

SPECTRAL & CHEMICAL CHARACTERIZATION OF ORGANIC COMPOUNDS

A LABORATORY HANDBOOK

W. J. Criddle and G. P. Ellis

THIRD EDITION

Spectral And Chemical Characterization Of Organic Compounds A Laboratory Handbook

Library of Congress



Spectral And Chemical Characterization Of Organic Compounds A Laboratory Handbook:

Spectral and Chemical Characterization of Organic Compounds W. J. Criddle, Gwynn Pennant Ellis, 1976 **Spectral and Chemical Characterization of Organic Compounds** W. J. Criddle, Gwynn P. Ellis, 1991-01-08 This book brings together information the student is likely to need in the laboratory for characterization of organic compounds their principal chemical reactions and their spectral properties For the third edition of this popular laboratory student text the authors have included the theoretical basis of the chemical tests which are described and have also expanded the sections on spectroscopy In particular the layout of the tables both chemical and spectroscopic has been improved The melting point tables have been revised in the light of current availability of organic compounds A basic knowledge of the theoretical principles of spectroscopy is assumed Systematic names are used throughout though where the older trivial names are still in common use these are given in addition The book also includes a section on the characterization of pharmaceutical compounds for students of pharmacy Contents Preface to First Edition Preface to Second Edition Preface to Third Edition Safety in the Laboratory Preliminary Tests Chemical and Spectroscopic Characterization of Functional Groups Chromatographic Methods The Separation of Organic Mixtures Preparation of Derivatives Tables of Organic Compounds and their Derivatives Pharmaceutical Compounds Index Spectral and Chemical Characterization of Organic Compounds a Laboratory Handbook Criddle, 1982-02-24 Handbook of Fourier Transform Raman and Infrared Spectra of Polymers A.H. Kuptsov, G.N. Zhizhin, 1998-10-29 A collection of infrared and Raman spectra of 500 natural and synthetic polymers of industrial importance is presented in this book A large variety of compounds are included starting with linear polyolefins and finishing with complex biopolymers and related compounds The spectra were registered using Infrared Fourier Transform Spectrometers in the laboratory of the All Russia Institute of Forensic Sciences The IR and Raman spectra are presented together on the same sheet The accompanying data include general and structure formulae CAS register numbers and sample preparation conditions Features of this book Continues the long tradition of publishing specific and standard data of new chemical compounds For low molecular weight substances complementary IR and Raman spectra are featured on the same sample and printed on the same page This fingerprint data allows the substance of the sample to be identified without doubt An important feature of this unique collection of data is the increase in the identification precision of unknown substances Peak tables are available in digital ASCII format on a diskette delivered with the book This allows the user to search for unknowns All the spectra in the collection are base line corrected This book will be of interest to scientists involved in the synthesis of new polymeric materials polymer identification and quality control Libraries of scientific institutes research centers and universities involved in vibrational spectroscopy will also find this collection invaluable

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