J. Braz. Chem. Soc., Vol. 18, No. 6, S1-S8, 2007.
Printed in Brazil - ©2007 Sociedade Brasileira de Química
0103 - 5053 $6.00+0.00

A Mild Procedure for the α,α-Dichlorination of Cyclic Aryl Ketones using Commercial Bleach

Samir A. P. Quintiliano and Luiz F. Silva Jr.*

Instituto de Química, Universidade de São Paulo, 05513-970 São Paulo-SP, Brazil

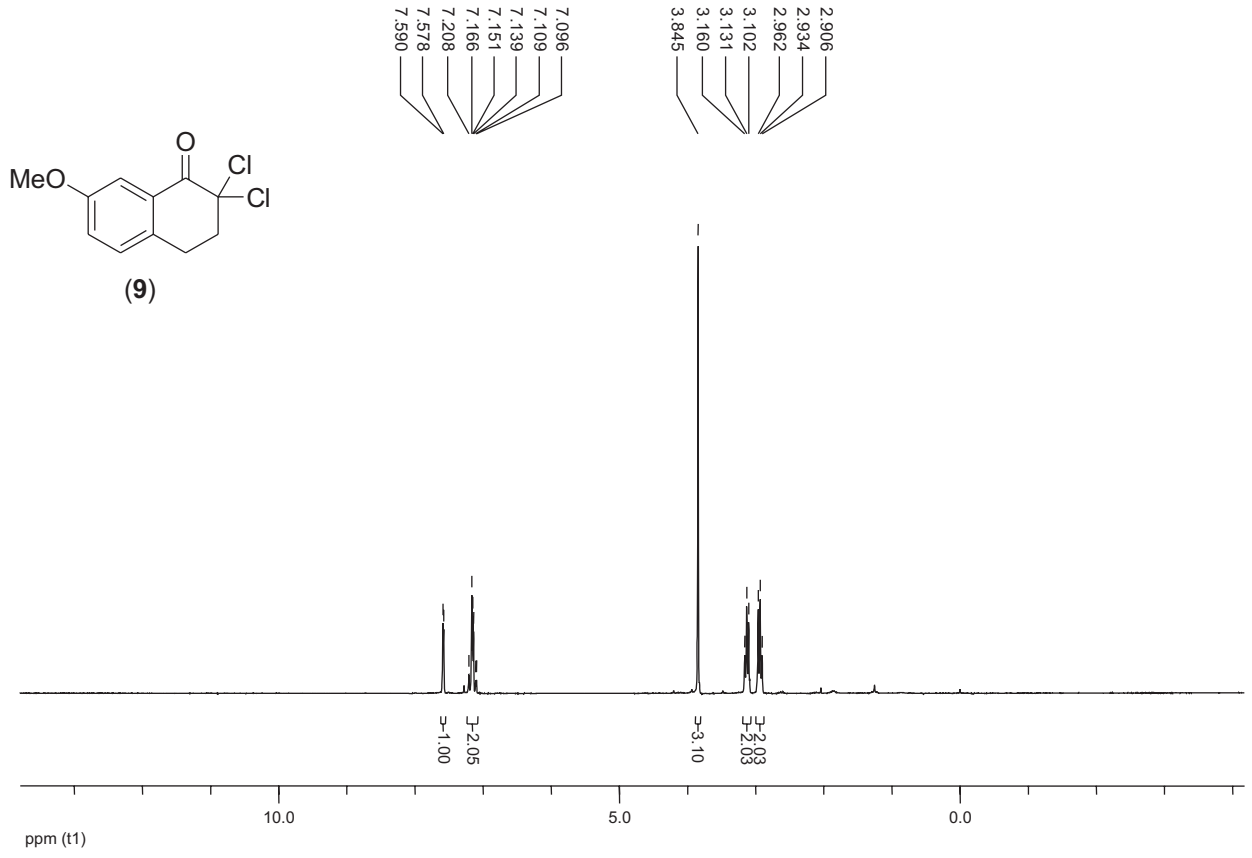

Figure S1. ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **9**.

