SUPPORTING INFORMATION

Studies of axially chiral atropisomers of an indole-substituted phthalonitrile Derivative

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^{1}H NMR spectrum of compound 1 (DMSO-d_6, 500MHz)

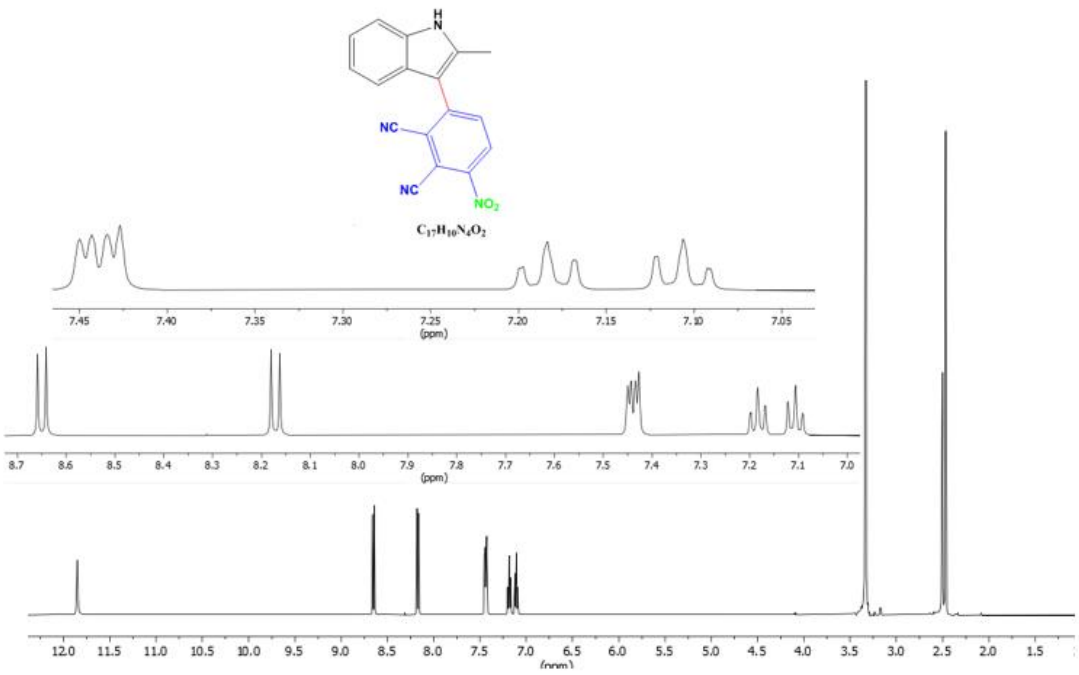

Figure 1: ^{1}H NMR spectrum of compound **1** (DMSO-d_6, 500MHz)

^{13}C NMR spectrum of compound 1 (DMSO-d_6, 500MHz)

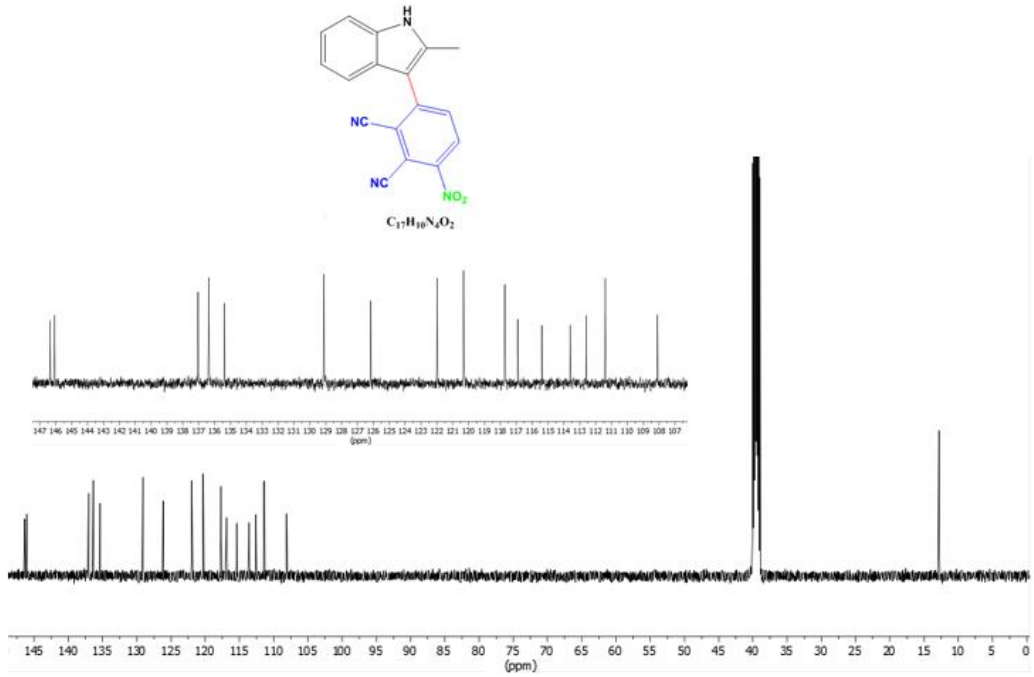

Figure 2: ^{13}C NMR spectrum of compound **1** (DMSO-d_6, 500MHz)

Mass spectrum of compound 1

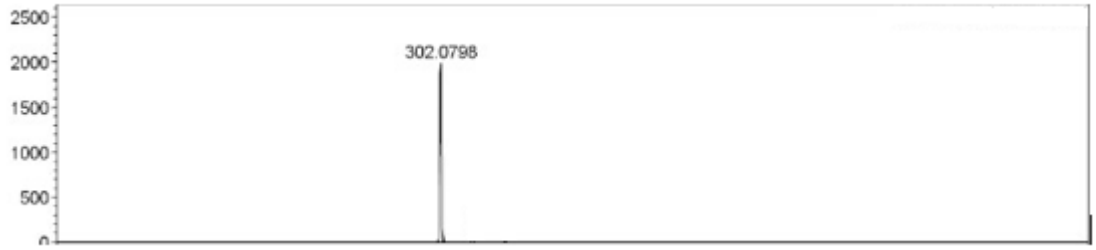

Figure 3: Mass spectrum of compound **1**

Table 1. Atomic charge of **1** / B3LYP/6-311+G(d,p)

C1	-0.306435 C1
C 2	1.016547 C2
C3	-0.853723 C3
C4	-0.372516 C4
C5	-0.215889 C5
C6	-0.558119 C6
C7	-0.042428 C7
C8	0.710581 C8
H9	0.143726 H9
H10	0.144263 H10
H11	0.146884 H11
H12	0.140918 H12
H13	0.35258 H13
N14	-0.054832 N14
C15	-0.734683 C15
H16	0.196938 H16
H17	0.172886 H17
H18	0.171677 H18
C19	0.454169 C19
C20	2.017888 C20
C21	-0.512532 C21
C22	1.876063 C22
C23	-0.353055 C23
H24	0.18143 H24
C25	-0.774381 C25
H26	0.189427 H26
C27	-1.459249 C27
N28	-0.211078 N28
C29	-0.992569 C29
N30	-0.254836 N30
N31	-0.143973 H31
O32	-0.018756
O33	-0.05692