

Supplementary Material

New and efficient synthesis of 1,4-oxazines through the reaction of acetylenic esters and nitrosonaphthols in the presence of phosphine derivatives

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Supplementary Material: ¹H and ¹³C NMR spectra of all reported compounds.

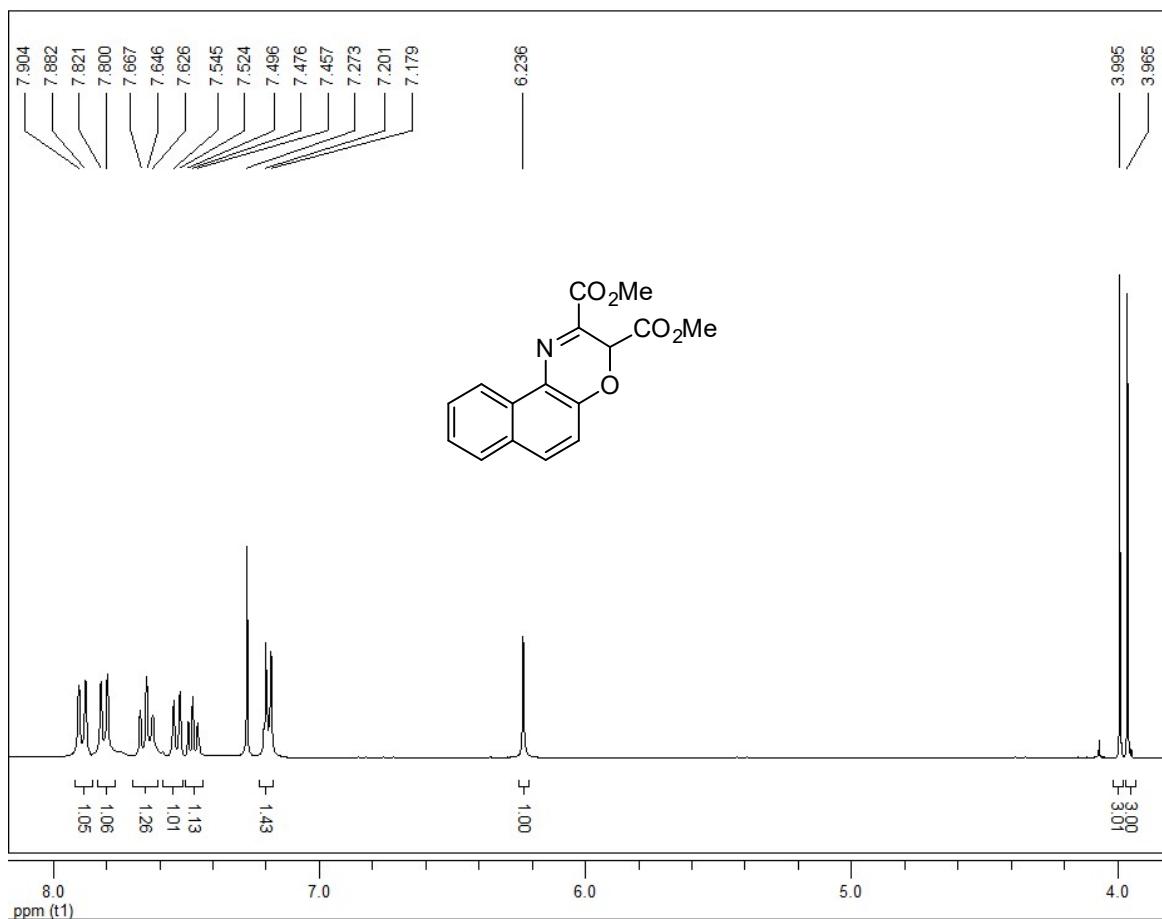


Figure 1. ¹H NMR spectrum of compound **5a** (400 MHz, CDCl₃).

