

Supporting Information

Electrochemical Synthesis of Sulfinate Esters: Nickel (II)-Catalyzed Oxidative-Esterification of Thiols with Alcohols in an Undivided Cell

Babak Kaboudin,^{,[a]} Leila Behrouzi,^[a] Foad Kazemi,^[a] Mohammad M. Najafpour^[a] and Hiroshi Aoyama^[b]*

^a Department of Chemistry, Institute for Advanced Studies in Basic Sciences, Gava zang, Zanjan, Iran

^bSchool of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Horinouchi, Hachioji, Tokyo 192-0392,
Japan

E-mail: kaboudin@iasbs.ac.ir

Table of Contents

| | |
|---|--------|
| NMR Spectra for the compounds 3a-3k and 4 | S3-S14 |
| Figure S1: ¹ H NMR Spectra of 3a | |
| Figure S2: ¹³ C NMR Spectra of 3a | |
| Figure S3: ¹ H NMR Spectra of 3b | |
| Figure S4: ¹³ C NMR Spectra of 3b | |
| Figure S5: ¹ H NMR Spectra of 3c | |
| Figure S6: ¹³ C NMR Spectra of 3c | |
| Figure S7: ¹ H NMR Spectra of 3d | |
| Figure S8: ¹³ C NMR Spectra of 3d | |
| Figure S9: ¹ H NMR Spectra of 3e | |
| Figure S10: ¹³ C NMR Spectra of 3e | |
| Figure S11: ¹ H NMR Spectra of 3f | |

