IR spectra of known organic compound

Student’s Name

Institution

Course code

Date

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Infrared radiation is regarded as the kind of radiant energy, which is not visible to the human eyes, but it can be felt as heat. It is the kind of electromagnetic radiation known as a continuum of frequency, which is produced when the absorption of the atom occurs. It is also regarded as the lowest and the highest to the lowest electromagnetic radiation. Therefore, the IR is meant to heat compound. Infrare4d radiation is used by infrared (IR) spectroscopy to electrify the molecules of a compound. It is also being utilized by infrared spectroscopy to generate infrared spectrum, which is used to absorb energy utilizing molecules as a function of the wavelength of lights. It is therefore, evident that IR is used to heat the bond or for the breakage of the bond.

The IR operates by heating at the compound or the bond which exists in the molecules in order to absorb the energy, which presents in infrared. The infrared then responds through vibration. The infrared radiation then acts by splitting the molecules or compounds into component of wavelengths. However, in the process then IR spectroscopy is applied to identify these molecules based on how each group functions. It is worth mentioning that in the process the compound bond is broken. Therefore, the main function of IR is to provide assistant in breaking down of the unknown compound. In brief, IR heats the atom or molecules with the energy in the form of electromagnetic radiation to initiate the absorption of energy split the compound into various components. It is also important to note that the absorption of energy occur at room temperature and pressure. And the two stakes must be equal for the absorption to occur as required.