Representative ^{13}C Chemical Shifts

^{13}C NMR Chemical Shift Correlations	
Type of carbon	**Chemical Shift (δ) ppm**
1° alkyl, RCH_3	0-40
2° alkyl, RCH_2R	10-50
3° alkyl, $RCHR_2$	15-50
4° alkyl, R_4C	15-50
R_3CBr, R_3CCl, $R_3C\text{-}N\text{-}R_2$	10-65
$R_3\text{-}C\text{-}O\text{-}H$, $R_3\text{-}C\text{-}O\text{-}R$	50-90
RC≡CR	60-90
RC=CR	100-170
Aromatic	100-170
R-C≡N	120-130
Amide carbonyl (C=O)	150-180
Carboxylic acid carbonyl (C=O)	160-185
Aldehyde or ketone carbonyl (C=O)	182-215
Ester carbonyl (C=O)	160-185