*e-mail: luizfsjr@iq.usp.br

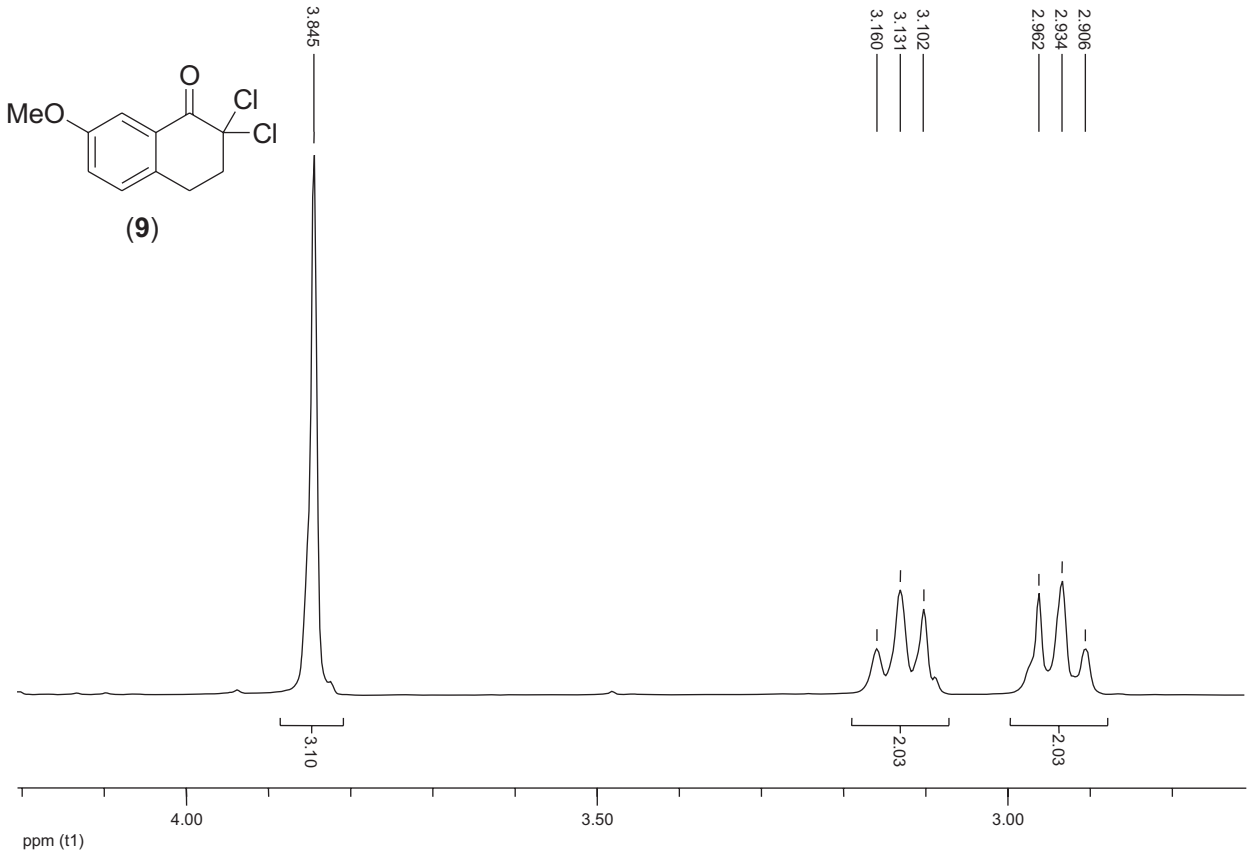

Figure S2. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **9**.

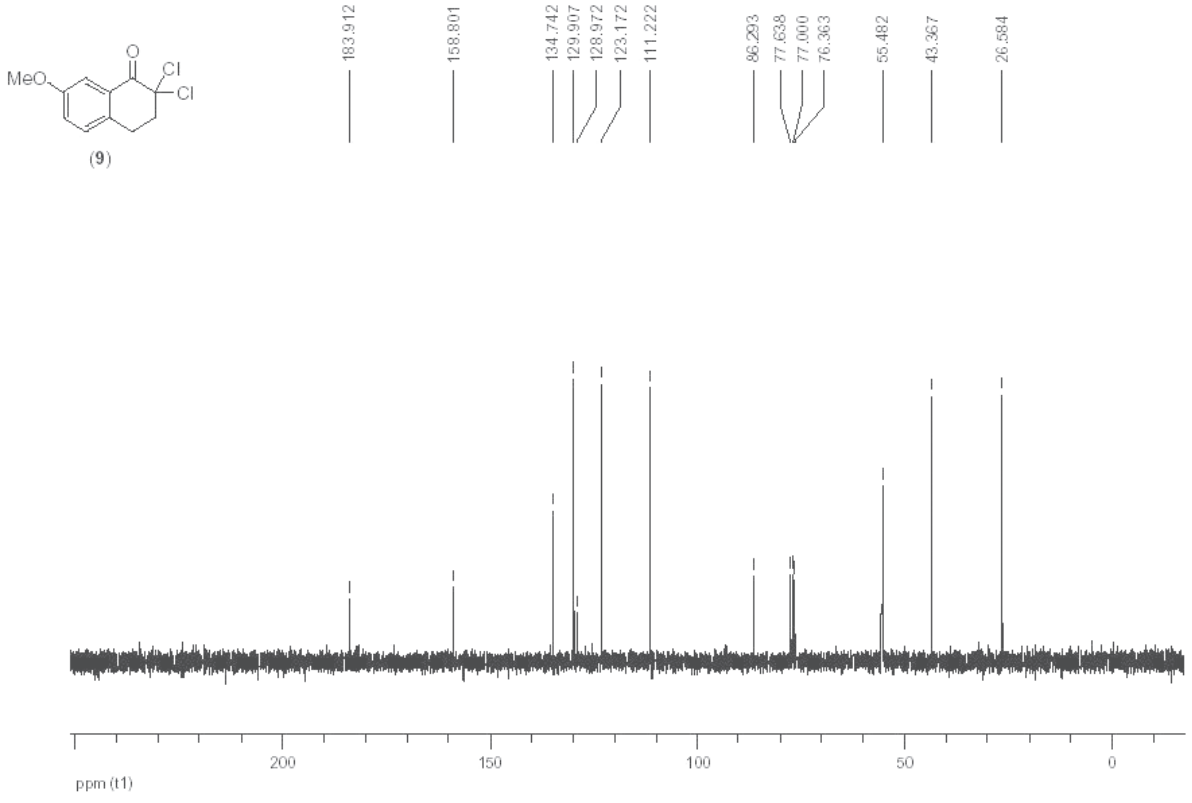

Figure S3. ^{13}C NMR spectrum (50 MHz, $CDCl_3$) of compound **9**.

