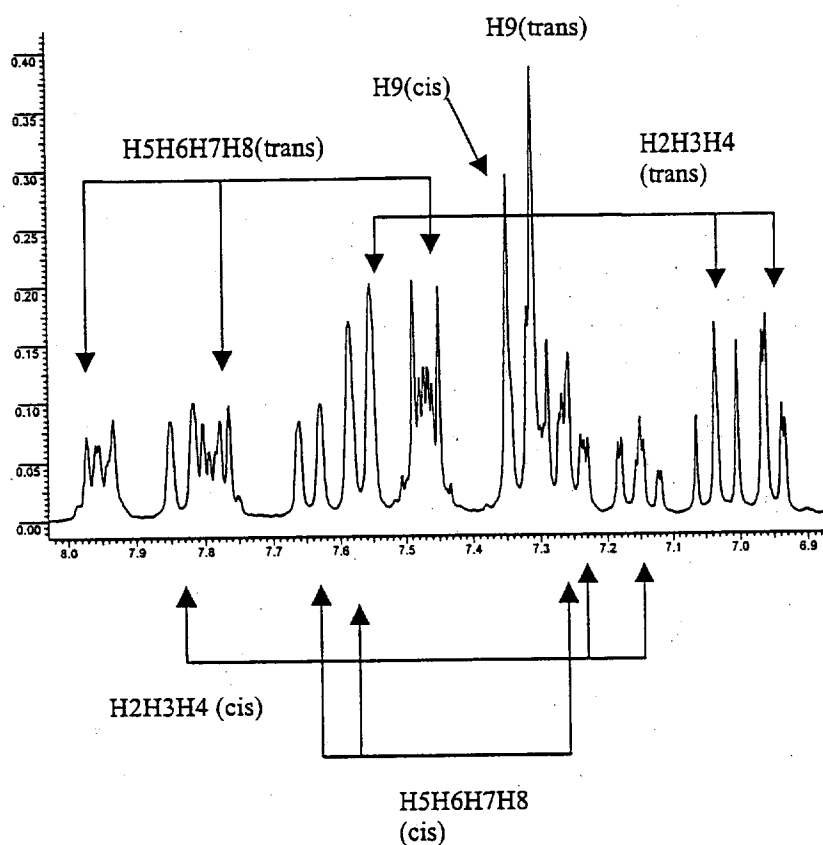
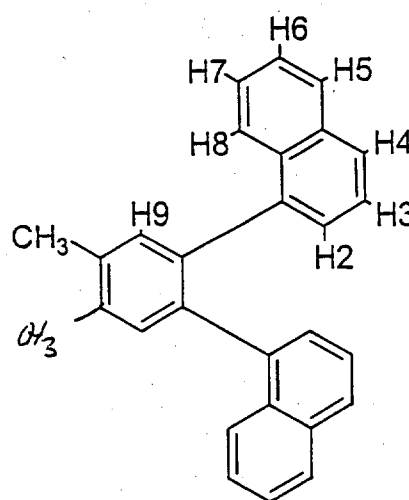


Assignment of the low field part of the ^1H spectrum of 1,2-Bis(1-Naphthyl)-4,5-dimethyl-benzene (1).



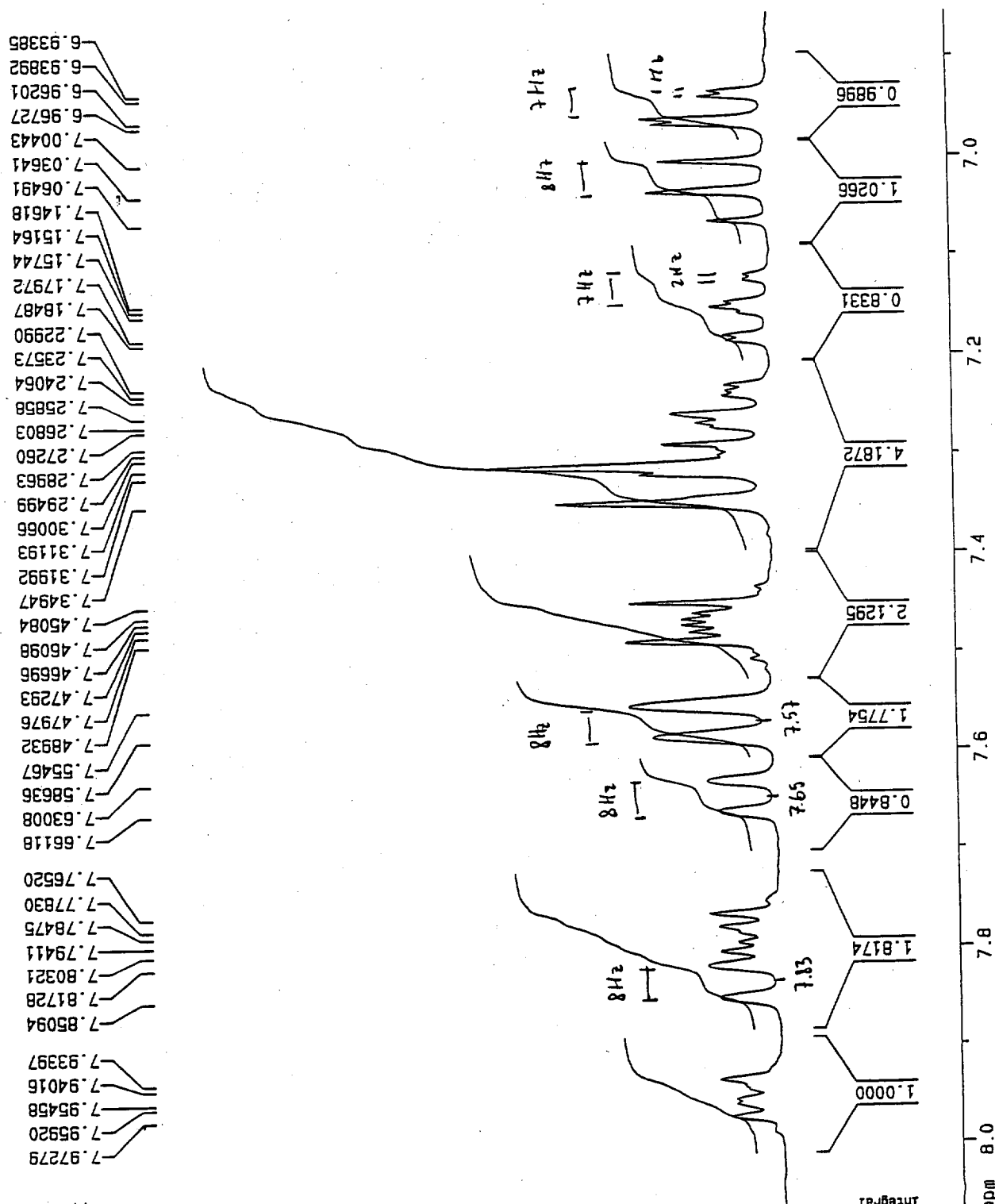
Binaphthyl-o-xylen (BNOX) i 1,1,2,2-TCE-d2 ved 300 K.

