

A Comparative Study of the Synthesis and Hydrolysis Processes of *sym*-Triaminobenzene Homologues

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Table of contents

¹ H and ¹³ C NMR of compound 2b	S2
¹ H and ¹³ C NMR of compound 2c	S3
¹ H and ¹³ C NMR of compound 2d	S4
¹ H and ¹³ C NMR of compound 3b	S5
¹ H and ¹³ C NMR of compound 3c	S6
¹ H and ¹³ C NMR of compound 3d	S7
¹ H and ¹³ C NMR of compound 4	S8

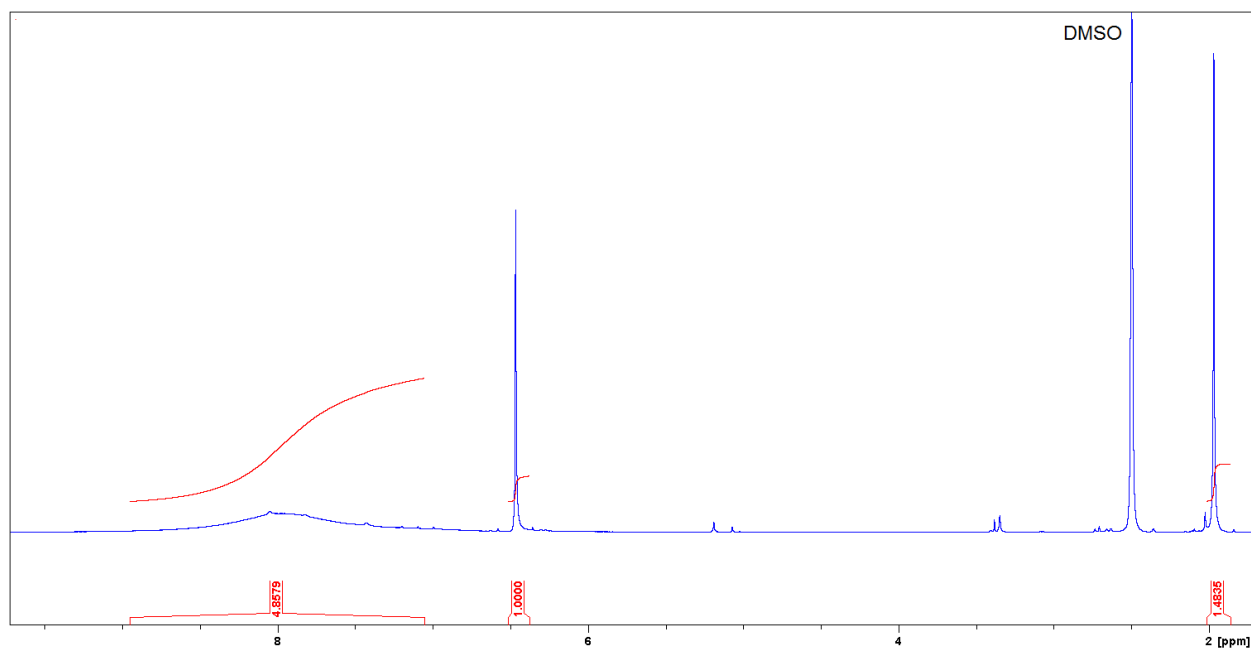


Figure S1. ^1H NMR (DMSO- d_6) spectrum of compound **2b**

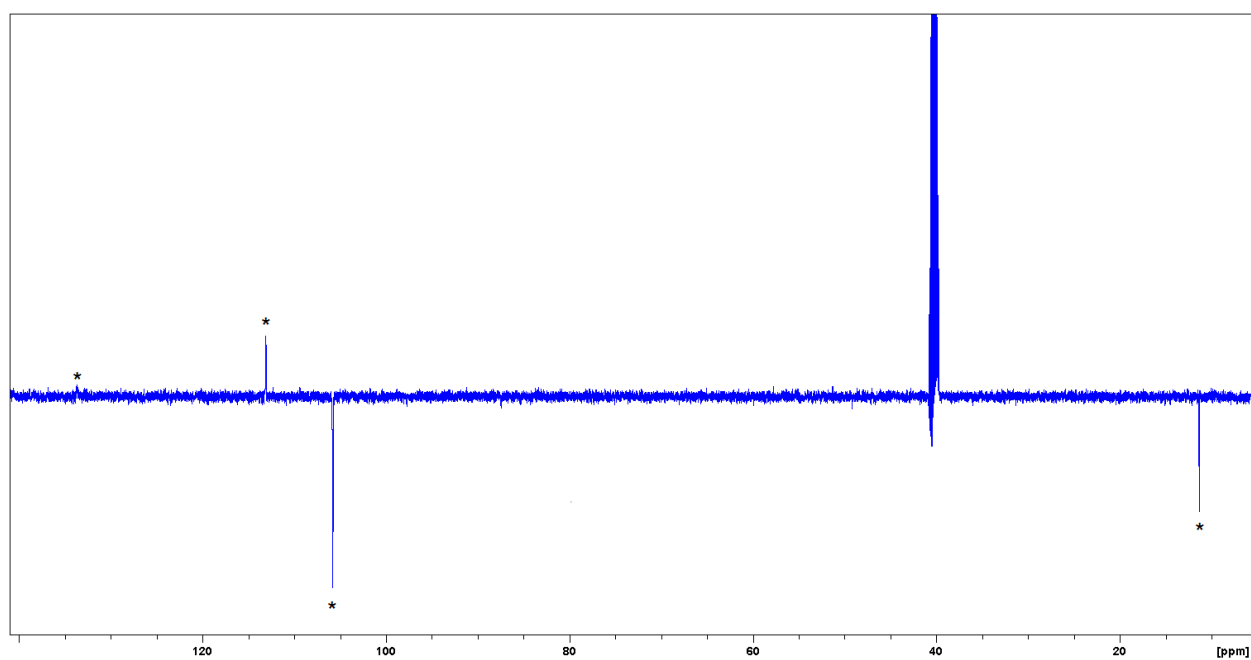
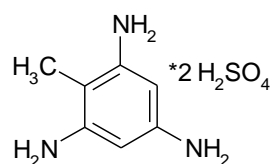