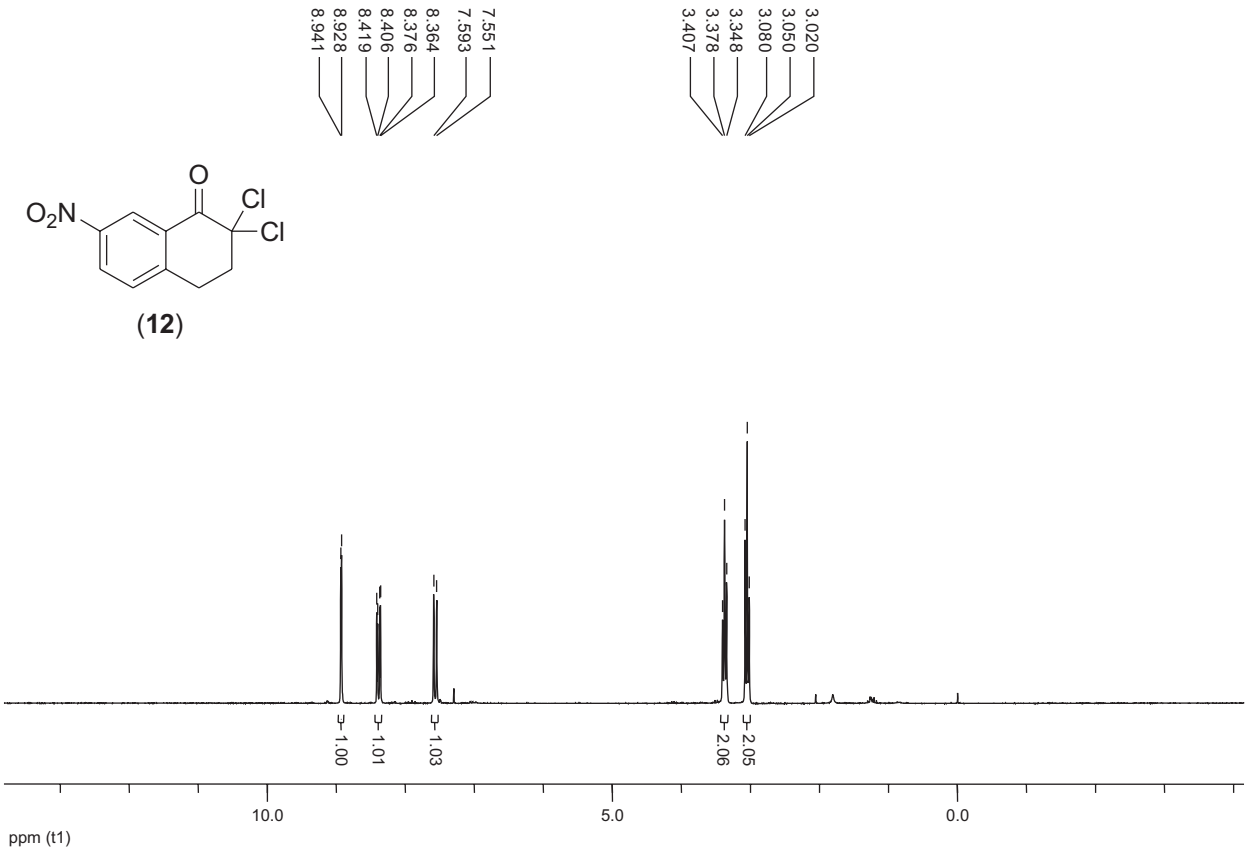

Figure S4. ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **12**.

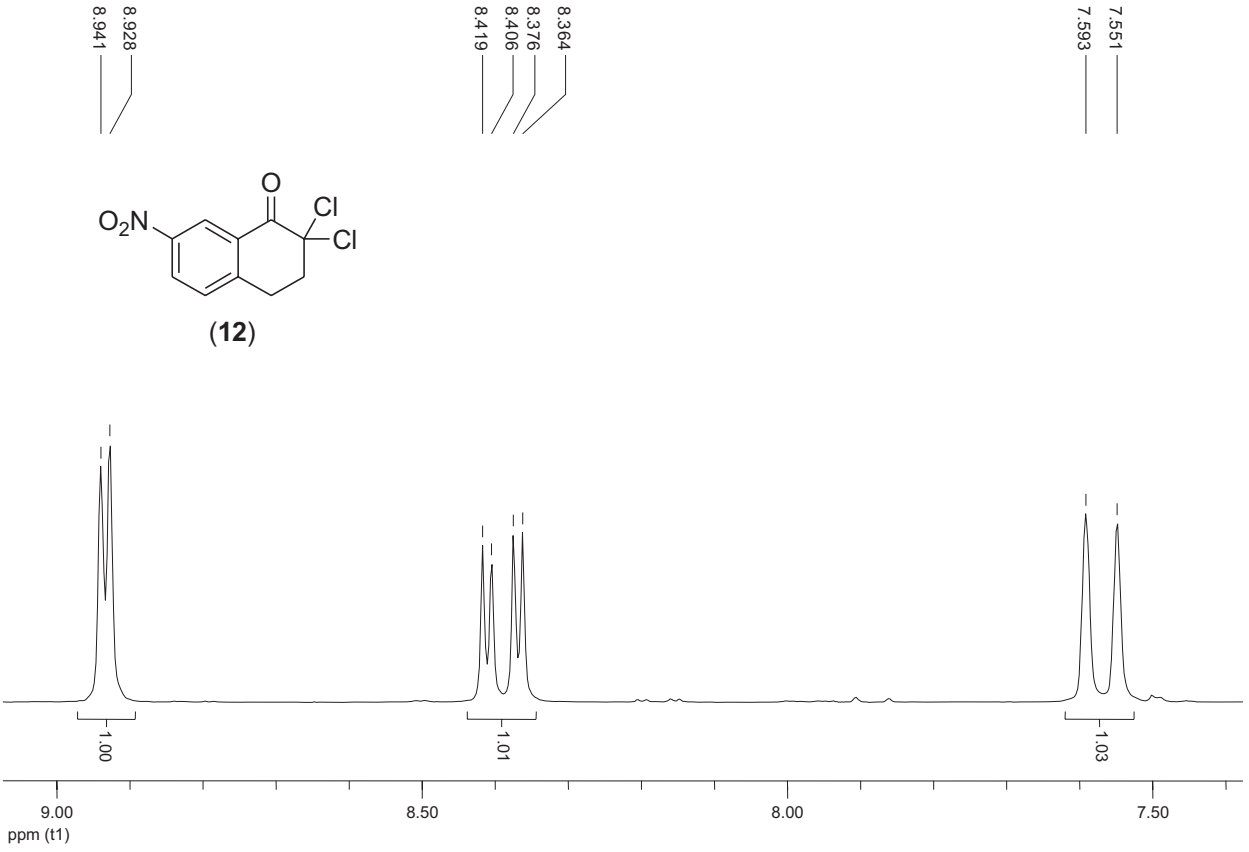

Figure S5. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **12**.

