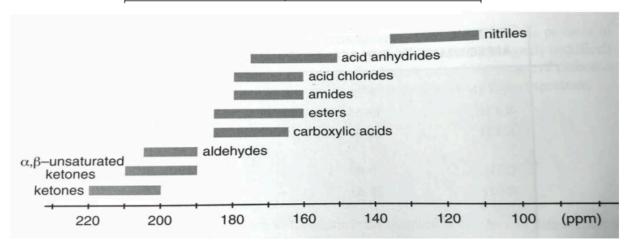
Appendix B $\label{eq:chemical shifts for 13C NMR}$ CHEMICAL SHIFTS FOR 13 C NMR

Singly bonded C < 100 ppm		Multiply bonded C Mostly > 100 ppm	
	ppm		ppm
— СН3	0-30	—c≡c—	65-150
CH ₂	10-50	c=c	80-145
\		—c≡n	110-135
— СН	25-60		110-170
	0-75	O	155-185
c-o	40-85	O C \	185-220



From: Pavia, D. L., Lampman, G. M., Kriz, G. S., & Vyvyan, J. A. (2008). Introduction to Spectroscopy. Cengage Learning. p. 180.