Figure S2. ^{13}C NMR (DMSO- d_6) spectrum of compound **2b**



2,4,6-Triaminotoluene disulfate (2b)

^1H NMR (500 MHz, DMSO- d_6) δ_{H} ppm: 1.97 (s, 3H, CH_3), 6.47 (s, 2H, CH), 7.95 (bs, NH).

^{13}C NMR (125 MHz, DMSO- d_6) δ_{C} ppm: 11.4, 105.8, 113.1, 133.7.

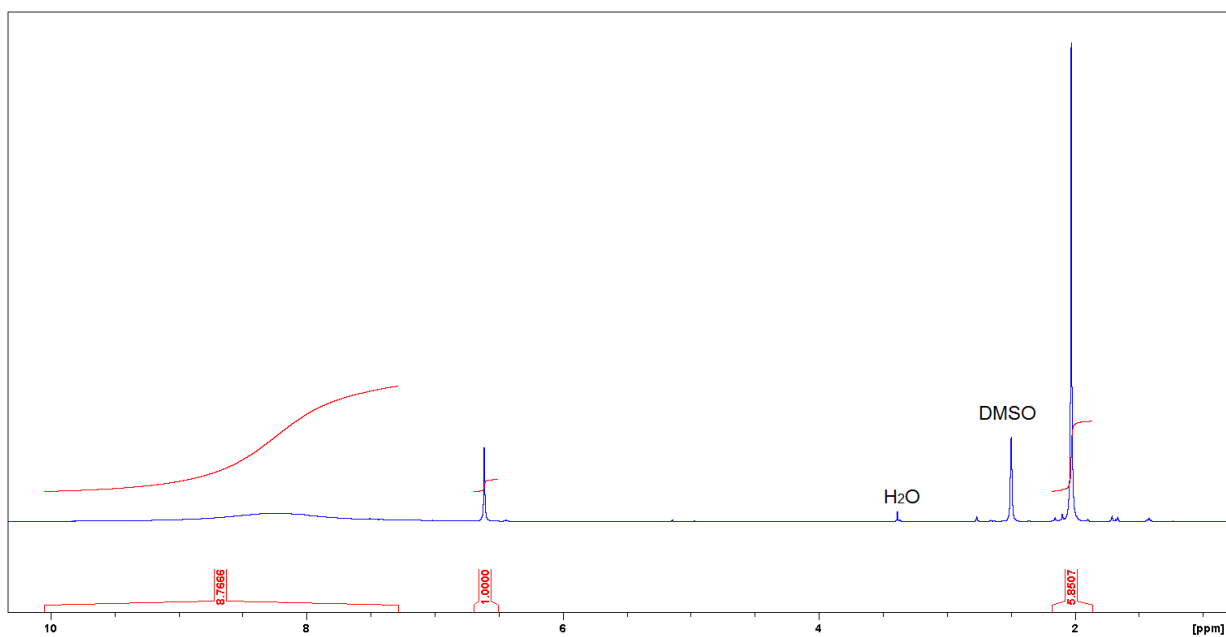


Figure S3. ^1H NMR (DMSO- d_6) spectrum of compound **2c**

