





# 1,2-*O*-Isopropylidene-3-*O*-butylglucofuranose-derived ester, and ether: Synthesis, characterization, and antimicrobial study

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## Supplementary file

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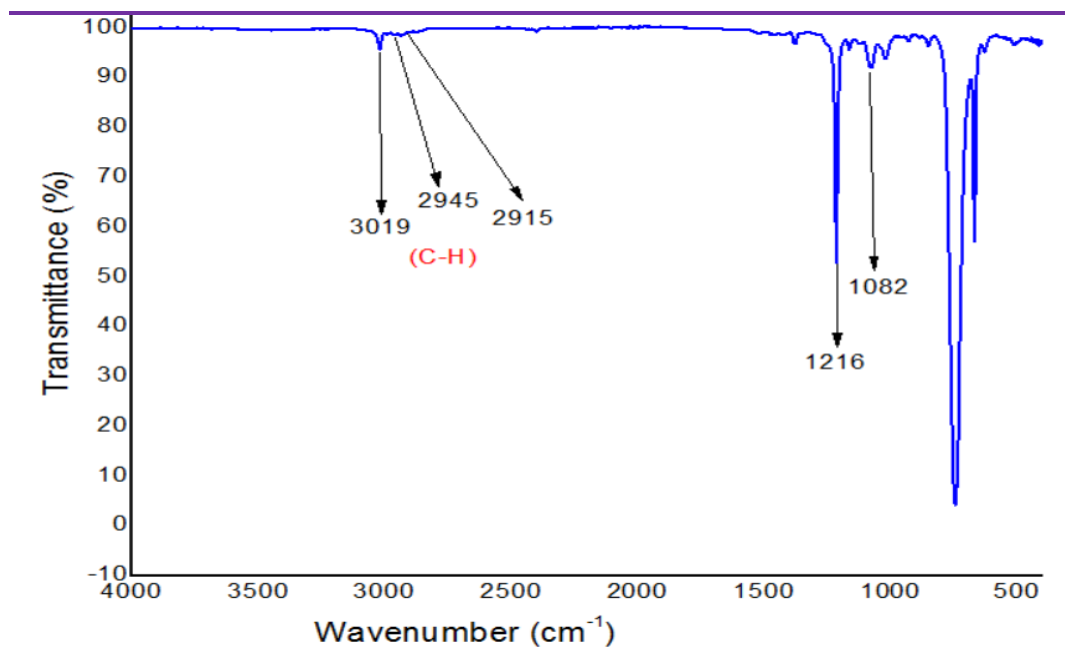


Figure S1. FT-IR (neat) spectrum of compound 4.

