

TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY

COMPREHENSIVE PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC SYNTHESIS PRACTICAL ORGANIC CHEMISTRY: THE DETECTION AND PROPERTIES OF SOME OF THE MORE IMPORTANT ORGANIC COMPOUNDS PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY WORKBOOK PRACTICAL ORGANIC CHEMISTRY FOR ADVANCED STUDENTS PRACTICAL ORGANIC CHEMISTRY VOGEL'S TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY ADVANCED PRACTICAL ORGANIC CHEMISTRY, SECOND EDITION PRACTICAL ORGANIC CHEMISTRY. (FOURTH EDITION.) PRACTICAL ORGANIC CHEMISTRY AN ELEMENTARY COURSE OF PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY ADVANCED PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY FOR ADVANCED STUDENTS PRACTICAL ORGANIC CHEMISTRY V. K. AHLUWALIA REINHART KEESE SAMUEL RIDEAL FREDERICK GEORGE MANN J. J. SUDBOROUGH J. T. SHARP DEVANSHI MAGOO JULIUS BEREND COHEN JOHN JOSEPH SUDBOROUGH ARTHUR ISRAEL VOGEL JOHN LEONARD FREDERICK GEORGE MANN (AND SAUNDERS (BERNARD CHARLES)) MANN FREDERIC CHARLES GARRETT JOHN JOSEPH SUDBOROUGH JULIUS BEREND COHEN JULIUS B. COHEN JOHN LEONARD JULIUS BEREND COHEN JULIUS BEREND COHEN COMPREHENSIVE PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC SYNTHESIS PRACTICAL ORGANIC CHEMISTRY: THE DETECTION AND PROPERTIES OF SOME OF THE MORE IMPORTANT ORGANIC COMPOUNDS PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY WORKBOOK PRACTICAL ORGANIC CHEMISTRY FOR ADVANCED STUDENTS PRACTICAL ORGANIC CHEMISTRY VOGEL'S TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY ADVANCED PRACTICAL ORGANIC CHEMISTRY, SECOND EDITION PRACTICAL ORGANIC CHEMISTRY. (FOURTH EDITION.) PRACTICAL ORGANIC CHEMISTRY AN ELEMENTARY COURSE OF PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY ADVANCED PRACTICAL ORGANIC CHEMISTRY PRACTICAL ORGANIC CHEMISTRY FOR ADVANCED STUDENTS PRACTICAL ORGANIC CHEMISTRY V. K. AHLUWALIA REINHART KEESE SAMUEL RIDEAL FREDERICK GEORGE MANN J. J. SUDBOROUGH J. T. SHARP DEVANSHI MAGOO JULIUS BEREND COHEN JOHN JOSEPH SUDBOROUGH ARTHUR ISRAEL VOGEL JOHN LEONARD FREDERICK GEORGE MANN (AND SAUNDERS (BERNARD CHARLES)) MANN FREDERIC CHARLES GARRETT JOHN JOSEPH SUDBOROUGH JULIUS BEREND COHEN JULIUS B. COHEN JOHN LEONARD JULIUS BEREND COHEN JULIUS BEREND COHEN

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

ONE OF THE VERY BEST THINGS ABOUT ORGANIC CHEMISTRY IS ACTUALLY DOING EXPERIMENTAL WORK AT THE BENEH THIS APPLIES NOT ONLY AT THE PROFES SIONALLEVEL BUT ALSO FROM THE EARLIEST STAGES OF APPRENTICESHIP TO THE CRAFT AS A STUDENT THE FASCINATION STERNS FROM THE NATURE OF THE SUB JECT 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 CHAL LENGE THE SKILL AND INGENUITY OF THE CHEMIST WHETHER WORKING IN A FIRST YEAR TEACHING LA BORA TORY 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 DEM AN DING EXPERIMENTAL WORKIN 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