Figure S12: ^{13}C NMR Spectra of **3f**

Figure S13: ^1H NMR Spectra of **3g**

Figure S14: ^{13}C NMR Spectra of **3g**

Figure S15: ^1H NMR Spectra of **3h**

Figure S16: ^{13}C NMR Spectra of **3h**

Figure S17: ^1H NMR Spectra of **3i**

Figure S18: ^{13}C NMR Spectra of **3i**

Figure S19: ^1H NMR Spectra of **3j**

Figure S20: ^{13}C NMR Spectra of **3j**

Figure S21: ^1H NMR Spectra of **3k**

Figure S22: ^{13}C NMR Spectra of **3k**

Figure S23: ^1H NMR Spectra of **4a**

Figure S24: ^{13}C NMR Spectra of **4a**

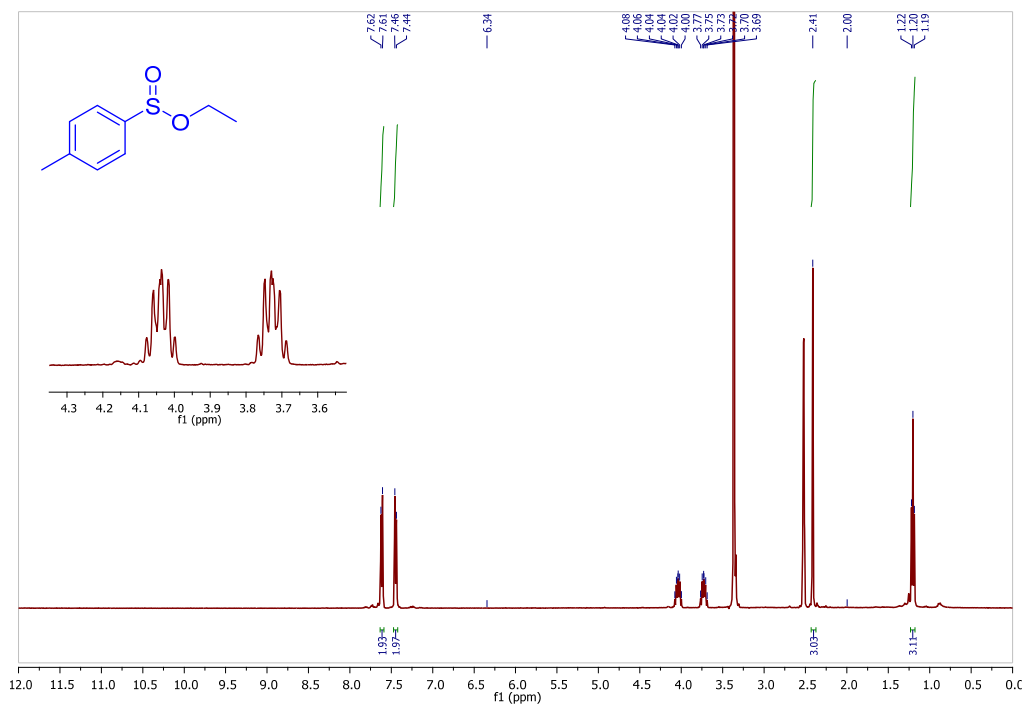


Figure S1: ¹H NMR Spectra of **3a**

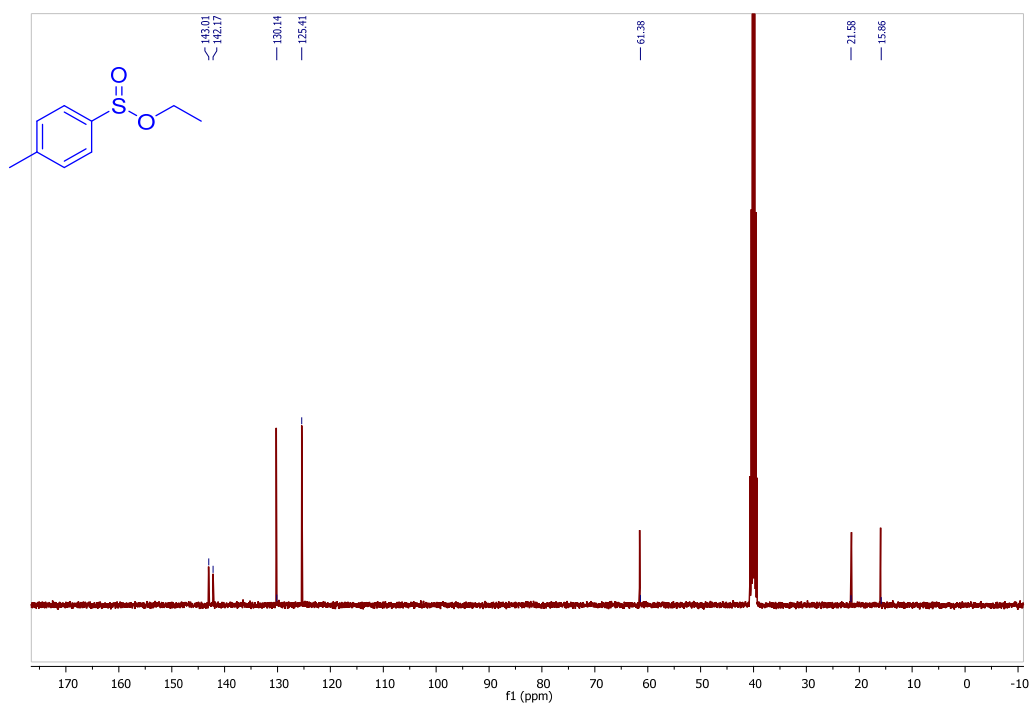


Figure S2: ¹³C NMR Spectra of **3a**

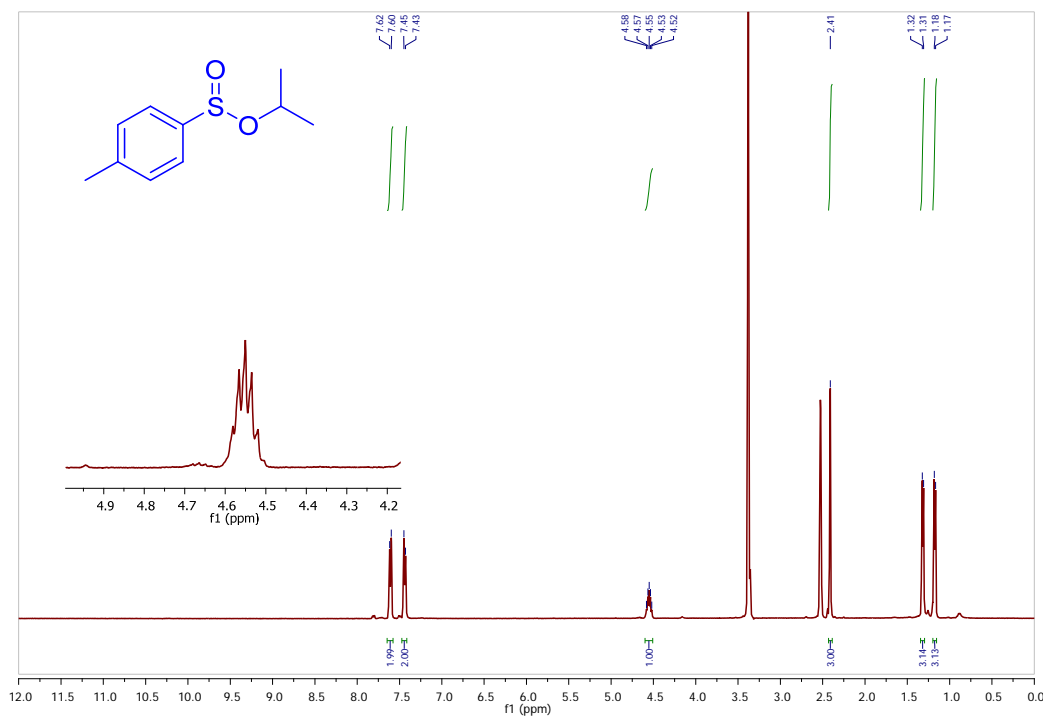


