

Experimental Organic Chemistry: Laboratory Manual

By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García

Download Read Online

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García

Experimental Organic Chemistry: Laboratory Manual is designed as a primer to initiate students in Organic Chemistry laboratory work. Organic Chemistry is an eminently experimental science that is based on a well-established theoretical framework where the basic aspects are well established but at the same time are under constant development. Therefore, it is essential for future professionals to develop a strong background in the laboratory as soon as possible, forming good habits from the outset and developing the necessary skills to address the challenges of the experimental work.

This book is divided into three parts. In the first, safety issues in laboratories are addressed, offering tips for keeping laboratory notebooks. In the second, the material, the main basic laboratory procedures, preparation of samples for different spectroscopic techniques, Microscale, Green Chemistry, and qualitative organic analysis are described. The third part consists of a collection of 84 experiments, divided into 5 modules and arranged according to complexity. The last two chapters are devoted to the practices at Microscale Synthesis and Green Chemistry, seeking alternatives to traditional Organic Chemistry.

- Organizes lab course coverage in a logical and useful way
- Features a valuable chapter on Green Chemistry Experiments
- Includes 84 experiments arranged according to increasing complexity

Download Experimental Organic Chemistry: Laboratory Manual ...pdf

Read Online Experimental Organic Chemistry: Laboratory Manua ...pdf

Experimental Organic Chemistry: Laboratory Manual

By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García

Experimental Organic Chemistry: Laboratory Manual is designed as a primer to initiate students in Organic Chemistry laboratory work. Organic Chemistry is an eminently experimental science that is based on a well-established theoretical framework where the basic aspects are well established but at the same time are under constant development. Therefore, it is essential for future professionals to develop a strong background in the laboratory as soon as possible, forming good habits from the outset and developing the necessary skills to address the challenges of the experimental work.

This book is divided into three parts. In the first, safety issues in laboratories are addressed, offering tips for keeping laboratory notebooks. In the second, the material, the main basic laboratory procedures, preparation of samples for different spectroscopic techniques, Microscale, Green Chemistry, and qualitative organic analysis are described. The third part consists of a collection of 84 experiments, divided into 5 modules and arranged according to complexity. The last two chapters are devoted to the practices at Microscale Synthesis and Green Chemistry, seeking alternatives to traditional Organic Chemistry.

- Organizes lab course coverage in a logical and useful way
- Features a valuable chapter on Green Chemistry Experiments
- Includes 84 experiments arranged according to increasing complexity

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García Bibliography

- Sales Rank: #1885764 in Books
- Published on: 2015-11-03
- Released on: 2015-10-20
- Original language: English
- Number of items: 1
- Dimensions: 10.87" h x 1.13" w x 8.50" l, .0 pounds
- Binding: Paperback
- 500 pages

Download Experimental Organic Chemistry: Laboratory Manual ...pdf

Read Online Experimental Organic Chemistry: Laboratory Manua ...pdf

Download and Read Free Online Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García

Editorial Review

From the Back Cover

Experimental Organic Chemistry: Laboratory Manual introduces students to organic chemistry laboratory work. Organic chemistry is an eminently experimental science based on a recognized theoretical framework in which the basic aspects are well established but also under constant development. Therefore, it is essential for future professionals to develop a strong background in the organic chemistry laboratory, acquiring good habits from the outset and developing the necessary skills to address the challenges of such experimental work.

The book covers topics including safety issues in laboratories; tips for keeping laboratory notebooks; basic laboratory equipment, material, and procedures; key physical and spectroscopic properties to characterize organic compounds and sample preparation; qualitative organic analysis for the main functional groups; setups for training students on basic operations; basic and advanced organic chemistry experiments; operations of a laboratory performed with Microscale equipment; a collection of experiments with Microscale techniques; and Green Chemistry principles and experiments. Microscale and Green Chemistry experiments are introduced as alternatives to traditional organic chemistry to provide more sustainable and less hazardous procedures in an undergraduate organic chemistry laboratory.