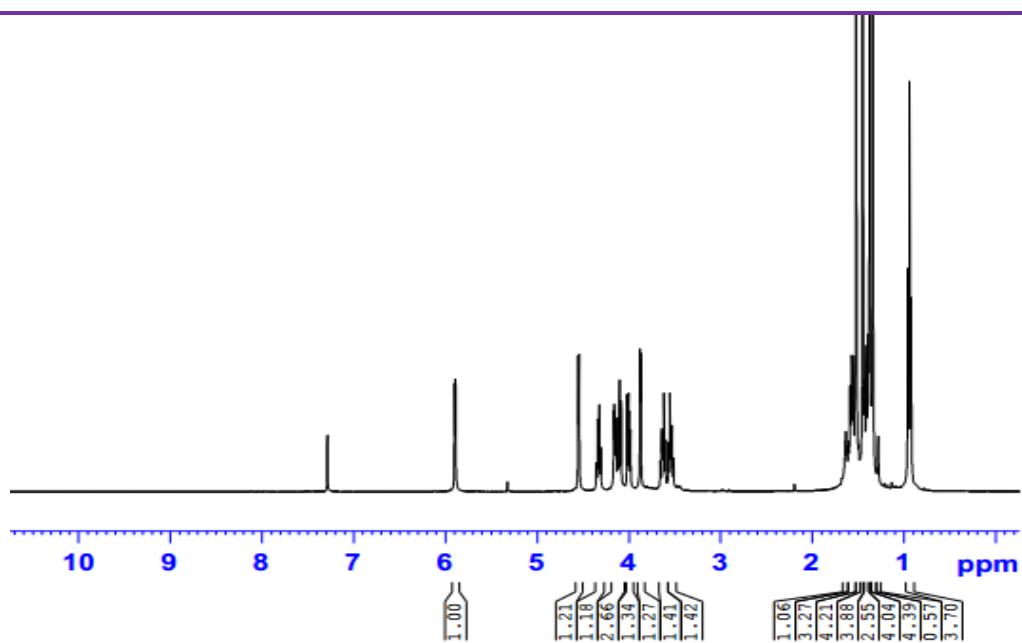
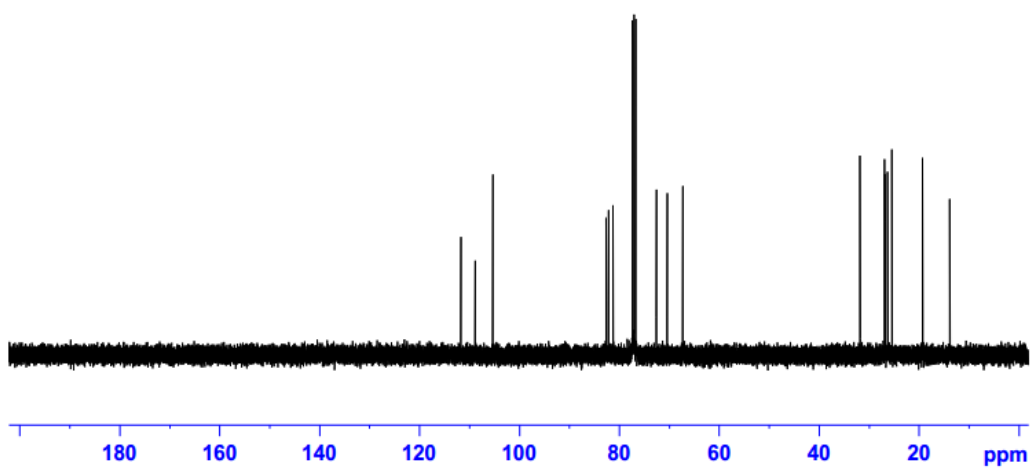
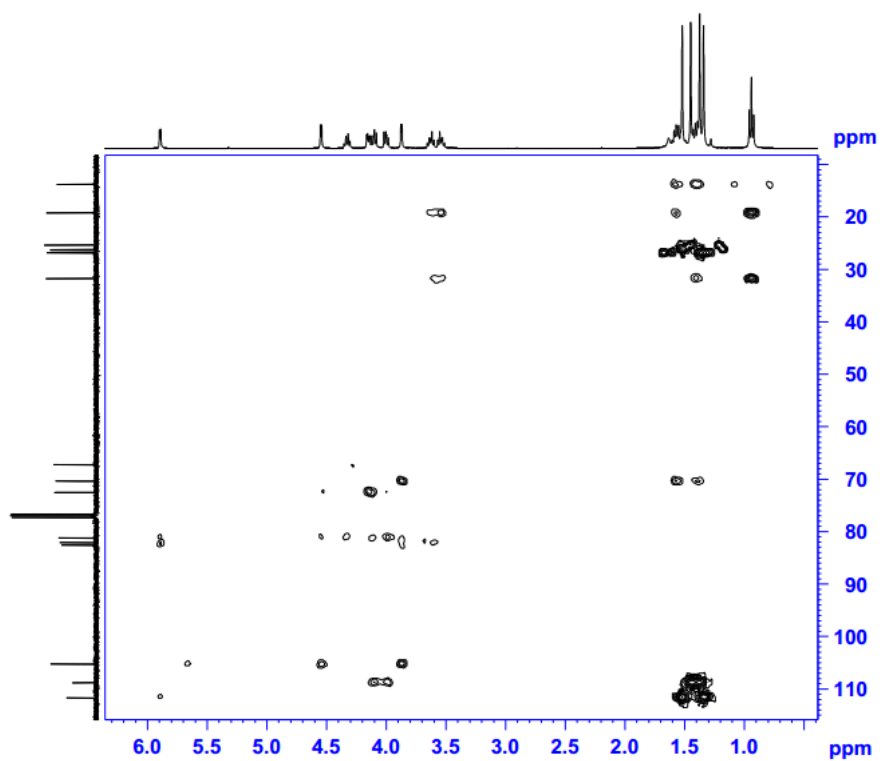


Figure S2. <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz) spectrum of 4.



