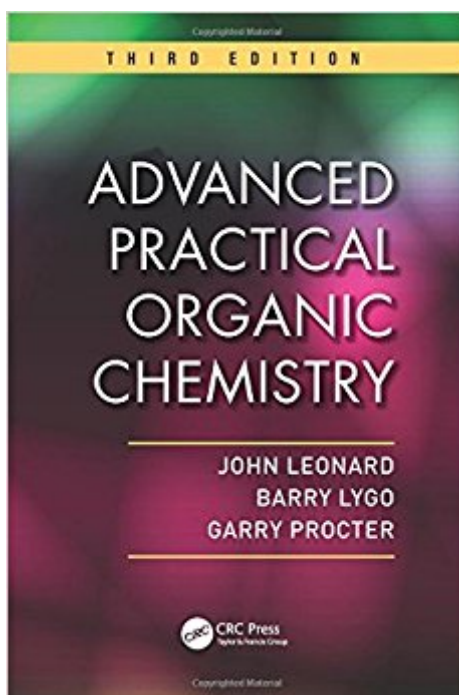


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Advanced Practical Organic Chemistry, Third Edition



Synopsis

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.

Book Information

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Customer Reviews

Praise for Previous Editions "â |concise and highly readable â | I would recommend this book as an essential purchase for all new research students in the area of organic synthesis"â •Synthesis, June 1995"This book should be present in every organic chemistry research laboratoryâ |a bargain at the price."â •Chemistry & Industry, July 1995"Reading this book is like having a thoughtful and smart tutor guiding all your steps in the laboratoryâ |excellent choice.."â •Physical Sciences Educational Reviews

John Leonard is currently a principal scientist at AstraZeneca Pharmaceuticals, where he is primarily involved with synthetic route design and development activities. Prior to this he was a professor of organic chemistry at the University of Salford, UK. Garry Procter is a professor and director of teaching in the School of Chemistry at the University of Manchester, UK. Before this he was director of undergraduate laboratories in the Department of Chemistry and Chemical Biology at Harvard University. Barry Lygo is currently a professor of chemistry at the University of Nottingham, UK, working in the field of asymmetric catalysis and synthesis.

An excellent handbook for organic lab techniques. Provides short background and significance of each method, and provides hints and tips for proper execution of techniques. For instance, how large should a thin-layer-chromatography plate be? How much silica should be used to pack a column for purifying a reaction of a given complexity and a given scale? This has been a convenient reference for me while working as a synthetic chemist (in training).

Used this book a lot. A lot of great tips to get started, but only practice makes it perfect.

I think it could be better but I do consult this book from time to time.

This book is a great book to learn about doing synthetic organic chemistry in the laboratory. It touches every area where a synthetic organic chemist may have problem. It's a good book in every respect. As with all books there is room for improvement. Some aspects need to be more detailed and specific. This will make the book to be the best in market.

Must-own for all organic chemists. I would recommend that aspiring organic chemists get this during undergrad (or that it should be required text for organic labs!). I just wish the text would have more pictures.

This book is full of great information in a compact easy to read fashion. This has been very helpful to my studies.

Every chemistry student should have it! + + + + + + + + + + + +

This is a great book. As a graduate student studying medicinal chemistry, I have run into many situations in the lab that undergrad just did not prepare me for. This book is really helping to bring me up to speed with my techniques. 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. It was easy enough to read cover to cover in just a couple days, but is also so full of info. that I continue to look back and reference it almost daily. While there are several well-drawn illustrations, if I could want anything more out of this book, it would perhaps be a few more illustrations to go along with the assembly of some of the apparatuses.

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