Current Data Parameters
 NAME naphthylxylene
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980212
 Time 10:51
 INSTRUM dpx250
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 5144.033 Hz
 FIDRES 0.156983 Hz
 AQ 3.1850996 sec
 RG 322.5
 DW 97.200 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 11.50 usec
 DE 4.50 usec
 SF01 250.1315447 MHz
 NUC1 1H
 PL1 -3.00 dB

F2 - Processing parameters
 SI 16384
 SF 250.1303205 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.072 ppm
 F1 2019.00 Hz
 F2P 6.855 ppm
 F2 1714.76 Hz
 PPMCM 0.06082 ppm/cm
 HZCM 15.21177 Hz/cm



Binaphthyl-o-xylen (BNOX) i 1,1,2,2-TCE-d2 ved 300 K.

Current Data Parameters
 NAME naphthylxylene
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980212
 Time 10.51
 INSTRUM dpx250
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SMH 5144.033 Hz
 FIDRES 0.156983 Hz
 AQ 3.1850998 sec
 RG 322.5
 DM 97.200 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 11.50 usec
 DE 4.50 usec
 SFO1 250.1315447 MHz
 NUC1 1H
 PL1 -3.00 dB

F2 - Processing parameters
 SI 16384
 SF 250.1303205 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.350 ppm
 F1 2088.59 Hz
 F2P 2.074 ppm
 F2 518.86 Hz
 PPMCM 0.31378 ppm/cm
 HZCM 78.48627 Hz/cm

2.44495
2.43690

6.00067

6.96201

6.96727

7.00443

7.03641

7.25858

7.28963

7.31193

7.31992

7.34947

7.45084

7.46098

7.46696

7.47293

7.47976

7.48932

7.55467

0.9896

1.0266

0.8331

4.1872

2.1295

1.7754

0.8448

1.8174

1.0000

Current Data Parameters
NAME nephyl1
EXPNO 2
PROCNO 1

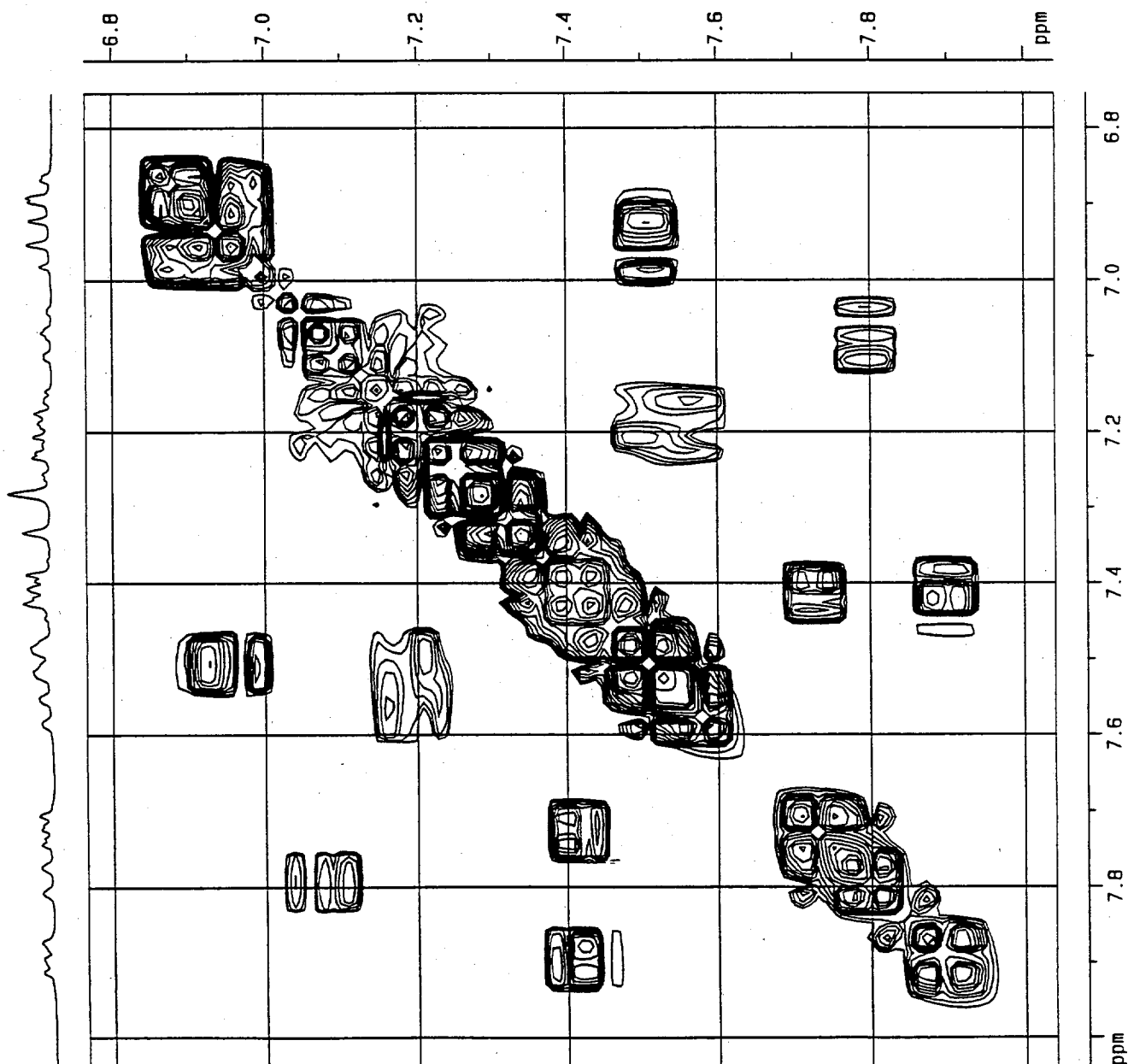
F2 - Acquisition Parameters
Date_ 900225
Time 8.17
INSTRUM dpx250
PROBHD 5 mm Mxltinu
PULPROG cosy90
TD 1024
SOLVENT CDCl3
NS 8
DS 2
SWH 2572.016 Hz
FIDRES 2.511735 Hz
AQ 0.1991166 sec
RG 812.7
DM 194.400 usec
DE 4.50 usec
TE 300.0 K
D1 2.0000000 sec
P1 11.50 usec
D0 0.00000300 sec
DE 4.50 usec
SFO1 250.1311625 MHz
MCI 1H
PL1 -3.00 dB
ZNO 0.00036260 sec

