Supporting Information for

Synthesis of Cyclic Monothiocarbonates via the Coupling of Carbonyl Sulfide (COS) with Epoxides

Figures

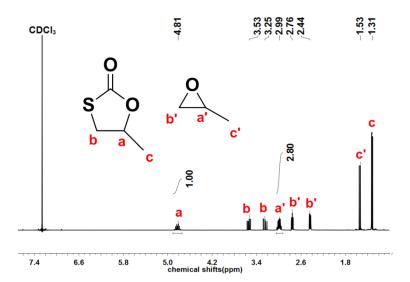


Figure S1. ¹H NMR spectrum of the crude product of entry 1 in Table 1.

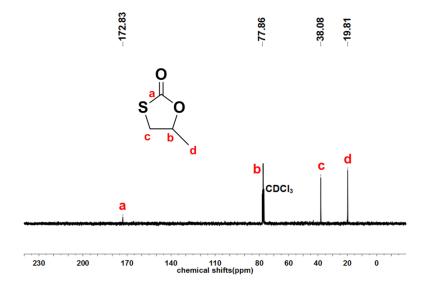


Figure S2. ¹³C NMR spectrum of compound 2a of entry 1 in Table 1.

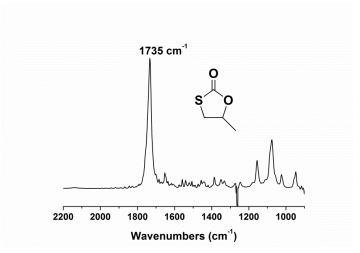


Figure S3. FT-IR spectrum of compound 2a of entry 1 in Table 1.

Figure S4. GC-MS spectrum of compound 2a of entry 1 in Table 1.

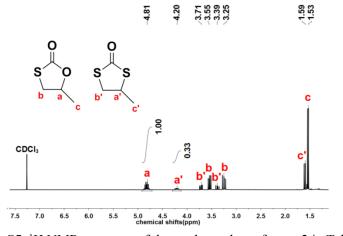


Figure S5. ¹H NMR spectrum of the crude product of entry 2 in Table 1.

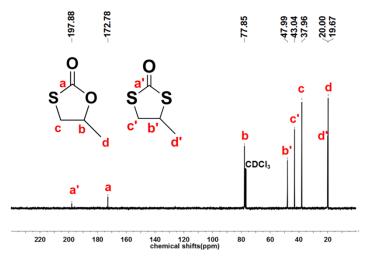


Figure S6. ¹³C NMR spectrum of the crude product of entry 2 in Table 1.

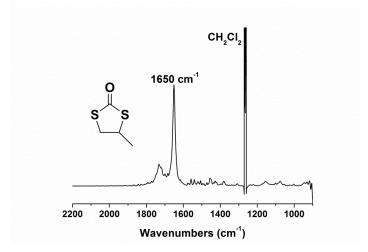


Figure S7. FT-IR spectrum of compound 3a in Table 1.

Figure S8. GC-MS spectrum of compound 3a in Table 1.

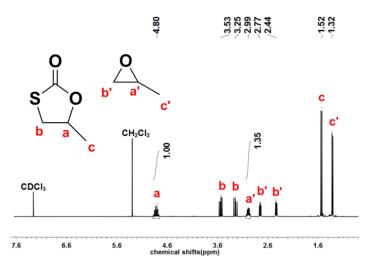


Figure S9. ¹H NMR spectrum of the crude product of entry 6 in Table 1.

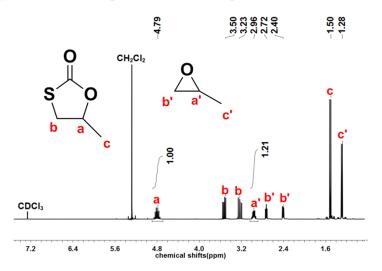


Figure S10. ¹H NMR spectrum of the crude product of entry 7 in Table 1.

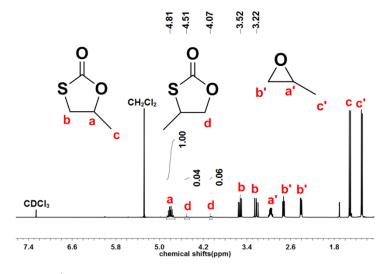


Figure S11. ¹H NMR spectrum of the crude product of entry 8 in Table 1.

