



Spectroscopic Methods in Organic Chemistry

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McGraw-Hill Education, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface Chapter 1: Ultraviolet and visible spectra 1.1 Introduction 1.2 Chromophores 1.3 The absorption laws 1.4 Measurement of the spectrum 1.5 Vibrational fine structure 1.6 Choice of solvent 1.7 Selection rules and intensity 1.8 Solvent effects 1.9 Searching for a chromophore 1.10 Definitions 1.11 Conjugated dienes 1.12 Polyenes 1.13 Polyeneynes and poly-ynes 1.14 Ketones and aldehydes; * transitions 1.15 Ketones and aldehydes; n* transitions 1.16,-Unsaturated acids, esters, nitriles and amides 1.17 The benzene ring 1.18 Substituted benzene rings 1.19 Polycyclic aromatic hydrocarbons 1.20 Heteroaromatic compounds 1.21 Quinones 1.22 Corroles, chlorins and porphyrins 1.23 Non-conjugated interacting chromophores 1.24 The effect of steric hindrance to coplanarity 1.25 Internet 1.26 Bibliography Chapter 2: Infrared spectra 2.1 Introduction 2.2 Preparation of samples and examination in an infrared spectrometer 2.3 Examination in a Raman spectrometer 2.4 Selection rules 2.5 The infrared spectrum 2.6 The use of the tables of characteristic group frequencies 2.7 Absorption frequencies of single bonds to $hydrogen\ 3600\text{-}2000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ of\ triple\ and\ cumulated\ double\ bonds\ 2300-1000\ cm1\ 2.8\ Absorption\ frequencies\ frequencie$ 1930 cm1 2.9 Absorption frequencies of the double-bond region 1900-1500 cm1 2.10 Groups absorbing in the...



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