**Figure S3.**  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz) spectrum of **4**.



**Figure S4.** 2D HMBC spectrum of compound **4**.

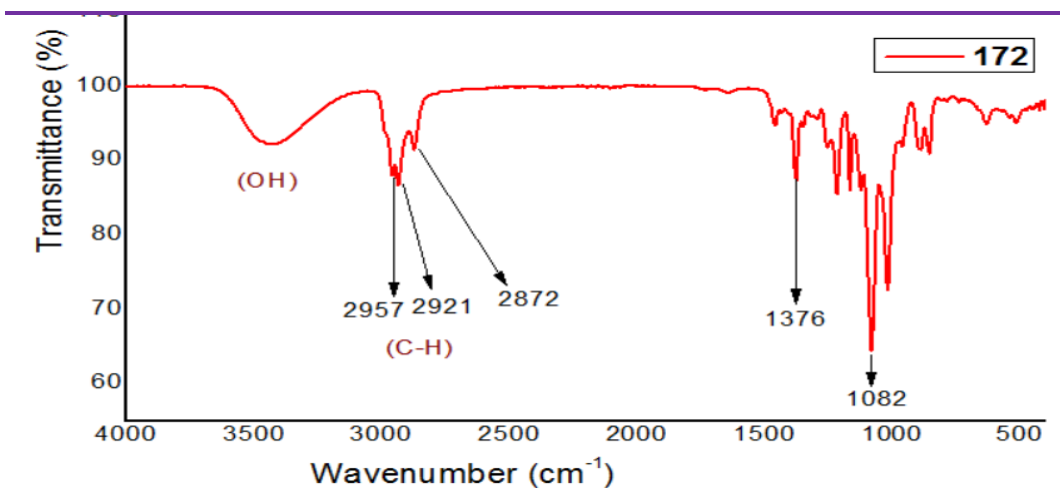


Figure S5. FT-IR (neat) spectrum of compound 5.