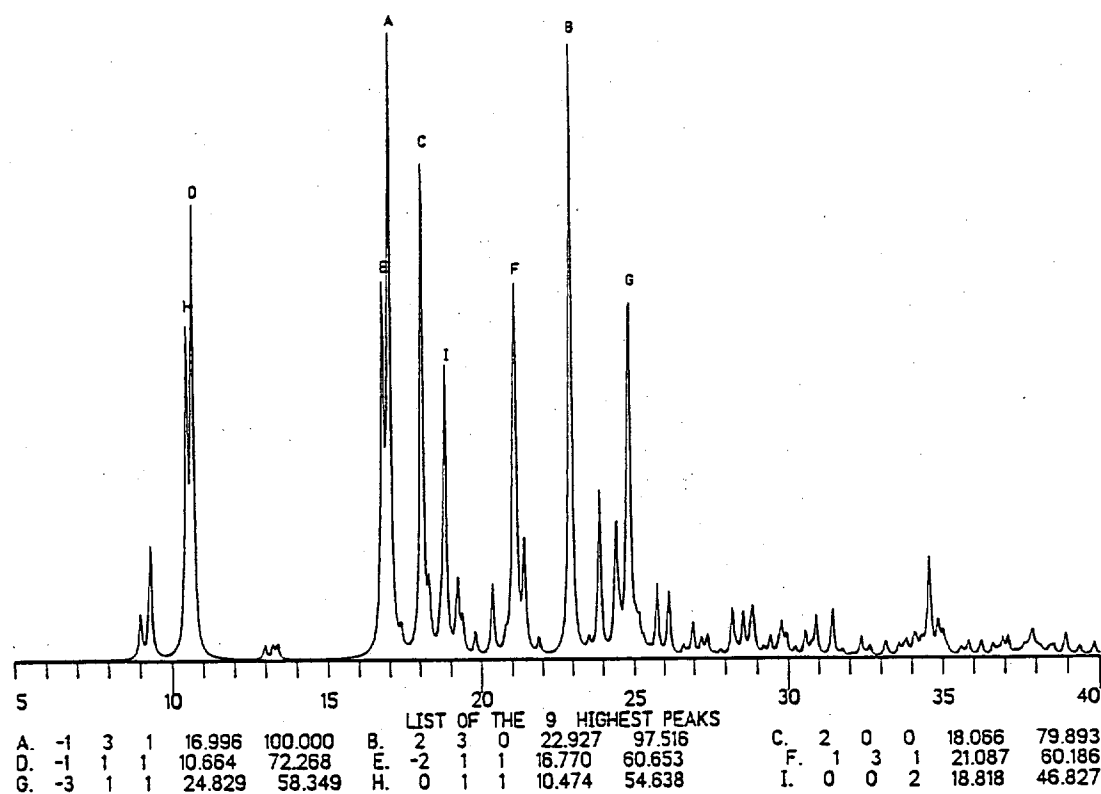
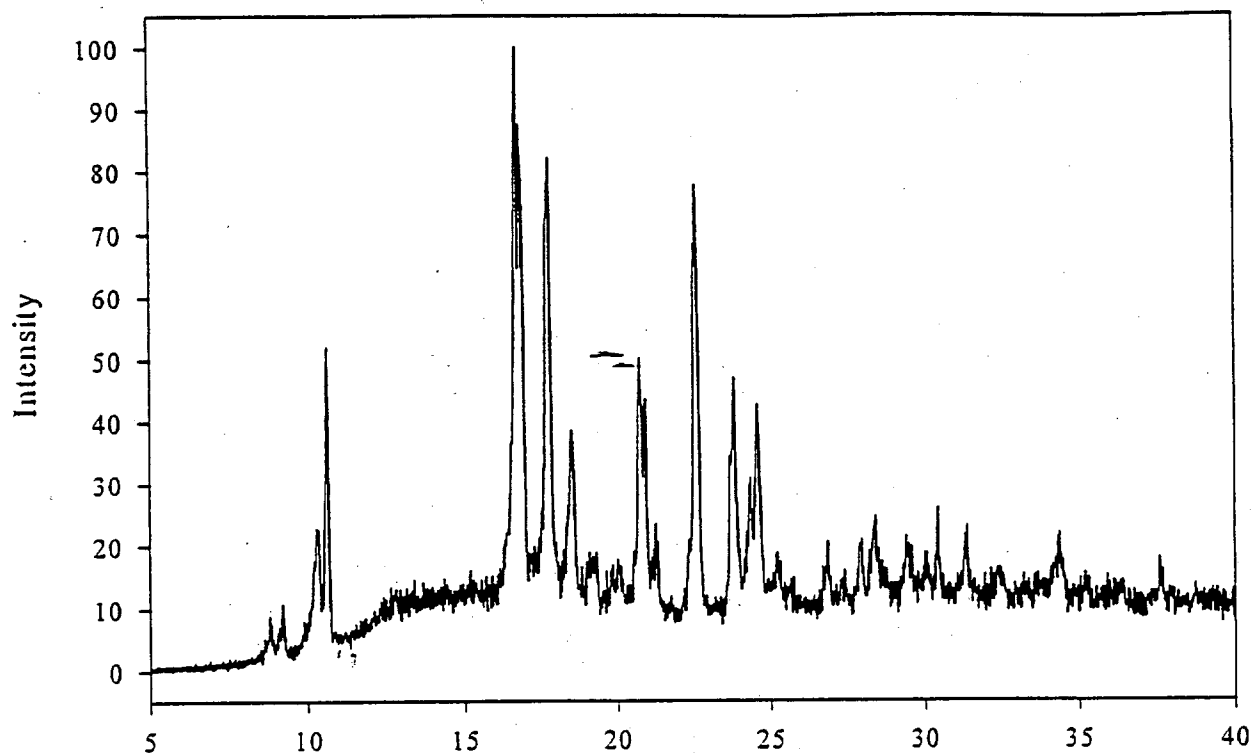
F1 - Acquisition Parameters
NUC1 31
TO 31
SFO1 250.1312 MHz
FIDRES 82.98269 Hz
SN 10.283 ppm

F2 - Processing Parameters
SI 1024
SF 250.1300218 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing Parameters
SI 1024
MC2 1024
SF 250.1300213 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 10.00 cm
CY1 10.00 cm
F2PLO 6.039 ppm
F2LO 2010.79 Hz
F2PHI 6.754 ppm
F2HI 1689.29 Hz
F1LO 2011.28 Hz
F1PHI 6.041 ppm
F1HI 1692.29 Hz
F3PMCH 0.00569 ppm/cm
F3LO 21.43347 Hz/cm
F3PMCH 0.00502 ppm/cm
F3HI 21.26502 Hz/cm





Supplementary Calculated and observed powder diffractograms. Above, the powder diffractogram calculated from the single crystal data. Below, the observed powder diffractogram of the fully crystallised sample

