

Supplementary Information

Synthesis of Organotin Substituted Tricyclic Macrodiolides

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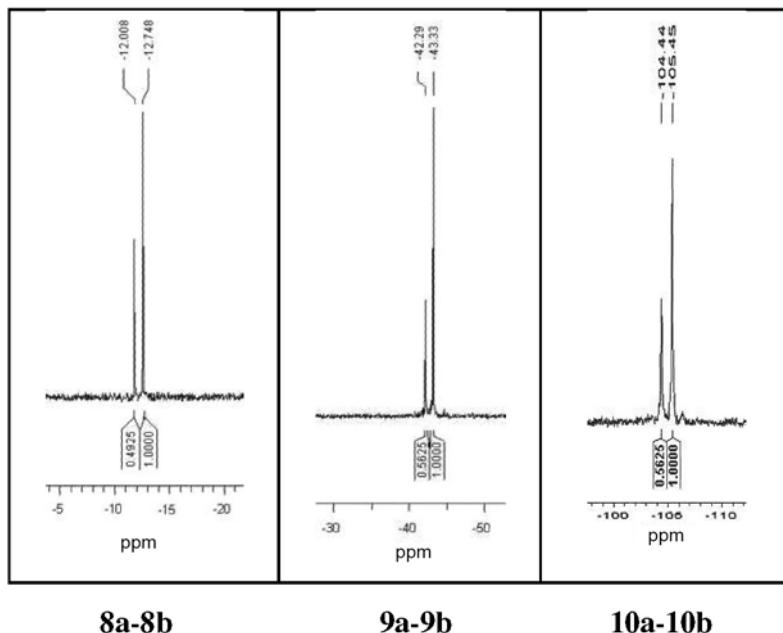


Figure S1. ¹¹⁹Sn NMR spectrum (111.8 MHz, CDCl₃) of diastereomers in the mixtures obtained in the additions of triorganotin hydrides **5**, **6** and **7** to diester **1**.

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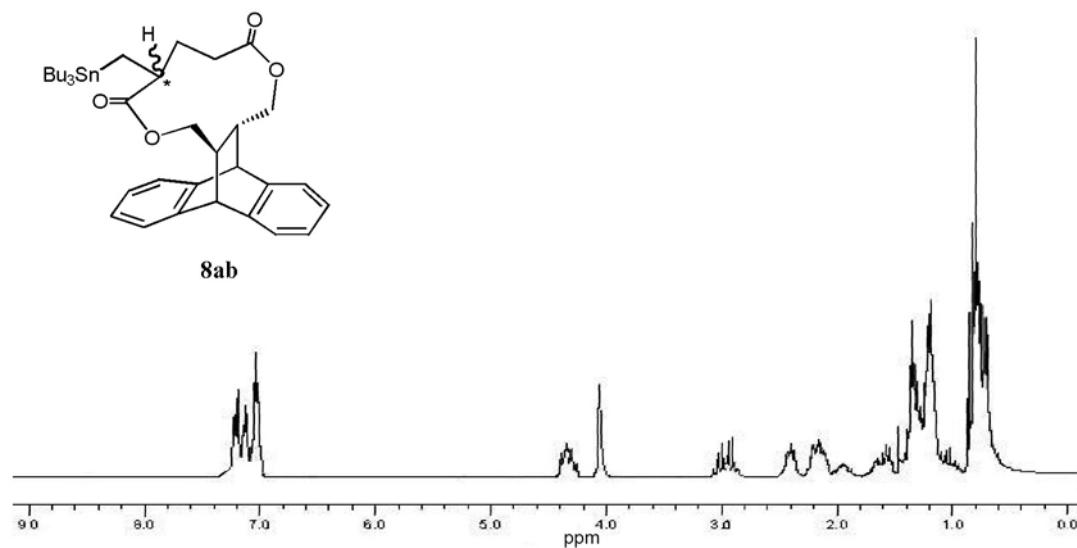


Figure S2. ¹H NMR (300 MHz, CDCl₃) spectrum of compound **8ab**.

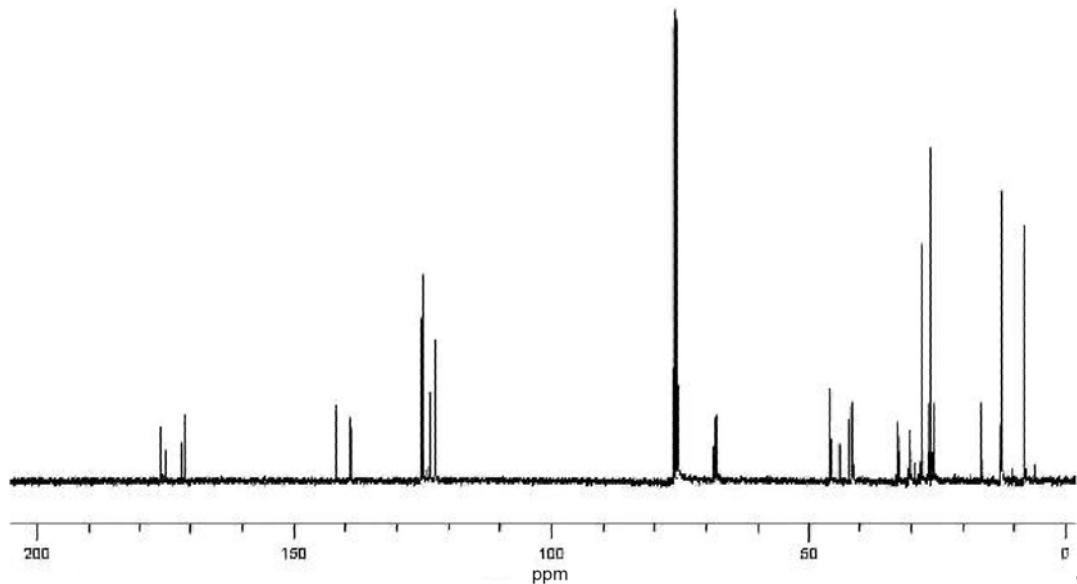


Figure S3. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound **8ab**.

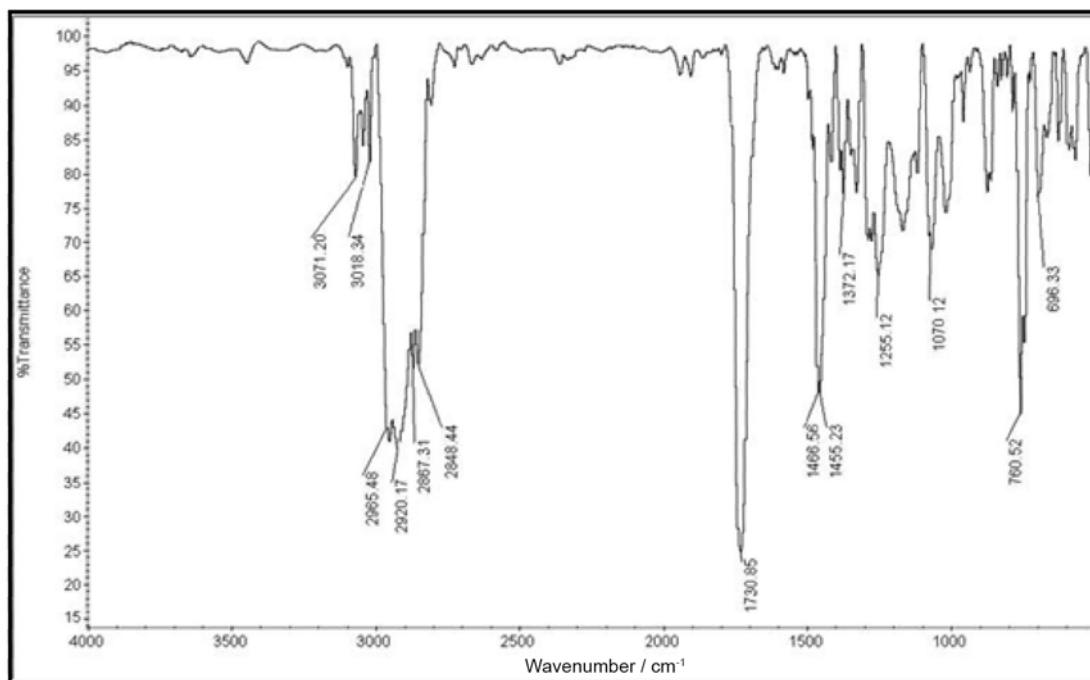


Figure S4. FTIR (KBr) spectrum of compound **8ab**.