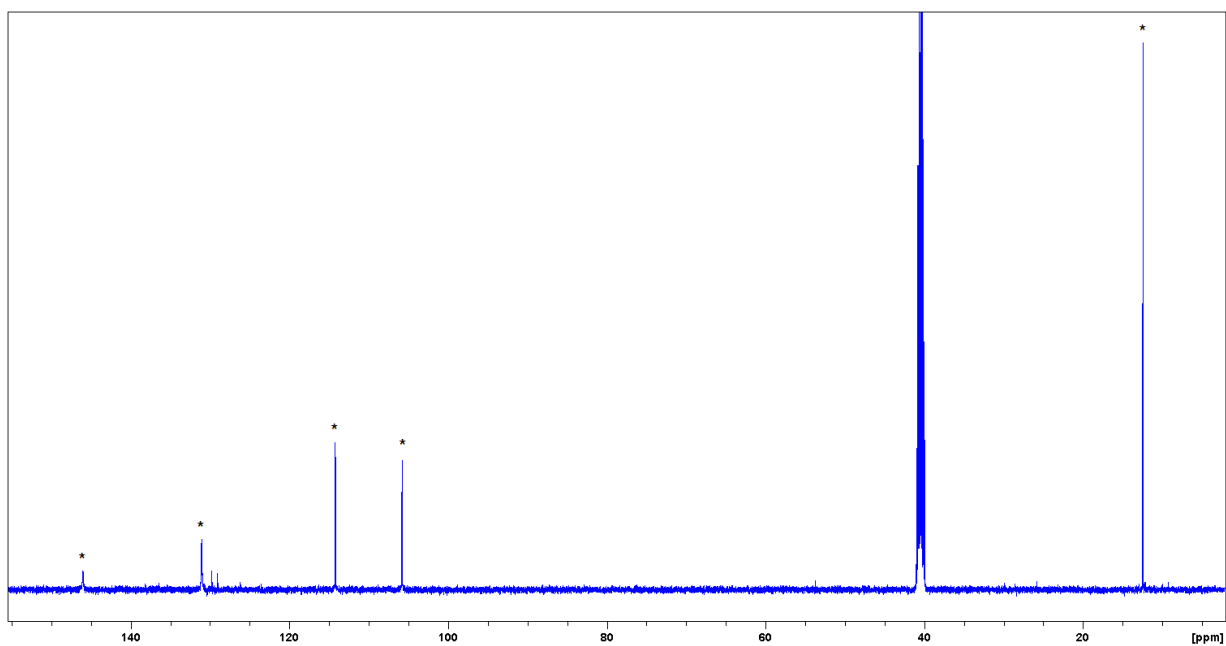
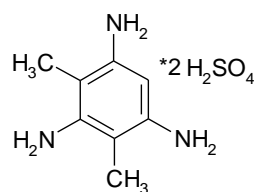


Figure S4. ^{13}C NMR (DMSO- d_6) spectrum of compound **2c**



2,4,6-Triaminoxylene disulfate (**2c**)

^1H NMR (500 MHz, DMSO- d_6) δ_{H} ppm: 2.03 (s, 6H, CH_3), 6.61 (s, 1H, CH), 8.25 (bs, NH).

^{13}C NMR (125 MHz, DMSO- d_6) δ_{C} ppm: 12.5, 105.8, 114.2, 131.1, 146.1.

