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Organic synthesis practical techniques

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It seems as though most chemistry books are somewhat theoretical and abstract in nature, but "Advanced Practical Organic Chemistry" provides the reader with easy to read (based on the assumption of at least a basic background in organic chemistry) tutorial and reference for many day-to-day procedures that are encountered in the lab.

Advanced Practical Organic Chemistry, Second Edition ...

Advanced Practical Organic Chemistry, 2nd Edition By J. Leonard, B. Lygo, and G. Procter (University of Salford). Blackie Academic and Professional, London. 1995. xii + 298 pp. 16 x 23.5 cm. \$34.95. ISBN 0-7514-0200-1.

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Advanced Practical Organic Chemistry, Second Edition. John Leonard, Barry Lygo, Garry Procter. CRC Press, Jun 2, 1994 - Science - 320 pages. 1 Review. The first edition of this book achieved...

Advanced Practical Organic Chemistry, Second Edition ...

For example, a water molecule is composed of two atoms of hydrogen and one atom of oxygen. We write its formula as H_2O . A molecule of sulphuric acid contains two atoms of hydrogen, one atom of sulphur and four atoms of oxygen. Its formula is H_2SO_4 .

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Any research that uses new organic chemicals, or ones that are not commercially 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, Advanced Practical Organic Chemistry is a guide that explains the basic techniques of organic chemistry, presenting the necessary information for readers to carry out widely used modern organic synthesis reactions. This book is written for advanced undergraduate and graduate students as well as industrial organic chemists, particularly those involved in pharmaceutical, agrochemical, and other areas of fine chemical research. It provides the novice or nonspecialist with the often difficult-to-find information on reagent properties needed to perform general techniques. With over 80 years combined experience training and developing organic research chemists in industry and academia, the authors offer sufficient guidance for researchers to perform reactions under conditions that give the highest chance of success, including the appropriate precautions to take and proper experimental protocols. The text also covers the following topics: Record keeping and equipment Solvent purification and reagent preparation Using gases and working with vacuum pumps Purification, including crystallization and distillation Small-scale and large-scale reactions Characterization, including NMR spectra, melting point and boiling point, and microanalysis Efficient ways to find information in the chemical literature With fully updated text and all newly drawn figures, the third edition provides a powerful tool for building the knowledge on the most up-to-date techniques commonly used in organic synthesis.

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.

Any research that uses new organic chemicals, or ones that are not commercially 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, Advanced Practical Organic Chemistry is a guide that explains the basic techniques of organic chemistry, presenting the necessary information for readers to carry out widely used modern organic synthesis reactions. This book is written for advanced undergraduate and graduate students as well as industrial organic chemists, particularly those involved in pharmaceutical, agrochemical, and other areas of fine chemical research. It provides the novice or nonspecialist with the often difficult-to-find information on reagent properties needed to perform general techniques. With over 80 years combined experience training and developing organic research chemists in industry and academia, the authors offer sufficient guidance for researchers to perform reactions under conditions that give the highest chance of success, including the appropriate precautions to take and proper experimental protocols. The text also covers the following topics: Record keeping and equipment Solvent purification and reagent preparation Using gases and working with vacuum pumps Purification, including crystallization and distillation Small-scale and large-scale reactions Characterization, including NMR spectra, melting point and boiling point, and microanalysis Efficient ways to find information in the chemical literature With fully updated text and all newly drawn figures, the third edition provides a powerful tool for building the knowledge on the most up-to-date techniques commonly used in organic synthesis.

While the boundaries between the areas of chemistry traditionally labeled as inorganic, organic and physical are gradually diffusing, the practical techniques adopted by workers in each of these areas are often radically different. The breadth and variety of research classed as "inorganic chemistry" is readily apparent from an inspection of some of the leading international journals, and can be quite daunting for newcomers to this domain who are likely to

have only limited experience of the methodologies involved. This book has therefore been written to provide guidance for those unfamiliar with the techniques most often encountered in synthetic inorganic / metalorganic chemistry, with an emphasis on procedures for handling air-sensitive compounds. One chapter is devoted to more specialized techniques such as metal vapor synthesis, and a review of preparative methods for a selection of starting materials is included as an aid to those planning research projects. While this book is aimed primarily at postgraduate and advanced undergraduate students involved in inorganic research projects, synthetic organic chemists and industrial chemists will also find much useful information within its pages. Similarly, it serves as a useful reference source for materials and polymer scientists who wish to take advantage of recent progress in precursor synthesis and catalyst development.

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