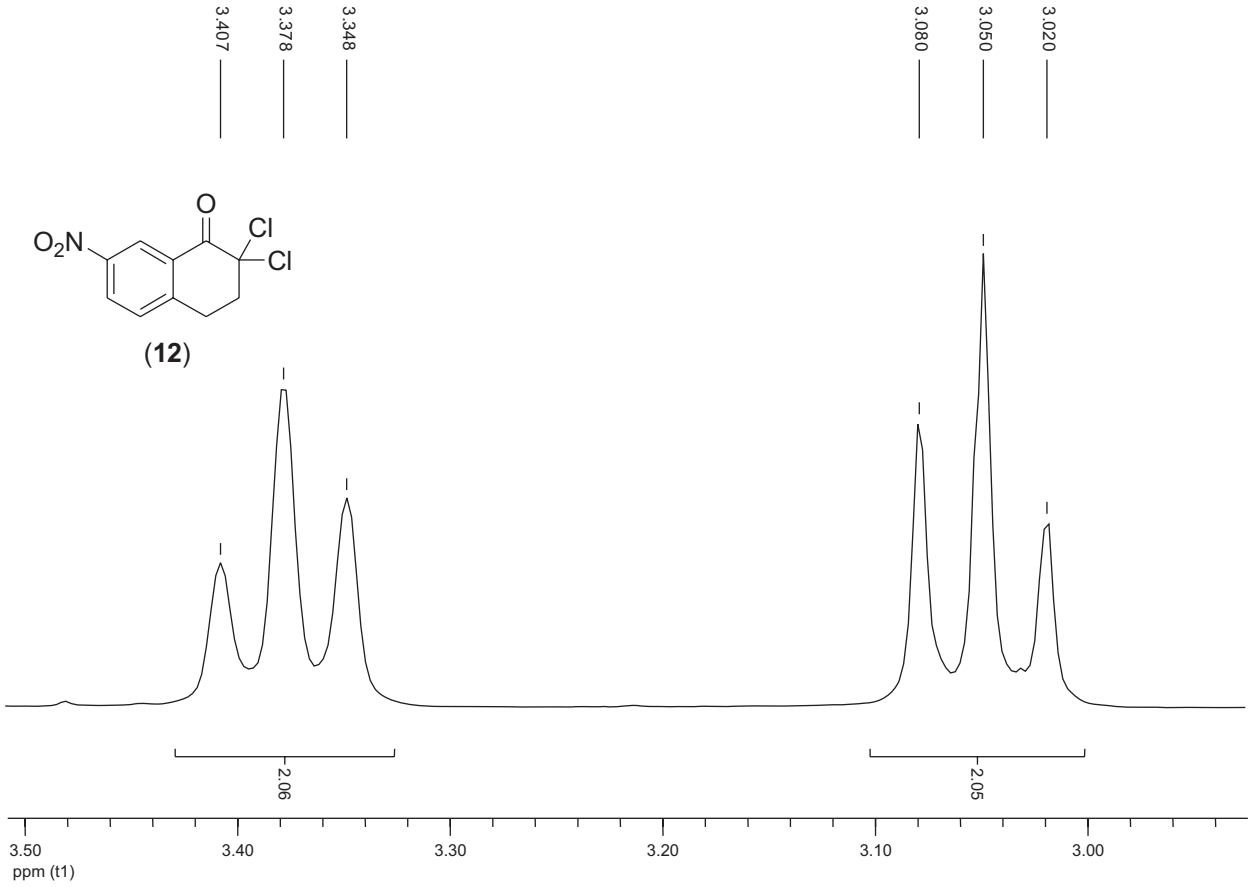

Figure S6. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **12**.