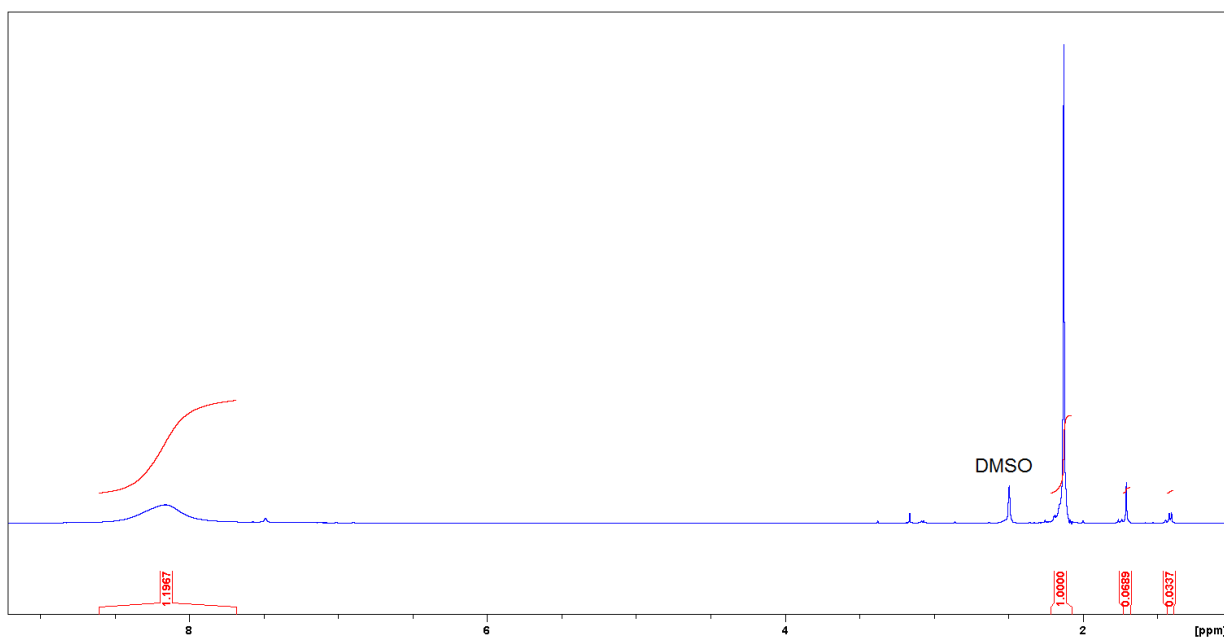


Figure S5. ^1H NMR (DMSO- d_6) spectrum of compound **2d**

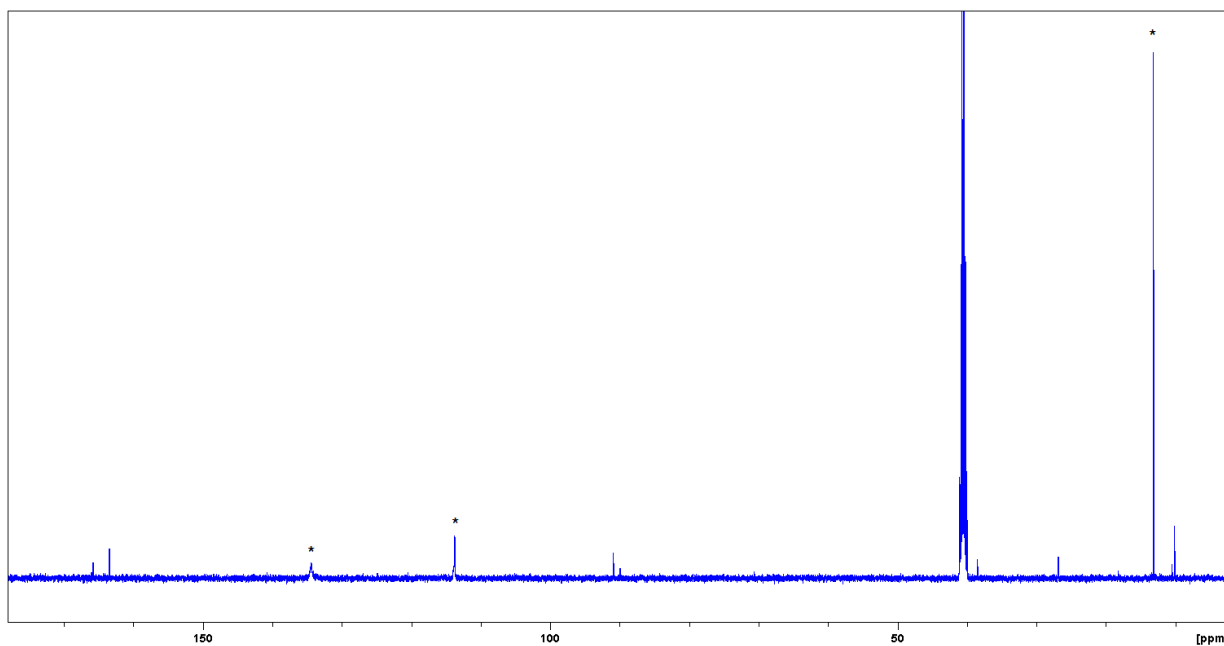
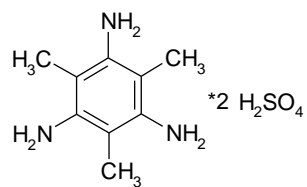


Figure S6. ^{13}C NMR (DMSO- d_6) spectrum of compound **2d**



2,4,6-Triaminomesitylene disulfate (2d)

^1H NMR (500 MHz, DMSO- d_6) δ_{H} ppm: 2.13 (s, 9H, CH_3), 8.17 (bs, NH).

^{13}C NMR (125 MHz, DMSO- d_6) δ_{C} ppm: 13.1, 113.7, 134.4.