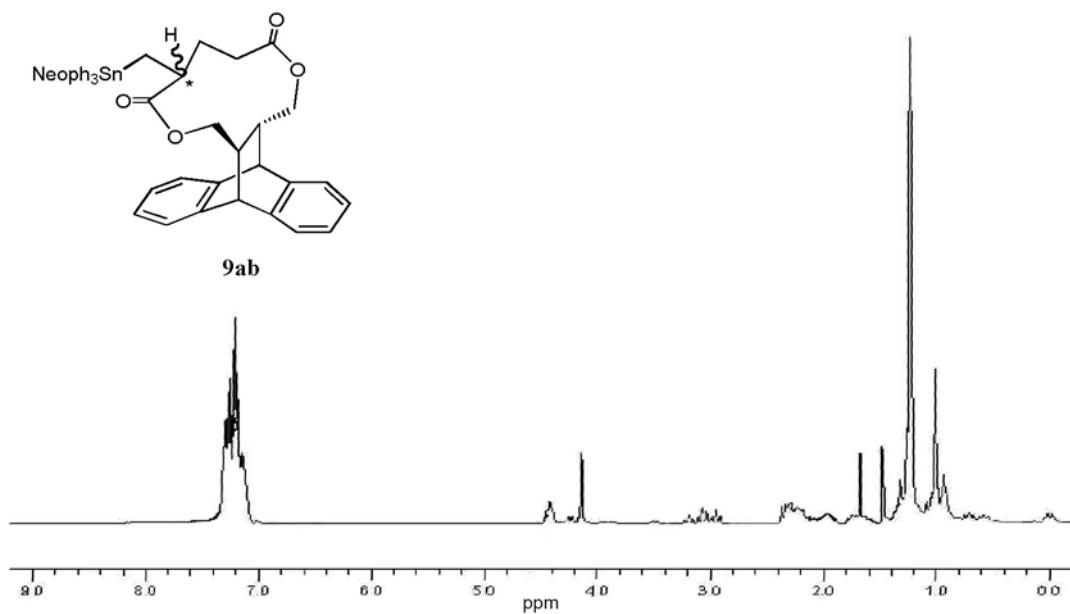


Figure S5. ^1H NMR (300 MHz, CDCl_3) spectrum of compound **9ab**.

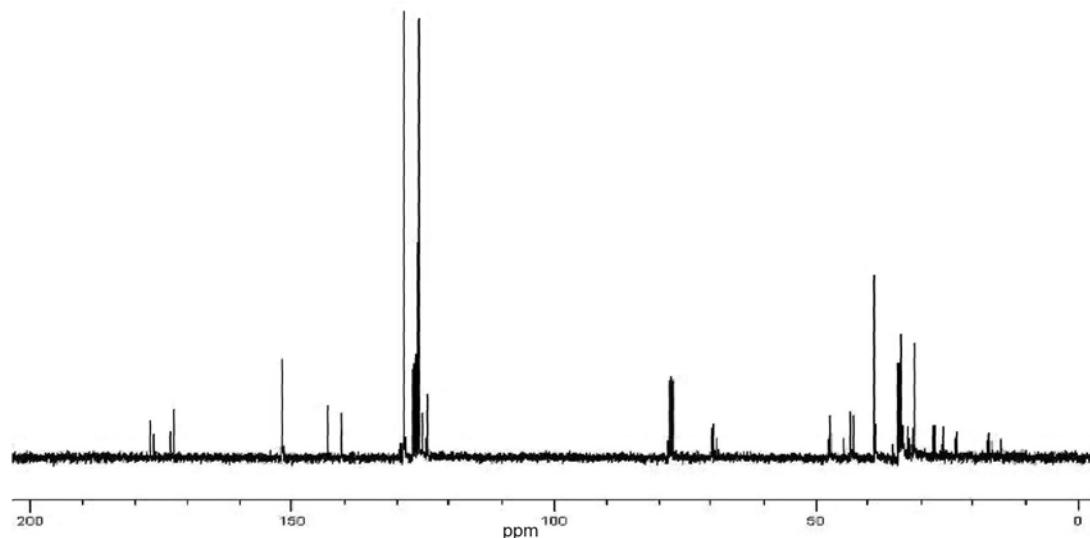


Figure S6. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 9ab.

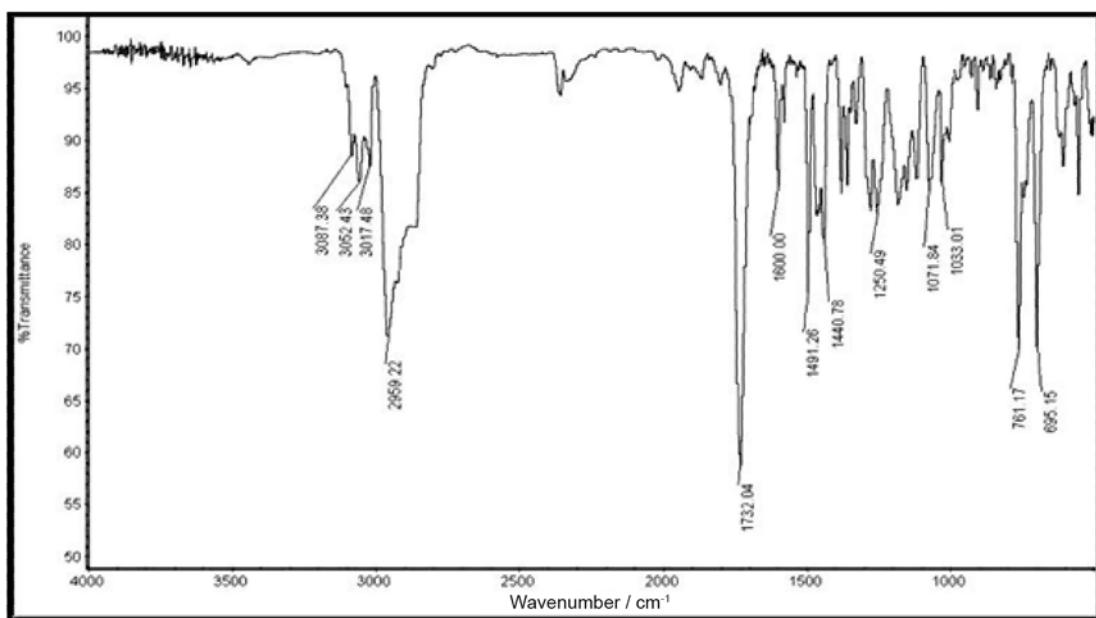


Figure S7. FTIR (KBr) spectrum of compound 9ab.

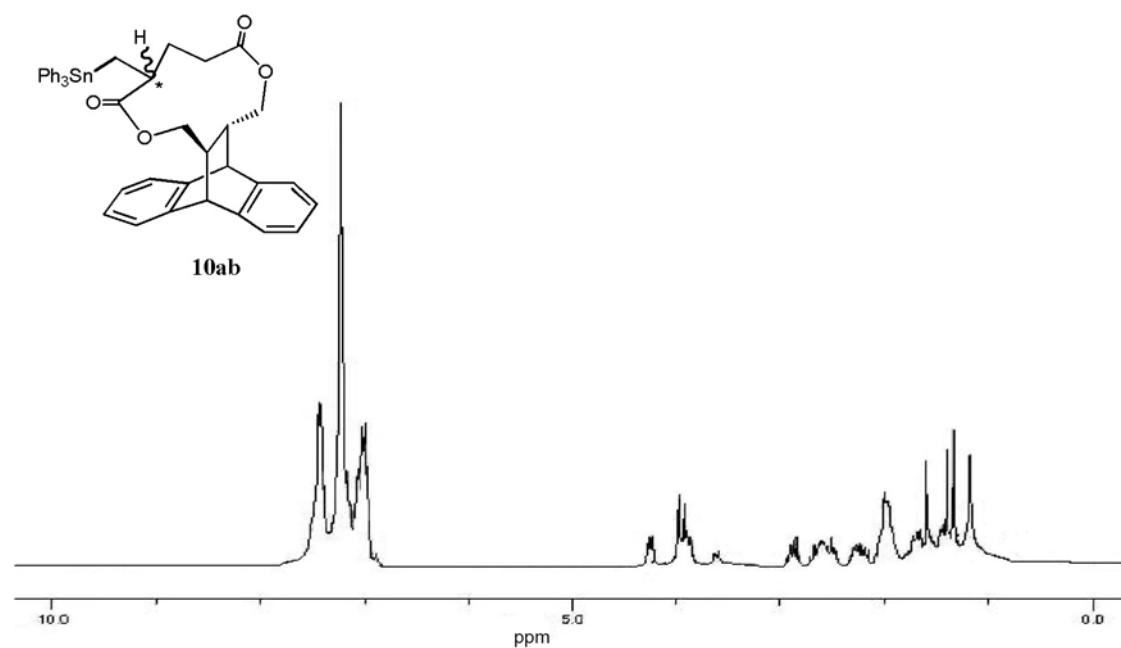


Figure S8. ^1H NMR (300 MHz, CDCl_3) spectrum of compound **10ab**.

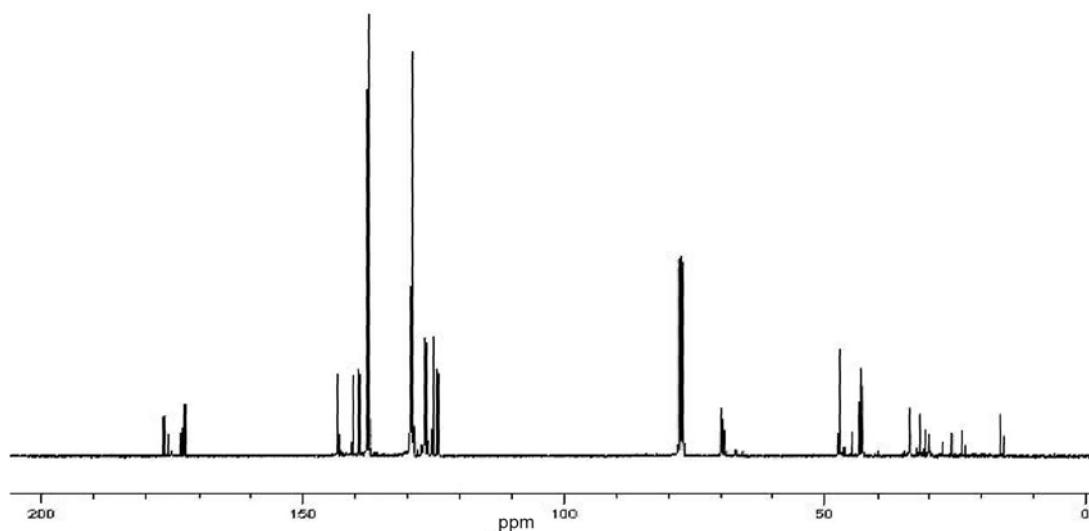


Figure S9. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound **10ab**.