Figure S12. GC-MS spectrum of the crude product (compound 2a and 4a) of entry 8 in Table 1.

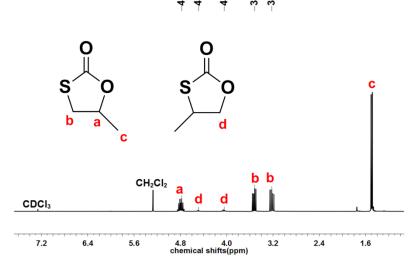


Figure S13. ¹H NMR spectrum of the crude product of entry 9 in Table 1.

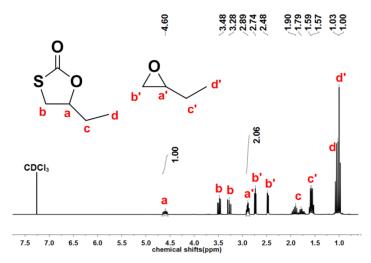


Figure S14. ¹H NMR spectrum of the crude product of entry 1 in Table 2.

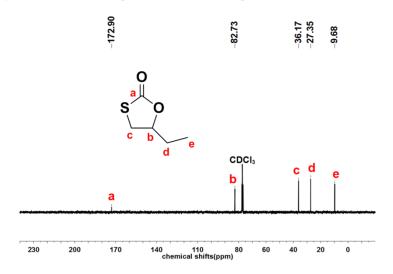


Figure S15. ¹³C NMR spectrum of compound **2b** of entry 1 in Table 2.

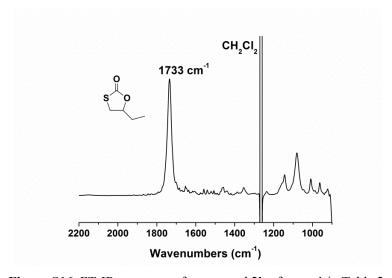


Figure S16. FT-IR spectrum of compound **2b** of entry 1 in Table 2.

Figure S17. GC-MS spectrum of compound **2b** of entry 1 in Table 2.

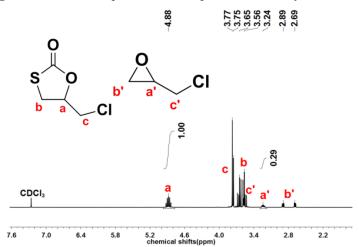


Figure S18. ¹H NMR spectrum of the crude product of entry 5 in Table 2.

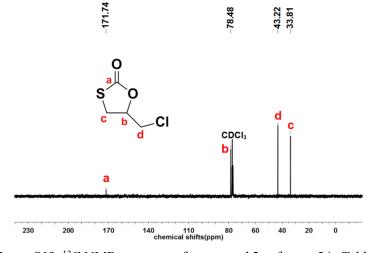


Figure S19. ¹³C NMR spectrum of compound **2c** of entry 5 in Table 2.

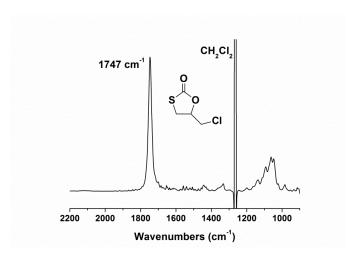


Figure S20. FT-IR spectrum of compound 2c of entry 5 in Table 2.

Figure S21. GC-MS spectrum of compound 2c of entry 5 in Table 2.

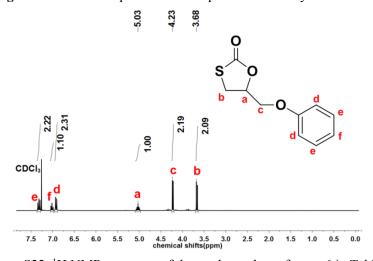


Figure S22. ¹H NMR spectrum of the crude product of entry 6 in Table 2.

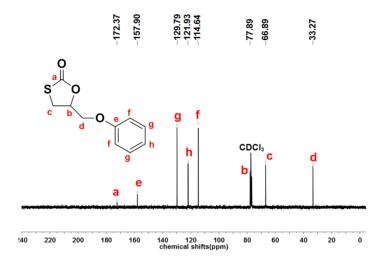


Figure S23. ¹³C NMR spectrum of compound **2d** of entry 6 in Table 2.