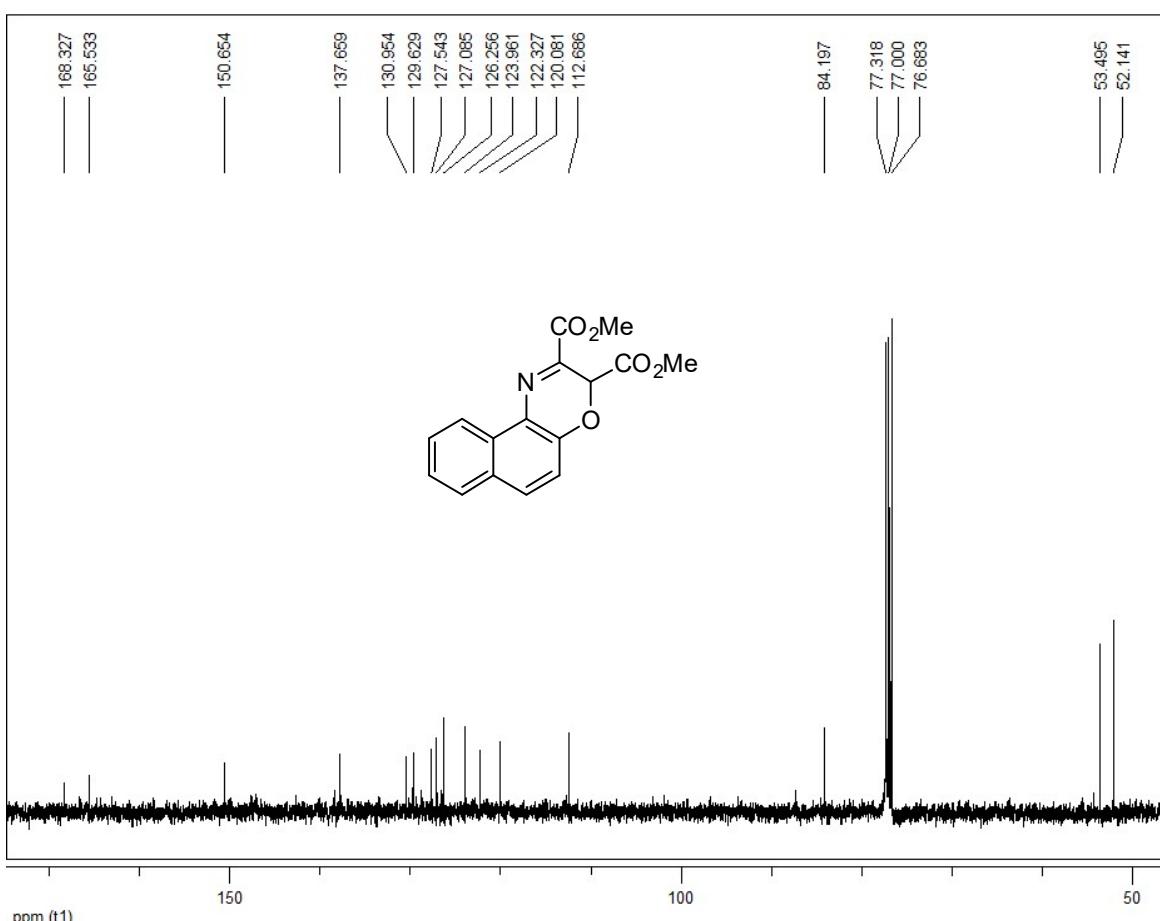


Figure 2. ¹³C NMR spectrum of compound **5a** (100 MHz, CDCl_3).

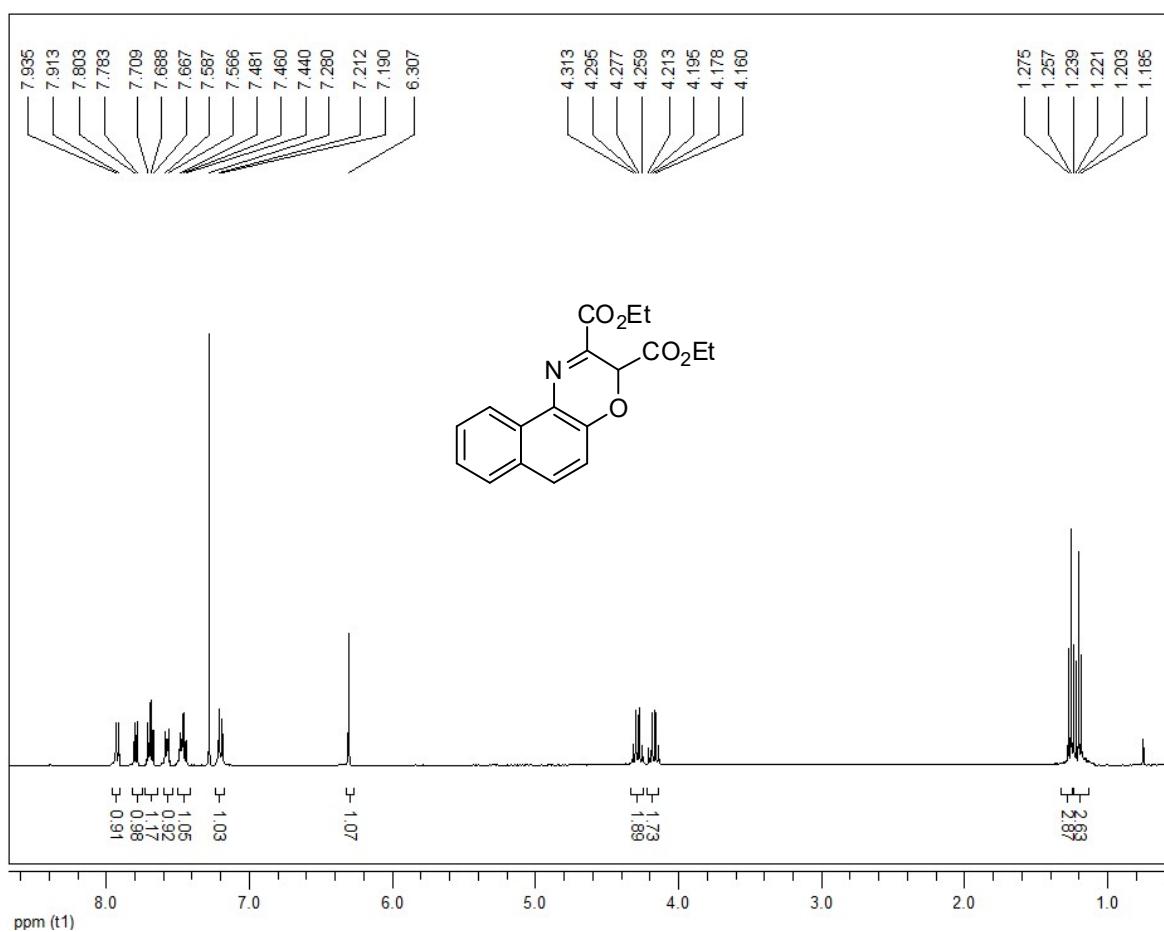


Figure 3. ¹H NMR spectrum of compound **5b** (400 MHz, CDCl₃).

