2853(11)	351	1
H(48A)	11742(12)	2938(8)	2408(10)	309	1
H(49A)	11092(6)	3887(12)	2413(8)	245	1
H(52A)	11036(4)	4240(6)	1334(4)	104	1
H(52B)	11482(4)	3684(6)	1181(4)	104	1
H(53A)	11159(5)	4999(7)	626(4)	109	1
H(53B)	11700(5)	4929(7)	1047(4)	109	1
H(55A)	12288(4)	3748(7)	815(5)	118	1
H(55B)	12525(4)	4553(7)	737(5)	118	1
H(56A)	12564(4)	4240(7)	-178(5)	109	1
H(56B)	12955(4)	3715(7)	215(5)	109	1
H(58A)	12846(4)	2835(7)	-490(5)	113	1
H(58B)	12424(4)	3369(7)	-840(5)	113	1
H(59A)	12289(5)	2057(8)	-1079(5)	133	1
H(59B)	12096(5)	1928(8)	-526(5)	133	1
H(61A)	11186(5)	1648(7)	-878(5)	118	1
H(61B)	11346(5)	1679(7)	-1451(5)	118	1
H(62A)	10682(4)	2668(6)	-1683(4)	102	1
H(62B)	10381(4)	1944(6)	-1518(4)	102	1
H(64A)	9688(4)	2643(5)	-1231(3)	78	1
H(64B)	9960(4)	3368(5)	-1427(3)	78	1
H(65A)	10062(4)	3874(5)	-575(3)	82	1
H(65B)	9435(4)	3707(5)	-787(3)	82	1
H(67A)	11283(4)	3027(5)	327(4)	76	1

H(67B)	10665(4)	2780(5)	148(4)	76	1
H(68A)	11420(3)	1643(4)	414(2)	113	1
H(69A)	11562(5)	664(4)	1020(5)	135	1
H(70A)	11238(5)	755(5)	1823(4)	117	1
H(71A)	10771(5)	1825(6)	2021(3)	113	1
H(72A)	10629(4)	2805(4)	1415(4)	103	1
H(74A)	9011(4)	2649(5)	-498(5)	104	1
H(74B)	9222(4)	2351(5)	77(5)	104	1
H(75A)	8829(3)	1666(5)	-1069(3)	129	1
H(76A)	9058(7)	538(8)	-1431(4)	173	1
H(77A)	9869(7)	-80(5)	-1072(7)	192	1
H(78A)	10451(5)	430(7)	-350(8)	273	1
H(79A)	10222(5)	1559(7)	12(5)	179	1
H(82A)	8139(3)	3676(6)	-832(3)	92	1
H(82B)	8041(3)	2825(6)	-967(3)	92	1
H(83A)	7637(5)	3365(6)	-1689(4)	135	1
H(83B)	7136(5)	3190(6)	-1397(4)	135	1
H(85A)	6605(7)	4114(8)	-1872(6)	200	1
H(85B)	7096(7)	4281(8)	-2180(6)	200	1