Figure S3: ^1H NMR Spectra of **3b**

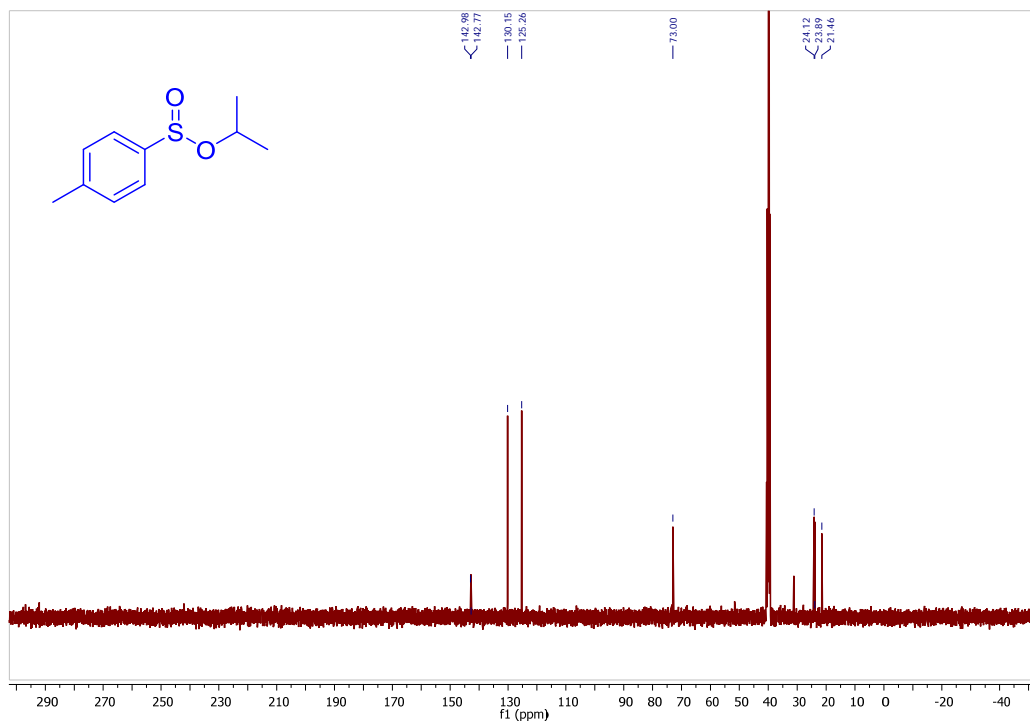


Figure S4: ^{13}C NMR Spectra of **3b**

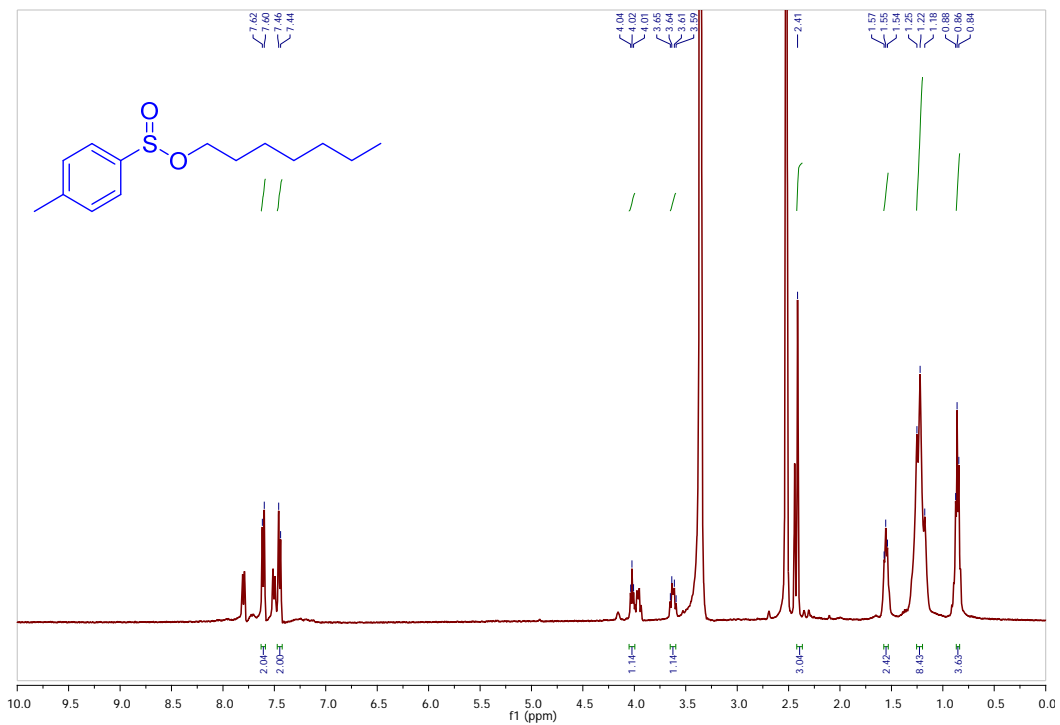


Figure S5: ^1H NMR Spectra of **3c**

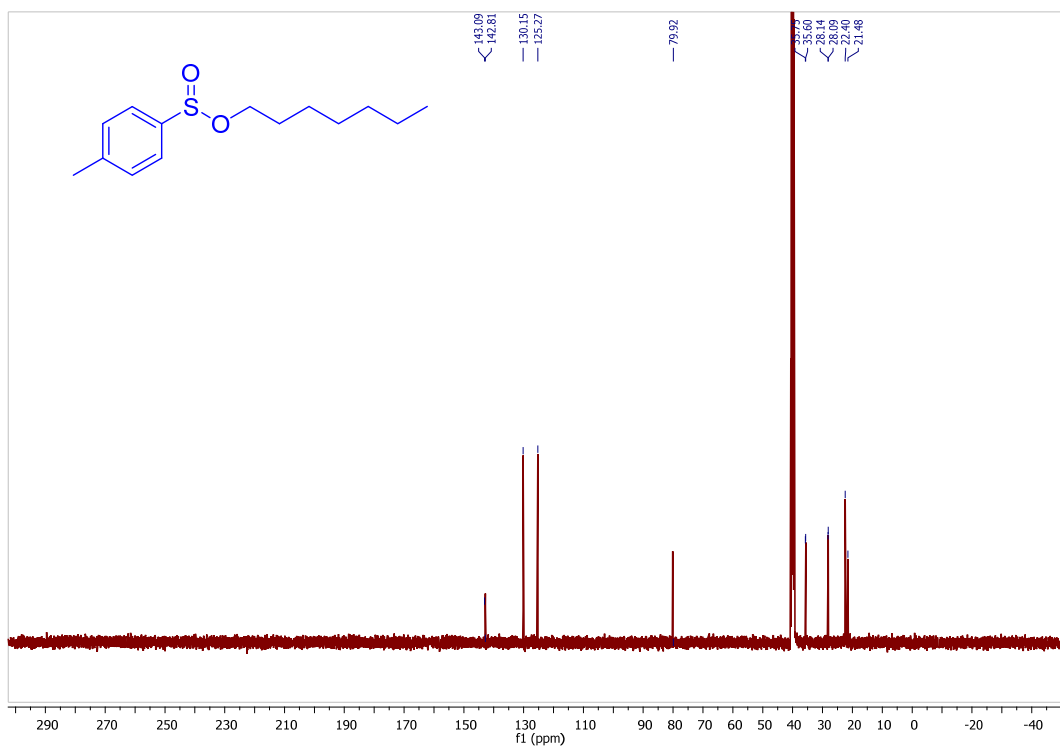


Figure S6: ^{13}C NMR Spectra of **3c**

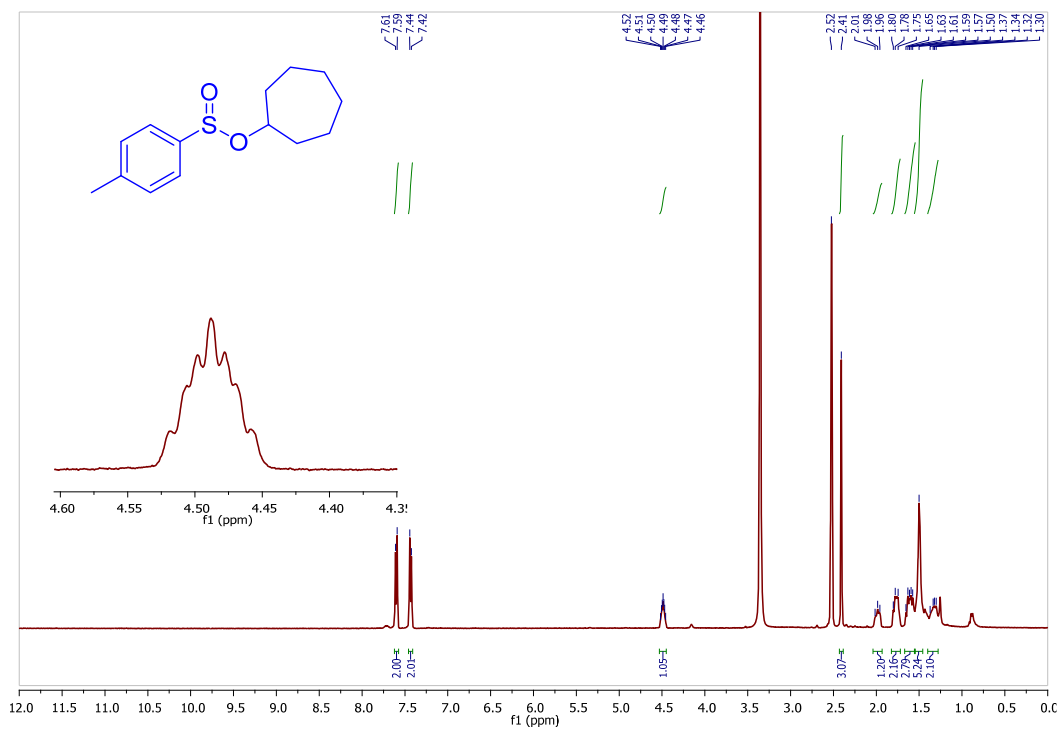


