

molecule.  
polarity

[CHM391] Units of IR wavelength are commonly given in  
microns

[CHM391] The finger print region of IR is used to establish the  
of a compound.  
identity

[CHM391] Which of the following are the two major types of fundamental vibrational  
transitions?  
stretching and bending

[CHM391] The energy absorbed by a rotating molecule appears as absorption peaks at  
the wavelength it corresponds to on the IR \_\_\_\_\_  
spectrum

[CHM391] Wavelength of molecular transition corresponds to an energy equal to the of  
the discrete energy levels involved in the transition.  
difference

[CHM391] Different \_\_\_\_\_ absorb characteristics frequencies of IR radiation.  
functional groups

[CHM391] When the frequency of the absorbed radiation matches the transition energy  
of the bonds or group that vibrates, it is said to be  
resonant

[CHM391] A basic IR spectrum is essentially a graph of infrared light absorbance on  
the vertical axis and \_\_\_\_\_ on the horizontal axis.  
wavelength

[CHM391] Infrared spectroscopy exploits the fact that molecules absorb specific  
frequencies that are characteristic of their \_\_\_\_\_  
structure

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