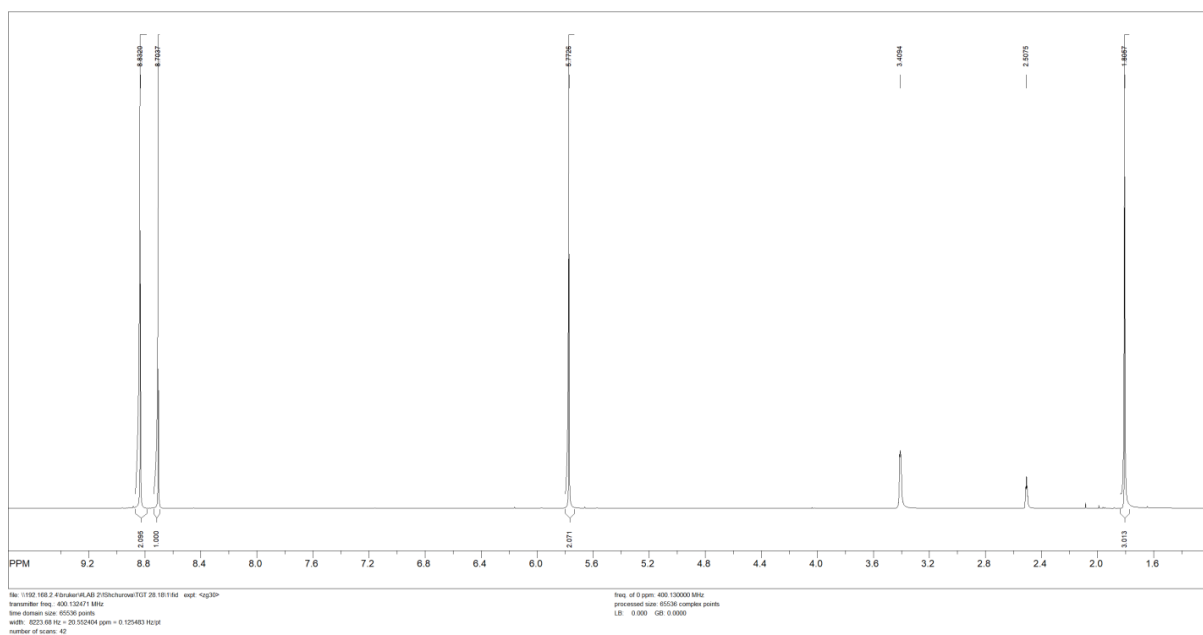


Figure S7. ^1H NMR (DMSO-d_6) spectrum of compound **3b**

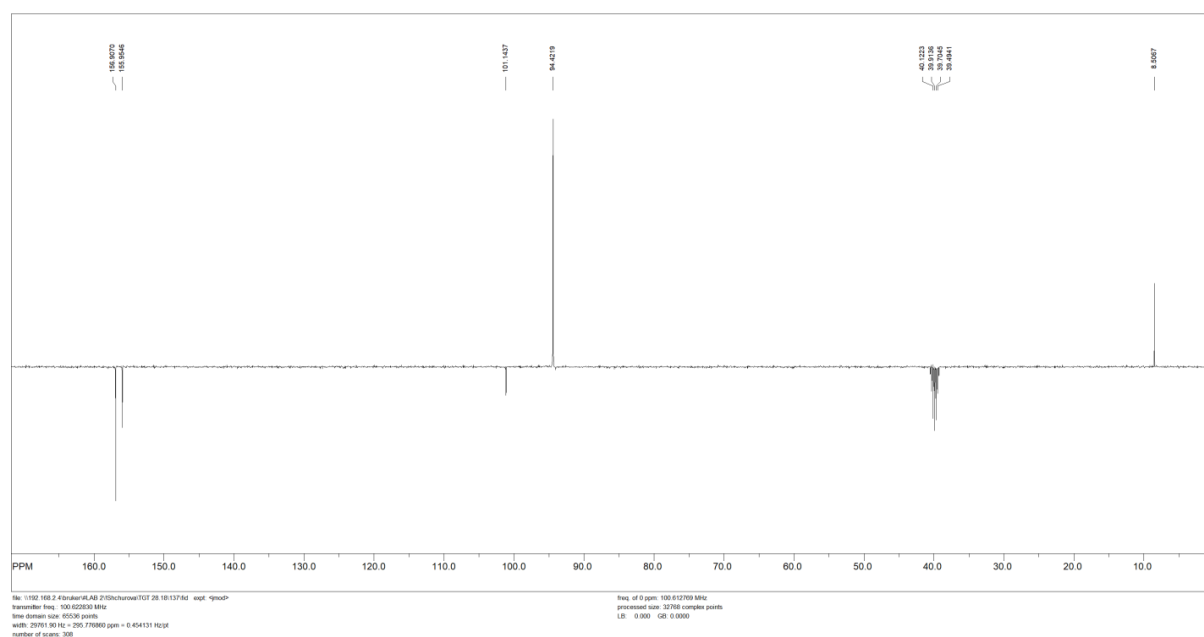
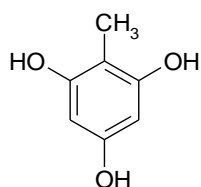


Figure S8. ^{13}C NMR (DMSO-d_6) spectrum of compound **3b**



2-Methyl phloroglucinol (3b)

^1H NMR (400 MHz, DMSO-d_6) δ_{H} ppm: 1.81 (s, 3H, CH₃), 5.77 (s, 2H, Ar), 8.70 (s, 1H, OH), 8.83 (s, 2H, OH).

^{13}C NMR (100 MHz, DMSO-d_6) δ_{C} ppm: 8.5, 94.4, 101.1, 156.0, 156.9.