H(86A)	6610(8)	5329(9)	-1605(6)	270	1
H(86B)	7106(8)	5498(9)	-1906(6)	270	1
H(88A)	5773(7)	6032(10)	-2521(9)	254	1
H(88B)	5987(7)	5918(10)	-1912(9)	254	1
H(89A)	5126(8)	5328(16)	-2280(10)	402	0.50
H(89B)	5493(8)	4740(16)	-2522(10)	402	0.50
H(89C)	5291(8)	5031(16)	-2589(10)	402	0.50
H(89D)	5233(8)	5317(16)	-2032(10)	402	0.50
H(91A)	4944(27)	5125(29)	-1504(12)	403	0.50
H(91B)	5510(27)	5464(29)	-1222(12)	403	0.50
H(92A)	4969(17)	4351(28)	-882(12)	404	0.50
H(92B)	5504(17)	3996(28)	-1044(12)	404	0.50
H(94A)	6413(17)	4975(29)	-228(21)	403	0.50
H(94B)	6296(17)	4657(29)	-809(21)	403	0.50
H(95A)	6575(22)	3612(25)	-514(14)	401	0.50
H(95B)	6064(22)	3565(25)	-216(14)	401	0.50
H(91C)	5218(17)	3671(25)	-1844(12)	400	0.50
H(91D)	4873(17)	4418(25)	-1863(12)	400	0.50
H(92C)	5260(13)	4672(32)	-1001(12)	403	0.50
H(92D)	4954(13)	3894(32)	-1036(12)	403	0.50
H(94C)	5778(19)	3891(40)	-148(16)	405	0.50
H(94D)	5875(19)	4660(40)	-421(16)	405	0.50
H(95C)	6733(14)	4428(46)	-440(8)	401	0.50
H(95D)	6635(14)	3562(46)	-505(8)	401	0.50
H(97A)	7027(4)	2456(6)	-729(4)	101	1
H(97B)	7035(4)	2602(6)	-123(4)	101	1
H(98A)	7095(4)	1162(5)	-779(4)	212	1
H(99A)	7592(7)	57(5)	-596(6)	236	1
H(10A)	8393(6)	47(6)	34(6)	158	1
H(10B)	8698(4)	1142(8)	480(4)	130	1
H(10C)	8201(5)	2246(5)	297(5)	116	1
H(10D)	6847(7)	3578(11)	1031(7)	235	1
H(10E)	6285(7)	3992(11)	833(7)	235	1
H(10F)	5466(4)	3249(8)	486(7)	337	1
H(10G)	5075(5)	2064(15)	348(11)	324	1
H(10H)	5641(13)	1010(9)	425(9)	298	1
H(10I)	6597(12)	1142(10)	639(8)	295	1
H(10J)	6987(4)	2327(15)	777(7)	196	1
H(11A)	6802(4)	4540(5)	1799(4)	85	1
H(11B)	6257(4)	5016(5)	1681(4)	85	1