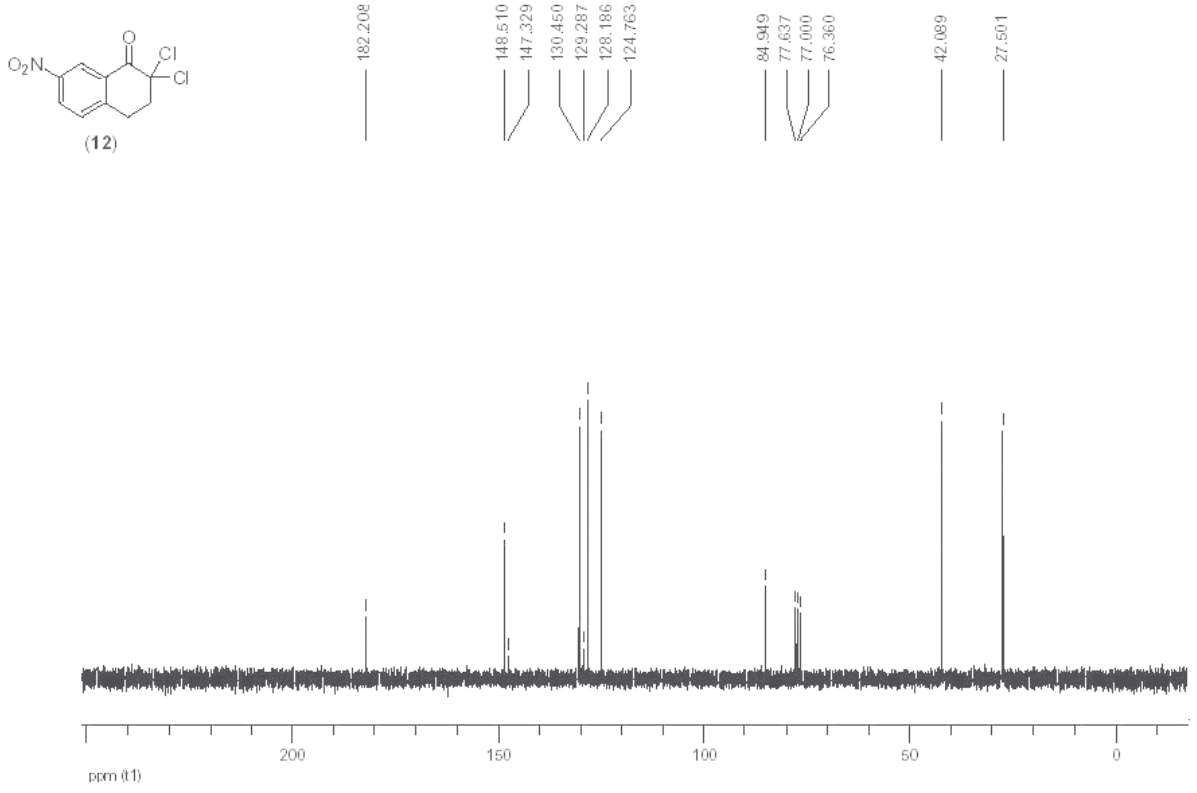

Figure S7. ^{13}C NMR spectrum (50 MHz, $CDCl_3$) of compound **12**.

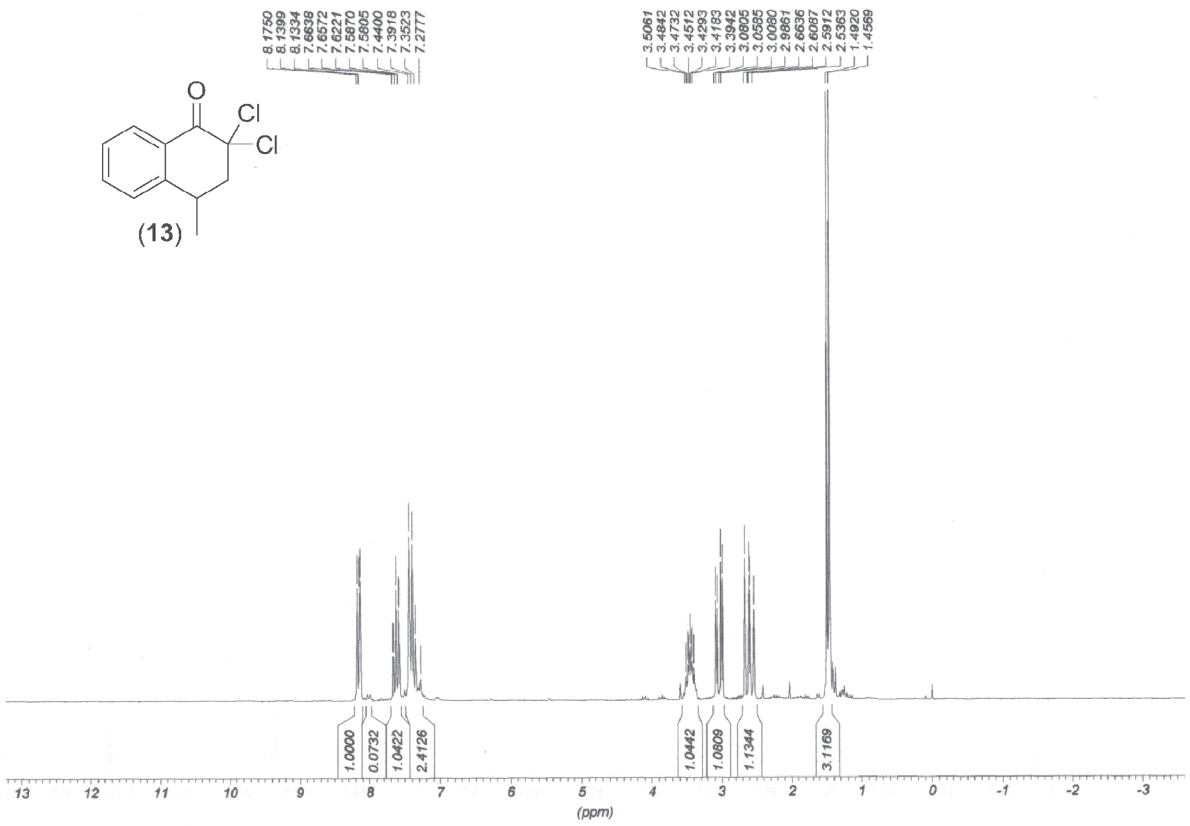

Figure S8. ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **13**.