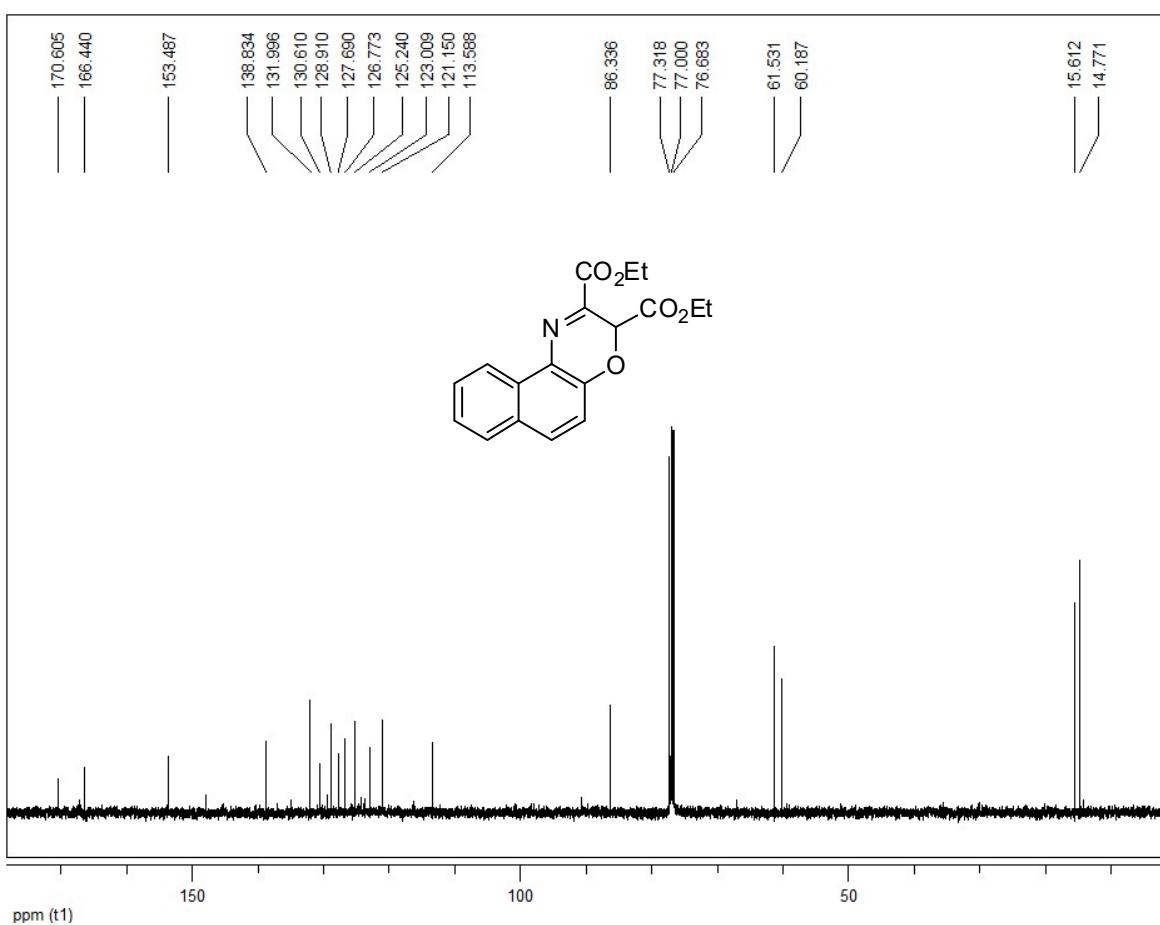


Figure 4. ¹³C NMR spectrum of compound **5b** (100 MHz, CDCl_3).

