

Infrared Spectroscopy

Molecular Vibrations

Stretch, bend, rock, wag, twist modes. Each unique to molecular structure.

IR Regions

4000-2500: O-H, N-H | 2000-1500: C=O, C=C | 1500-400: Fingerprint

ATR-FTIR

Attenuated Total Reflectance. No sample prep required.

Water Interference

Strong O-H absorption. Use D₂O or dry samples.