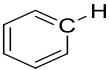


IR Spectroscopy Reference Table

Wavenumber range (cm ⁻¹)	Atom Group	Wavenumber range (cm ⁻¹)	Atom Group	Wavenumber range (cm ⁻¹)	Atom Group
3350-3250 (s)	$\text{C}\equiv\text{C}-\text{H}$	2250-2100 (m)	$\text{R}-\text{C}\equiv\text{C}-\text{H}$	1820-1760 (s)	C=O for $\text{R}-\text{C}(=\text{O})\text{Cl}$
3095-3000 (w)	$\text{C}=\text{C}^{\text{H}}$	2260-2210 (v)	$\text{R}-\text{C}\equiv\text{N}$	1800-1700 (s, br)	C=O for $\text{R}-\text{C}(=\text{O})\text{OH}$
3000-2800 (s)	$\text{C}-\text{C}^{\text{H}}$	2260-2100 (w)	$\text{R}-\text{C}\equiv\text{C}-\text{R}$	1750-1735 (s)	C=O for $\text{R}-\text{C}(=\text{O})\text{OR}$
3100-3000 (m)		1680-1640 (m)		1740-1720 (s)	C=O for $\text{R}-\text{C}(=\text{O})\text{H}$
2830-2695 (m)	$\text{O}=\text{C}^{\text{H}}$	1550-1475 (s) 1360-1290 (m)		1720-1708 (s)	C=O for $\text{R}-\text{C}(=\text{O})-\text{R}$
3640-3200 (s)	-OH (Alcohol)	1320-1000 (s)	$\text{C}-\text{O}-\text{C}$	1700-1630 (s)	C=O for $\text{R}-\text{C}(=\text{O})\text{NR}_2$
3400-3250 (s)	Amide, amine NH				
3300-2500 (br s)	-OH (Carboxylic Acid)				

Legend: s = strong, m = medium, w = weak, br = broad