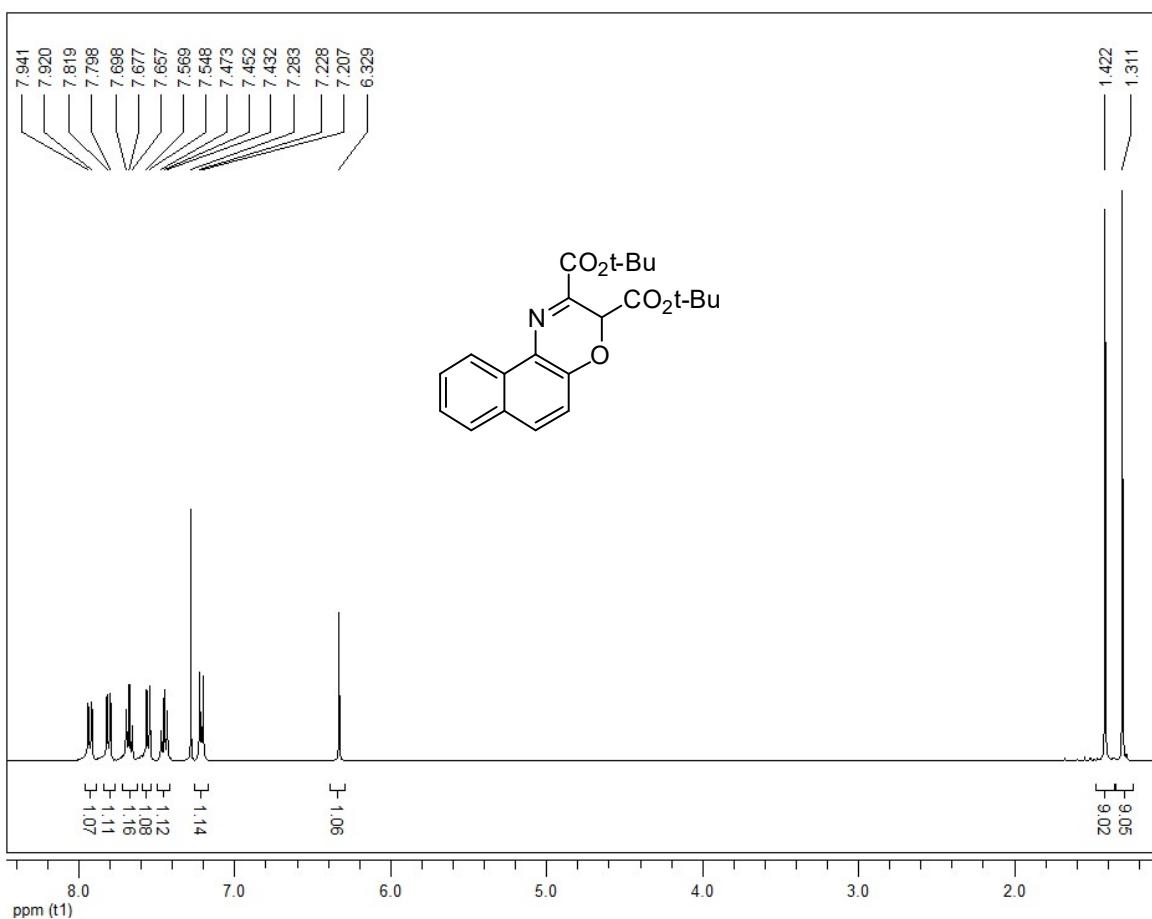


Figure 5. ¹H NMR spectrum of compound **5c** (400 MHz, CDCl₃).

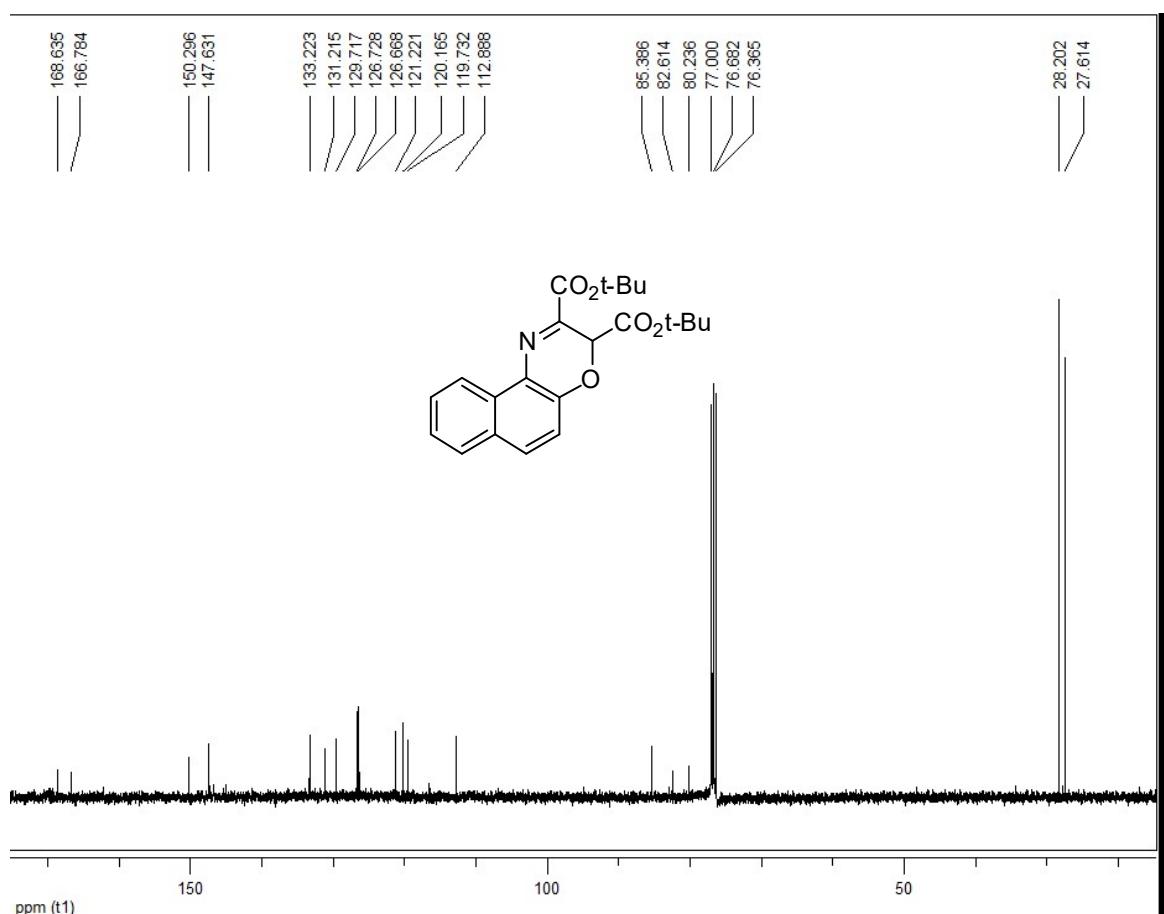


Figure 6. ¹³C NMR spectrum of compound **5c** (100 MHz, CDCl₃).