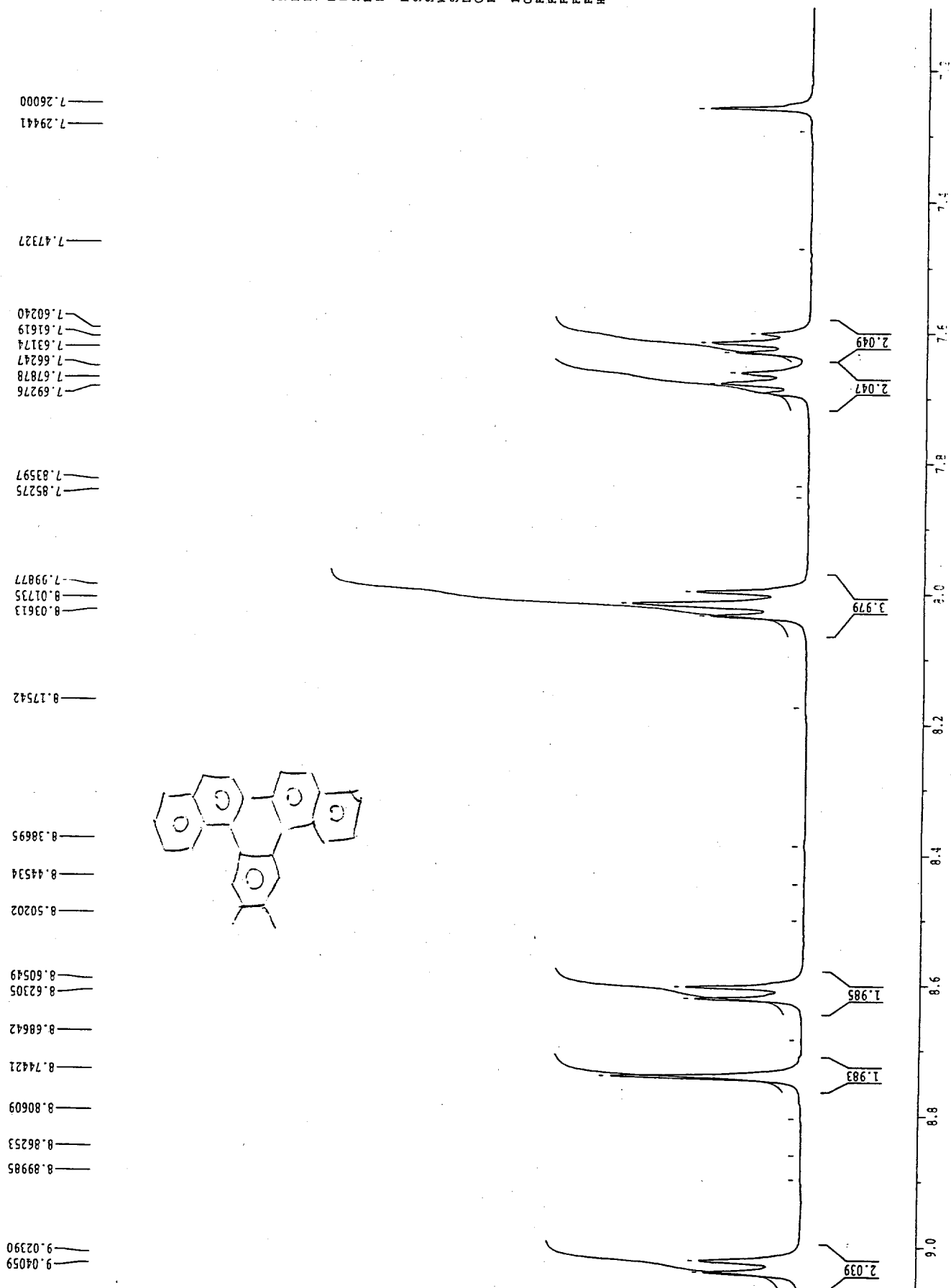
1H Spectrum

Current Data Parameters
 NAME ml2031
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
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 Time 14.36
 INSTRUM dr+500
 PROBHD 5 mm Dual 13
 PULPROG zg
 TD 32768
 SOLVENT CDCl3
 NS 8
 DS 4
 SWH 7002.801 Hz
 FIDRES 0.211709 Hz
 AQ 2.3396852 sec
 RG 256
 DM 71.400 usec
 DE 300.0 K
 TE 6.00 usec
 D1 10.0000000 sec
 P1 9.00 usec
 SFO1 500.1330008 MHz
 L2C1 1H
 FFL1 -6.00 dB

F2 - Processing parameters
 SI 32768
 SF 500.13300143 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 35.00 cm
 FIP 8.166 ppm
 F1 4584.32 Hz
 F2 7.104 ppm
 FZ 3553.00 Hz
 PPMCN 0.05891 ppm/cm
 HZCN 29.46358 Hz/cm