Figure S7: $^1\text{H NMR}$ Spectra of **3d**

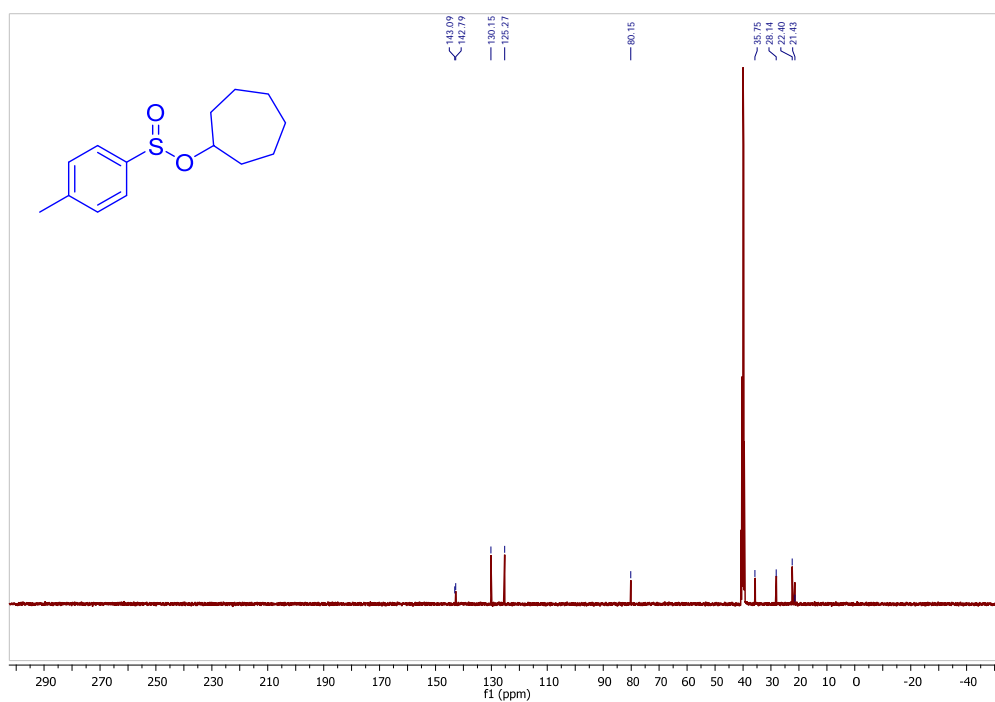


Figure S8: $^{13}\text{C NMR}$ Spectra of **3d**

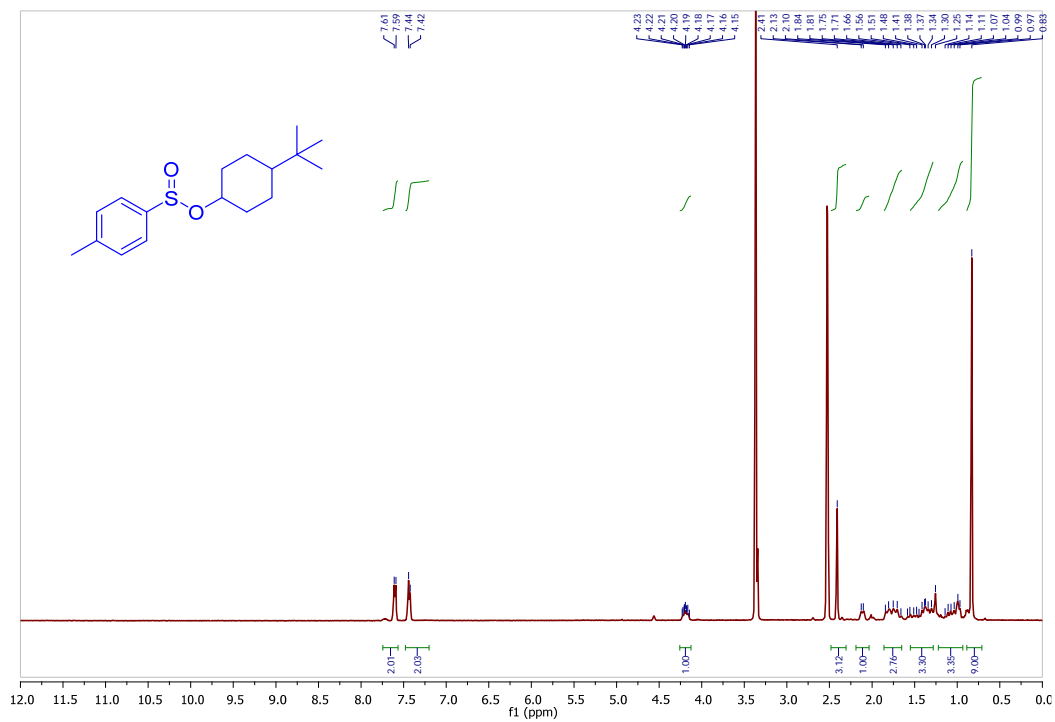


Figure S9: ¹H NMR Spectra of **3e**

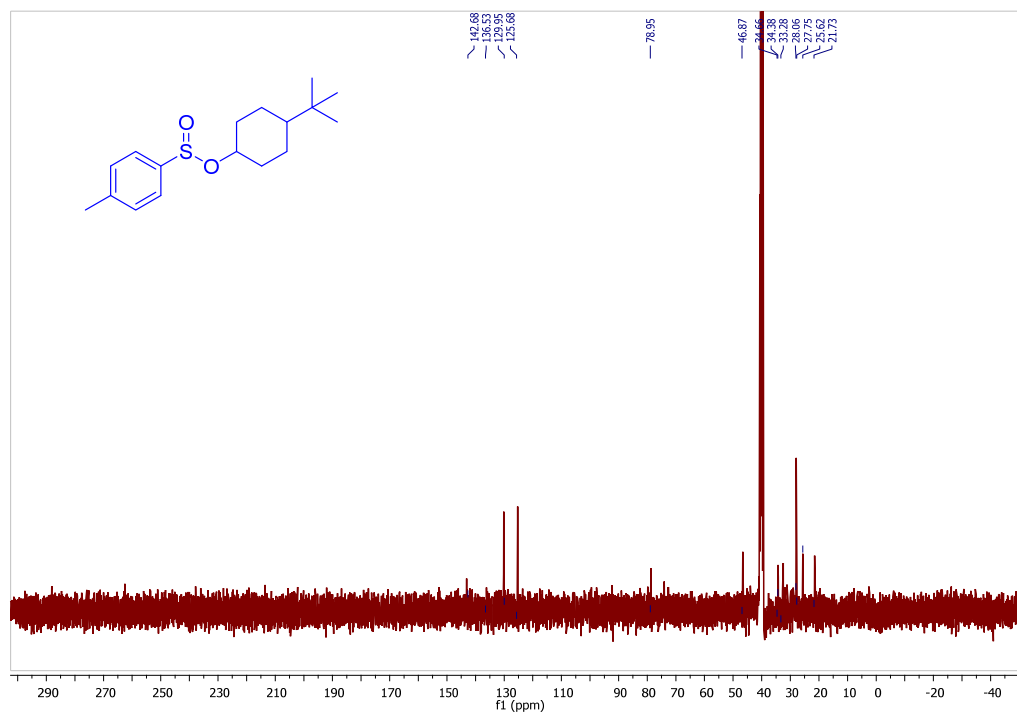


Figure S10: ¹³C NMR Spectra of **3e**

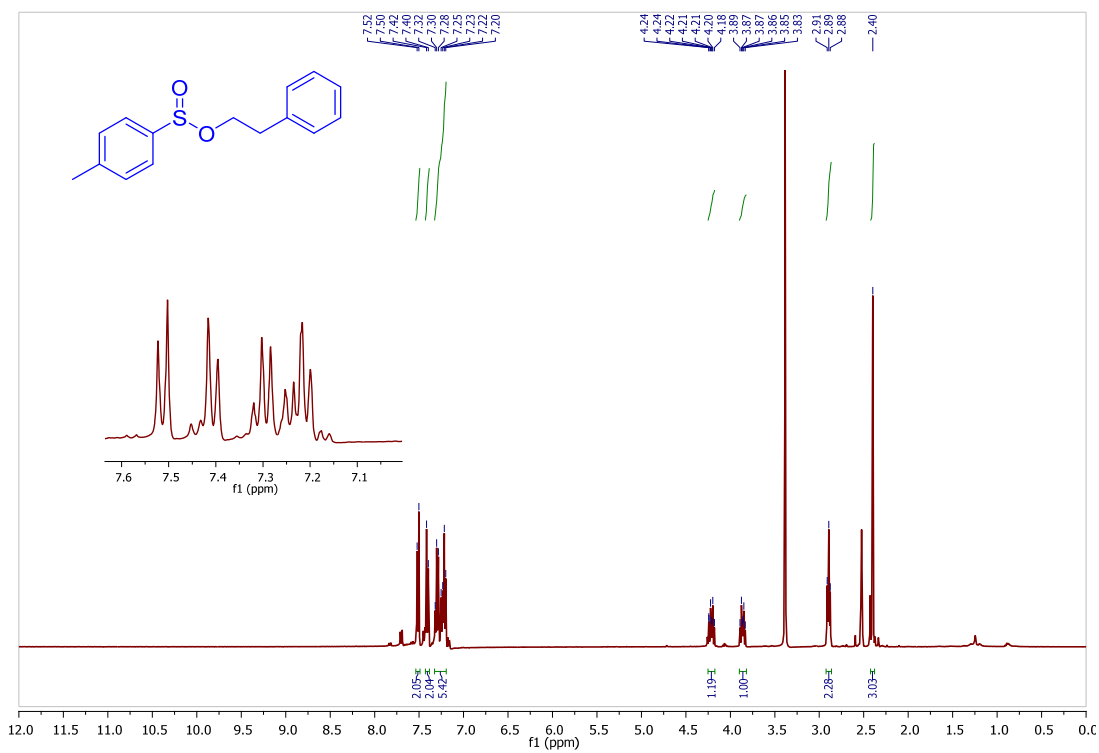


Figure S11: ¹H NMR Spectra of **3f**