Key features

- Organizes lab course coverage in a logical and useful way
- Features a valuable chapter on Green Chemistry experiments
- Includes 100 experiments arranged according to increasing complexity

Cover photo courtesy of Dr. Angel Sánchez González

About the Author
Joaquín García Isac is an Associate Professor in the Department of Organic Chemistry at the University of Granada.

José Antonio Jimenez Dobado received his PhD in Chemistry at the University of Granada in 1994. From 1995 to 1997, he was a postdoctoral fellow at Zurich University and Helsinki University. He joined the Department of Organic Chemistry at the University of Granada as a postdoctoral researcher from 1997 to 1998, Associate Professor from 1998 to 2002, and Profesor since 2003. In that period, he spent also several months at McMaster University and Helsinki University. His area of research is in computational Chemistry, and he directs the Molecular Modelling and Design research group financed (FQM-174) by the Andalusian Government.

Francisco García Calvo-Flores is a Professor of Organic Chemistry at the University of Granada.

Henar Martínez García is in the Department of Organic Chemistry in the School of Industrial Engineering at the University of Valladolid.

Users Review

From reader reviews:

Richard Martinez:

The book Experimental Organic Chemistry: Laboratory Manual give you a sense of feeling enjoy for your spare time. You can use to make your capable considerably more increase. Book can to become your best friend when you getting stress or having big problem along with your subject. If you can make reading a book Experimental Organic Chemistry: Laboratory Manual to get your habit, you can get a lot more advantages, like add your personal capable, increase your knowledge about many or all subjects. You could know everything if you like open up and read a publication Experimental Organic Chemistry: Laboratory Manual. Kinds of book are several. It means that, science e-book or encyclopedia or some others. So , how do you think about this e-book?

Jane Moore:

Spent a free the perfect time to be fun activity to try and do! A lot of people spent their spare time with their family, or all their friends. Usually they undertaking activity like watching television, going to beach, or picnic inside the park. They actually doing ditto every week. Do you feel it? Do you need to something different to fill your own free time/ holiday? Can be reading a book is usually option to fill your no cost time/ holiday. The first thing that you ask may be what kinds of guide that you should read. If you want to test look for book, may be the publication untitled Experimental Organic Chemistry: Laboratory Manual can be fine book to read. May be it might be best activity to you.

Latonya Sams:

A lot of people always spent their very own free time to vacation or maybe go to the outside with them family or their friend. Do you know? Many a lot of people spent they free time just watching TV, as well as playing video games all day long. If you need to try to find a new activity that's look different you can read any book. It is really fun in your case. If you enjoy the book you read you can spent 24 hours a day to reading a e-book. The book Experimental Organic Chemistry: Laboratory Manual it is very good to read. There are a lot of individuals who recommended this book. These were enjoying reading this book. If you did not have enough space to bring this book you can buy the e-book. You can m0ore effortlessly to read this book through your smart phone. The price is not to cover but this book offers high quality.

Margo Soares:

Do you have something that you prefer such as book? The publication lovers usually prefer to opt for book like comic, brief story and the biggest you are novel. Now, why not attempting Experimental Organic Chemistry: Laboratory Manual that give your satisfaction preference will be satisfied by means of reading this book. Reading behavior all over the world can be said as the way for people to know world a great deal better then how they react toward the world. It can't be claimed constantly that reading addiction only for the geeky individual but for all of you who wants to be success person. So , for all you who want to start looking at as your good habit, you can pick Experimental Organic Chemistry: Laboratory Manual become your

starter.

Download and Read Online Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García #2BMCXKZ5GW8

Read Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García for online ebook

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García books to read online.

Online Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García ebook PDF download

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García Doc

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García Mobipocket

Experimental Organic Chemistry: Laboratory Manual By Joaquín Isac-García, José A. Dobado, Francisco G. Calvo-Flores, Henar Martínez-García EPub