Compound 1

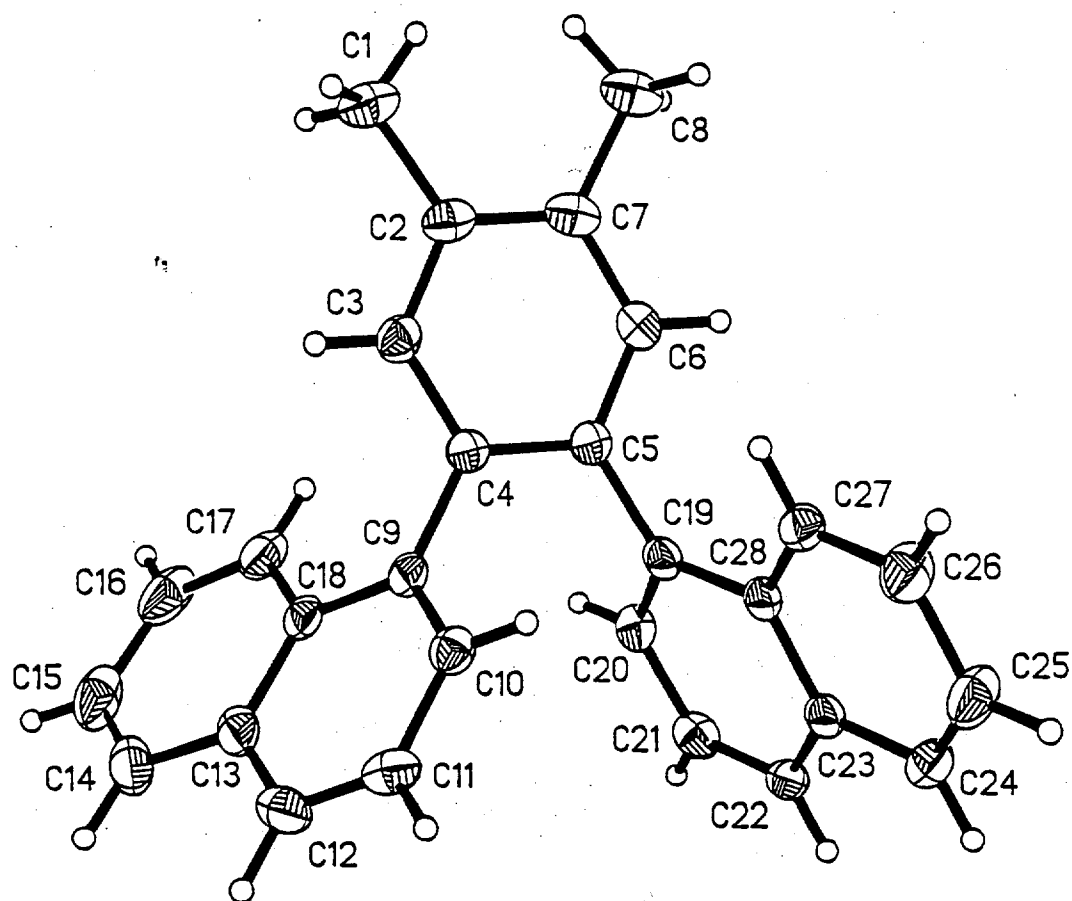


Table 1. Crystal data and structure refinement for 1.

Identification code	compound 1
Empirical formula	C ₂₈ H ₂₂
Formula weight	358.46
Temperature	120(2) K
Wavelength	0.71073 Å
Crystal system	monoclinic
Space group	P2(1)/c
Unit cell dimensions	a = 11.037(2) Å alpha = 90 deg. b = 18.978(4) Å beta = 117.17(3) deg. c = 10.602(2) Å gamma = 90 deg.
Volume, Z	1975.7(7) Å ³ , 4
Density (calculated)	1.205 Mg/m ³
Absorption coefficient	0.068 mm ⁻¹
F(000)	760
Crystal size	0.37 x 0.35 x 0.25 mm
Theta range for data collection	2.07 to 26.34 deg.
Limiting indices	-13 ≤ h ≤ 13, -23 ≤ k ≤ 23, -13 ≤ l ≤ 12
Reflections collected	20363
Independent reflections	4029 [R(int) = 0.0305]
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	4029 / 0 / 253
Goodness-of-fit on F ²	1.035
Final R indices [I > 2sigma(I)]	R1 = 0.0419, wR2 = 0.1067
R indices (all data)	R1 = 0.0562, wR2 = 0.1157
Largest diff. peak and hole	0.269 and -0.237 e.Å ⁻³

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

	x	y	z	$U(\text{eq})$
C(1)	3359(2)	4461(1)	8718(2)	36(1)
C(2)	2933(1)	4820(1)	7307(1)	27(1)
C(3)	3031(1)	4457(1)	6218(2)	25(1)
C(4)	2645(1)	4751(1)	4880(1)	22(1)
C(5)	2123(1)	5440(1)	4623(1)	22(1)
C(6)	2053(1)	5811(1)	5727(2)	26(1)
C(7)	2456(1)	5520(1)	7067(2)	28(1)
C(8)	2412(2)	5959(1)	8231(2)	38(1)
C(9)	2868(1)	4341(1)	3800(1)	21(1)
C(10)	3725(1)	4599(1)	3292(1)	24(1)
C(11)	4027(1)	4210(1)	2343(2)	29(1)
C(12)	3497(2)	3554(1)	1924(2)	33(1)
C(13)	2618(2)	3257(1)	2425(2)	30(1)
C(14)	2070(2)	2569(1)	2023(2)	43(1)
C(15)	1173(2)	2304(1)	2449(2)	52(1)
C(16)	758(2)	2716(1)	3285(2)	46(1)
C(17)	1287(2)	3376(1)	3726(2)	33(1)
C(18)	2261(1)	3662(1)	3340(1)	24(1)
C(19)	1605(1)	5758(1)	3179(1)	22(1)
C(20)	409(1)	5511(1)	2103(2)	25(1)
C(21)	-108(1)	5774(1)	706(2)	26(1)
C(22)	591(1)	6280(1)	391(1)	24(1)
C(23)	1832(1)	6552(1)	1461(1)	23(1)
C(24)	2581(2)	7072(1)	1152(2)	29(1)
C(25)	3779(2)	7328(1)	2185(2)	37(1)
C(26)	4295(2)	7076(1)	3592(2)	33(1)
C(27)	3599(1)	6573(1)	3928(2)	26(1)
C(28)	2348(1)	6297(1)	2881(1)	22(1)

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

C(1)-C(2)	1.510(2)
C(2)-C(3)	1.391(2)
C(2)-C(7)	1.409(2)
C(3)-C(4)	1.3986(19)
C(4)-C(5)	1.4048(19)
C(4)-C(9)	1.4950(18)
C(5)-C(6)	1.3981(19)
C(5)-C(19)	1.4954(19)
C(6)-C(7)	1.394(2)
C(7)-C(8)	1.508(2)
C(9)-C(10)	1.3748(19)
C(9)-C(18)	1.4308(19)
C(10)-C(11)	1.406(2)
C(11)-C(12)	1.360(2)
C(12)-C(13)	1.418(2)
C(13)-C(14)	1.421(2)
C(13)-C(18)	1.427(2)
C(14)-C(15)	1.359(3)
C(15)-C(16)	1.406(3)
C(16)-C(17)	1.370(2)
C(17)-C(18)	1.421(2)
C(19)-C(20)	1.374(2)
C(19)-C(28)	1.4325(19)
C(20)-C(21)	1.413(2)
C(21)-C(22)	1.364(2)
C(22)-C(23)	1.419(2)
C(23)-C(24)	1.418(2)
C(23)-C(28)	1.4294(19)
C(24)-C(25)	1.364(2)
C(25)-C(26)	1.415(2)
C(26)-C(27)	1.370(2)
C(27)-C(28)	1.419(2)
C(3)-C(2)-C(7)	118.80(13)
C(3)-C(2)-C(1)	119.49(14)
C(7)-C(2)-C(1)	121.71(13)
C(2)-C(3)-C(4)	122.76(13)
C(3)-C(4)-C(5)	118.47(12)
C(3)-C(4)-C(9)	119.21(12)
C(5)-C(4)-C(9)	122.23(12)
C(6)-C(5)-C(4)	118.75(12)
C(6)-C(5)-C(19)	120.87(12)
C(4)-C(5)-C(19)	120.33(12)
C(7)-C(6)-C(5)	122.67(13)
C(6)-C(7)-C(2)	118.48(13)
C(6)-C(7)-C(8)	120.02(14)
C(2)-C(7)-C(8)	121.48(13)
C(10)-C(9)-C(18)	119.12(12)
C(10)-C(9)-C(4)	119.82(12)
C(18)-C(9)-C(4)	120.97(12)
C(9)-C(10)-C(11)	121.56(13)
C(12)-C(11)-C(10)	120.47(13)
C(11)-C(12)-C(13)	120.45(13)
C(12)-C(13)-C(14)	121.52(15)
C(12)-C(13)-C(18)	119.32(13)