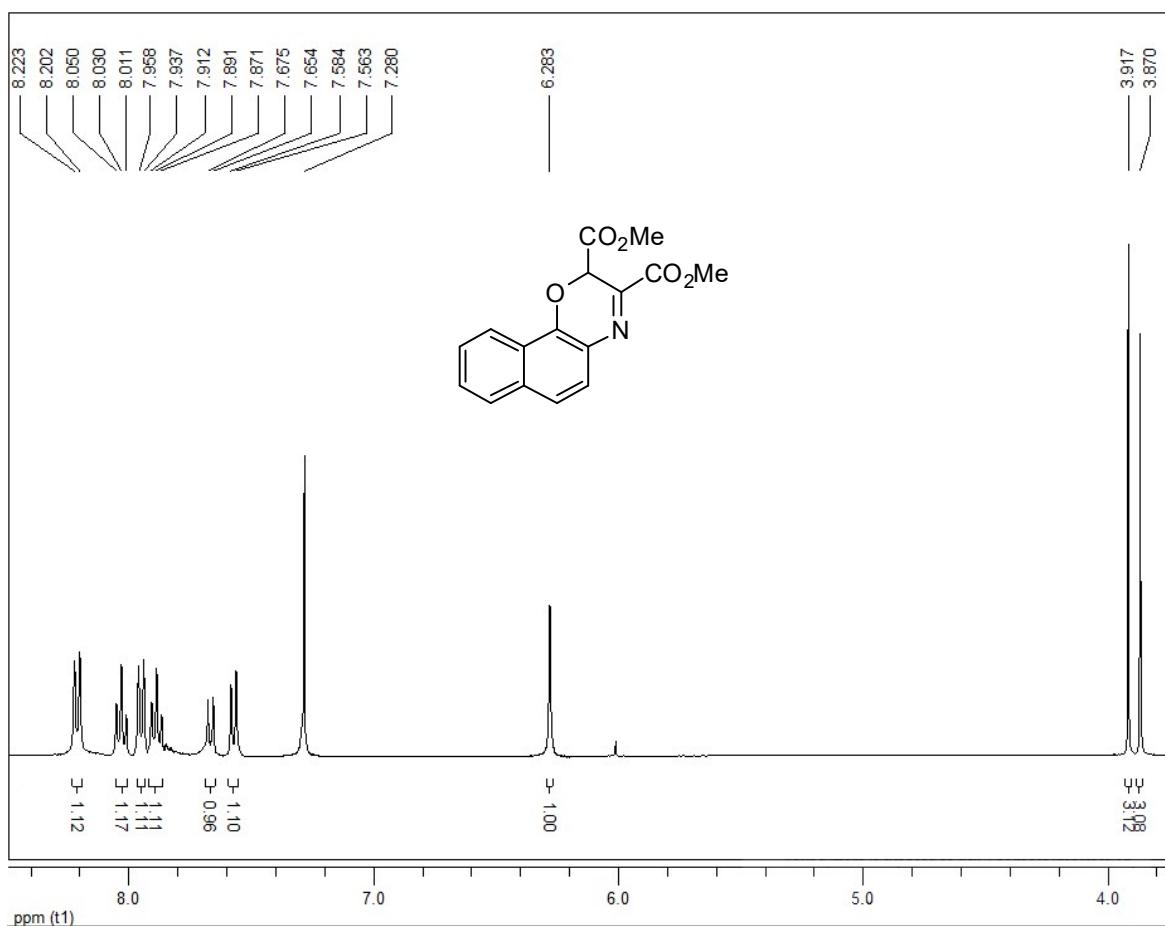


Figure 7. ¹H NMR spectrum of compound **6a** (400 MHz, CDCl_3).