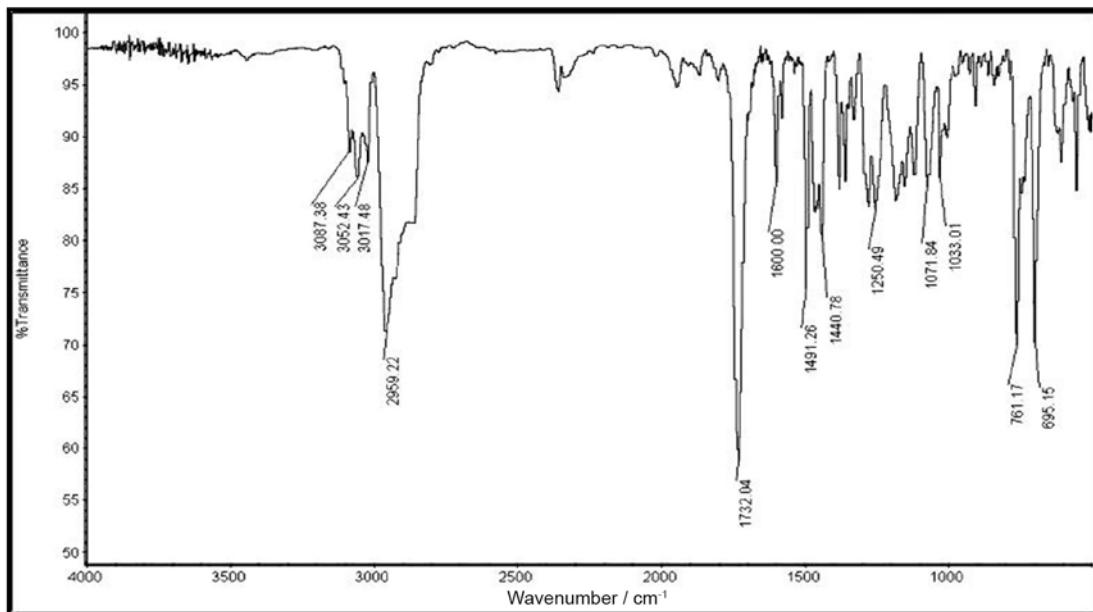


Figure S10. FTIR (KBr) spectrum of compound **10ab**.

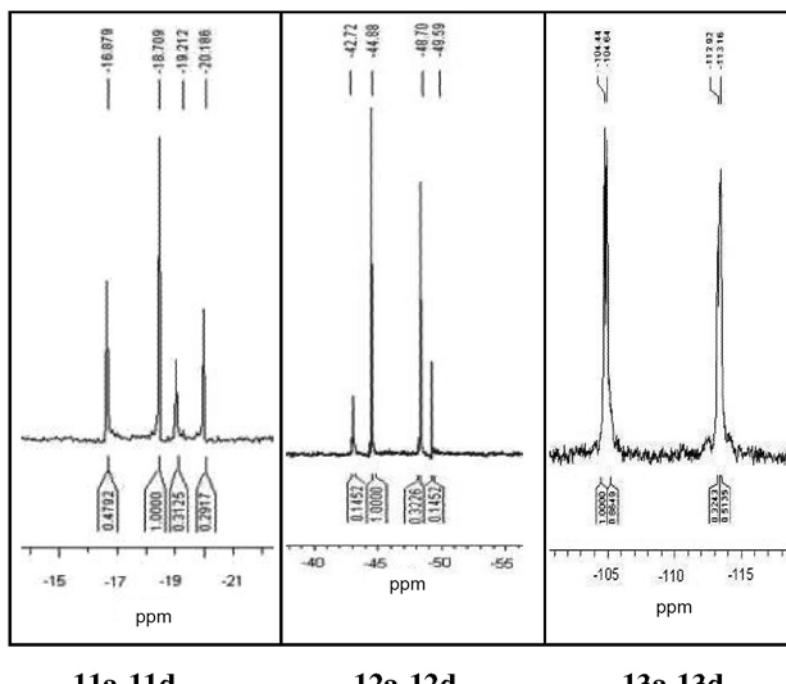


Figure S11. ¹¹⁹Sn NMR spectrum (111.8 MHz, CDCl₃) of diastereomers in the mixtures obtained in the additions of triorganotin hydrides **5**, **6** and **7** to diester **2**.

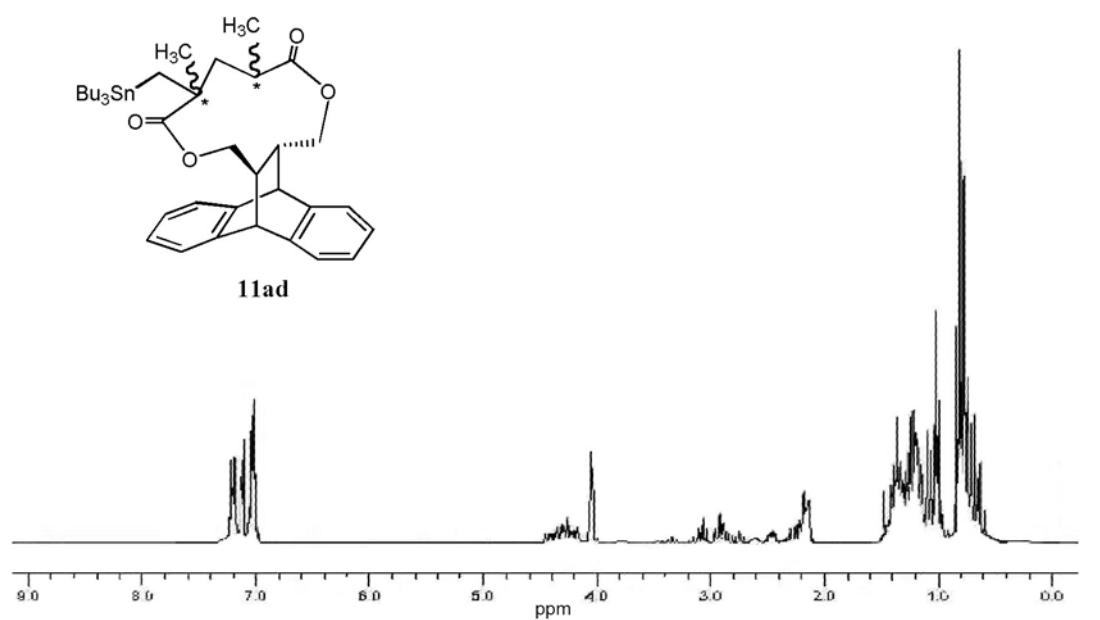


Figure S12. ^1H NMR (300 MHz, CDCl_3) spectrum of compound **11ad**.

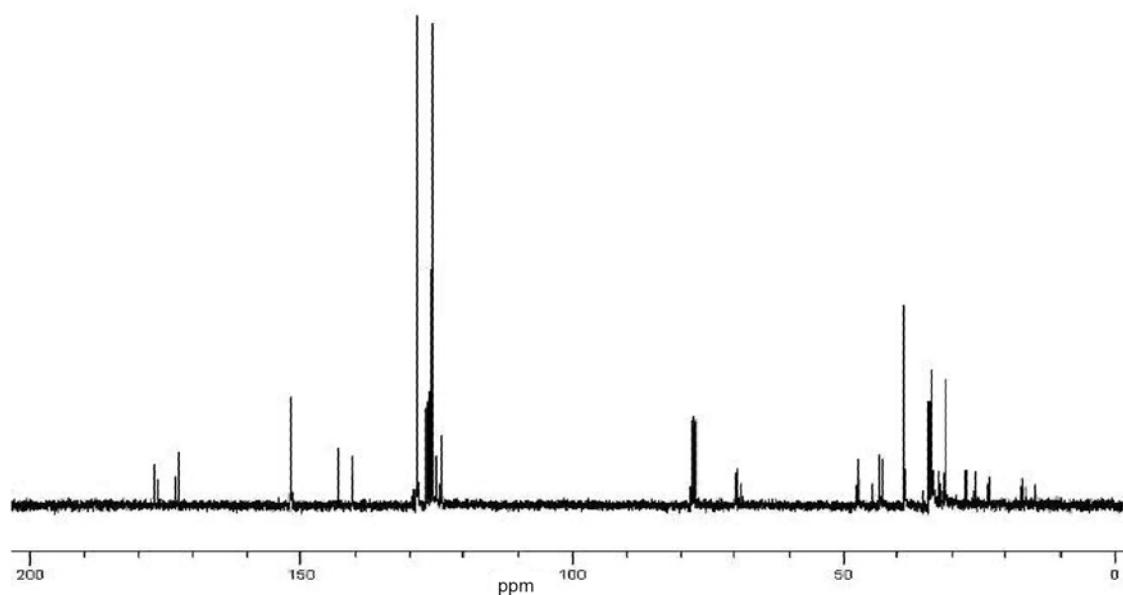


Figure S13. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound **11ad**.