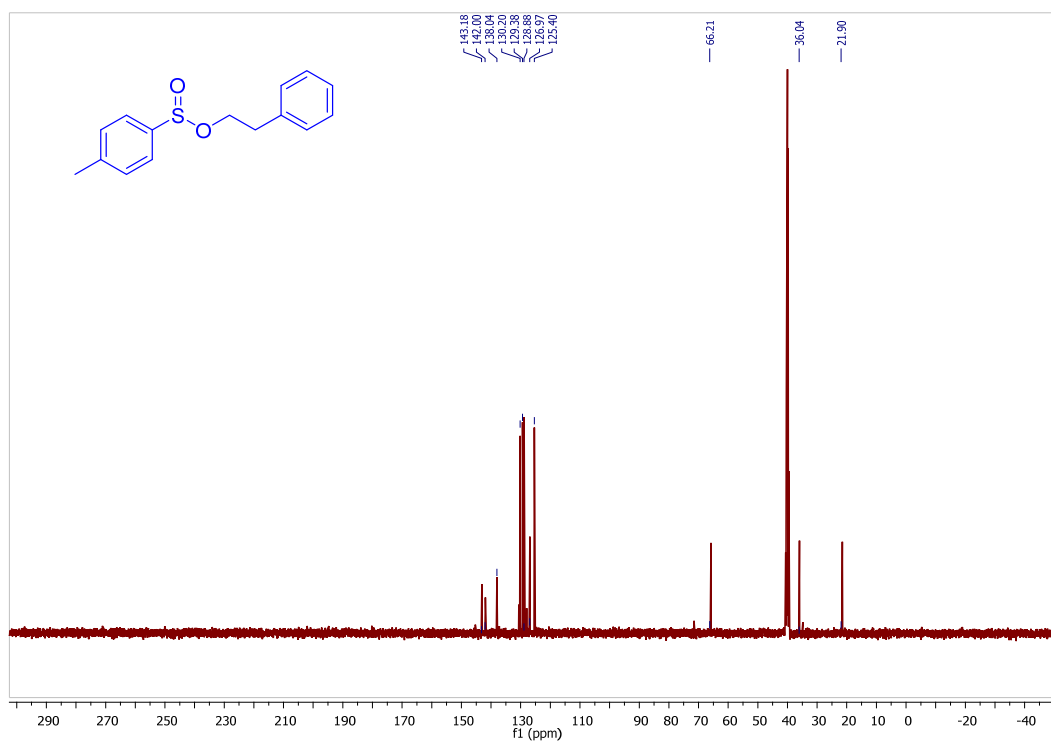


Figure S12: ¹³C NMR Spectra of **3f**

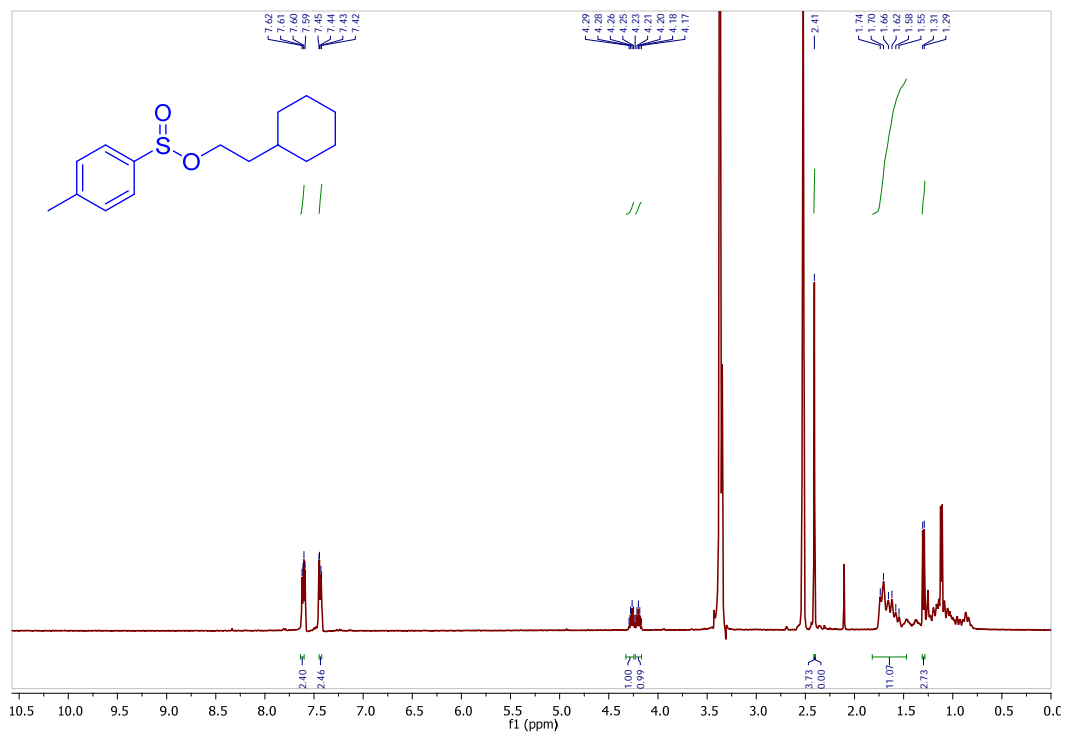


Figure S13: ^1H NMR Spectra of **3g**

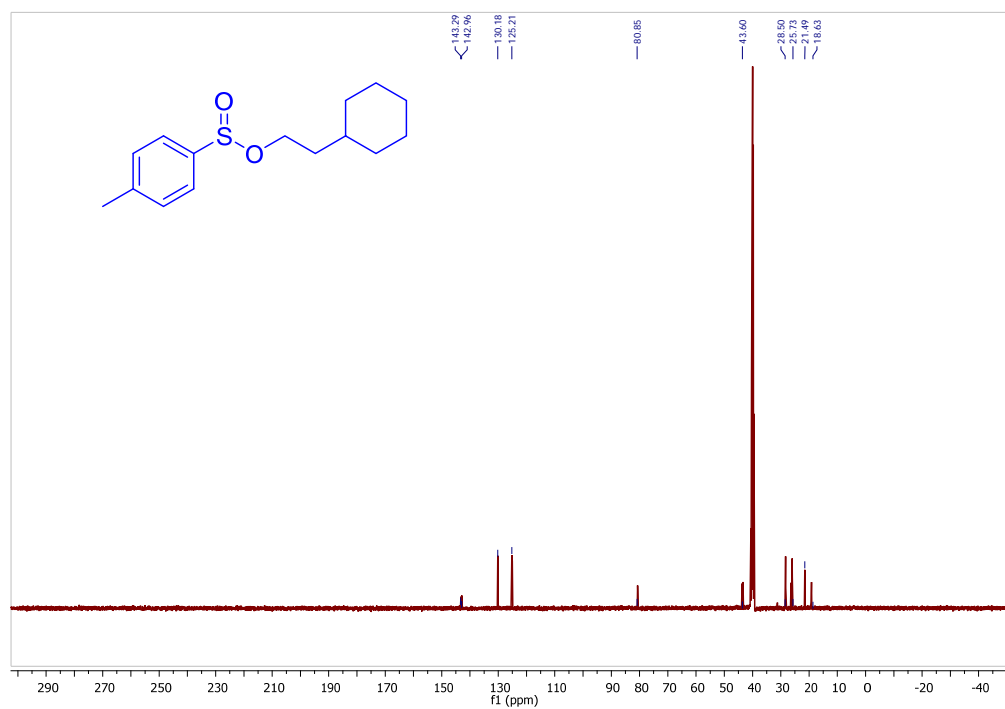


Figure S14: ^{13}C NMR Spectra of **3g**

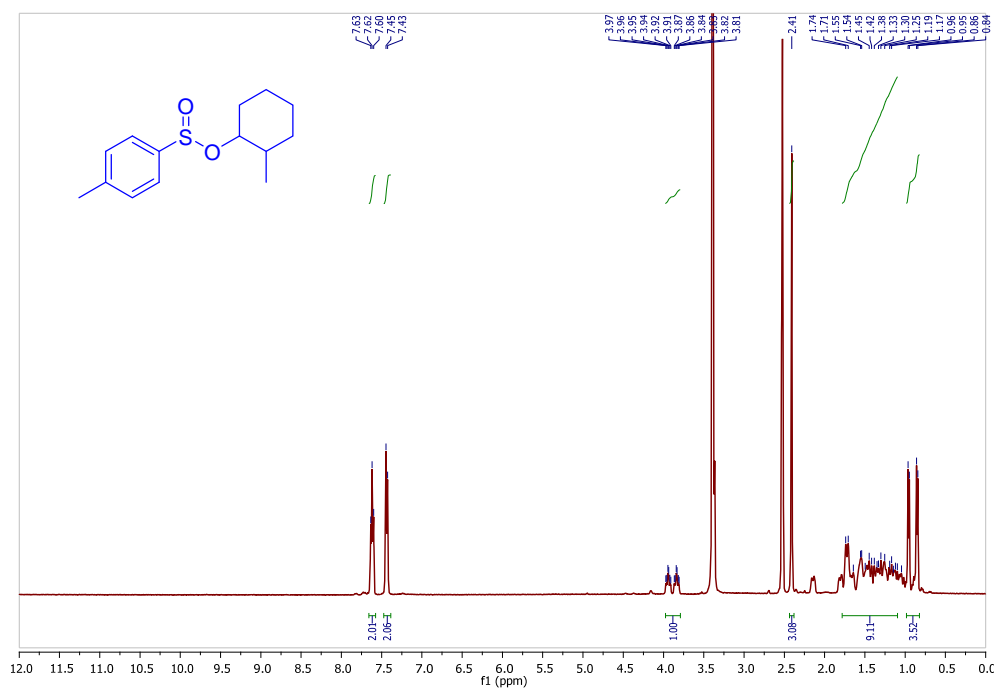


Figure S15: ^1H NMR Spectra of **3h**

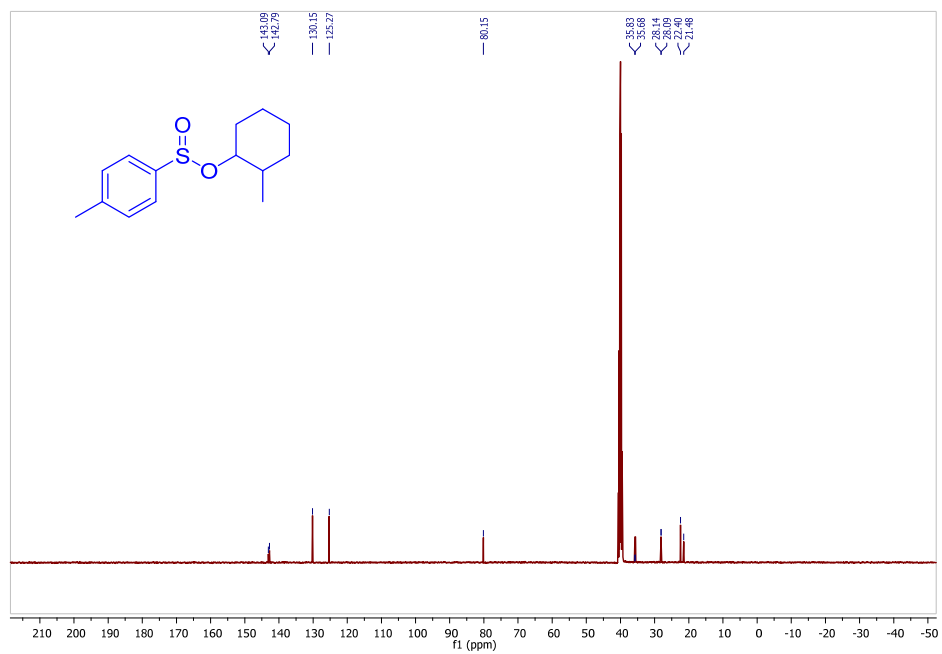