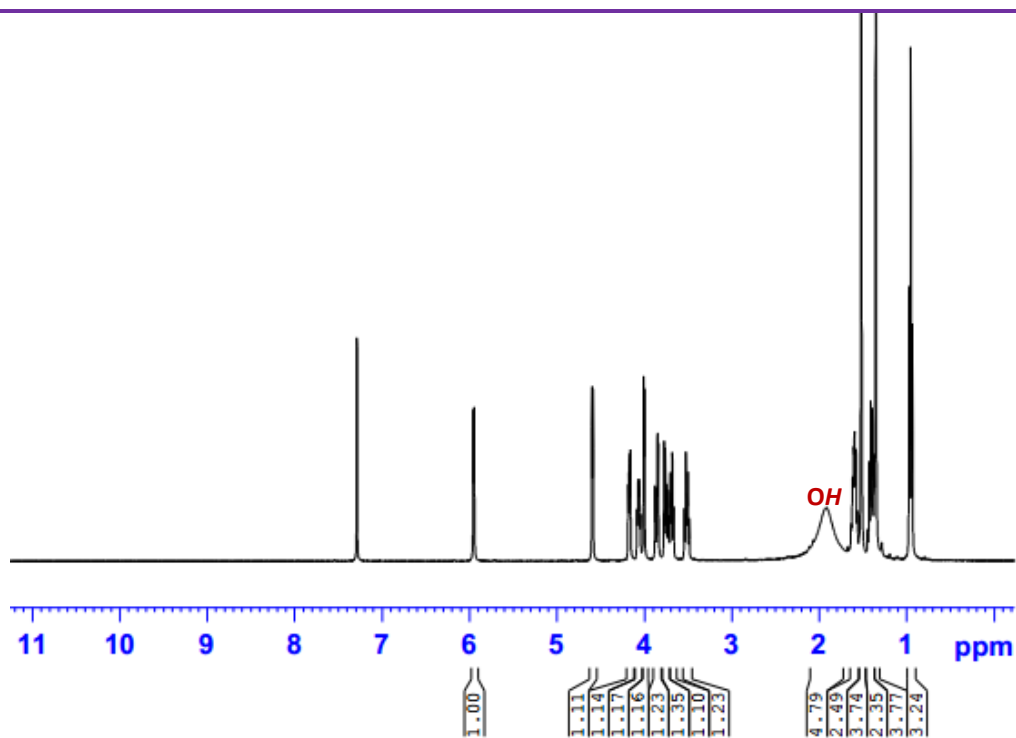


Figure S6. <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz) spectrum of 5.

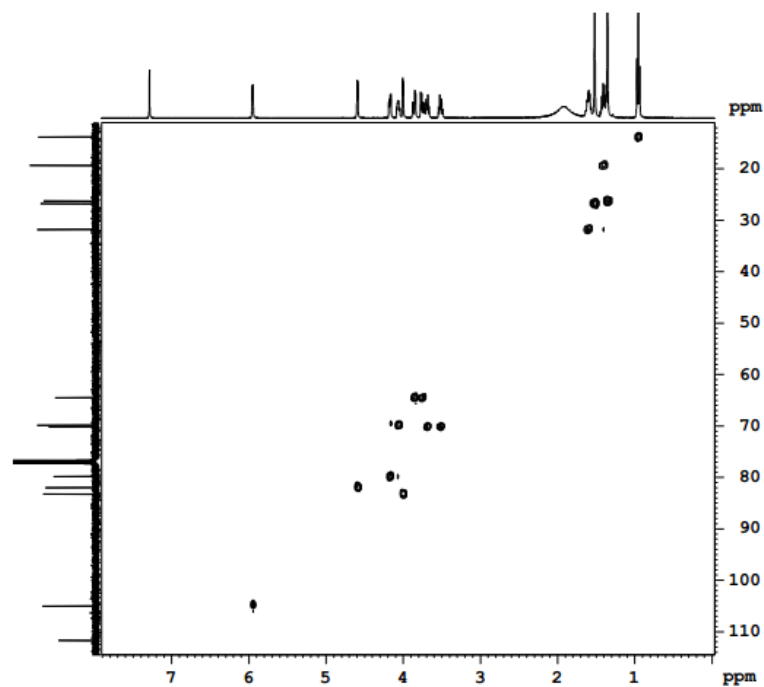


Figure S7. 2D HSQC spectrum of compound 5.