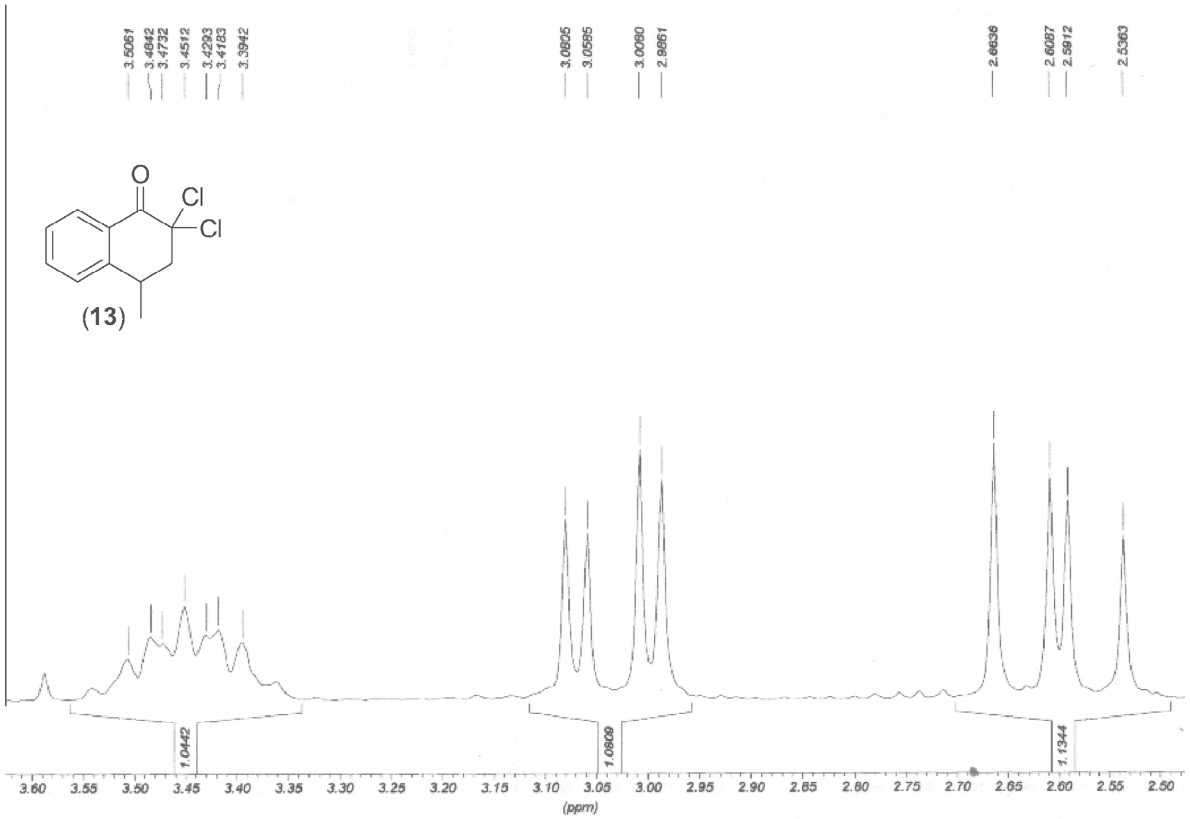

Figure S9. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **13**.

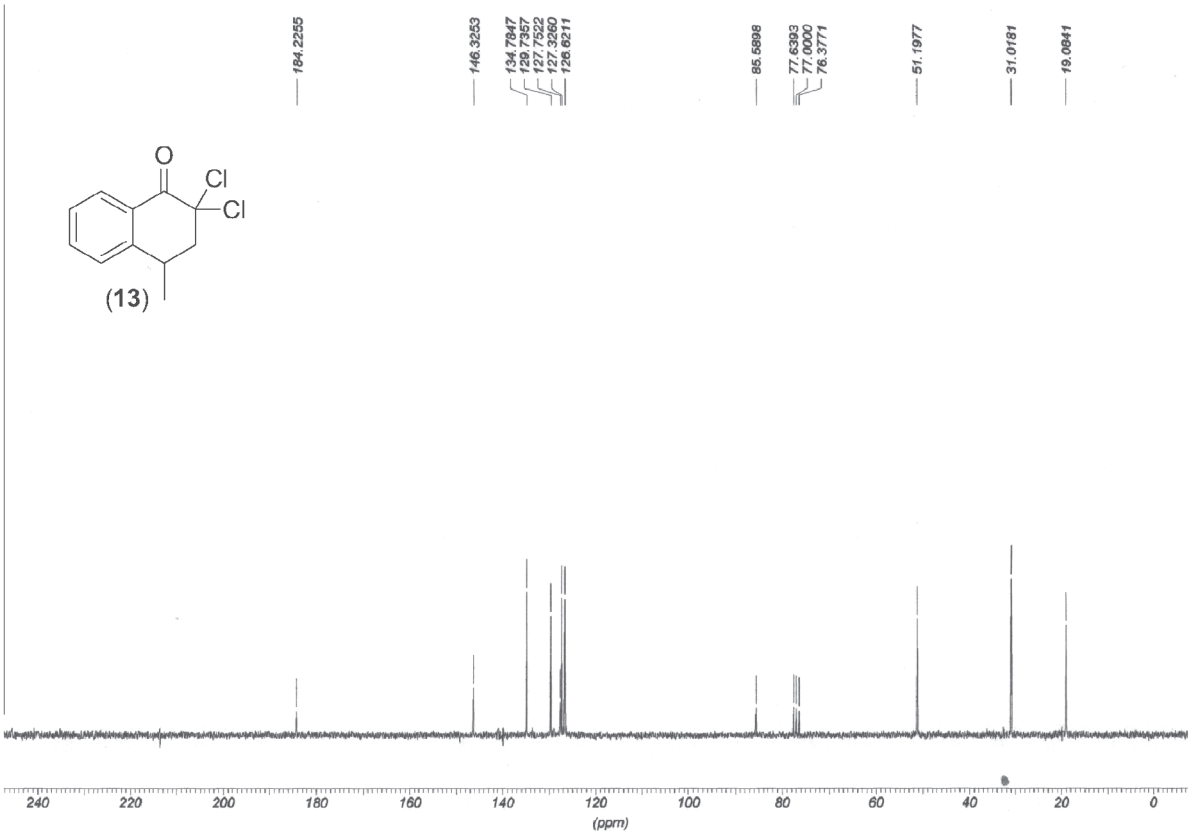

Figure S10. ^{13}C NMR spectrum (50 MHz, $CDCl_3$) of compound **13**.