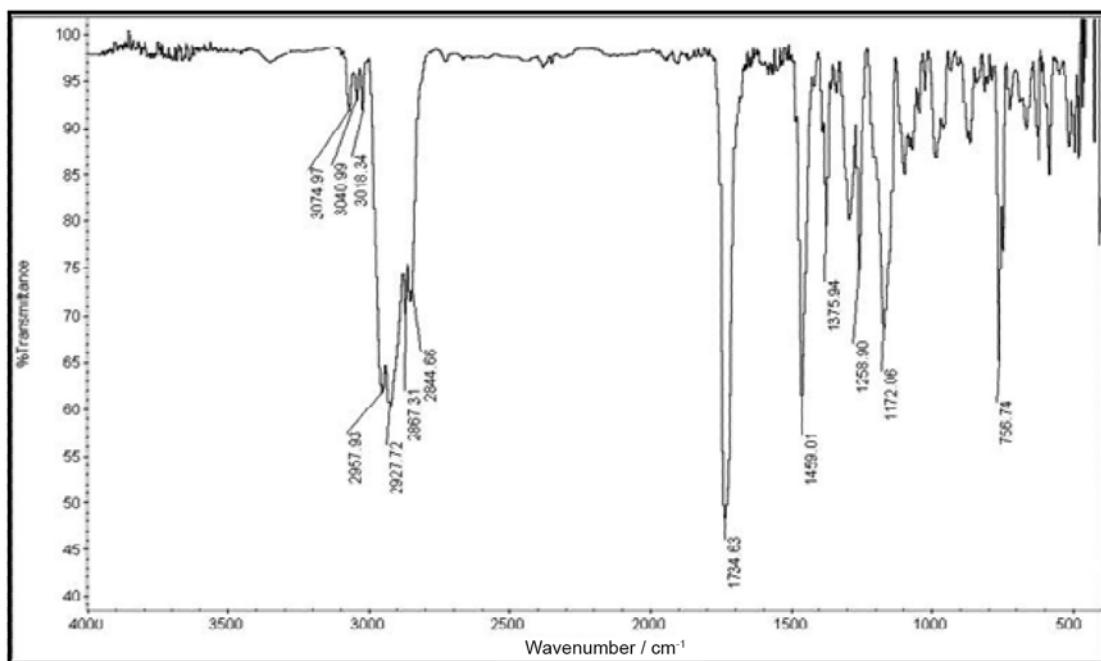


Figure S14. FTIR (KBr) spectrum of compound **11ad**.

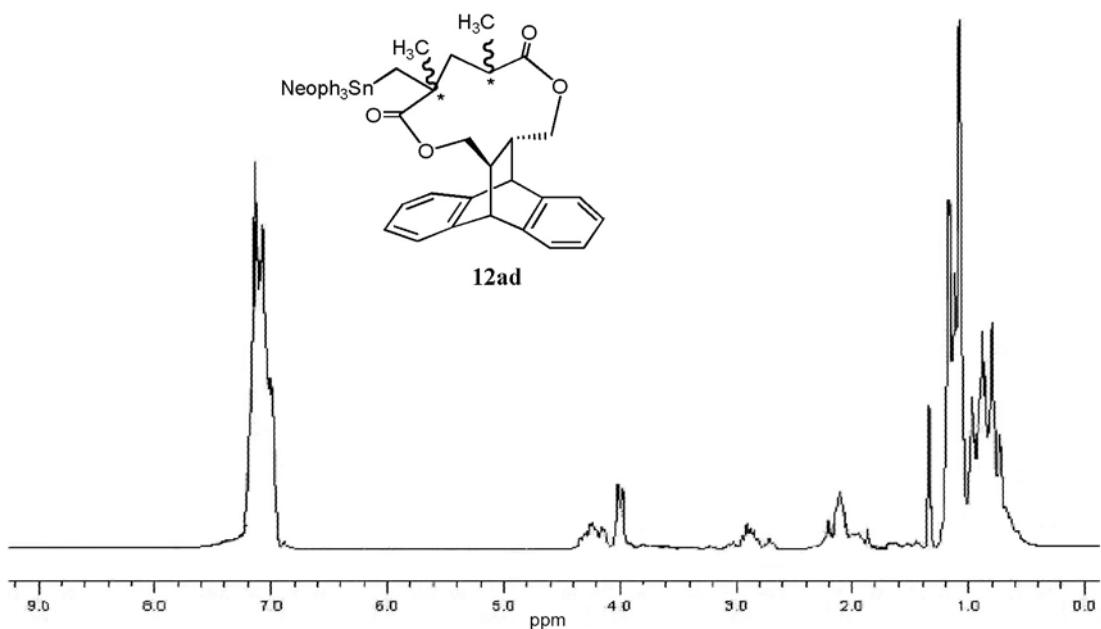


Figure S15. ^1H NMR (300 MHz, CDCl_3) spectrum of compound **12ad**.

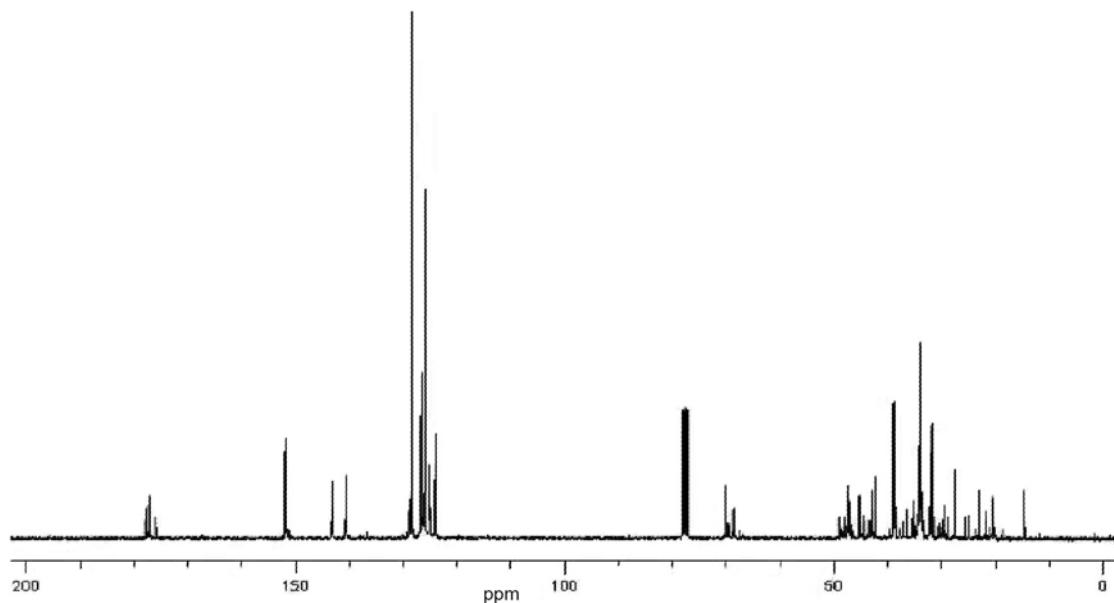


Figure S16. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 12ad.

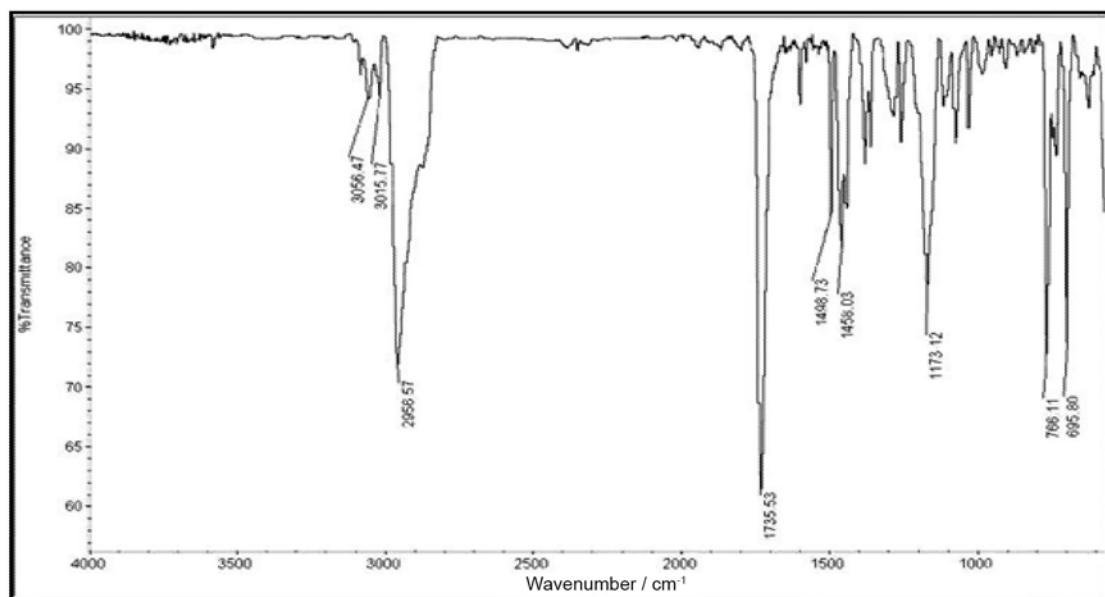


Figure S17. FTIR (KBr) spectrum of compound 12ad.