THIS BOOK IS A UNIQUE LABORATORY WORKBOOK WHICH IS INTENDED FOR THE USE OF UNDERGRADUATE STUDENTS OF VARIOUS UNIVERSITIES PURSUING CHEMISTRY AS THE MAJOR SUBJECT AND HAS BEEN ESPECIALLY TUNED AS PER THE LATEST NEP UGCF SYLLABUS IT IS ALSO HELPFUL TO STUDENTS PURSUING BIOCHEMISTRY AND PHARMACY AT COLLEGE OR UNIVERSITY LEVELS FURTHER THIS WORKBOOK PROVIDES BASIC GUIDANCE IN THE ESSENTIAL EXPERIMENTAL TECHNIQUES THAT AN UNDERGRADUATE STUDENT MUST MASTER TO HONE THE SKILLS REQUIRED FOR TRAINING IN CHEMICAL SCIENCES TO THE BEST OF OUR KNOWLEDGE THIS IS THE FIRST TIME THAT A WORKBOOK FOR NEP UGCF SYLLABUS IS BEING PROPOSED FOR HELPING STUDENTS ACQUIRE PRIOR DEEP KNOWLEDGE PERTAINING TO A PARTICULAR EXERCISE OBJECTIVE AND ENTHUSE THEM BY STIMULATING THEIR SCIENTIFIC THINKING THROUGH VARIOUS PRE AND POST LAB QUESTIONS FORMULATED THE CURRENT PEDAGOGY DEMANDS A REFORMATION IN THE CONDUCT OF THE PRACTICALS UNDER THE NEW SYLLABI SCHEME THEREFORE IT IS ANTICIPATED THAT THIS MANUAL WOULD BE BENEFICIAL FOR THE STUDENTS AS WELL AS TEACHERS IN RENDERING THE BEST BESIDES THE BOOK ENCOMPASSES THE FUNDAMENTALS OF ALL THE TECHNIQUES THAT WOULD EQUIP THE PRACTITIONERS WITH SPECIFIC SKILLS ESPECIALLY ON VARIOUS PURIFICATION TECHNIQUES SUCH AS RECRYSTALLIZATION AND CHROMATOGRAPHY WITHOUT WHICH ONE CANNOT THINK ABOUT PROCEEDING WITH ANY SYNTHESIS IN ANY OF THE CHEMICAL PHARMACEUTICAL TEXTILE INDUSTRIES OIL AND PETROLEUM INDUSTRIES AND MORE

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

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 SYNTHESIS 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

THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT THIS WORK WAS REPRODUCED FROM THE ORIGINAL ARTIFACT AND REMAINS AS TRUE TO THE ORIGINAL WORK AS POSSIBLE THEREFORE YOU WILL SEE THE ORIGINAL COPYRIGHT REFERENCES LIBRARY STAMPS AS MOST OF THESE WORKS HAVE BEEN HOUSED IN OUR MOST IMPORTANT LIBRARIES AROUND THE WORLD AND OTHER NOTATIONS IN THE WORK THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA AND POSSIBLY OTHER NATIONS WITHIN THE UNITED STATES YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK AS NO ENTITY INDIVIDUAL OR CORPORATE HAS A COPYRIGHT ON THE BODY OF THE WORK AS A REPRODUCTION OF A HISTORICAL ARTIFACT THIS WORK MAY CONTAIN MISSING OR BLURRED PAGES POOR PICTURES ERRANT MARKS ETC SCHOLARS BELIEVE AND WE CONCUR THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED REPRODUCED AND MADE GENERALLY AVAILABLE TO THE PUBLIC WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT

ANY RESEARCH THAT USES NEW ORGANIC CHEMICALS OR ONES THAT ARE NOT COMMERCIALY AVAILABLE WILL AT SOME TIME REQUIRE THE SYNTHESIS OF SUCH COMPOUNDS THEREFORE ORGANIC SYNTHESIS IS IMPORTANT IN MANY AREAS OF BOTH APPLIED AND ACADEMIC RESEARCH FROM CHEMISTRY TO BIOLOGY BIOCHEMISTRY AND MATERIALS SCIENCE THE THIRD EDITION OF A BESTSELLER ADVANC

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 STUDENTS 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 STUDENTS 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

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OF PRACTICAL ORGANIC CHEMISTRY, YOU ARE RIGHT TO FIND OUR WEBSITE WHICH HAS A COMPREHENSIVE COLLECTION OF BOOKS ONLINE. OUR LIBRARY IS THE BIGGEST OF THESE THAT HAVE LITERALLY HUNDREDS OF THOUSANDS OF DIFFERENT PRODUCTS REPRESENTED. YOU WILL ALSO SEE THAT THERE ARE SPECIFIC SITES CATERED TO DIFFERENT CATEGORIES OR NICHEs RELATED WITH TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY SO DEPENDING ON WHAT EXACTLY YOU ARE SEARCHING, YOU WILL BE ABLE TO CHOOSE EBOOK TO SUIT YOUR OWN NEED.

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12. RATHER THAN READING A GOOD BOOK WITH A CUP OF COFFEE IN THE AFTERNOON, INSTEAD THEY JUGGLED WITH SOME HARMFUL BUGS INSIDE THEIR LAPTOP.
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INTERFACE, AND THE OVERALL READING EXPERIENCE IT PLEDGES.

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AN AESTHETICALLY PLEASING AND USER-FRIENDLY INTERFACE SERVES AS THE CANVAS UPON WHICH TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY DEPICTS ITS LITERARY MASTERPIECE. THE WEBSITE'S DESIGN IS A DEMONSTRATION OF THE THOUGHTFUL CURATION OF CONTENT, PROVIDING AN EXPERIENCE THAT IS BOTH VISUALLY ATTRACTIVE AND FUNCTIONALLY INTUITIVE. THE BURSTS OF COLOR AND IMAGES BLEND WITH THE INTRICACY OF LITERARY CHOICES, FORMING A SEAMLESS JOURNEY FOR EVERY VISITOR.

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