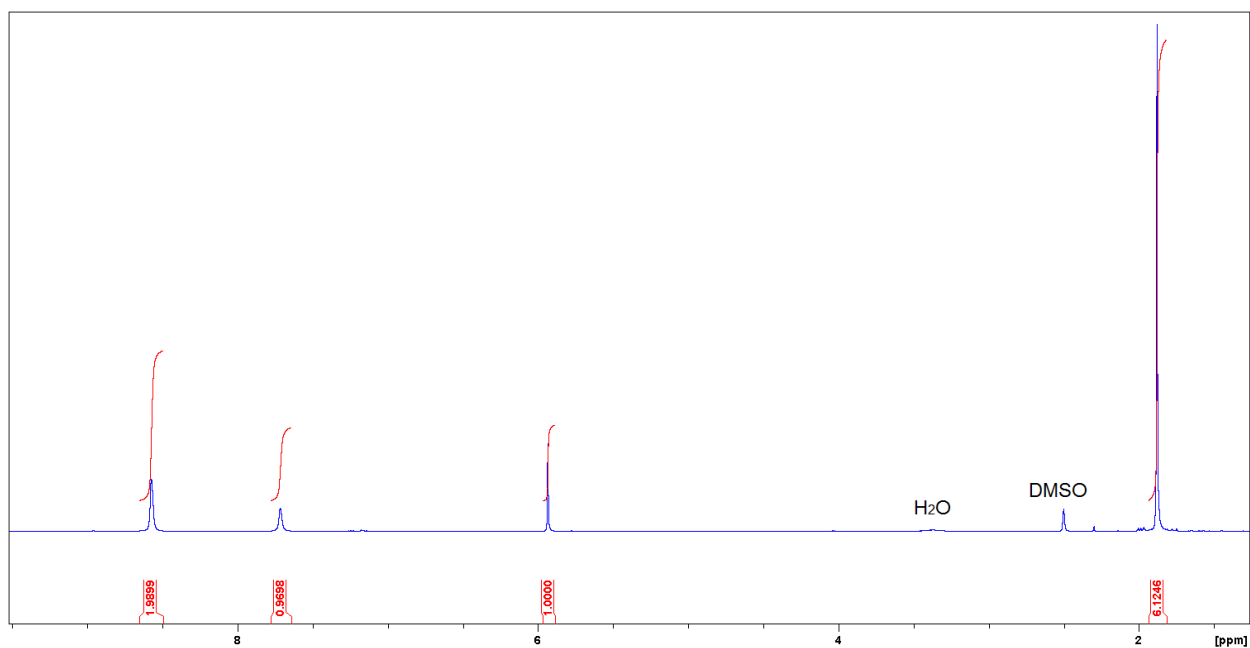


Figure S9. ^1H NMR (DMSO- d_6) spectrum of compound **3c**

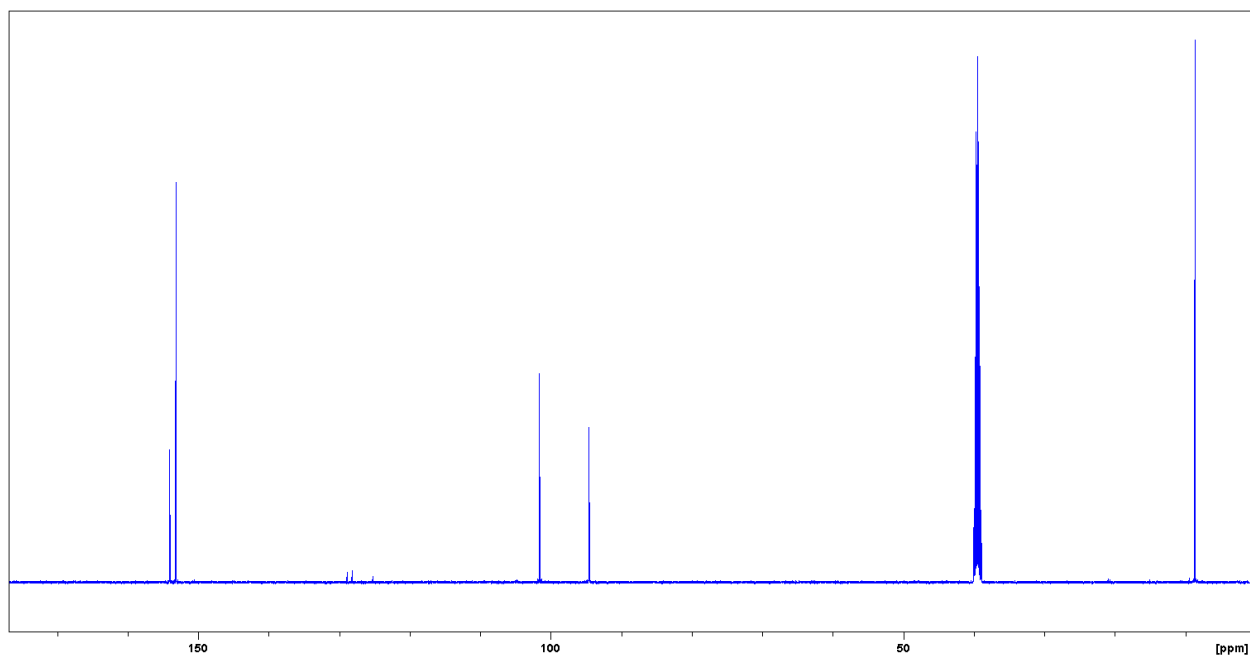
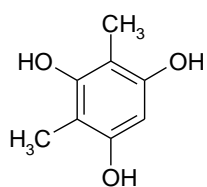


Figure S10. ^{13}C NMR (DMSO- d_6) spectrum of compound **3c**



2,4-Dimethyl phloroglucinol (**3c**)

^1H NMR (500 MHz, DMSO- d_6) δ_{H} ppm: 1.88 (s, 6H, CH_3), 5.93 (s, 1H, Ar), 7.72 (s, 1H, OH), 8.58 (s, 2H, OH).

^{13}C NMR (125 MHz, DMSO- d_6) δ_{C} ppm: 8.7, 94.6, 101.6, 153.2, 154.1.