C(14)-C(13)-C(18)	119.15(15)
C(15)-C(14)-C(13)	121.05(17)
C(14)-C(15)-C(16)	119.98(15)
C(17)-C(16)-C(15)	120.85(17)
C(16)-C(17)-C(18)	120.77(16)
C(17)-C(18)-C(13)	118.03(13)
C(17)-C(18)-C(9)	122.99(13)
C(13)-C(18)-C(9)	118.97(13)
C(20)-C(19)-C(28)	119.37(12)
C(20)-C(19)-C(5)	119.02(12)
C(28)-C(19)-C(5)	121.59(12)
C(19)-C(20)-C(21)	121.61(13)
C(22)-C(21)-C(20)	120.15(13)
C(21)-C(22)-C(23)	120.54(12)
C(24)-C(23)-C(22)	121.41(12)
C(24)-C(23)-C(28)	119.04(13)
C(22)-C(23)-C(28)	119.55(13)
C(25)-C(24)-C(23)	121.04(13)
C(24)-C(25)-C(26)	120.12(14)
C(27)-C(26)-C(25)	120.42(14)
C(26)-C(27)-C(28)	120.94(13)
C(27)-C(28)-C(23)	118.43(12)
C(27)-C(28)-C(19)	122.77(12)
C(23)-C(28)-C(19)	118.76(12)

Symmetry transformations used to generate equivalent atoms:

Table 4. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 1.
 The anisotropic displacement factor exponent takes the form:
 $-2\pi^2 [h^2 a^{*2} U_{11} + \dots + 2hk a^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
C(1)	35(1)	49(1)	22(1)	2(1)	13(1)	-8(1)
C(2)	23(1)	37(1)	21(1)	0(1)	10(1)	-8(1)
C(3)	26(1)	26(1)	25(1)	2(1)	11(1)	-3(1)
C(4)	21(1)	23(1)	21(1)	-1(1)	9(1)	-4(1)
C(5)	21(1)	23(1)	22(1)	-1(1)	9(1)	-4(1)
C(6)	25(1)	26(1)	28(1)	-3(1)	12(1)	-1(1)
C(7)	22(1)	38(1)	25(1)	-7(1)	12(1)	-7(1)
C(8)	37(1)	50(1)	30(1)	-11(1)	18(1)	-5(1)
C(9)	21(1)	21(1)	18(1)	3(1)	6(1)	3(1)
C(10)	22(1)	25(1)	21(1)	2(1)	7(1)	1(1)
C(11)	22(1)	43(1)	22(1)	5(1)	10(1)	8(1)
C(12)	33(1)	39(1)	21(1)	-1(1)	8(1)	16(1)
C(13)	34(1)	24(1)	19(1)	2(1)	1(1)	8(1)
C(14)	56(1)	24(1)	29(1)	-2(1)	2(1)	8(1)
C(15)	70(1)	22(1)	35(1)	1(1)	0(1)	-11(1)
C(16)	54(1)	38(1)	32(1)	9(1)	7(1)	-20(1)
C(17)	39(1)	30(1)	24(1)	5(1)	9(1)	-9(1)
C(18)	27(1)	21(1)	18(1)	5(1)	5(1)	3(1)
C(19)	23(1)	19(1)	22(1)	-1(1)	10(1)	4(1)
C(20)	24(1)	23(1)	28(1)	0(1)	10(1)	0(1)
C(21)	21(1)	28(1)	24(1)	-4(1)	5(1)	1(1)
C(22)	26(1)	24(1)	20(1)	1(1)	9(1)	7(1)
C(23)	26(1)	20(1)	23(1)	0(1)	11(1)	5(1)
C(24)	35(1)	27(1)	25(1)	5(1)	12(1)	0(1)
C(25)	39(1)	33(1)	36(1)	7(1)	14(1)	-10(1)
C(26)	31(1)	31(1)	30(1)	2(1)	7(1)	-9(1)
C(27)	28(1)	25(1)	22(1)	1(1)	8(1)	-1(1)
C(28)	24(1)	18(1)	23(1)	0(1)	10(1)	3(1)

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

	x	y	z	U(eq)
H(1A)	3232	4778	9354	54
H(1B)	4302	4330	9113	54
H(1C)	2815	4047	8586	54
H(1D)	3667	3992	8681	54
H(1E)	2597	4440	8922	54
H(1F)	4085	4723	9449	54
H(3)	3368	3999	6387	30
H(6)	1724	6271	5561	31
H(8A)	2722	5682	9080	57
H(8B)	1494	6112	7947	57
H(8C)	2991	6363	8408	57
H(8D)	2082	6422	7877	57
H(8E)	3310	5993	9010	57
H(8F)	1814	5741	8548	57
H(10)	4113	5042	3582	28
H(11)	4594	4402	1999	35
H(12)	3713	3298	1305	39
H(14)	2330	2295	1460	52
H(15)	833	1850	2187	62
H(16)	116	2538	3541	55
H(17)	1005	3639	4284	39
H(20)	-73	5163	2300	30
H(21)	-925	5602	0	32
H(22)	250	6447	-533	29
H(24)	2249	7242	231	35
H(25)	4259	7668	1964	45
H(26)	5111	7253	4293	40
H(27)	3952	6410	4856	32