H(11C)	6277(4)	4239(6)	2436(4)	95	1
H(11D)	6793(4)	4689(6)	2723(4)	95	1
H(11E)	6306(5)	5002(7)	3395(5)	122	1

H(11F)	5720(5)	4694(7)	3136(5)	122	1
H(11G)	5397(6)	5937(8)	3046(5)	127	1
H(11H)	5567(6)	5698(8)	3642(5)	127	1
H(11I)	5615(8)	7067(9)	3765(6)	166	1
H(11J)	5503(8)	7157(9)	3143(6)	166	1
H(11K)	6018(8)	8186(10)	3590(6)	172	1
H(11L)	6512(8)	7626(10)	3766(6)	172	1
H(12A)	6864(6)	8618(7)	3355(6)	144	1
H(12B)	6429(6)	8911(7)	2875(6)	144	1
H(12C)	6903(6)	8256(6)	2296(6)	126	1
H(12D)	7273(6)	8883(6)	2610(6)	126	1
H(12E)	8139(5)	8172(6)	2565(6)	126	1
H(12F)	7728(5)	7667(6)	2176(6)	126	1
H(12G)	8539(4)	7019(6)	2578(5)	112	1
H(12H)	8345(4)	7126(6)	3128(5)	112	1
H(12I)	6932(4)	6708(5)	2086(4)	95	1
H(12J)	6390(4)	6309(5)	2193(4)	95	1
H(12K)	6072(4)	7563(4)	1717(4)	173	1
H(12L)	5607(5)	8037(5)	920(7)	229	1
H(13A)	5605(5)	7372(9)	138(5)	193	1
H(13B)	6067(6)	6233(9)	153(4)	145	1
H(13C)	6532(5)	5759(5)	950(5)	127	1
H(13D)	7201(5)	6032(6)	2869(4)	109	1
H(13E)	7539(5)	6568(6)	3288(4)	109	1
H(13F)	7196(3)	5541(4)	3870(3)	115	1
H(13G)	7478(5)	4495(7)	4384(4)	152	1
H(13H)	8233(5)	3796(5)	4220(4)	119	1
H(13I)	8707(3)	4144(5)	3540(4)	103	1
H(13J)	8425(4)	5191(6)	3025(3)	103	1
H(14A)	3864(10)	7949(16)	603(14)	311	0.75
H(14B)	4513(10)	7890(16)	728(14)	311	0.75
H(14C)	4224(10)	8676(16)	720(14)	311	0.75
H(14D)	3836(11)	8337(19)	1442(9)	216	0.75
H(14E)	4133(11)	7557(19)	1453(9)	216	0.75
H(14F)	5252(10)	9112(12)	2294(9)	243	0.75
H(14G)	5559(10)	8414(12)	2578(9)	243	0.75
H(14H)	5053(10)	8768(12)	2796(9)	243	0.75

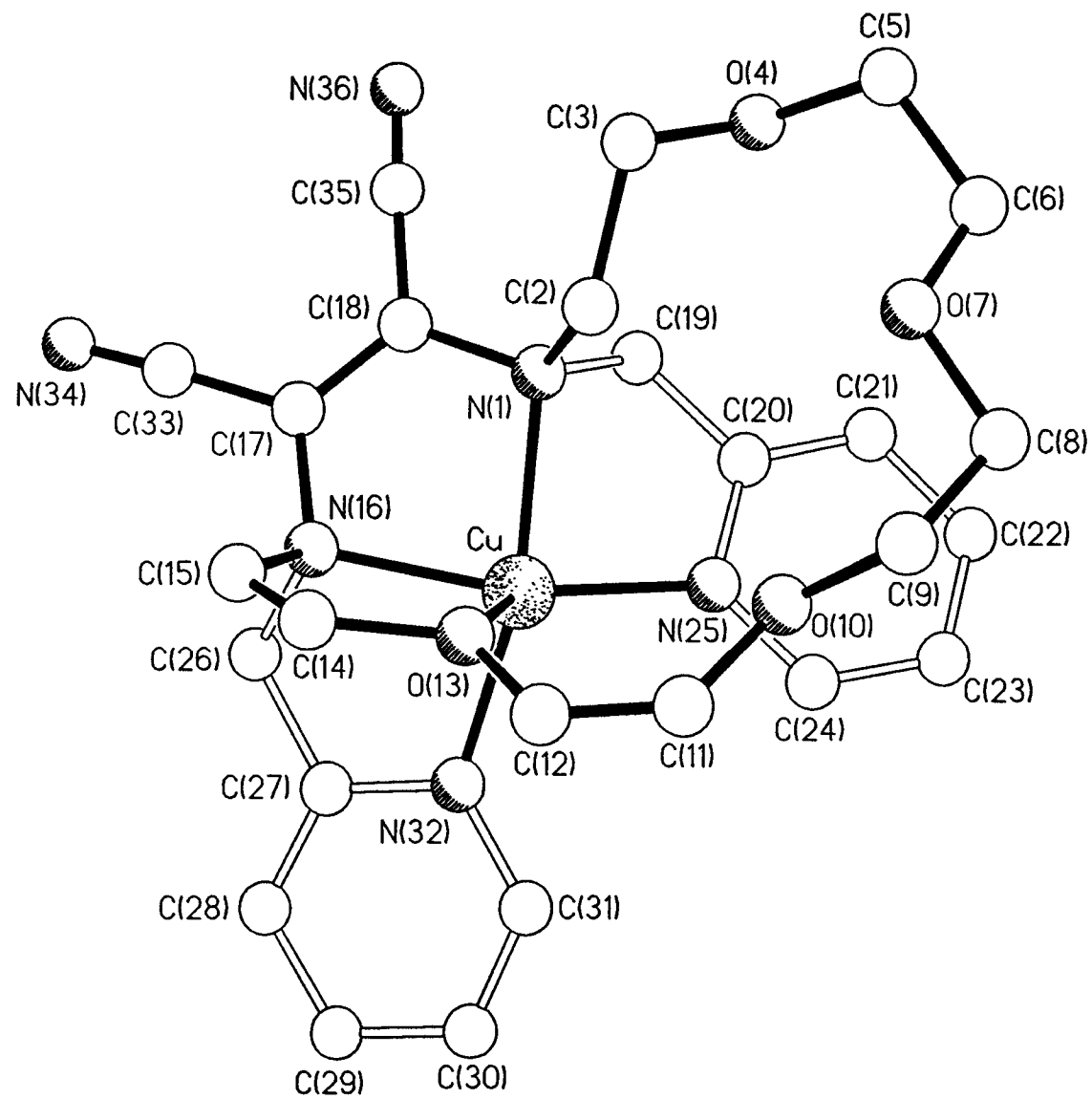


Table 1. Crystal data and structure refinement for 1.