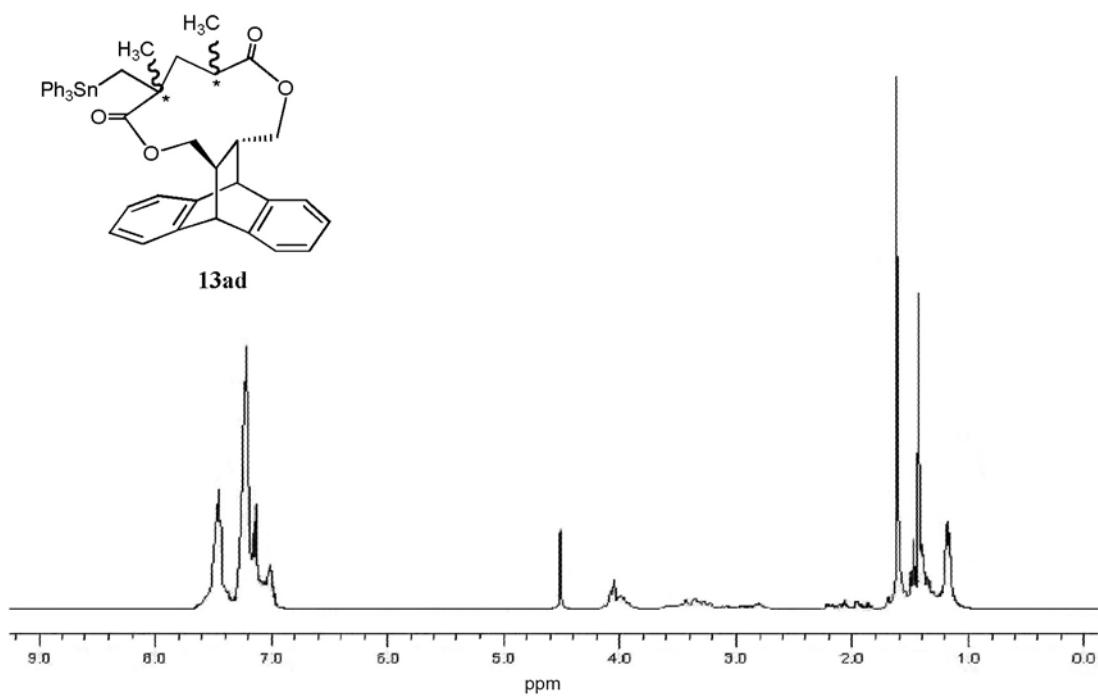


Figure S18. ¹H NMR (300 MHz, CDCl₃) spectrum of compound **13ad**.

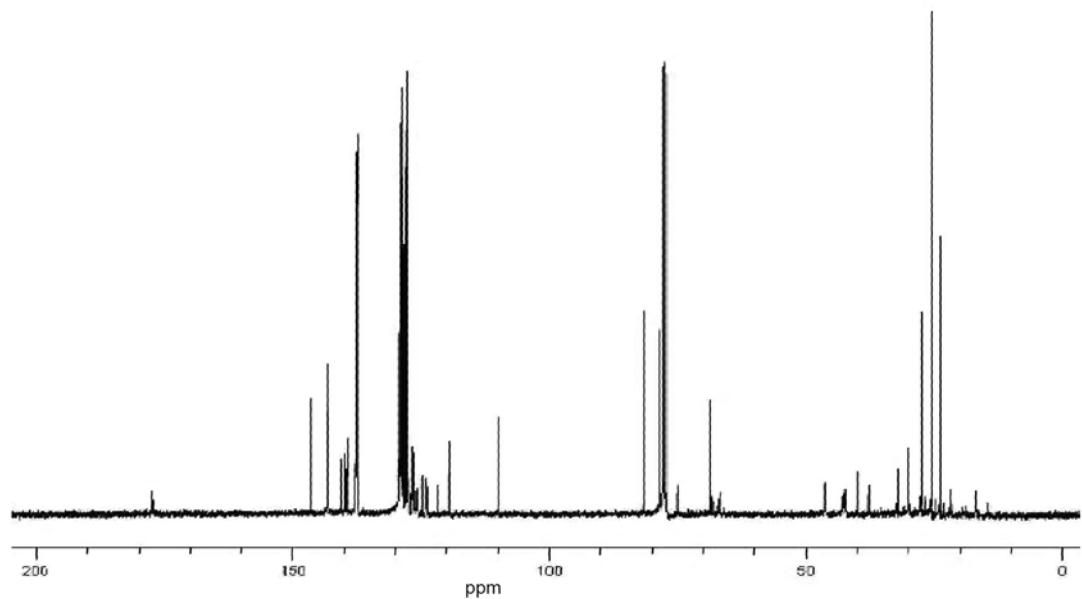


Figure S19. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound **13ad**.

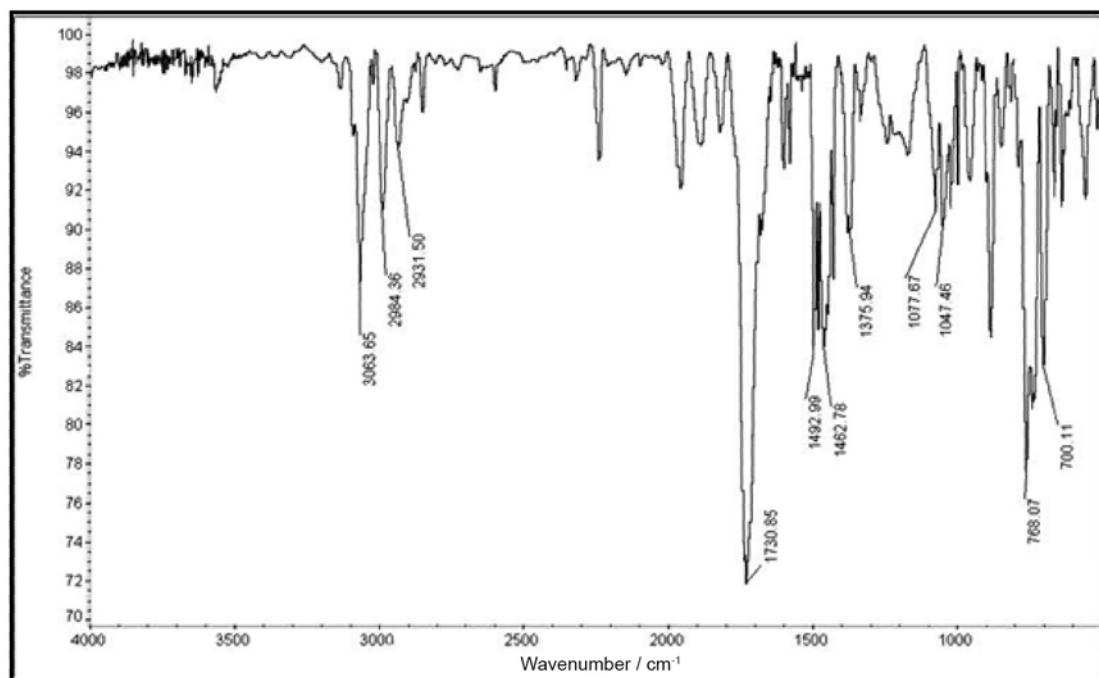
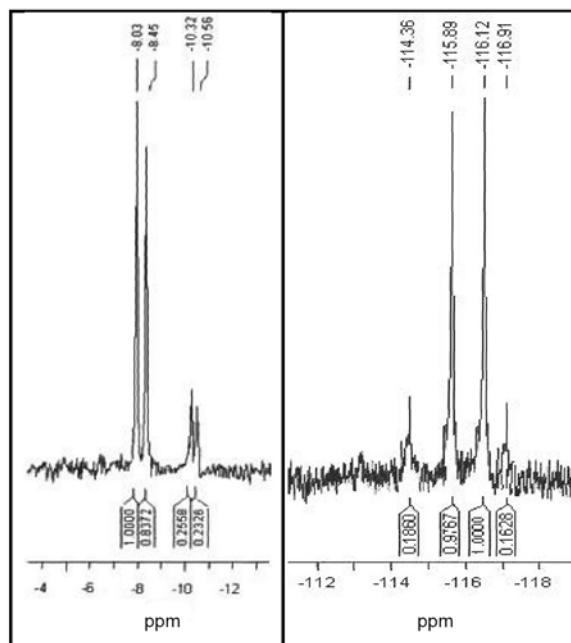


Figure S20. FTIR (KBr) spectrum of compound **13ad**.



14a-14d

15a-15d

Figure S21. ¹¹⁹Sn NMR spectrum (111.8 MHz, CDCl₃) of diastereomers in the mixtures obtained in the additions of triorganotin hydrides **5** and **6** to diester **3**.

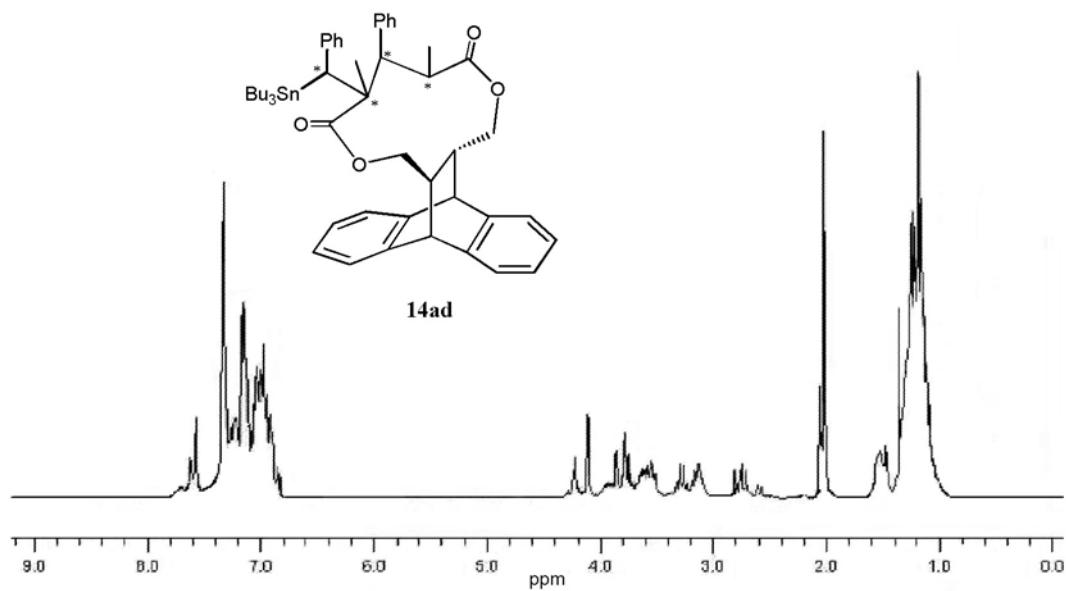


Figure S22. ¹H NMR (300 MHz, CDCl₃) spectrum of compound **14ad**.