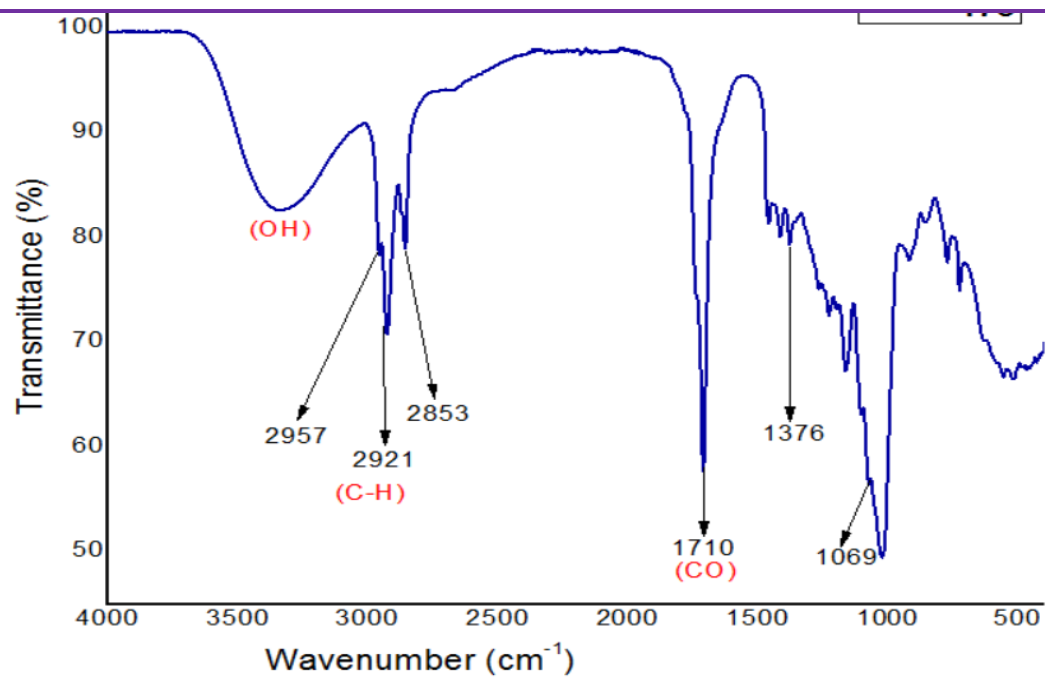


Figure S8. FT-IR (neat) spectrum of 6-O-pentanoate 6.

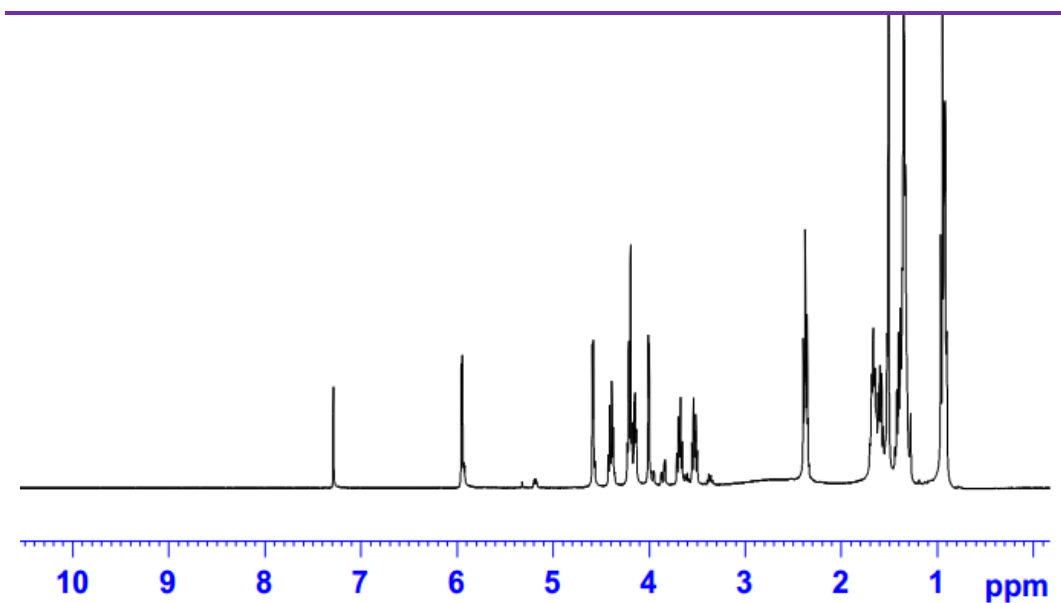


Figure S9.  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz) spectrum of **6**.