Identification code	AGMB22
Empirical formula	$C_{26}H_{32}N_6O_4Cu \cdot 2BF_4$
Formula weight	729.74
Temperature	293(2) K
Diffractometer Used	Siemens P4/PC
Wavelength	1.54178 Å
Crystal system	Monoclinic
Space group	$P2_1$
Unit cell dimensions	$a = 8.082(3)$ Å $\alpha = 90^\circ$ $b = 9.797(3)$ Å $\beta = 96.84(4)^\circ$ $c = 20.206(11)$ Å $\gamma = 90^\circ$
Volume, Z	$1588.6(12)$ Å ³ , 2
Density (calculated)	1.526 Mg/m ³
Absorption coefficient	1.781 mm ⁻¹
F(000)	746
Crystal colour/morphology	Deep blue plates
Crystal size	0.40 x 0.37 x 0.20 mm
θ range for data collection	2.20 to 62.54°
Limiting indices	$-8 \leq h \leq 9$, $-11 \leq k \leq 9$, $-23 \leq l \leq 23$
Scan type	ω -scans
Reflections collected	2893
Independent reflections	2801 ($R_{int} = 0.0786$)
Observed reflections [$F > 4\sigma(F)$]	2717
Absorption correction	Face-indexed numerical
Max. and min. transmission	0.7116 and 0.5191
Structure solution method	Direct
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	2788 / 1 / 425
Goodness-of-fit on F^2	1.060
Final R indices [$F > 4\sigma(F)$]	$R1 = 0.0549$, $wR2 = 0.1497$
R indices (all data)	$R1 = 0.0565$, $wR2 = 0.1888$
Absolute structure parameter	0.04(6)
Extinction coefficient	0.0033(6)
Largest diff. peak and hole	0.575 and -0.571 eÅ ⁻³
Mean and maximum shift/error	0.000 and 0.000

Table 2. Atomic coordinates [$\times 10^4$], equivalent isotropic displacement parameters [$\text{\AA}^2 \times 10^3$] and site occupancy factors for 1. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	$U(\text{eq})$	sof
Cu	2829(1)	4596(1)	2157(1)	42(1)	1
N(1)	3762(6)	2630(6)	2178(2)	46(1)	1
C(2)	5411(8)	2596(8)	2595(4)	52(2)	1
C(3)	6175(11)	1203(9)	2762(4)	71(2)	1
O(4)	5315(9)	451(7)	3213(3)	87(2)	1
C(5)	6167(17)	352(13)	3872(5)	104(4)	1
C(6)	5836(23)	1430(14)	4316(5)	124(5)	1
O(7)	6203(16)	2697(11)	4127(4)	138(4)	1
C(8)	5840(18)	3748(17)	4552(5)	112(4)	1
C(9)	6440(14)	5036(15)	4278(6)	104(4)	1
O(10)	5428(8)	5374(8)	3694(3)	90(2)	1
C(11)	5935(25)	6543(15)	3389(7)	153(7)	1
C(12)	5883(31)	6784(17)	2792(7)	192(11)	1
O(13)	5230(7)	5905(6)	2288(3)	67(1)	1
C(14)	5708(19)	6102(21)	1666(5)	178(10)	1
C(15)	5003(16)	5434(14)	1168(6)	118(5)	1
N(16)	3464(6)	4631(8)	1207(2)	52(1)	1
C(17)	3696(9)	3225(8)	1028(3)	55(2)	1
C(18)	3818(8)	2262(8)	1495(3)	54(2)	1
C(19)	2430(8)	1848(7)	2469(4)	54(2)	1
C(20)	1907(8)	2644(7)	3042(3)	47(1)	1
C(21)	1324(10)	2018(9)	3573(4)	66(2)	1
C(22)	888(11)	2809(10)	4091(4)	74(2)	1
C(23)	1015(10)	4213(8)	4055(3)	62(2)	1
C(24)	1590(8)	4783(9)	3496(3)	53(2)	1
N(25)	2012(6)	4018(6)	2994(3)	44(1)	1
C(26)	1963(12)	5241(9)	788(3)	71(2)	1
C(27)	1281(10)	6377(8)	1180(3)	59(2)	1
C(28)	501(15)	7478(10)	871(4)	84(3)	1
C(29)	-191(13)	8443(9)	1243(4)	76(2)	1
C(30)	-3(10)	8309(8)	1919(4)	64(2)	1
C(31)	826(9)	7209(8)	2201(3)	60(2)	1
N(32)	1475(7)	6223(6)	1842(2)	49(1)	1
C(33)	3729(10)	2923(10)	337(4)	69(2)	1
N(34)	3670(12)	2727(12)	-225(3)	101(3)	1
C(35)	3955(11)	839(10)	1331(4)	72(2)	1
N(36)	3993(13)	-298(14)	1226(5)	110(3)	1
B(1)	-1272(10)	2521(12)	1111(4)	66(2)	1
F(11)	-40(8)	1893(9)	834(4)	110(2)	1
F(12)	-611(18)	3403(12)	1570(5)	196(5)	1
F(13)	-2268(13)	3199(18)	688(5)	232(7)	1
F(14)	-1959(18)	1657(17)	1480(8)	257(8)	1
B(2)	456(12)	8416(9)	4023(4)	61(2)	1
F(21)	389(7)	9470(7)	4441(2)	85(1)	1
F(22)	2019(7)	8283(9)	3817(3)	119(2)	1
F(23)	-597(8)	8635(10)	3442(3)	123(3)	1
F(24)	29(15)	7259(7)	4316(5)	156(4)	1