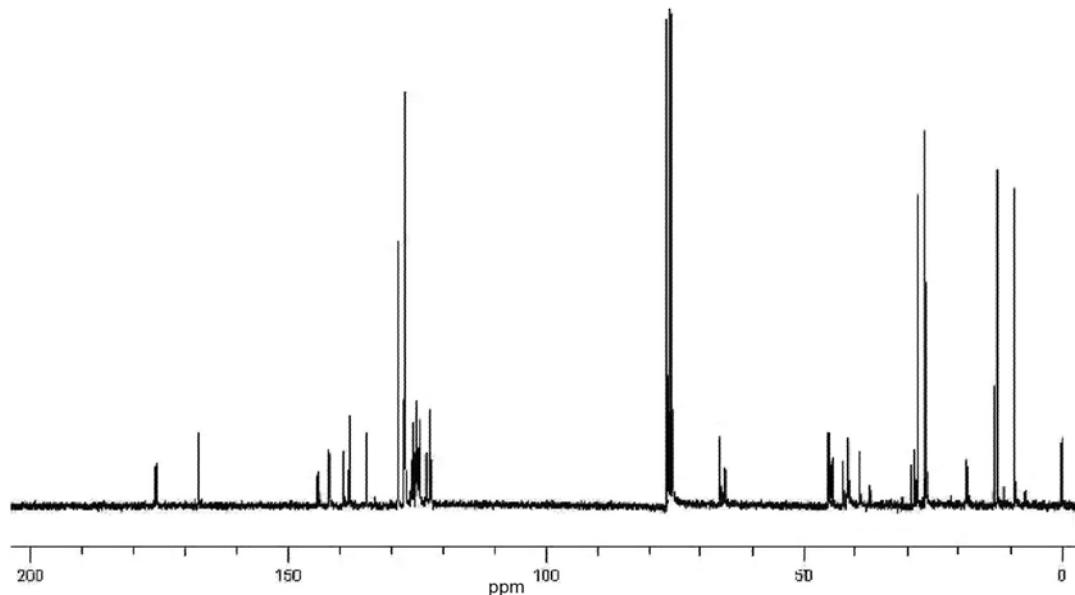


Figure S23. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound **14ad**.

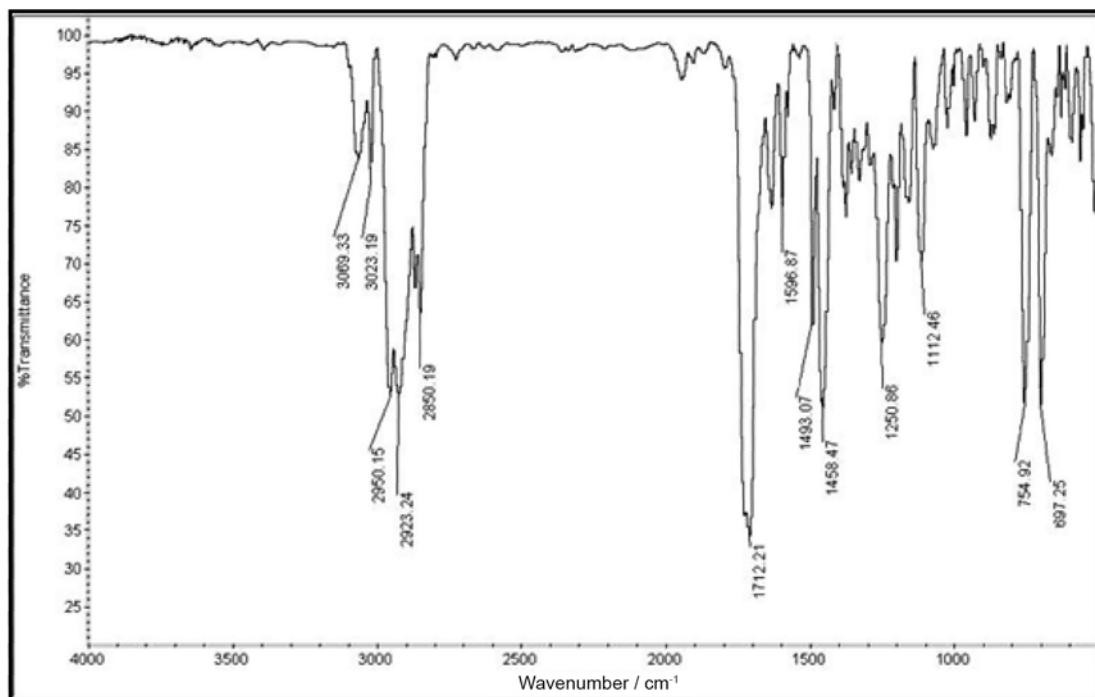


Figure S24. FTIR (KBr) spectrum of compound **14ad**.

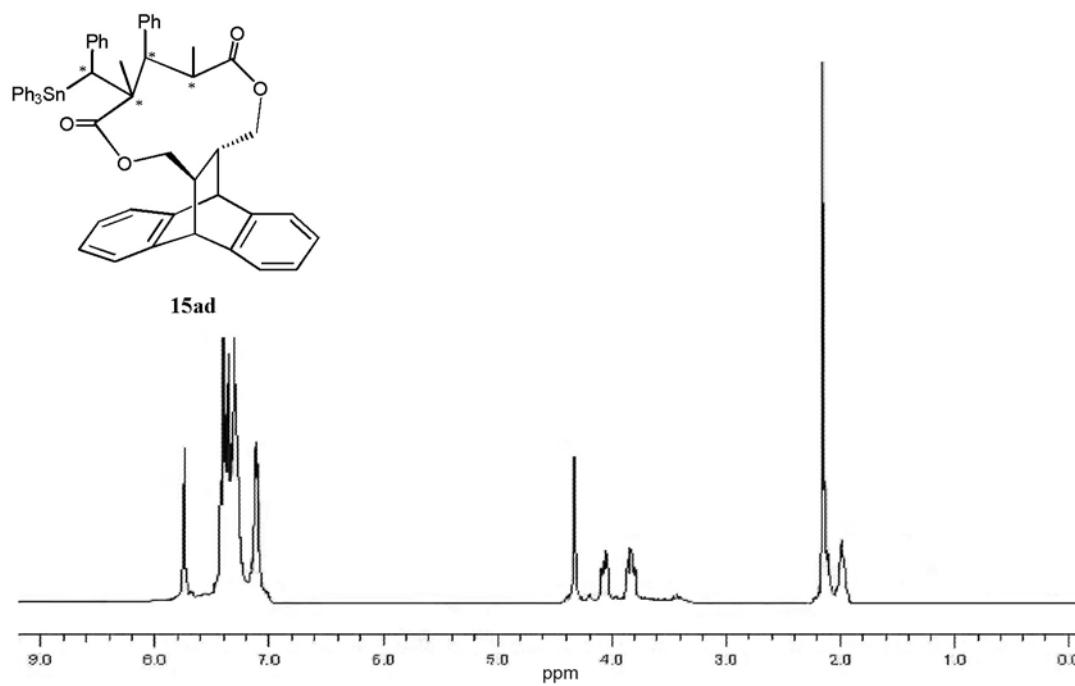


Figure S25. ¹H NMR (300 MHz, CDCl₃) spectrum of compound **15ad**.

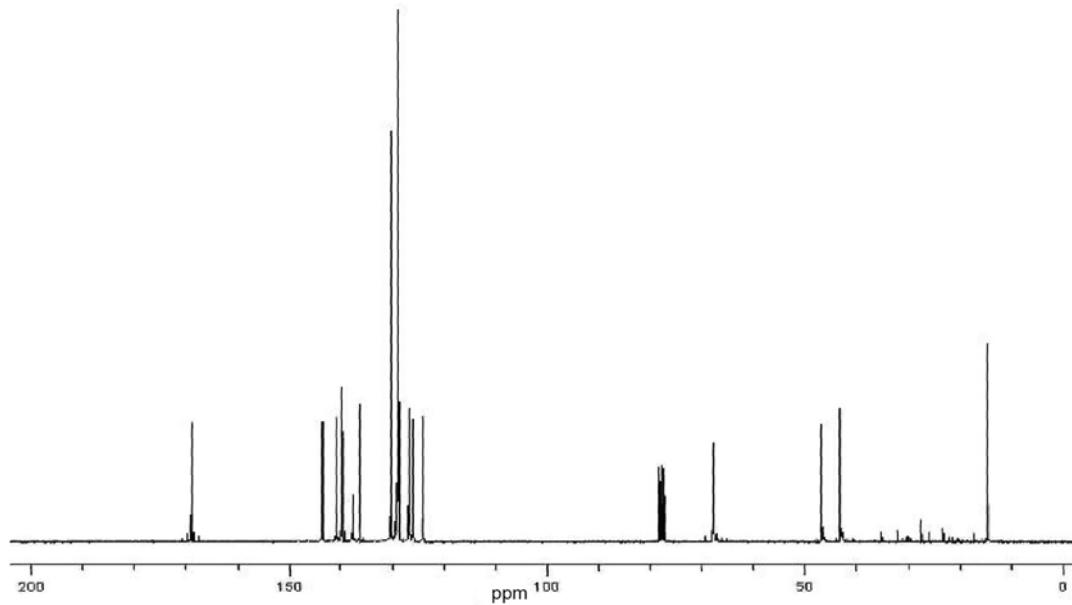


Figure S26. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 15ad.