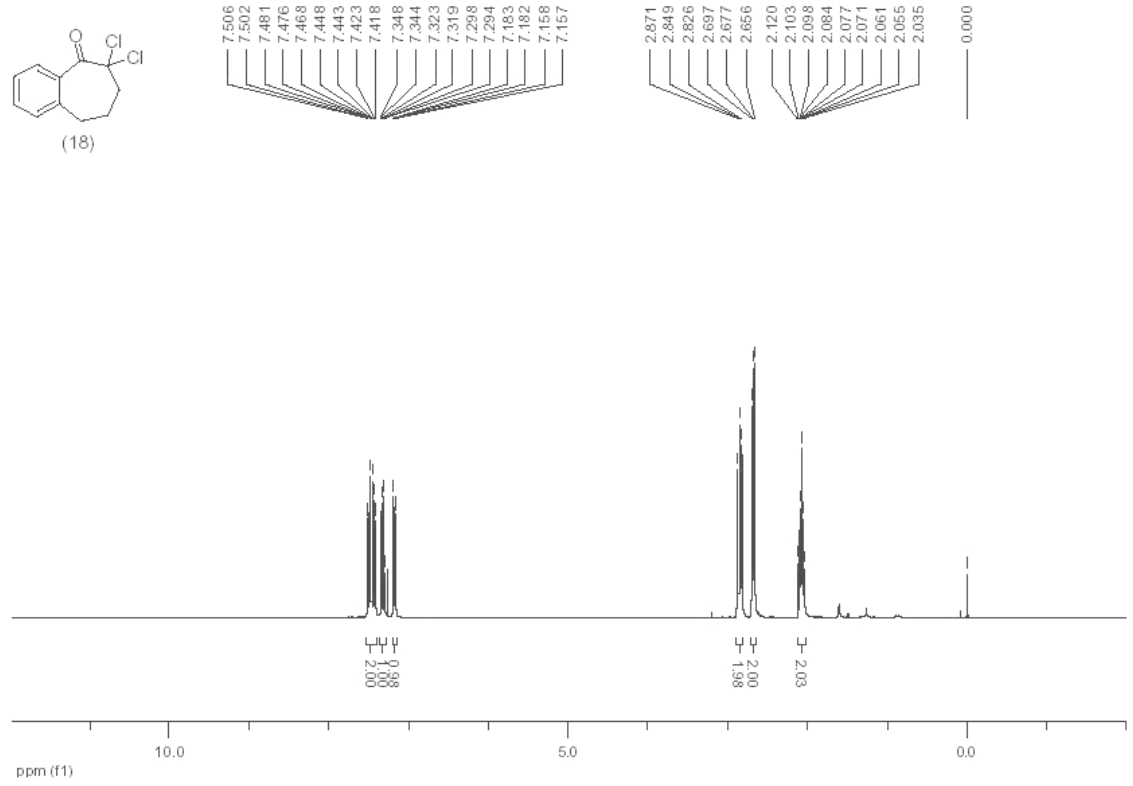

Figure S11. ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **18**.

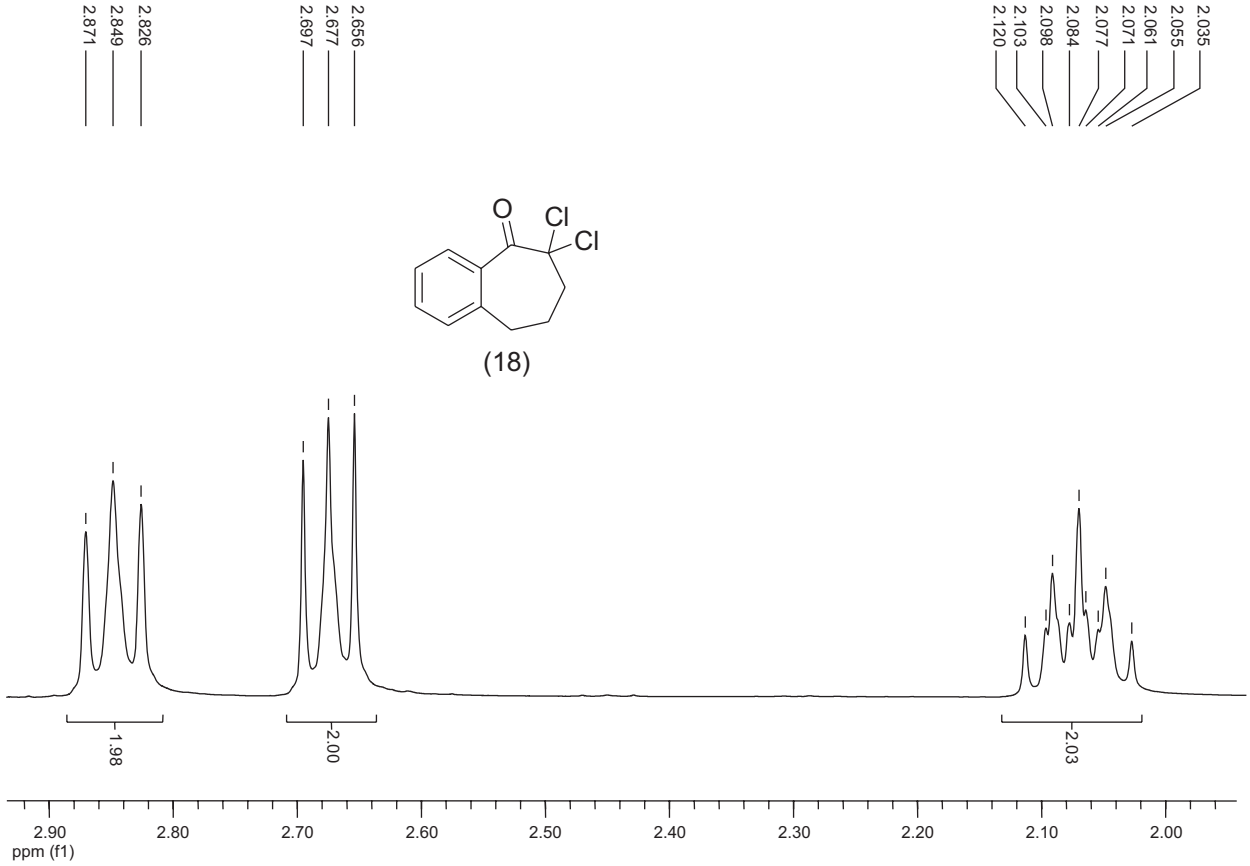

Figure S12. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **18**.