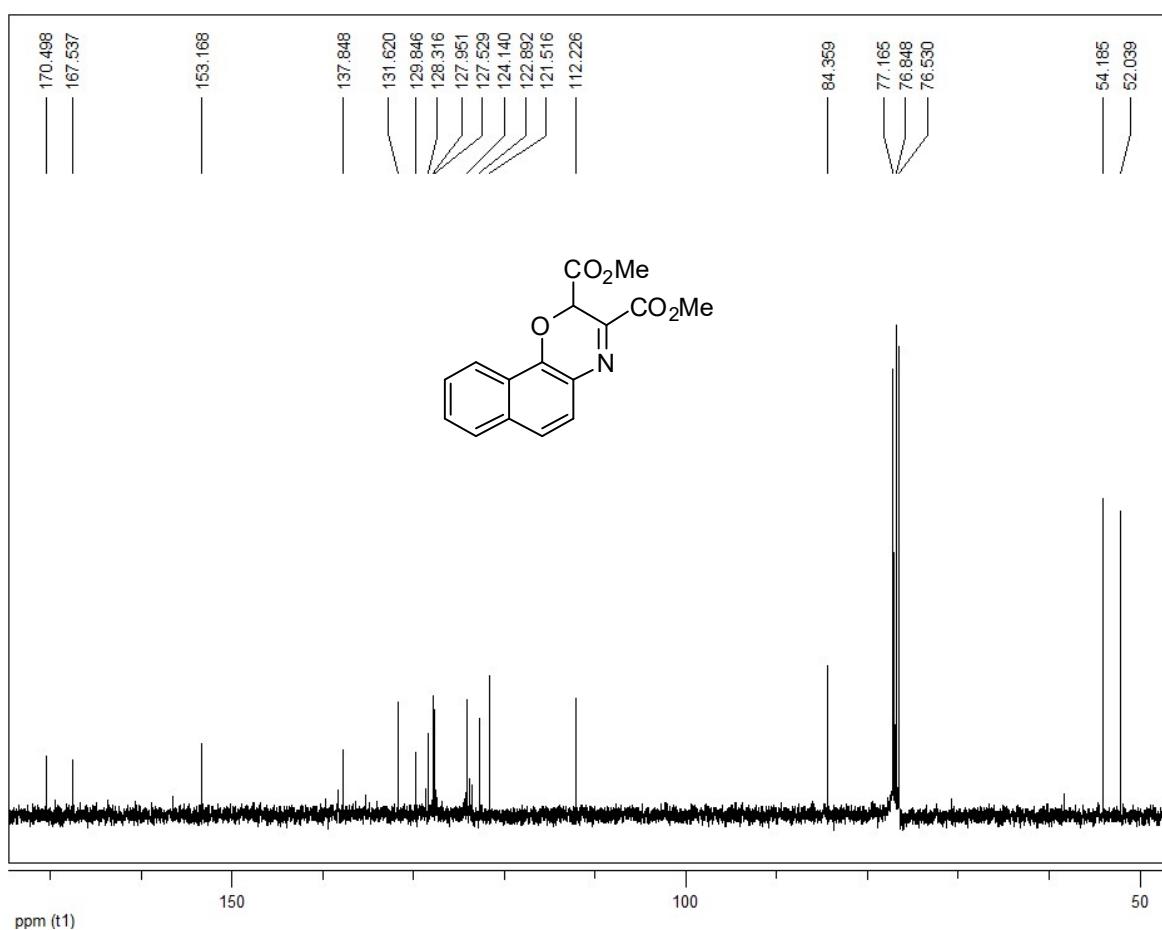


Figure 8. ¹³C NMR spectrum of compound **6a** (100 MHz, CDCl₃).

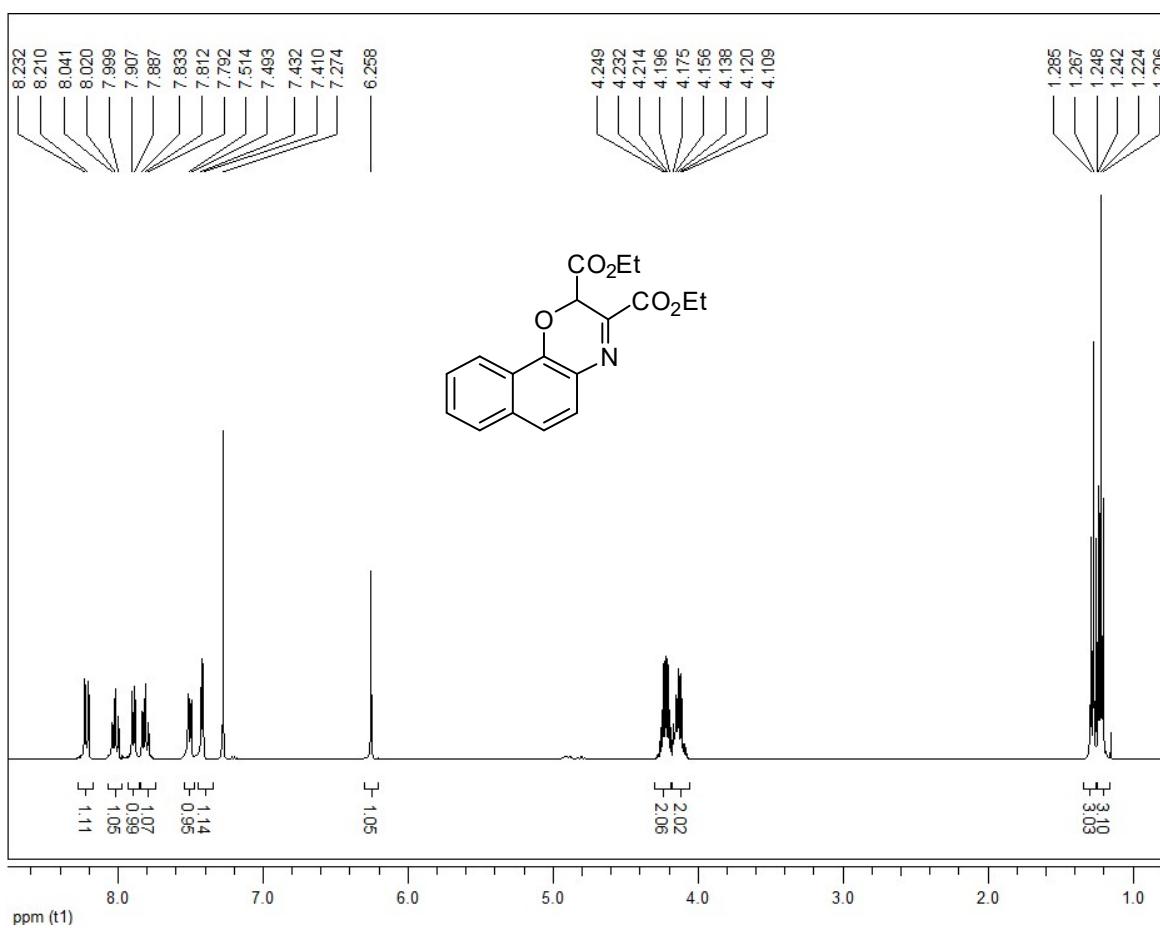


Figure 9. ^1H NMR spectrum of compound **6b** (400 MHz, CDCl_3).

