

Textbook Of Practical Organic Chemistry

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one of the very best things about organic chemistry is actually doing experimental work at the bench this applies not only at the professional level but also from the earliest stages of apprenticeship to the craft as a student the fascination stems from the nature of the subject itself with its vast array of different types of reaction and its al

most infinite variety of different chemical compounds each reaction and each new compound pose their own particular problems to challenge the skill and ingenuity of the chemist whether working in a first year teaching laboratory or at the frontiers of research this book is intended to provide basic guidance in the essential experimental techniques used in a typical undergraduate course it gives concise coverage of the range of practical skills required from first year level when students may have no previous experience up to final year level when students are usually involved in more complex and demanding experimental work in supervised research projects our objective was to produce a handbook of techniques that could be used with a variety of practical courses throughout a student's whole period of study those who run practical courses generally have strong feelings about what particular experiments or exercises are appropriate for their own students and it is rare that a book of experiments suitable for one department is acceptable to another

1 organic synthesis 1 2 experimental techniques 26 3 spectroscopic methods and the interpretation of spectra 254 4 solvents and reagents 395 5 aliphatic compounds 470 6 aromatic compounds 824 7 selected alicyclic compounds 1087 8 selected heterocyclic compounds 1127 9 investigation and characterisation of organic compounds 1196 10 physical constants of organic compounds 1298

success in an experimental science such as chemistry depends on good laboratory practice a knowledge of basic techniques and the intelligent and careful handling of chemicals practical organic synthesis is a concise useful guide to good laboratory practice in the organic chemistry lab with hints and tips on successful organic synthesis topics covered include safety in the laboratory environmentally responsible handling of chemicals and solvents crystallisation distillation chromatographic methods extraction and work up structure determination by spectroscopic methods searching the chemical literature laboratory notebooks writing a report hints on the synthesis of organic compounds disposal and destruction of dangerous materials drying and purifying solvents practical organic synthesis is based on a successful course in basic organic chemistry laboratory practice which has run for several years at the ETH Zurich and the University of Berne and its course book *Grundoperationen* now in its sixth edition condensing over 30 years of the authors organic laboratory teaching experience into one easy to read volume practical organic synthesis is an essential guide for those new to the organic chemistry laboratory and a handy benchtop guide for practising organic chemists

excerpt from practical organic chemistry the present volume is an enlarged edition of that published in 1887 and has been completely rewritten the preparations have all been carefully revised some of the former ones omitted and many new ones introduced the chief additions are the introductory chapters on organic analysis and molecular weight determinations and an extension of the appendix the book does not aim at being a complete laboratory guide but is intended to provide a systematic course of practical instruction illustrating a great variety of reactions and processes with a very moderate outlay in materials and apparatus the objection may be raised that the detailed description of

processes makes no demand upon a student's resourcefulness or ingenuity it must be remembered however that the manipulative part of organic chemistry is so unfamiliar to the elementary student that he requires minute directions in order to avoid waste of time and material until he has acquired considerable practical skill he cannot accomplish the experimental work requisite for research and repeated failures will be apt to destroy his confidence in himself to satisfy to a legitimate extent the prejudices of certain examining bodies who still adhere to the old system of testing a student's knowledge of practical organic chemistry by means of the qualitative analysis of certain meaningless mixtures the special tests for some of the more common organic substances have been inserted about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

theory of general technique experimental technique preparation and reactions of aliphatic compounds preparation and reactions of aromatic compounds some heterocyclic and alicyclic compounds miscellaneous reactions organic reagents in inorganic and organic chemistry dyestuffs indicators and related compounds some physiologically active compounds synthetic polymers qualitative organic analysis semimicro technique

the first edition of this book achieved considerable success due to its ease of use and practical approach and to the clear writing style of the authors the preparation of organic compounds is still central to many disciplines from the most applied to the highly academic and more than ever is not limited to chemists with an emphasis on the most up to date techniques commonly used in organic syntheses this book draws on the extensive experience of the authors and their association with some of the world's leading laboratories of synthetic organic chemistry in this new edition all the figures have been redrawn to bring them up to the highest possible standard and the text has been revised to bring it up to date written primarily for postgraduate advanced undergraduate and industrial organic chemists particularly those involved in pharmaceutical agrochemical and other areas of fine chemical research the book is also a source of reference for biochemists biologists genetic engineers material scientists and polymer researchers

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