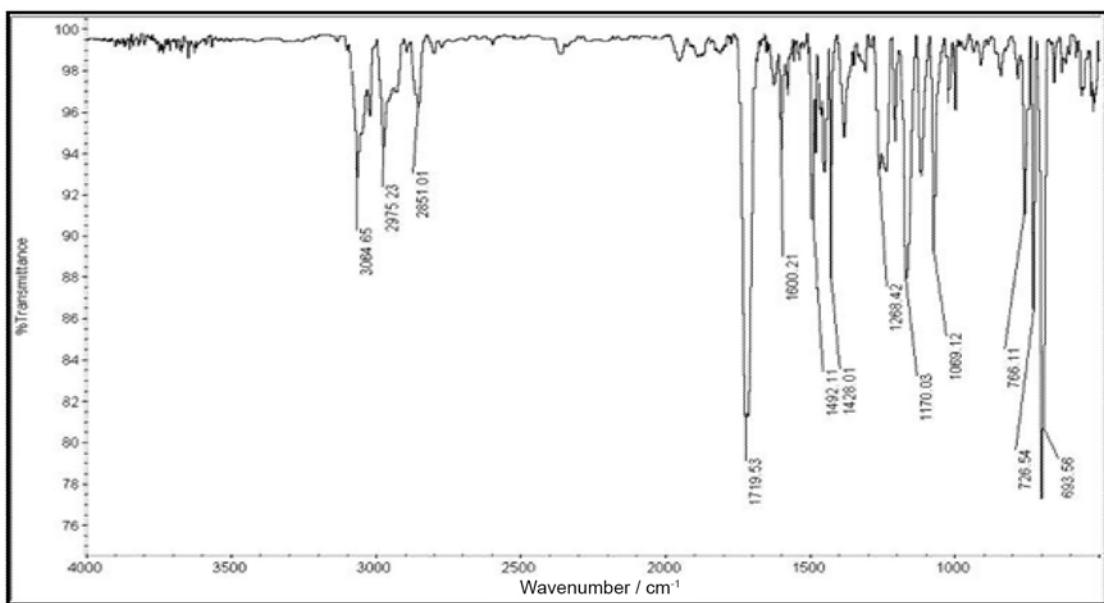


Figure S27. FTIR (KBr) spectrum of compound 15ad.

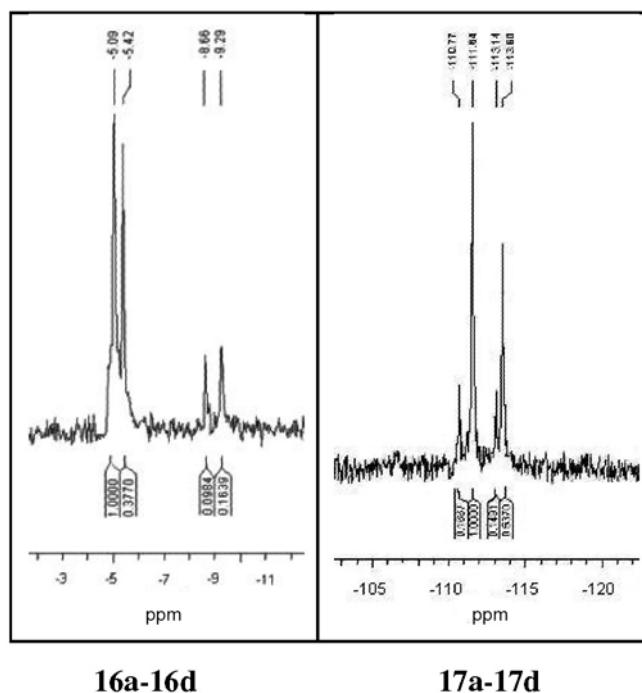


Figure S28. ¹¹⁹Sn NMR spectrum (111.8 MHz, CDCl₃) of diastereomers in the mixtures obtained in the additions of triorganotin hydrides **5** and **6** to diester **4**.

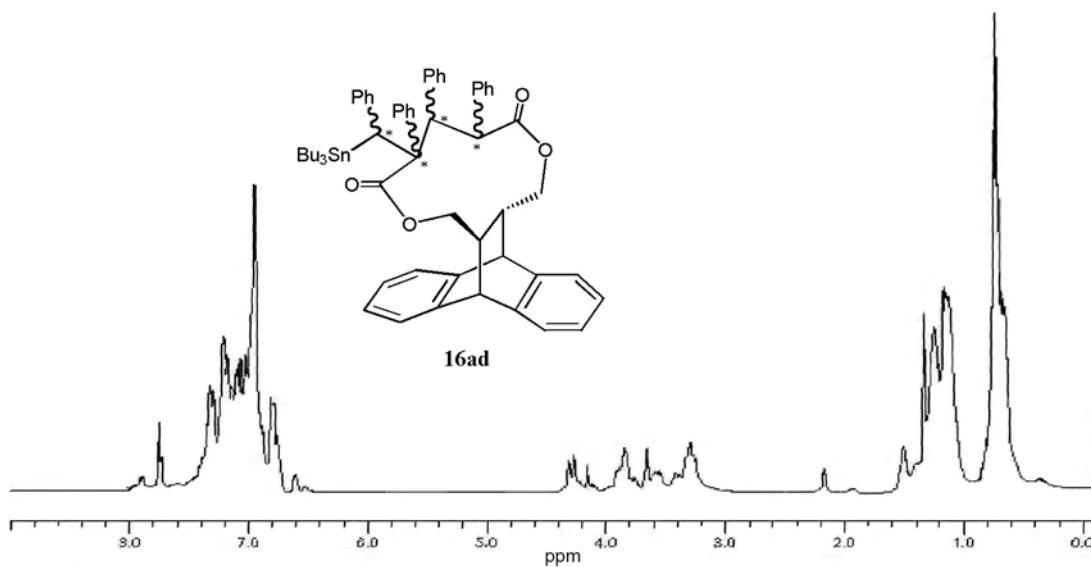


Figure S29. ¹H NMR (300 MHz, CDCl₃) spectrum of compound **16ad**.

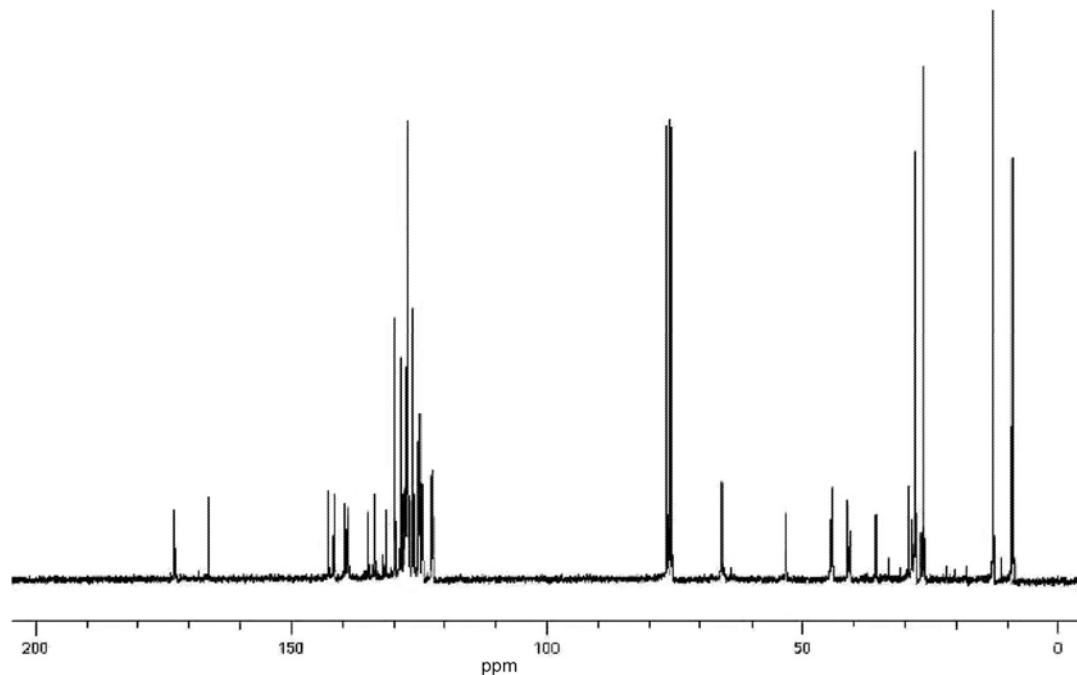


Figure S30. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 16ad.