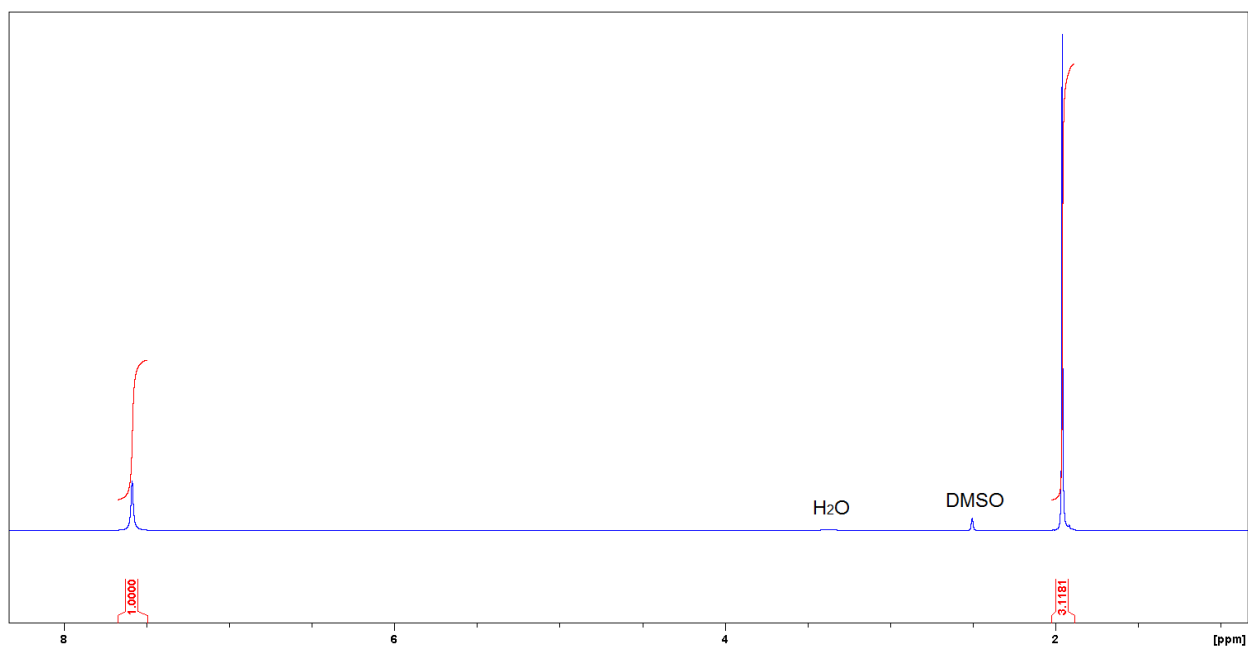


Figure S11. ^1H NMR (DMSO- d_6) spectrum of compound **3d**

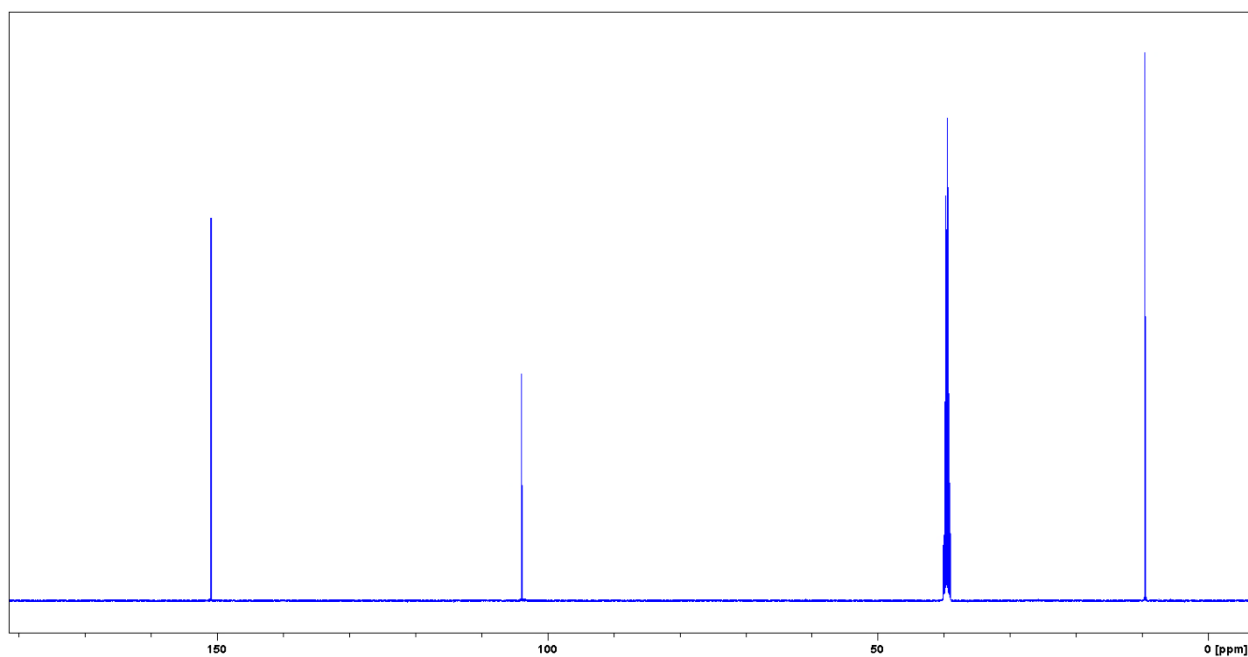
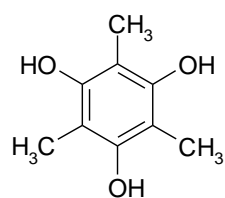


Figure S12. ^{13}C NMR (DMSO- d_6) spectrum of compound **3d**



2,4,6-Trimethyl phloroglucinol (3d)

^1H NMR (500 MHz, DMSO- d_6) δ_{H} ppm: 1.95 (s, 9H, CH_3), 7.59 (s, 3H, OH).