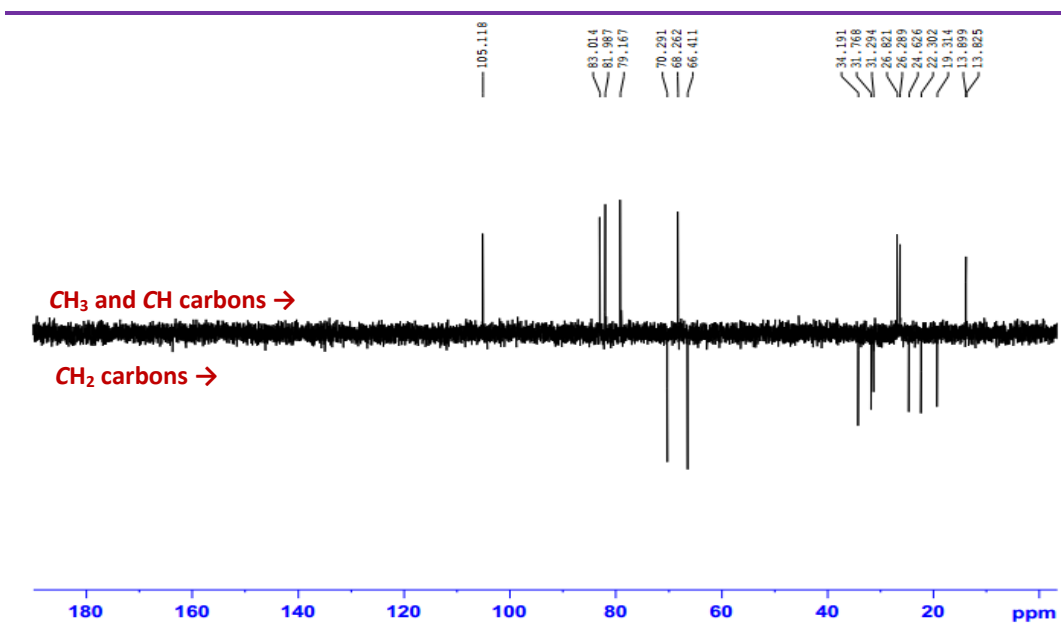
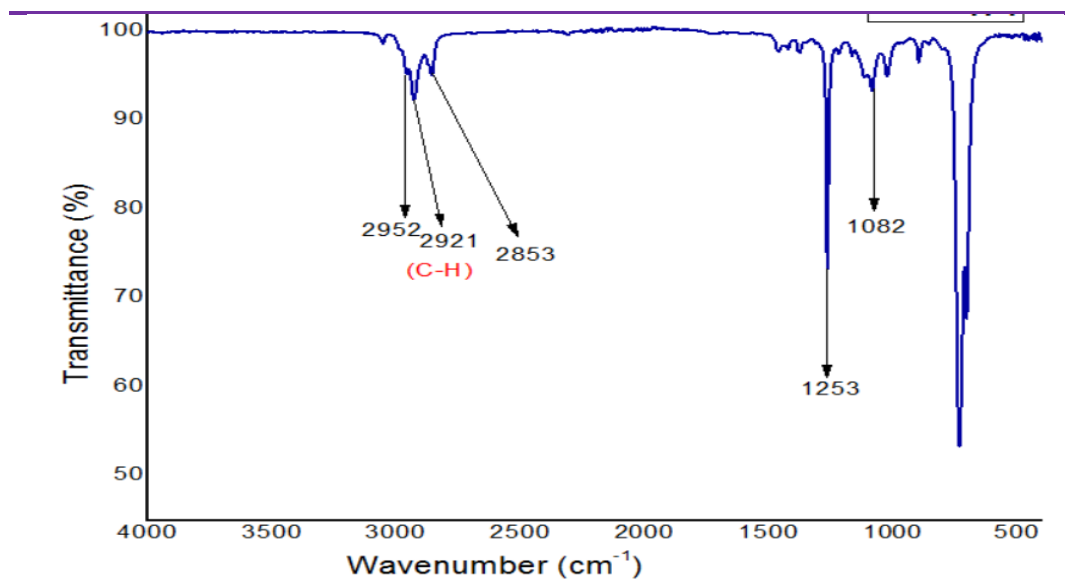
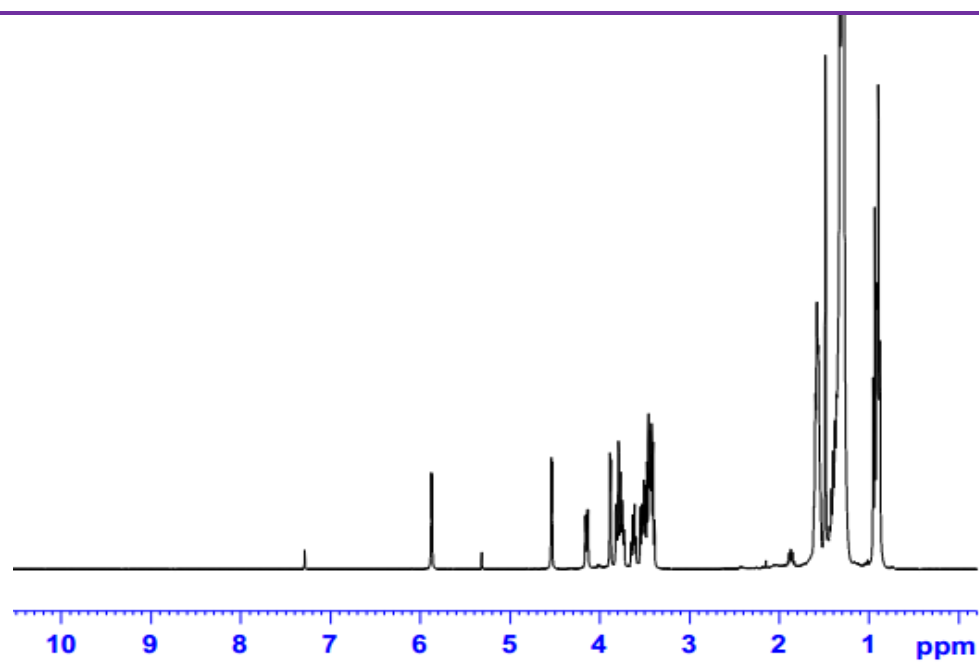