Compound 2

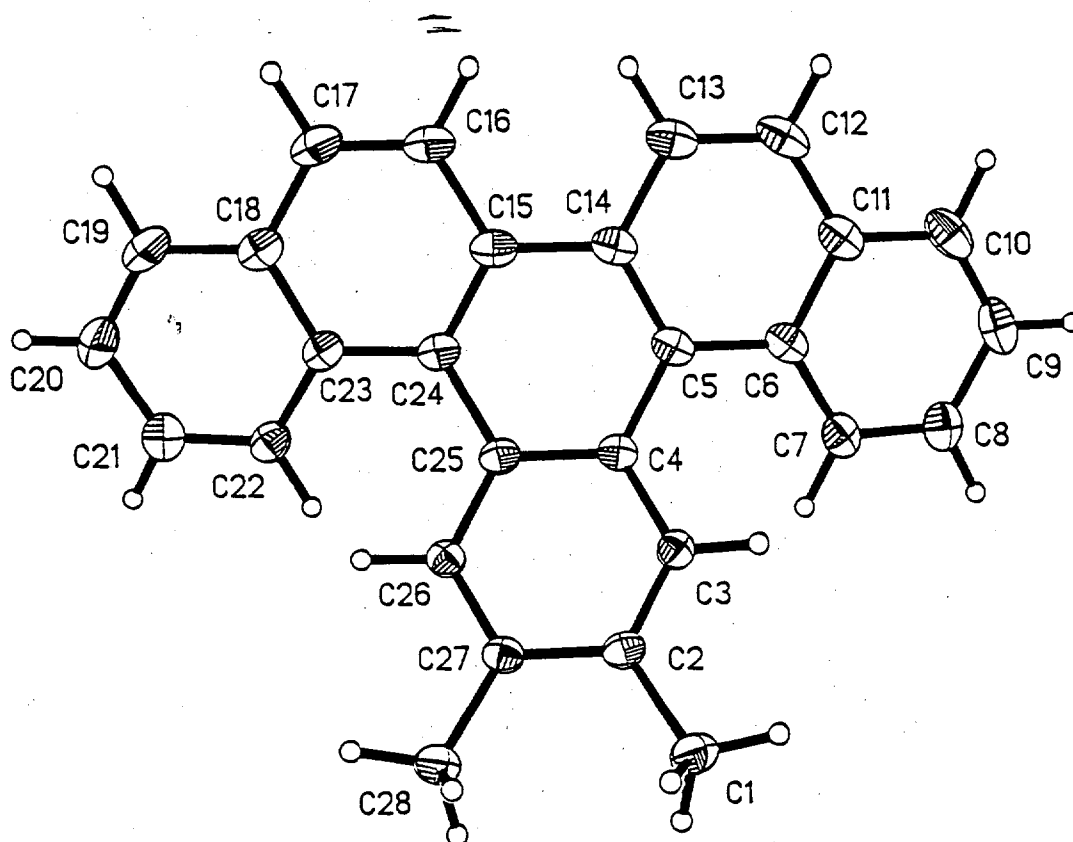


Table 6. Crystal data and structure refinement for 2.

Identification code	compound 2
Empirical formula	C ₂₈ H ₂₀
Formula weight	356.44
Temperature	120(2) K
Wavelength	0.71073 Å
Crystal system	monoclinic
Space group	P2(1)/n
Unit cell dimensions	a = 12.024(2) Å alpha = 90 deg. b = 7.5310(15) Å beta = 99.62(3) deg. c = 19.962(4) Å gamma = 90 deg.
Volume, Z	1782.2(6) Å ³ , 4
Density (calculated)	1.328 Mg/m ³
Absorption coefficient	0.075 mm ⁻¹
F(000)	752
Crystal size	0.30 x 0.20 x 0.05 mm
Theta range for data collection	1.85 to 26.39 deg.
Limiting indices	-15 ≤ h ≤ 15, -9 ≤ k ≤ 9, -24 ≤ l ≤ 24
Reflections collected	18257
Independent reflections	3649 [R(int) = 0.0584]
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	3649 / 0 / 333
Goodness-of-fit on F ²	1.039
Final R indices [I > 2σ(I)]	R1 = 0.0484, wR2 = 0.1077
R indices (all data)	R1 = 0.0866, wR2 = 0.1278
Largest diff. peak and hole	0.200 and -0.236 e.Å ⁻³

Table 7. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 2. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	$U(\text{eq})$
C(1)	6372(2)	1046(3)	564(1)	29(1)
C(2)	6450(2)	1568(2)	1294(1)	22(1)
C(3)	7488(2)	1783(2)	1698(1)	21(1)
C(4)	7625(1)	2161(2)	2397(1)	20(1)
C(5)	8731(1)	2140(2)	2826(1)	21(1)
C(6)	9766(1)	2534(2)	2575(1)	23(1)
C(7)	9803(2)	3469(2)	1966(1)	24(1)
C(8)	10809(2)	3874(3)	1760(1)	29(1)
C(9)	11835(2)	3320(3)	2147(1)	34(1)
C(10)	11833(2)	2455(3)	2747(1)	33(1)
C(11)	10818(2)	2091(2)	2988(1)	26(1)
C(12)	10819(2)	1372(3)	3642(1)	31(1)
C(13)	9852(2)	1207(3)	3901(1)	29(1)
C(14)	8780(2)	1631(2)	3504(1)	23(1)
C(15)	7764(2)	1644(2)	3810(1)	25(1)
C(16)	7774(2)	1076(3)	4494(1)	29(1)
C(17)	6856(2)	1234(3)	4800(1)	32(1)
C(18)	5870(2)	2128(2)	4472(1)	27(1)
C(19)	4950(2)	2463(3)	4812(1)	33(1)
C(20)	4054(2)	3460(3)	4513(1)	34(1)
C(21)	4058(2)	4215(3)	3874(1)	29(1)
C(22)	4919(2)	3855(2)	3522(1)	24(1)
C(23)	5833(2)	2743(2)	3794(1)	22(1)
C(24)	6750(1)	2298(2)	3436(1)	21(1)
C(25)	6642(1)	2305(2)	2698(1)	20(1)
C(26)	5585(2)	2119(2)	2275(1)	21(1)
C(27)	5469(1)	1752(2)	1588(1)	21(1)
C(28)	4318(2)	1430(3)	1179(1)	27(1)

Table 8. Bond lengths [Å] and angles [deg] for 2.

C(1)-C(2)	1.497(3)
C(2)-C(3)	1.378(2)
C(2)-C(27)	1.410(2)
C(3)-C(4)	1.407(2)
C(4)-C(25)	1.417(2)
C(4)-C(5)	1.457(2)
C(5)-C(14)	1.399(3)
C(5)-C(6)	1.448(3)
C(6)-C(7)	1.412(3)
C(6)-C(11)	1.428(2)
C(7)-C(8)	1.376(3)
C(8)-C(9)	1.407(3)
C(9)-C(10)	1.364(3)
C(10)-C(11)	1.412(3)
C(11)-C(12)	1.413(3)
C(12)-C(13)	1.355(3)
C(13)-C(14)	1.431(2)
C(14)-C(15)	1.454(3)
C(15)-C(24)	1.407(2)
C(15)-C(16)	1.431(3)
C(16)-C(17)	1.351(3)
C(17)-C(18)	1.425(3)
C(18)-C(19)	1.414(3)
C(18)-C(23)	1.424(2)
C(19)-C(20)	1.365(3)
C(20)-C(21)	1.398(3)
C(21)-C(22)	1.372(3)
C(22)-C(23)	1.416(2)
C(23)-C(24)	1.449(2)
C(24)-C(25)	1.457(2)
C(25)-C(26)	1.411(2)
C(26)-C(27)	1.382(2)
C(27)-C(28)	1.505(3)
C(3)-C(2)-C(27)	118.94(16)
C(3)-C(2)-C(1)	120.25(17)
C(27)-C(2)-C(1)	120.72(16)
C(2)-C(3)-C(4)	123.22(17)
C(3)-C(4)-C(25)	118.02(16)
C(3)-C(4)-C(5)	121.59(16)
C(25)-C(4)-C(5)	119.73(15)
C(14)-C(5)-C(6)	119.40(16)
C(14)-C(5)-C(4)	117.26(16)
C(6)-C(5)-C(4)	123.27(16)
C(7)-C(6)-C(11)	117.48(17)
C(7)-C(6)-C(5)	123.48(16)
C(11)-C(6)-C(5)	118.84(17)
C(8)-C(7)-C(6)	121.59(18)
C(7)-C(8)-C(9)	120.3(2)
C(10)-C(9)-C(8)	119.67(19)
C(9)-C(10)-C(11)	121.32(19)
C(10)-C(11)-C(12)	121.38(17)
C(10)-C(11)-C(6)	119.43(18)
C(12)-C(11)-C(6)	119.12(17)
C(13)-C(12)-C(11)	121.24(18)

