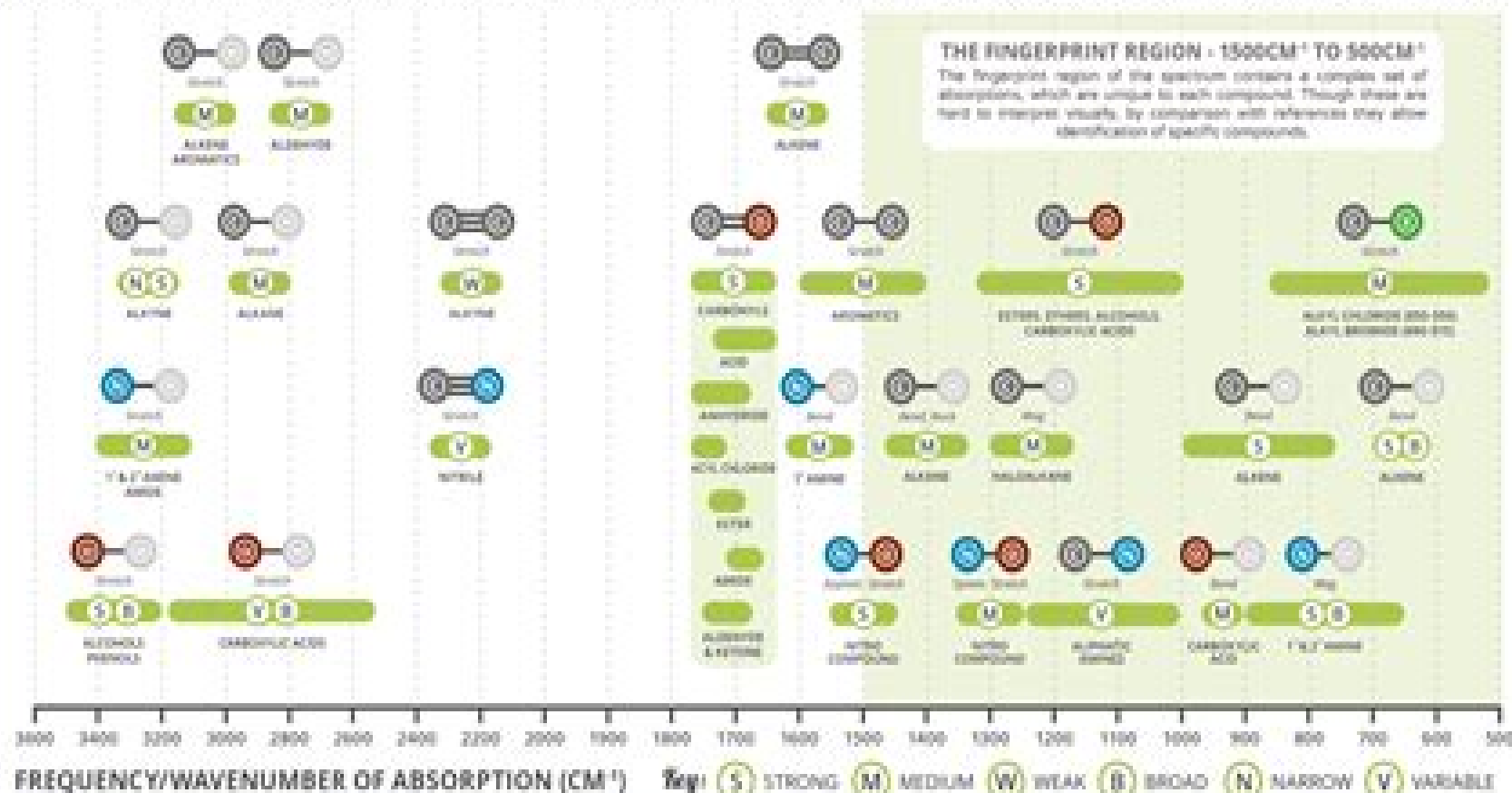


ANALYTICAL CHEMISTRY - INFRARED SPECTROSCOPY

Commonly referred to as IR spectroscopy, this technique allows chemists to identify characteristic groups of atoms (functional groups) present in molecules.



Infrared frequencies make up a portion of the electromagnetic spectrum. If a range of infrared frequencies are shone through an organic compound, some of the frequencies are absorbed by the chemical bonds within the compound. Different chemical bonds absorb different frequencies of infrared radiation. There are a number of characteristic absorptions which allow functional groups (the parts of a compound which give it its particular reactivity) to be identified. This graphic shows a number of these absorptions.



Ir Spectroscopy Guide

Jack Cazes



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Hargreaves,2012-01-03 This book will provide a survey of the major areas in which information derived from vibrational spectroscopy investigations and studies have contributed to the benefit of forensic science either in a complementary or a unique way This is highlighted by examples taken from real case studies and analyses of forensic relevance which provide a focus for current and future applications and developments *Ewing's Analytical Instrumentation Handbook, Fourth Edition*

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Handbook of Organic Compounds: Methods and Interpretations Jerry Workman, 2001 For students and vibrational spectroscopists working in molecular spectroscopy labs and dealing daily with spectral interpretation and data processing of organic spectra polymers and surfactants This three volume compendium contains detailed descriptions and reviews of ultraviolet visible near infrared Raman and dielectric measurement techniques as well as interpretive techniques and information on all spectra which are presented in terms of wavenumber and transmittance Ultraviolet visible 4th overtone NIR 3rd overtone NIR and NIR spectra are also presented in terms of nanometers and absorbance space and horizontal ATR spectra are presented in terms of wavenumber and absorbance space The spectra found here are useful for identification purposes as well as for instruction in the various interpretive and data processing techniques discussed Editor Workman is employed at Kimberly Clark Corporation c Book News Inc

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Vibrational Spectroscopy John M. Chalmers, Peter R. Griffiths, 2002 Handbook of Near-Infrared Analysis, Second Edition Donald A. Burns, Emil W. Ciurczak, 2001-06-28 With contributions from over 40 experts in the field this reference presents comprehensive single source coverage of the instrumentation computerization calibration and methods development of NIR spectroscopy It provides novel applications for accurate time and cost effective analyses of pharmaceuticals polymers textiles agricultural products dairy products foods and beverages Emphasizing trends in sample preparation the book covers historical development calibration transfer biomedical applications plastics and counterfeiting on line in line and at line analyses for process control multilinear regression and principal component analysis and more

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