One-pot Synthesis of Substituted 2-Aminobenzo[*b*]thiophenes.

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List of contents	Page number
¹ H-spectrum of methyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3a) in CDCl ₃ .	S3
¹³ C-spectrum of methyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3a) in CDCl ₃ .	S4
MS of methyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3a).	S5
¹ H-spectrum of allyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3b) in CDCl ₃ .	S6
¹³ C-spectrum of allyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3b) in CDCl ₃ .	S7
MS of allyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3b).	S8
¹ H-spectrum of butyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3c) in CDCl ₃ .	S9
¹³ C-spectrum of butyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3c) in CDCl ₃ .	S10
MS of butyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3c).	S11
¹ H-spectrum of benzyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3d) in CDCl ₃ .	S12
¹³ C-spectrum of benzyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3d) in CDCl ₃ .	S13
MS of benzyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3d).	S14
¹ H-spectrum of isopropyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3e) in CDCl ₃ .	S15
¹³ C-spectrum of isopropyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3e) in CDCl ₃ .	S16

MS of isopropyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3e).	S17
¹ H-spectrum of cyclopentyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3f) in CDCl ₃ .	S18
¹³ C-spectrum of cyclopentyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3f) in CDCl ₃ .	S19
MS of cyclopentyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3f).	S20
¹ H-spectrum of cyclohexyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3g) in CDCl ₃ .	S21
¹³ C-spectrum of cyclohexyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3g) in CDCl ₃ .	S22
MS of cyclohexyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3g).	S23
¹ H-spectrum of dimethyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3h) in CDCl ₃ .	S24
¹³ C-spectrum of dimethyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3h) in CDCl ₃ .	S25
MS of dimethyl-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-amine (3h).	S26
¹ H-spectrum of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-pyrrolidine (3i) in CDCl ₃ .	S27
¹³ C-spectrum of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-pyrrolidine (3i) in CDCl ₃ .	S28
MS of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-pyrrolidine (3i).	S29
¹ H-spectrum of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-piperidine (3j) in CDCl ₃ .	S30
¹³ C-spectrum of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-piperidine (3j) in CDCl ₃ .	S31
MS of 1-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-piperidine (3j).	S32
¹ H-spectrum of 4-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-morpholine (3k) in CDCl ₃ .	S33
¹³ C-spectrum of 4-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-morpholine (3k) in CDCl ₃ .	S34
MS of 4-(5-nitro-benzo[<i>b</i>]thiophen-2-yl)-morpholine (3k).	S35
¹ H-spectrum of 3-methyl-5-nitro-benzo[<i>d</i>]isothiazole (4) in CDCl ₃ .	S36
¹³ C-spectrum of 3-methyl-5-nitro-benzo[<i>d</i>]isothiazole (4) in CDCl ₃ .	S37
MS of 3-methyl-5-nitro-benzo[<i>d</i>]isothiazole (4).	S38
General methods and materials.	S39

^1H -spectrum of methyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3a**) in CDCl_3 .

^1H NMR (CDCl_3)

2-Methylamino-5-nitrobenzo[*b*]thiophene
AS34_2 Fractions 3-7

^{13}C -spectrum of methyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3a**) in CDCl_3 .

^{13}C NMR (CDCl_3)

MS of methyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3a**)

^1H -spectrum of allyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3b**) in CDCl_3 .

^1H NMR (CDCl_3)

2-Allylamino-5-nitrobenzo[*b*]thiophene
As31 2 Fractions 2-7

^{13}C -spectrum of allyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (3b) in CDCl_3 .

MS of allyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3b**).

^1H -spectrum of butyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3c**) in CDCl_3 .

^{13}C -spectrum of butyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3c**) in CDCl_3 .

MS of butyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3c**).

¹H-spectrum of benzyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3d**) in CDCl₃.

^{13}C -spectrum of benzyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3d**) in CDCl_3 .

MS of benzyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3d**).

^1H -spectrum of isopropyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3e**) in CDCl_3

^{13}C -spectrum of isopropyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3e**) in CDCl_3

MS of isopropyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3e**).

^1H -spectrum of cyclopentyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3f**) in CDCl_3

^1H NMR (CDCl_3)

2-Cyclopentylamino-5-nitrobenzo[*b*]thiophene
A841

^{13}C -spectrum of cyclopentyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3f**) in CDCl_3 .

MS of cyclopentyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3f**).

^1H -spectrum of cyclohexyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3g**) in CDCl_3 .

^{13}C -spectrum of cyclohexyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3g**) in CDCl_3 .

MS of cyclohexyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3g**).

^1H -spectrum of dimethyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3h**) in CDCl_3

^{13}C -spectrum of dimethyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3h**) in CDCl_3 .

MS of dimethyl-(5-nitro-benzo[*b*]thiophen-2-yl)-amine (**3h**).

^1H -spectrum of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-pyrrolidine (**3i**) in CDCl_3 .

^{13}C -spectrum of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-pyrrolidine (**3i**) in CDCl_3 .

AS20_1_(3+4)
5-Nitro-2-pyrrolidinobenzo[*b*]thiophene

^{13}C NMR (CDCl_3)

MS of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-pyrrolidine (**3i**).

^1H -spectrum of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-piperidine (**3j**) in CDCl_3 .

^{13}C -spectrum of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-piperidine (**3j**) in CDCl_3 .

MS of 1-(5-nitro-benzo[*b*]thiophen-2-yl)-piperidine (**3j**).

^1H -spectrum of 4-(5-nitro-benzo[*b*]thiophen-2-yl)-morpholine (**3k**) in CDCl_3 .

^{13}C -spectrum of 4-(5-nitro-benzo[*b*]thiophen-2-yl)-morpholine (**3k**) in CDCl_3 .

MS of 4-(5-nitro-benzo[*b*]thiophen-2-yl)-morpholine (**3k**).

^1H -spectrum of 3-methyl-5-nitro-benzo[*d*]isothiazole (**4**) in CDCl_3 .

^1H NMR (CDCl_3)

^{13}C -spectrum of 3-methyl-5-nitro-benzo[*d*]isothiazole (**4**) in CDCl_3 .

MS of 3-methyl-5-nitro-benzo[*d*]isothiazole (**4**).

General methods and materials.

Reagents. All chemicals were used as purchased. Solvents for crystallization and chromatography were technical grade. When required, solvents were freshly distilled from appropriate drying agents before use.

General Methods. Analytical TLC was performed with silica gel 60 F₂₅₄ plates. Melting points are uncorrected. Mass spectra were obtained on a triple quadrupole mass spectrometer by electron ionization (EI) at 70 eV. High-resolution mass spectra were recorded on a double focusing magnetic sector mass spectrometer using EI at 70 eV. ¹H and ¹³C NMR spectra were recorded at 300 and 75 MHz respectively, in CDCl₃ using TMS (δ = 0.0 ppm) or the signal of residual solvent protons as an internal standard.

GC-MS analyses were carried out using a gas chromatograph with a series mass selective detector (EI, 70 eV), using a capillary column of 25 m length and 0.25 mm I.D. An initial temperature of 70 °C was maintained for 3 min and then a heating rate of 20 °C/min was applied until the final temperature of 270 °C was reached.