Figure S16: ^{13}C NMR Spectra of **3h**

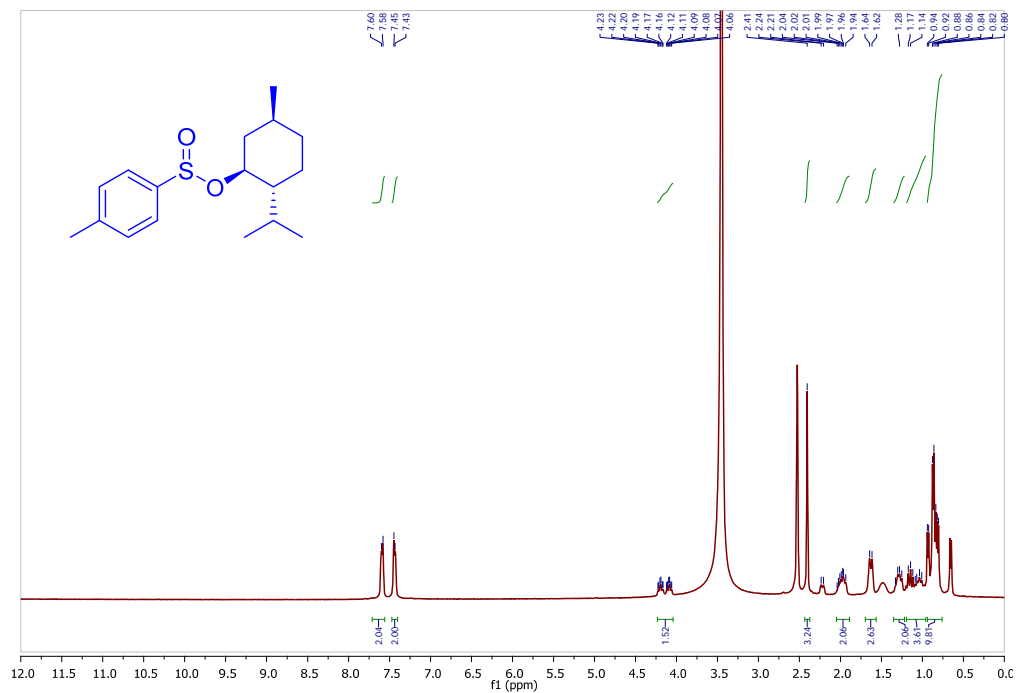


Figure S17: ¹³C NMR Spectra of **3i**

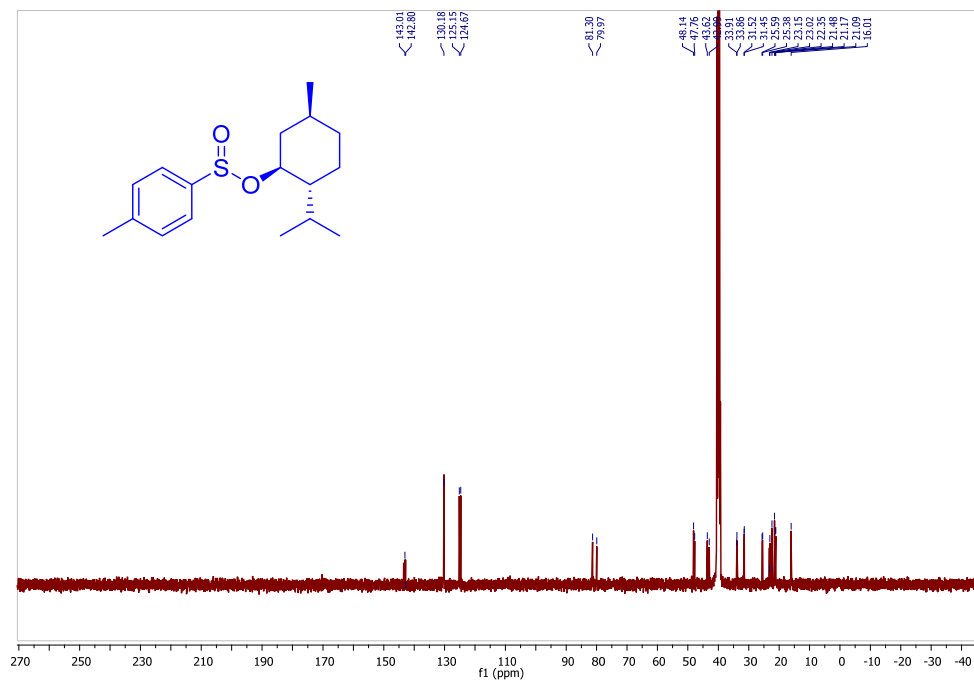


Figure S18: ¹³C NMR Spectra of **3i**

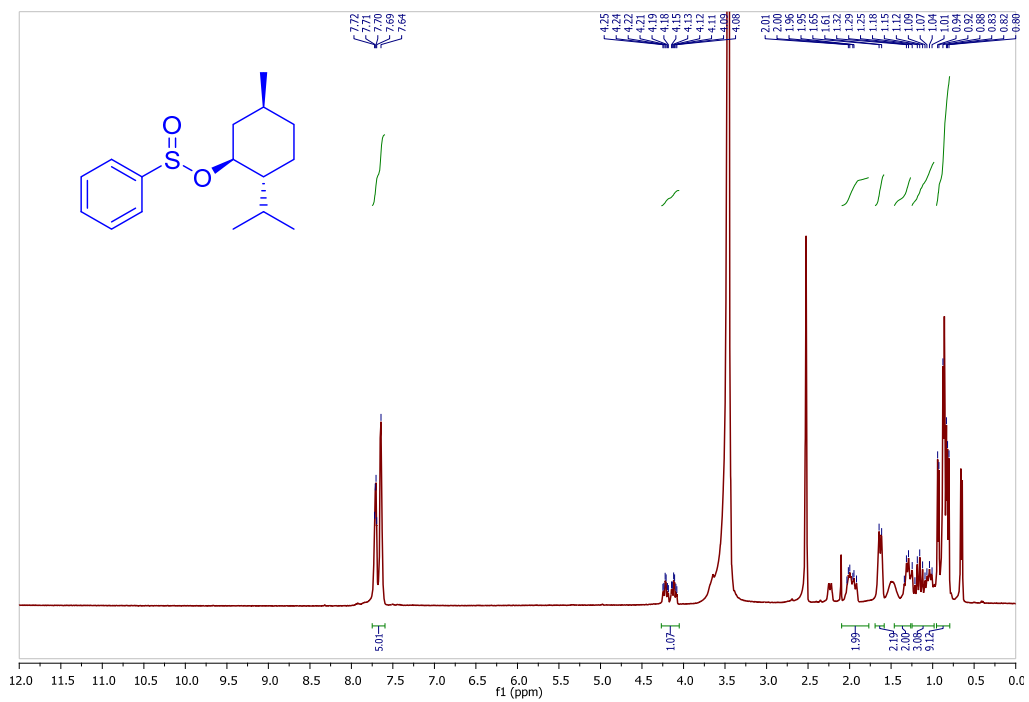


Figure S19: ¹H NMR Spectra of **3j**

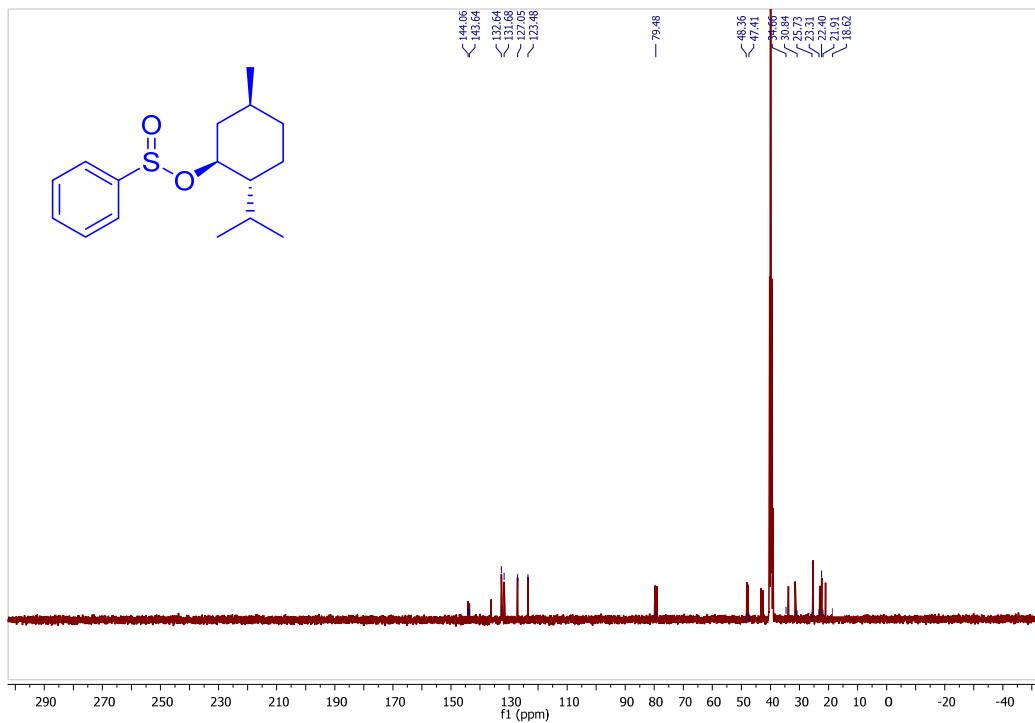