C(12)-C(13)-C(14)	121.32(19)
C(5)-C(14)-C(13)	118.97(18)
C(5)-C(14)-C(15)	120.12(16)
C(13)-C(14)-C(15)	120.79(17)
C(24)-C(15)-C(16)	118.60(17)
C(24)-C(15)-C(14)	119.66(16)
C(16)-C(15)-C(14)	121.69(17)
C(17)-C(16)-C(15)	121.83(18)
C(16)-C(17)-C(18)	120.91(18)
C(19)-C(18)-C(23)	119.68(18)
C(19)-C(18)-C(17)	121.46(18)
C(23)-C(18)-C(17)	118.83(17)
C(20)-C(19)-C(18)	120.84(19)
C(19)-C(20)-C(21)	119.9(2)
C(22)-C(21)-C(20)	120.3(2)
C(21)-C(22)-C(23)	121.68(18)
C(22)-C(23)-C(18)	117.10(17)
C(22)-C(23)-C(24)	123.65(16)
C(18)-C(23)-C(24)	119.14(16)
C(15)-C(24)-C(23)	118.91(16)
C(15)-C(24)-C(25)	117.35(16)
C(23)-C(24)-C(25)	123.39(16)
C(26)-C(25)-C(4)	118.00(16)
C(26)-C(25)-C(24)	121.65(16)
C(4)-C(25)-C(24)	119.30(15)
C(27)-C(26)-C(25)	123.04(17)
C(26)-C(27)-C(2)	118.73(16)
C(26)-C(27)-C(28)	120.11(17)
C(2)-C(27)-C(28)	121.02(16)

Symmetry transformations used to generate equivalent atoms:

Table 9. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 2.
 The anisotropic displacement factor exponent takes the form:
 $-2 \pi^2 [h^2 a^{*2} U_{11} + \dots + 2 h k a^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
C(1)	30(1)	38(1)	20(1)	-1(1)	2(1)	-4(1)
C(2)	27(1)	19(1)	20(1)	1(1)	2(1)	-1(1)
C(3)	22(1)	20(1)	21(1)	0(1)	4(1)	1(1)
C(4)	23(1)	15(1)	21(1)	0(1)	0(1)	0(1)
C(5)	23(1)	15(1)	24(1)	-5(1)	-2(1)	2(1)
C(6)	23(1)	17(1)	27(1)	-8(1)	-1(1)	1(1)
C(7)	24(1)	20(1)	29(1)	-6(1)	4(1)	1(1)
C(8)	31(1)	22(1)	34(1)	-8(1)	9(1)	-1(1)
C(9)	24(1)	27(1)	52(1)	-10(1)	12(1)	-1(1)
C(10)	22(1)	26(1)	48(1)	-8(1)	-2(1)	0(1)
C(11)	25(1)	19(1)	34(1)	-6(1)	-1(1)	1(1)
C(12)	25(1)	25(1)	37(1)	-3(1)	-10(1)	4(1)
C(13)	31(1)	24(1)	27(1)	-1(1)	-6(1)	2(1)
C(14)	27(1)	17(1)	24(1)	-4(1)	-3(1)	1(1)
C(15)	30(1)	19(1)	22(1)	-1(1)	-3(1)	-2(1)
C(16)	34(1)	28(1)	21(1)	3(1)	-5(1)	-2(1)
C(17)	41(1)	33(1)	19(1)	5(1)	0(1)	-8(1)
C(18)	34(1)	23(1)	23(1)	-1(1)	3(1)	-7(1)
C(19)	44(1)	35(1)	21(1)	1(1)	9(1)	-8(1)
C(20)	37(1)	38(1)	31(1)	-4(1)	16(1)	-4(1)
C(21)	31(1)	26(1)	33(1)	-3(1)	7(1)	-2(1)
C(22)	29(1)	21(1)	23(1)	1(1)	5(1)	-4(1)
C(23)	27(1)	19(1)	20(1)	-2(1)	3(1)	-6(1)
C(24)	26(1)	16(1)	20(1)	1(1)	1(1)	-4(1)
C(25)	25(1)	15(1)	18(1)	2(1)	1(1)	-1(1)
C(26)	21(1)	18(1)	22(1)	3(1)	3(1)	0(1)
C(27)	22(1)	17(1)	21(1)	3(1)	1(1)	-1(1)
C(28)	25(1)	31(1)	23(1)	0(1)	-1(1)	-1(1)

Table 10. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for 2.

	x	y	z	U(eq)
H(26)	4893 (15)	2110 (20)	2493 (9)	19 (5)
H(3)	8152 (15)	1550 (20)	1513 (9)	15 (4)
H(8)	10793 (15)	4560 (30)	1324 (10)	30 (5)
H(28B)	3714 (18)	1590 (30)	1474 (12)	46 (6)
H(22)	4915 (15)	4420 (30)	3085 (10)	26 (5)
H(21)	3457 (17)	5030 (30)	3674 (10)	37 (6)
H(7)	9104 (16)	3900 (30)	1688 (10)	28 (5)
H(28A)	4123 (17)	2250 (30)	792 (11)	39 (6)
H(9)	12559 (18)	3580 (30)	1980 (11)	41 (6)
H(19)	4993 (16)	1970 (30)	5277 (11)	37 (6)
H(16)	8472 (18)	490 (30)	4745 (11)	44 (6)
H(10)	12547 (18)	2070 (30)	3040 (11)	39 (6)
H(12)	11532 (17)	1070 (30)	3914 (10)	36 (6)
H(1B)	5980 (20)	1930 (30)	270 (14)	64 (8)
H(17)	6863 (16)	790 (30)	5266 (11)	38 (6)
H(1A)	7110 (20)	830 (30)	450 (12)	58 (7)
H(13)	9852 (16)	790 (30)	4370 (11)	34 (6)
H(20)	3439 (17)	3690 (30)	4756 (11)	39 (6)
H(1C)	5940 (20)	-90 (30)	462 (12)	53 (7)
H(28C)	4246 (16)	250 (30)	976 (10)	39 (6)