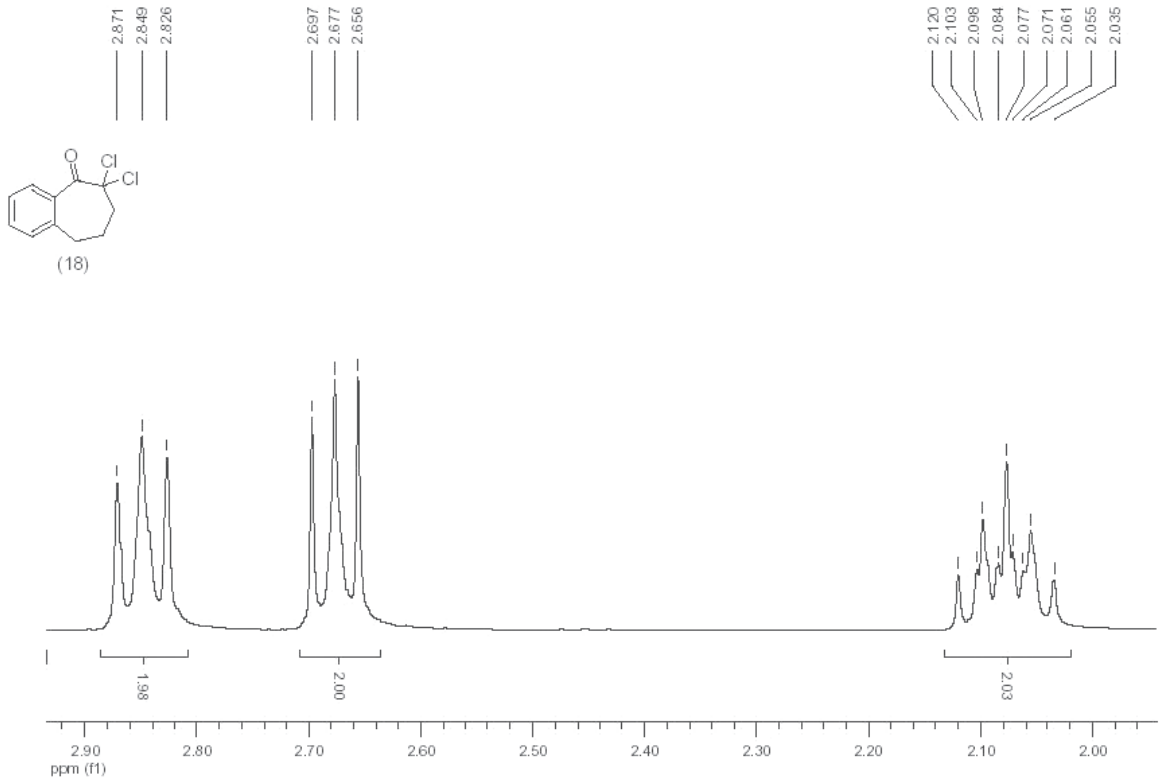

Figure S13. Detail of the ^{1}H NMR spectrum (200 MHz, $CDCl_3$) of compound **18**.

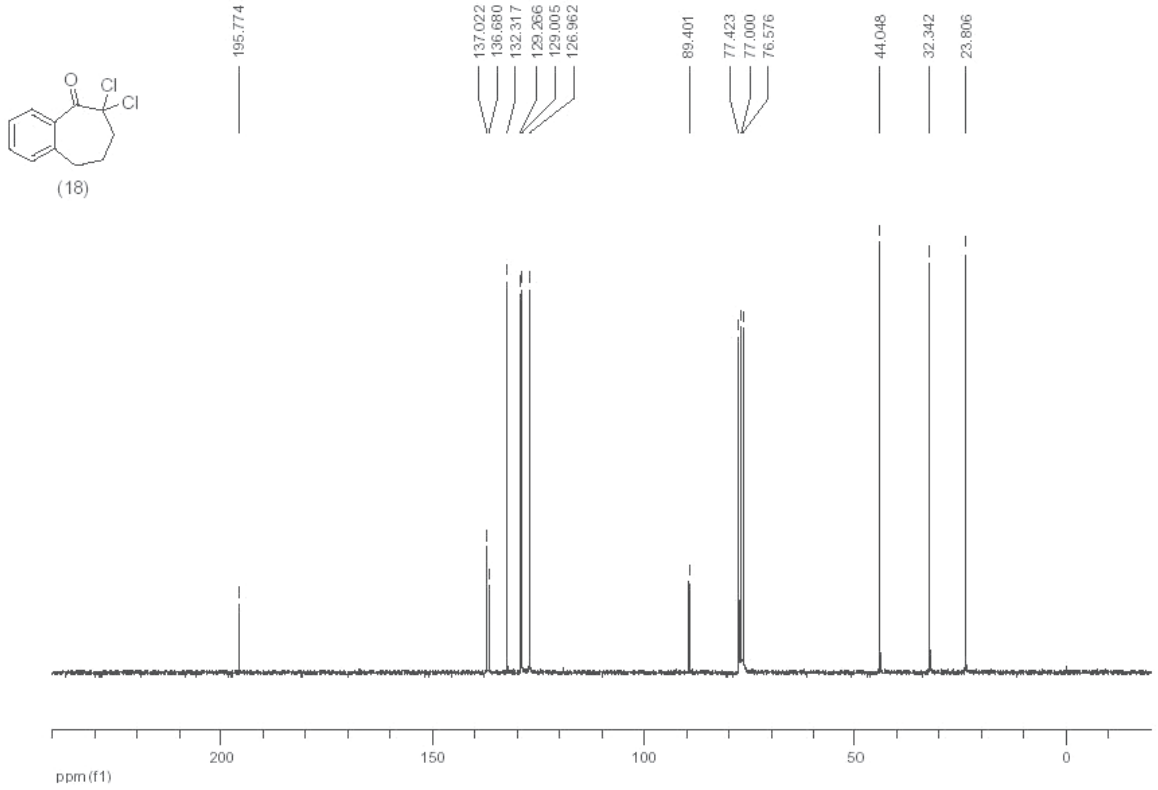

Figure S14. ^{13}C NMR spectrum (50 MHz, $CDCl_3$) of compound **18**.