Figure S20: ¹³C NMR Spectra of **3j**

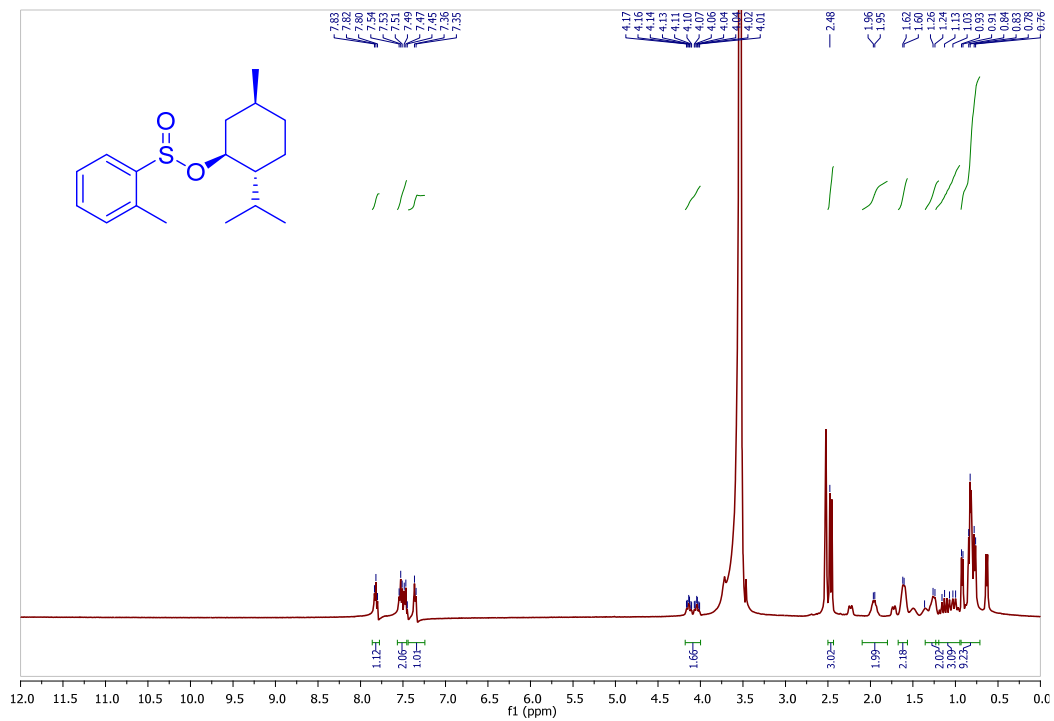


Figure S21: ^1H NMR Spectra of **3k**

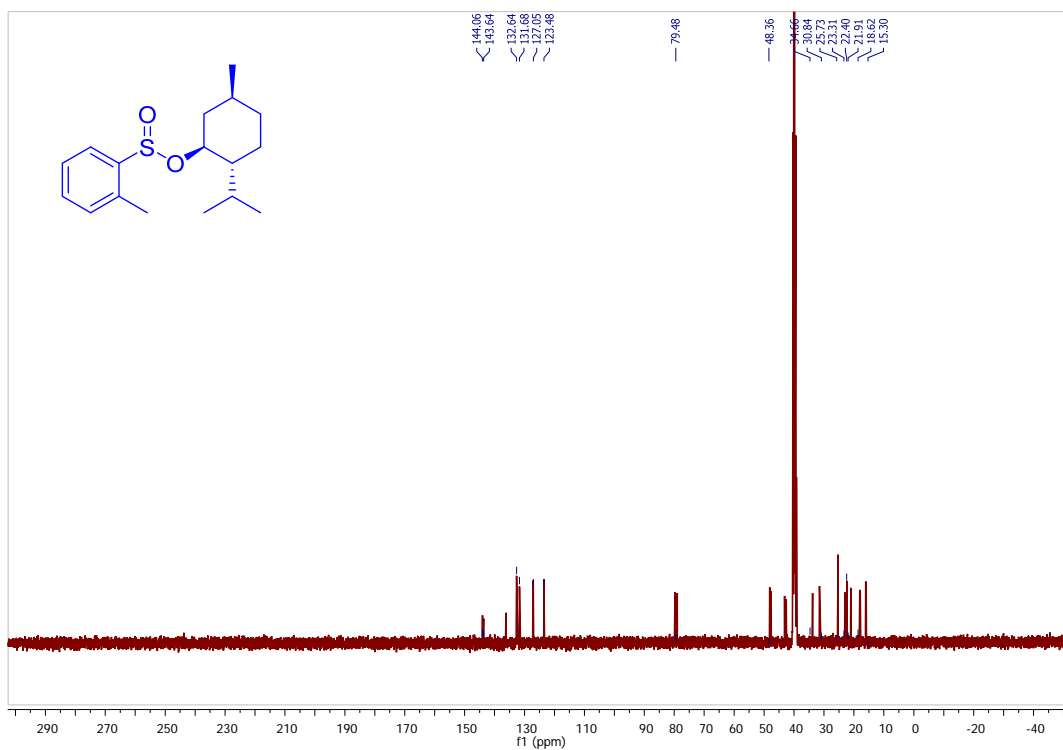


Figure S22: ^{13}C NMR Spectra of **3k**

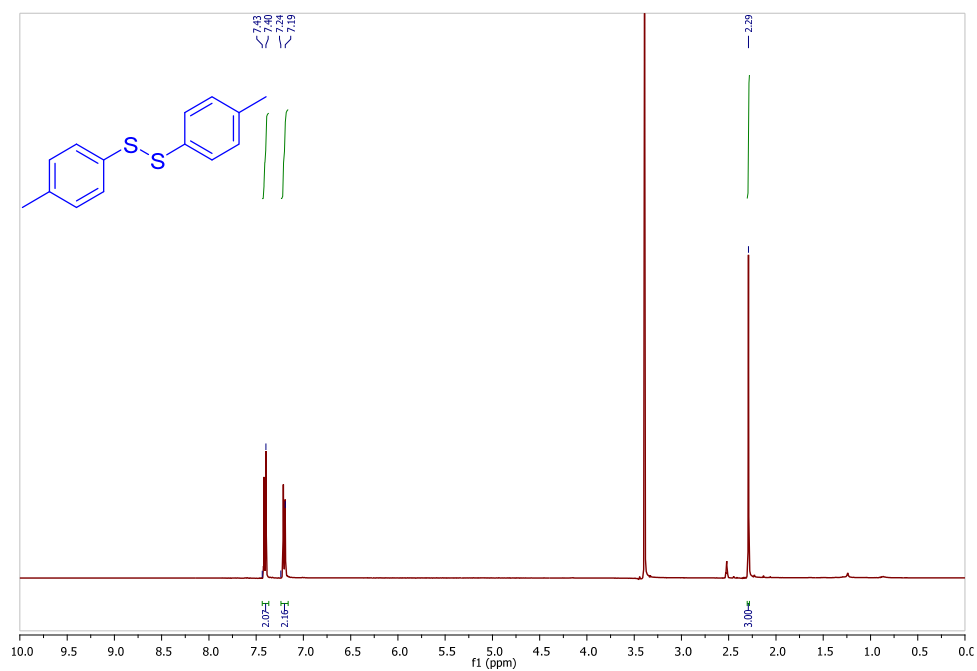


Figure S23: ^1H NMR Spectra of **4**

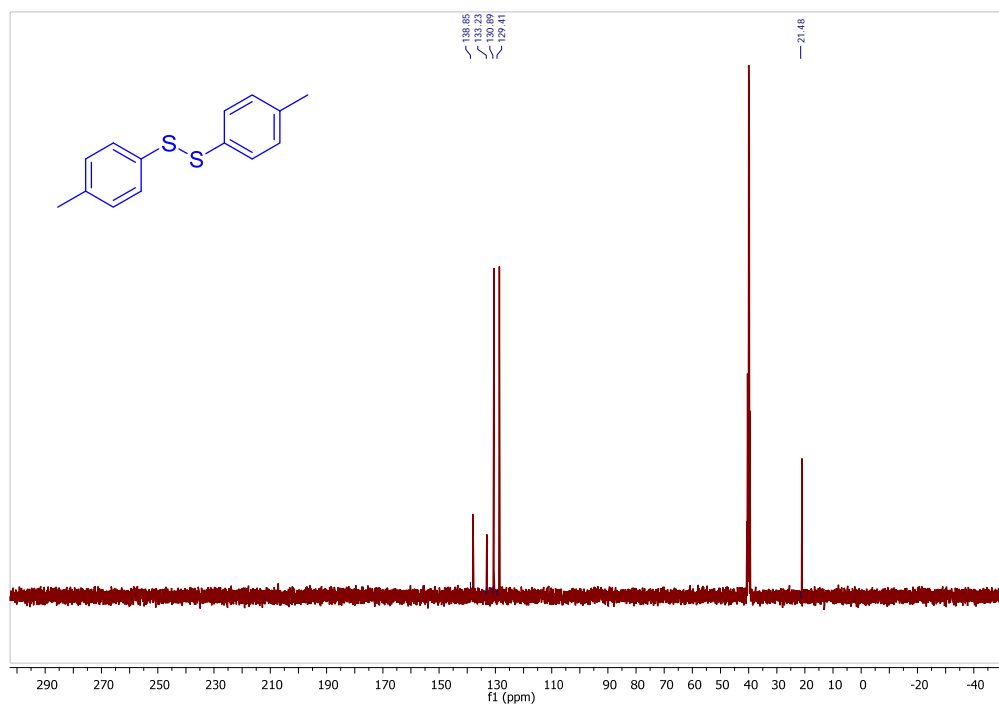


Figure S24: ^{13}C NMR Spectra of **4**