^{13}C NMR (125 MHz, DMSO- d_6) δ_{C} ppm: 9.5, 103.9, 150.9.

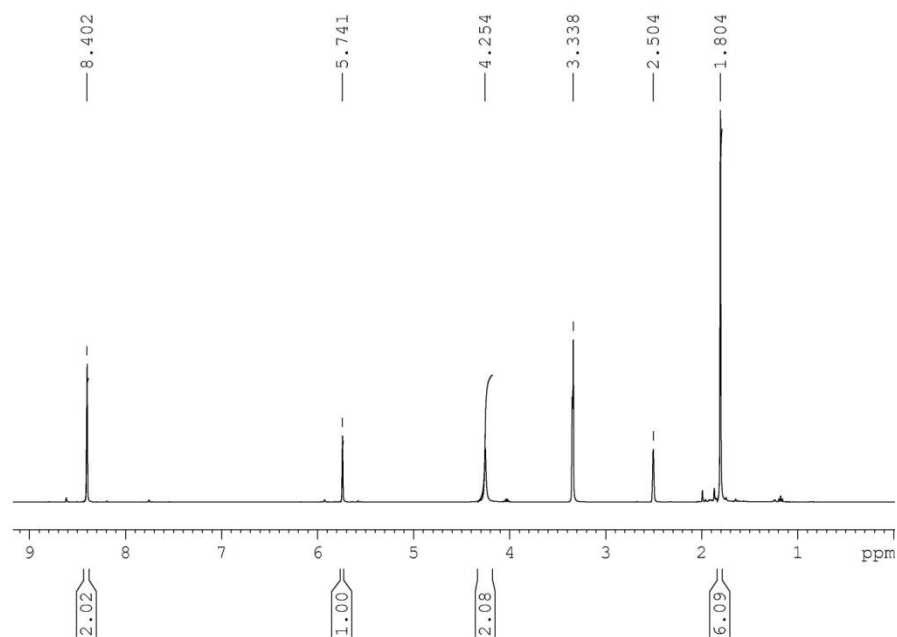


Figure S13. ^1H NMR (DMSO- d_6) spectrum of compound **4**

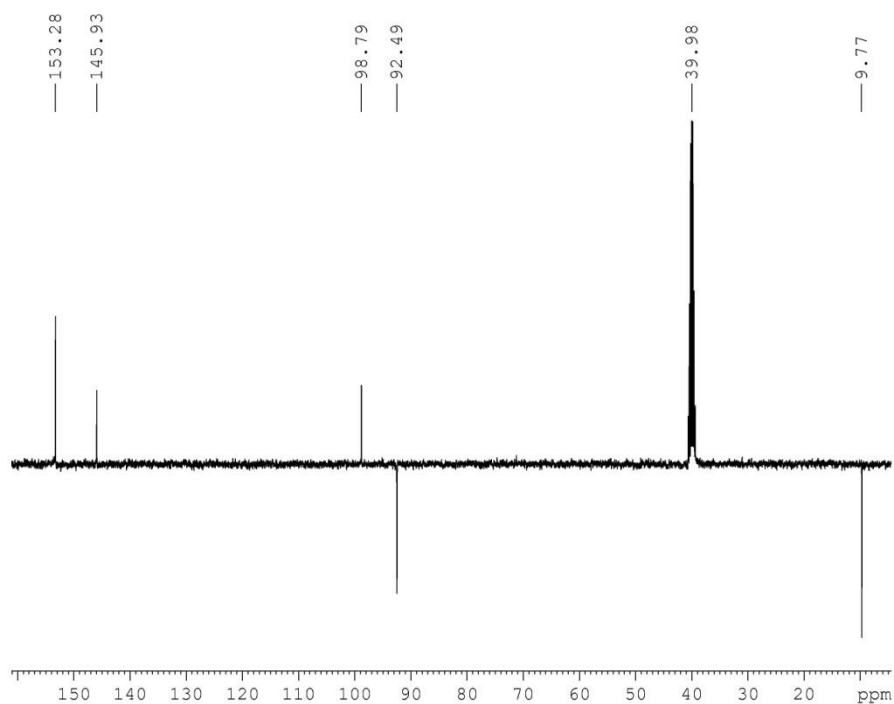
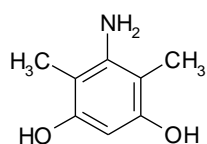


Figure S14. ^{13}C NMR (DMSO- d_6) spectrum of compound **4**



2-Amino-4,6-dimethylphloroglucinol (4)

^1H NMR (400 MHz, DMSO- d_6): δ_{H} ppm: 1.80 (s, 6 H, CH_3), 4.25 (s, 2 H, NH_2), 5.74 (s, 1 H, Ar-H), 8.40 (s, 2 H, OH).

^{13}C NMR (125 MHz, DMSO- d_6): δ_{C} ppm: 9.8, 94.5, 98.8, 145.9, 153.3.