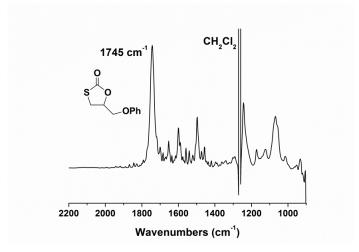


Figure S24. NMRFT-IR spectrum of compound **2d** of entry 6 in Table 2.

Figure S25. GC-MS spectrum of compound **2d** of entry 6 in Table 2.

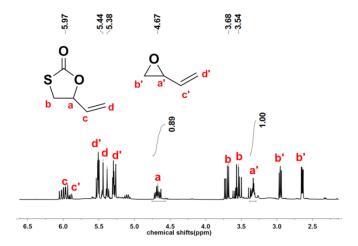


Figure S26. ¹H NMR spectrum of the crude product of entry 8 in Table 2.

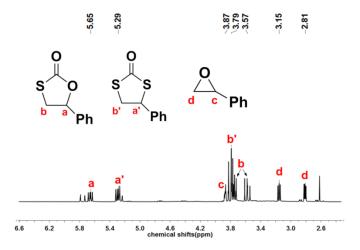


Figure S27. ¹H NMR spectrum of the crude product of entry 10 in Table 2.

Figure S28. The GC-MS spectrum of compound 2f and 3f of entry 10 in Table 2.

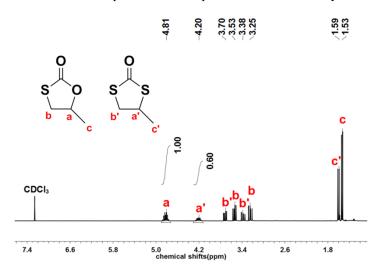


Figure S29. ¹H NMR spectrum of the crude product of entry 3 in Table 1.

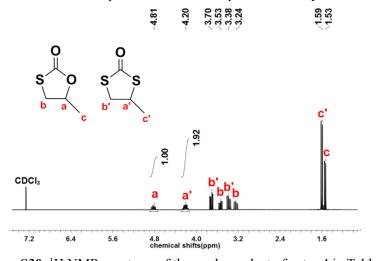


Figure S30. ¹H NMR spectrum of the crude product of entry 4 in Table 1.

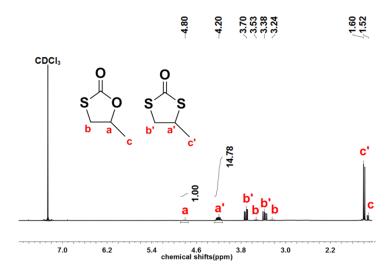


Figure S31. ¹H NMR spectrum of the crude product of entry 5 in Table 1.

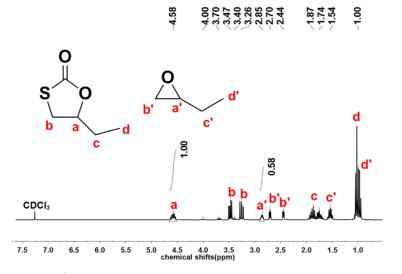


Figure S32. ¹H NMR spectrum of the crude product of entry 2 in Table 2.

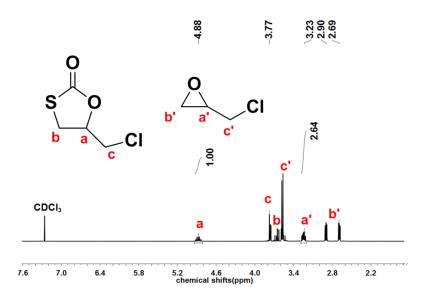


Figure S33. ¹H NMR spectrum of the crude product of entry 3 in Table 2.

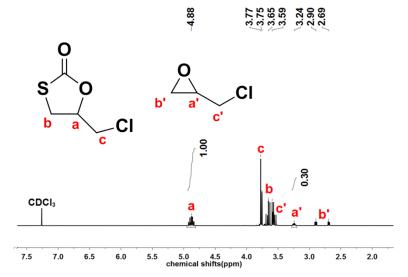


Figure S34. ¹H NMR spectrum of the crude product of entry 4 in Table 2.