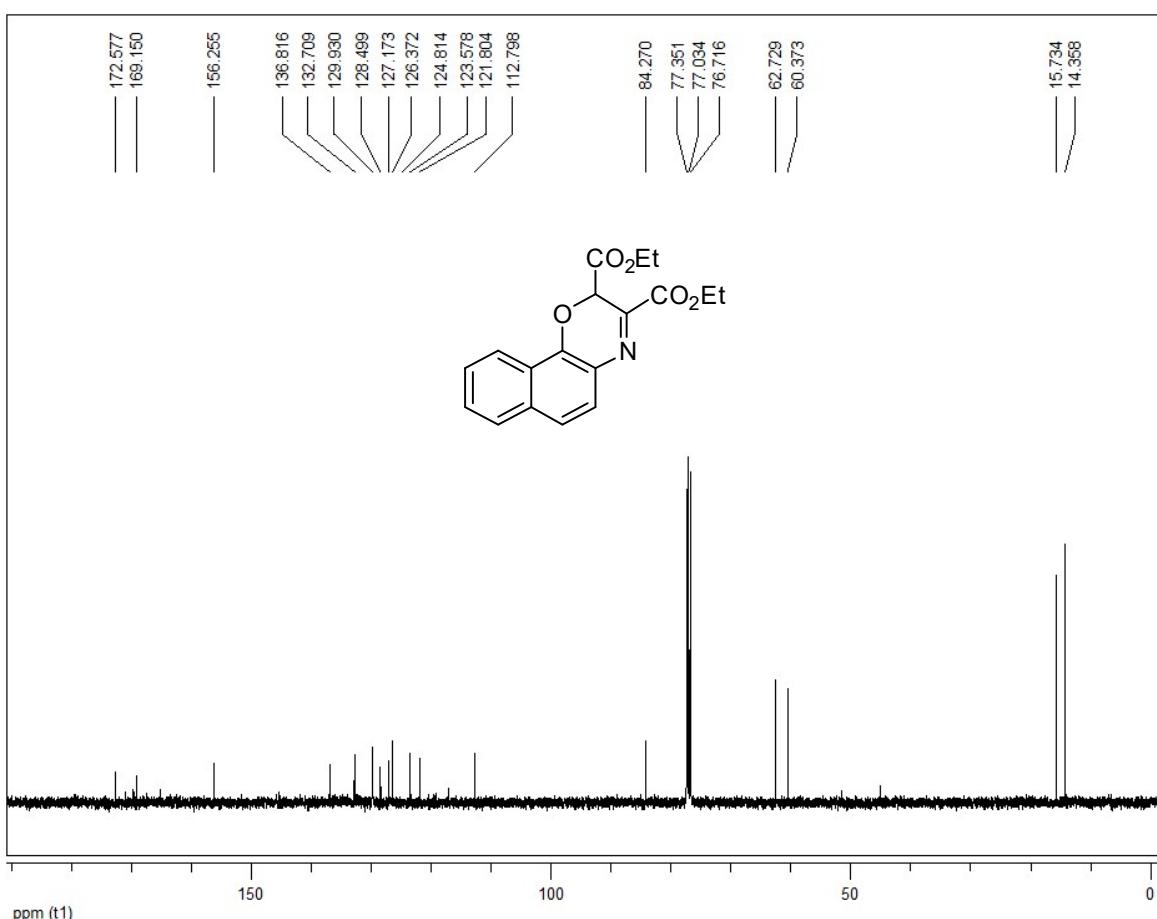


Figure 10. ^{13}C NMR spectrum of compound **6b** (100 MHz, CDCl_3).