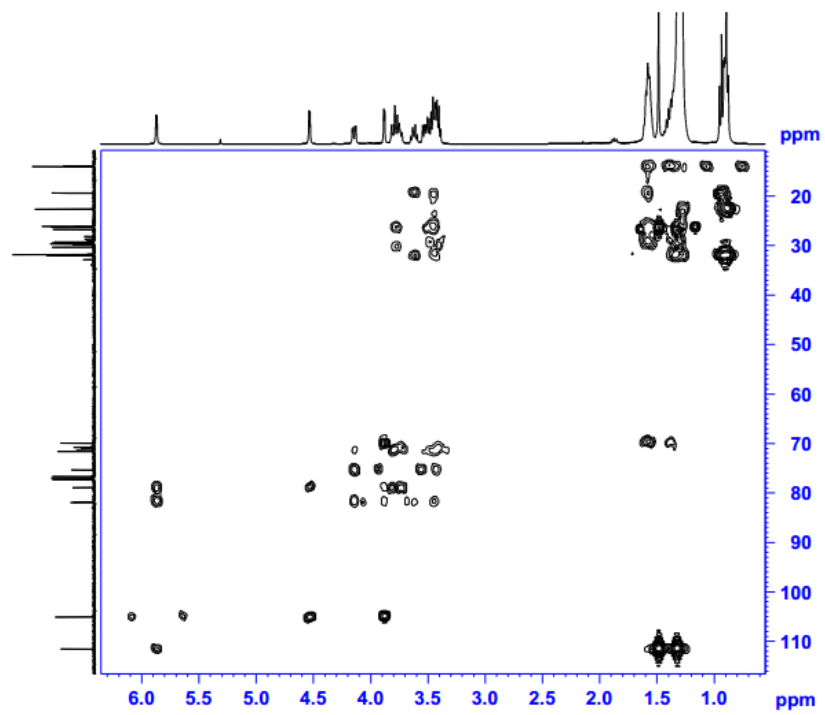
Figure S10. 2D DEPT-135 spectrum of compound **6**.



**Figure S11.** FT-IR (neat) spectrum of ether compound **7**.



**Figure S12.** <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz) spectrum of **7**.



**Figure S13.** 2D HMBC spectrum of compound **7**.