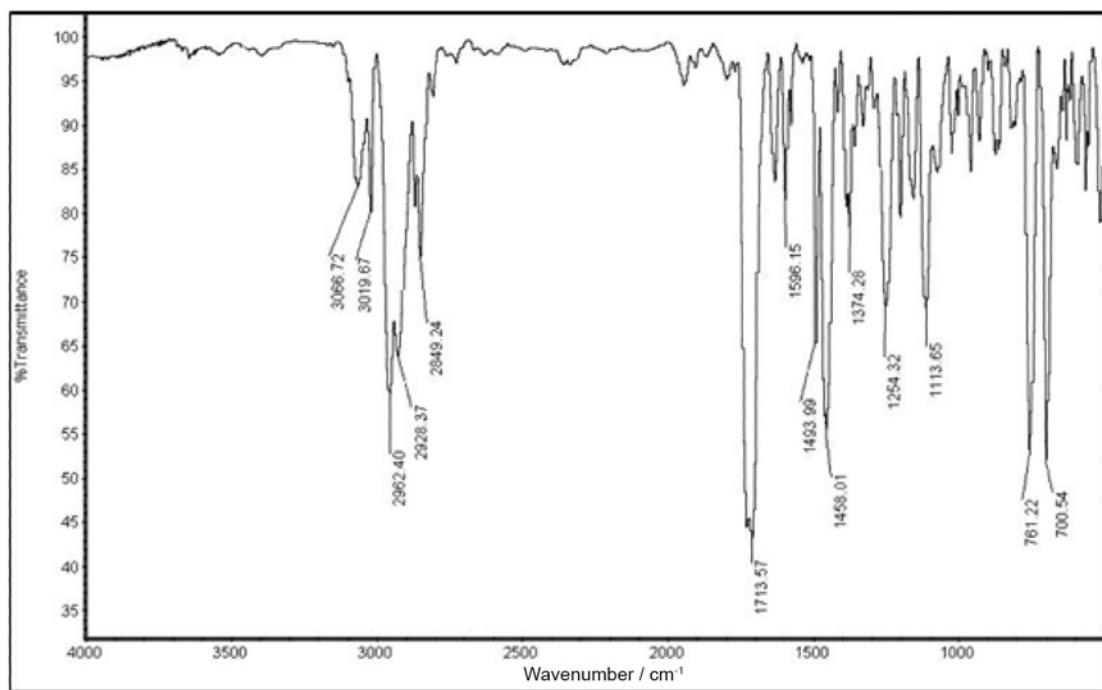


Figure S31. FTIR (KBr) spectrum of compound 16ad.

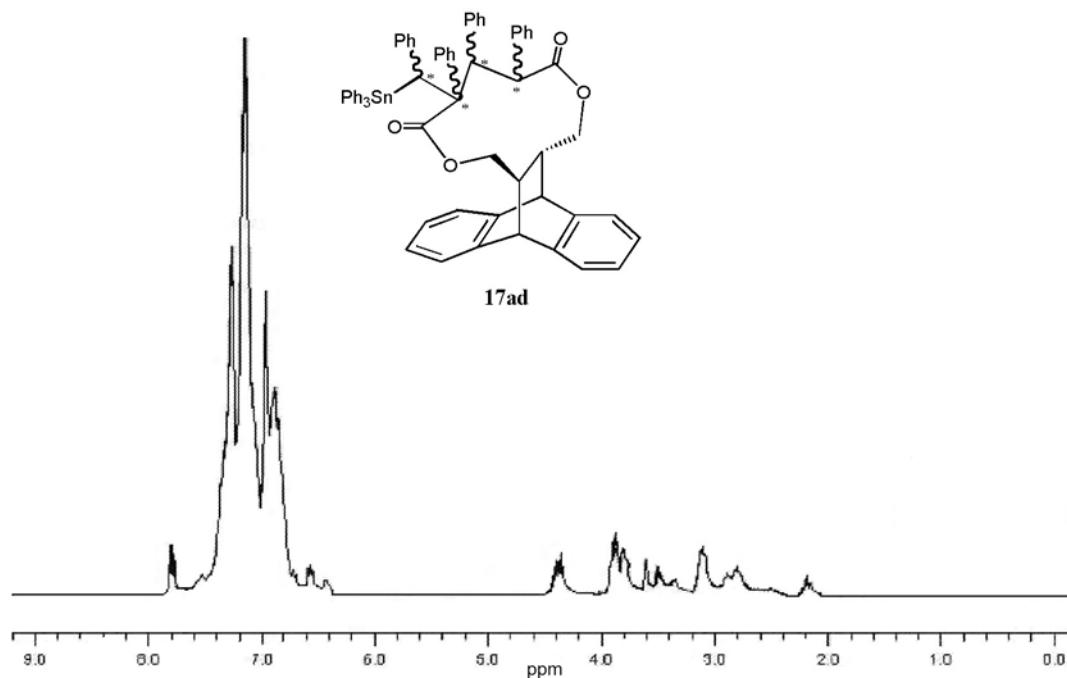


Figure S32. ^1H NMR (300 MHz, CDCl_3) spectrum of compound **17ad**.

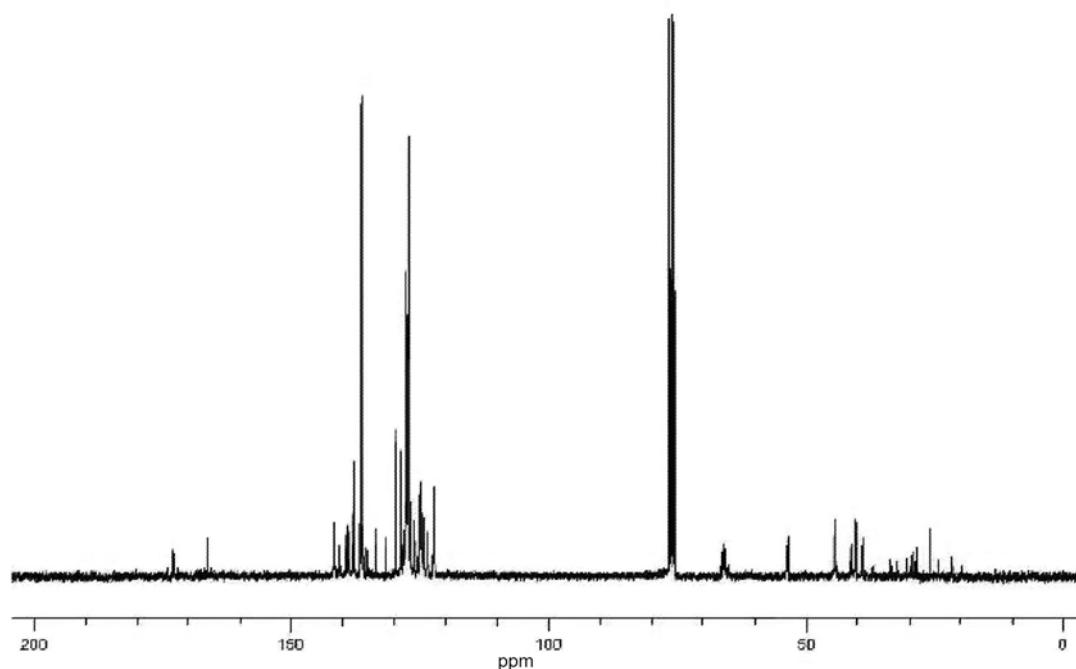


Figure S33. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound **17ad**.

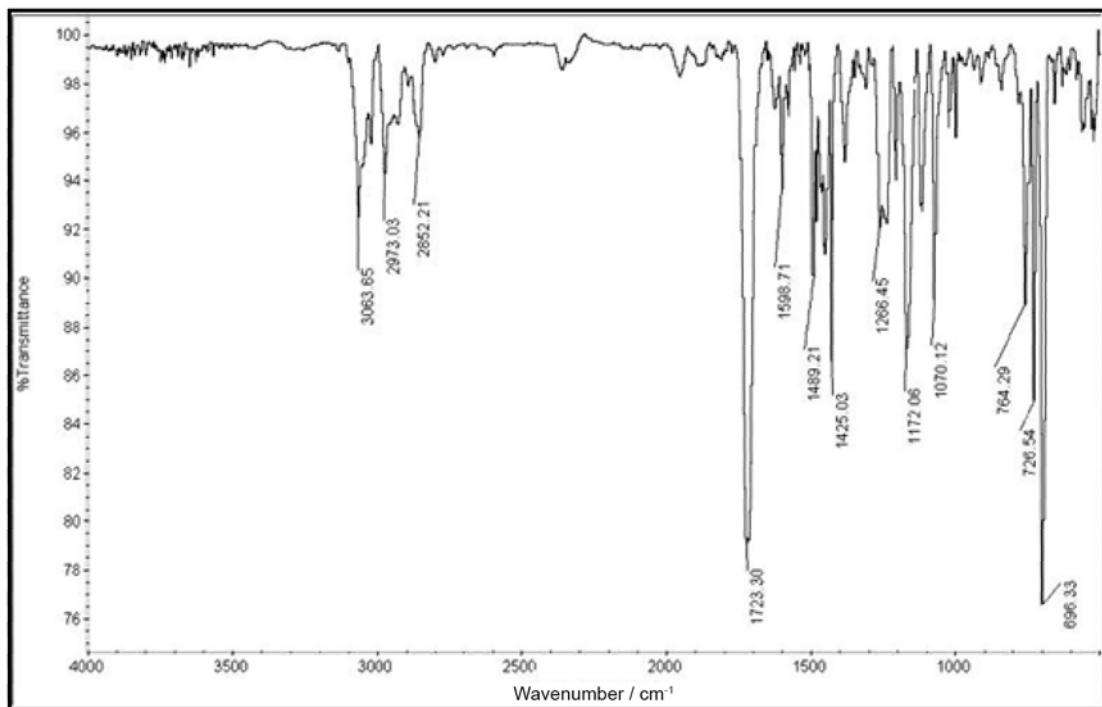


Figure S34. FTIR (KBr) spectrum of compound **17ad**.