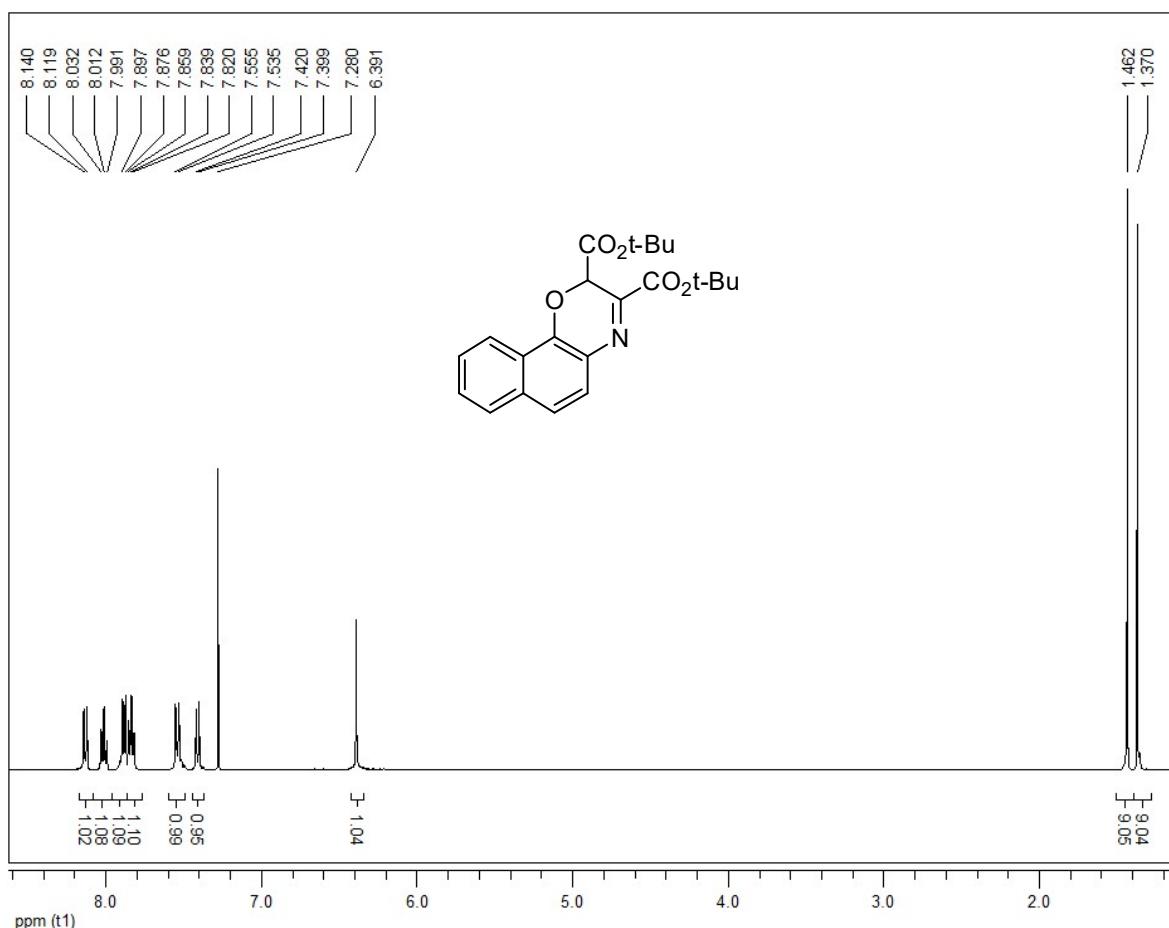


Figure 11. ¹H NMR spectrum of compound **6c** (400 MHz, CDCl₃).

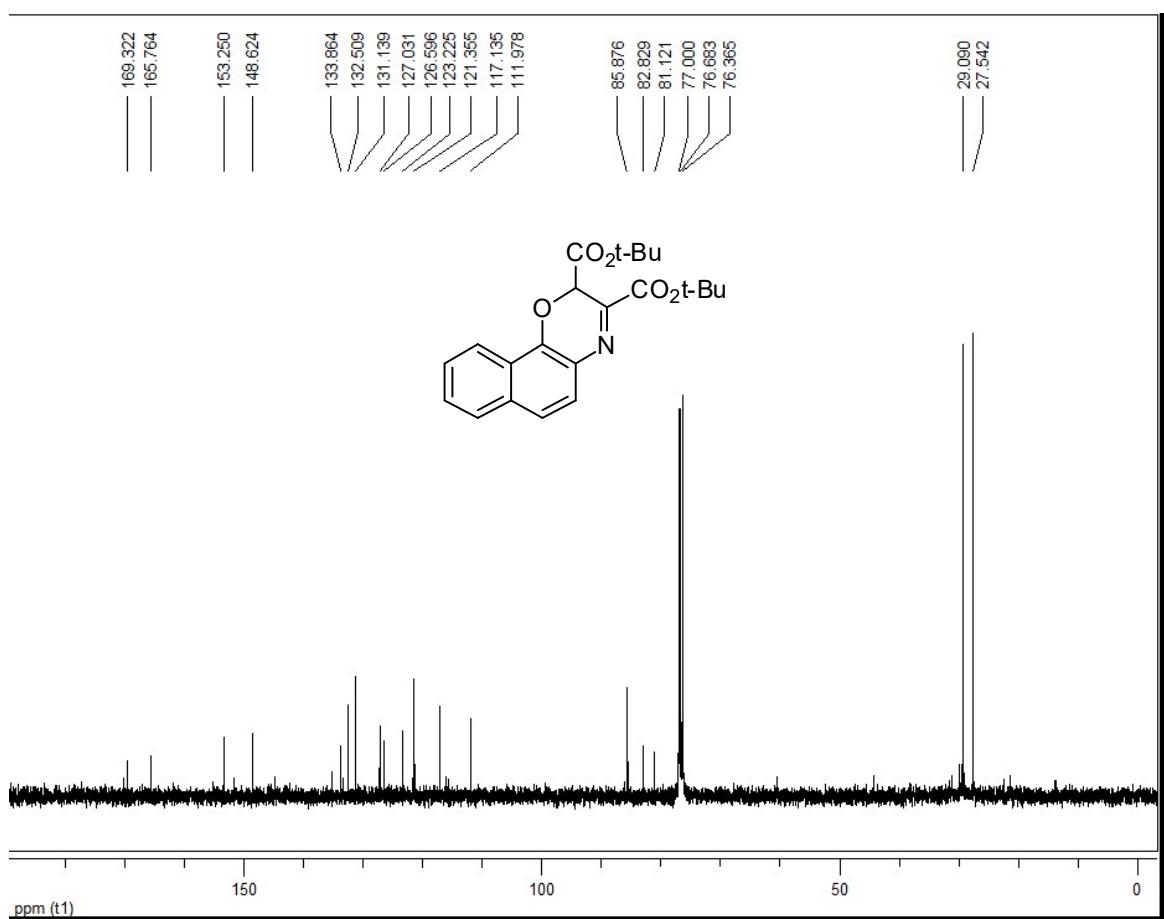


Figure 12. ^{13}C NMR spectrum of compound **6c** (100 MHz, CDCl_3).