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Chemistry 2600

Chapter 14 Infrared Spectroscopy



Infra-red Spectroscopy - Good vibrations



IR spectrometers measure the amount of energy transmitted (transmittance) and the wavelength of light absorbed.







By convention, IR spectra plot transmittance against wavenumber, \overline{v} where





There are many different type of IR 'modes'. To appear in an IR spectrum, the mode must involve a dipole change.







The masses of the atoms. K is the force constant.

So, the position of an IR band depends on ...





Getting the most out of an IR in 30 seconds.















