



Organic Reaction Mechanisms: 40 Solved Cases

By Mar Gómez Gallego, Miguel A. Sierra

Download now

Read Online 

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra

Organic Reaction Mechanisms shows readers how to interpret the experimental data obtained from an organic reaction, and specifically how an organic reaction mechanism can be considered or rejected based on the analysis of the experimental evidence. Whilst examining a series of selected examples of mechanisms, the text focuses on real cases and discusses them in detail. The examples are arranged to elucidate key aspects of organic reaction mechanisms. The authors employ all the types of information that the authors of the original work considered useful and necessary, including spectroscopic data, kinetic and thermodynamic data, isotopic labelling and organic reactivity. The book makes an excellent primer for advanced undergraduates in chemistry who are preparing for exams and is also useful for graduate students and instructors.

 [Download Organic Reaction Mechanisms: 40 Solved Cases ...pdf](#)

 [Read Online Organic Reaction Mechanisms: 40 Solved Cases ...pdf](#)

Organic Reaction Mechanisms: 40 Solved Cases

By Mar Gómez Gallego, Miguel A. Sierra

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra

Organic Reaction Mechanisms shows readers how to interpret the experimental data obtained from an organic reaction, and specifically how an organic reaction mechanism can be considered or rejected based on the analysis of the experimental evidence. Whilst examining a series of selected examples of mechanisms, the text focuses on real cases and discusses them in detail. The examples are arranged to elucidate key aspects of organic reaction mechanisms. The authors employ all the types of information that the authors of the original work considered useful and necessary, including spectroscopic data, kinetic and thermodynamic data, isotopic labelling and organic reactivity. The book makes an excellent primer for advanced undergraduates in chemistry who are preparing for exams and is also useful for graduate students and instructors.

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra

Bibliography

- Sales Rank: #11638624 in Books
- Published on: 2014-09-12
- Released on: 2014-09-12
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .72" w x 6.10" l, .94 pounds
- Binding: Paperback
- 290 pages



[Download Organic Reaction Mechanisms: 40 Solved Cases ...pdf](#)



[Read Online Organic Reaction Mechanisms: 40 Solved Cases ...pdf](#)

Editorial Review

Review

From the reviews:

"The authors of this book utilise recently published research work to illustrate and instruct the reader on how to interpret experimental data to account for product stereochemical outcomes and propose reasonable reaction mechanisms. Matching mechanisms to justify experimental results with no or limited supportive experimental evidence is tricky as often more questions are raised than answered, but in the majority of the 40 papers presented, Gallego and Sierra are reasonably convincing with their discussion of plausible mechanisms..... This book is suitable for the hyper-enthusiastic advanced organic chemistry undergraduates who are destined to higher research degree studies and for graduates and professional organic chemists who like linking experimental data to organic structures."

Chemistry in Australia, 10/2004, p. 30

"The book makes an excellent primer for advanced undergraduates in chemistry who are preparing for exams and is also useful for graduate students and instructors."

Journal: Chimie Nouvelle – Societe Royale de Chimie, Vol. 22, Issue 87, p. 122

"Organic Reaction Mechanisms shows readers how to interpret the experimental data obtained from an organic reaction . . . Examining a series of selected examples of mechanisms, Organic Reaction Mechanisms focuses on real cases and discusses them in detail . . . The book makes an excellent primer for advanced undergraduates in chemistry who are preparing for exams and is also useful for graduate students and instructors." (Chimie Nouvelle Societe Royale de Chemie, Vol. 22(87), 2004)

"Learning by doing is the approach pursued by Gallego and Sierra in their book . . . The chemical concepts and reaction types introduced to the reader cover practically all of the addition, substitution, and elimination reactions known in traditional organic chemistry. . . Ample space is also given to . . . The book is a valuable resource for the preparation of seminars on organic reaction mechanisms, and as such it should be available in a good university library." (Hendrik Zipse, Angewandte Chemie, Vol. 116(37), 2004)

"Organic Reaction Mechanisms: 40 Solved Cases presents cases of organic reaction mechanisms using formal representation . . . The examples are treated in detail with an introduction, experimental data, discussion, key points and additional references. The approach of the authors is original since they do not approach the reaction . . . This volume will be useful to advanced undergraduate students and researchers interested in understanding the mechanism of organic reactions." (John F. Kennedy, Francois Meullenet, Carbohydrate Polymers, Vol. 57, 2004)

"Working with three-dimensional molecules, changes to solvent or catalyst and other such factors may dramatically alter the course of a reaction, and these subtleties are not readily appreciated by most students. . . The authors of this book try to redress this deficiency by bringing together a series of organic reactions whose mechanistic details have been probed using a variety of techniques and approaches. . . will also offer lecturers a useful set of worked problems with which to illustrate their courses." (Andrew Boa, Times Higher Education Supplement, February, 2005)

"Organic Reaction Mechanics shows the readers how to interpret the experimental data obtained from an

organic reaction . . . This book in which the strategy of synthesis has been discussed will be useful for undergraduates, Ph. D. students and scientists . . . Lecturers can find in the text new examples to illustrate topics of advanced chemistry. After reading this book specific interest can be found by a physicist who deals with investigations of chemical or biochemical processes by physical methods." (Yu. Galyametdinov, Applied Magnetic Resonance, Vol. 28 (1-2), 2005)

"What resources do you need to teach mechanistic organic chemistry? More often than not, quick access to appropriate, contemporary examples . . . For that reason alone I can commend Gomez Gallego and Sierra's book . . . The book is well organized. . . The scope of the examples is a real asset. . . The references are also valuable. . . I can see it becoming a very useful resource for educators at advanced undergraduate and postgraduate level." (Jim Iley, Chemistry World, Vol. 2 (7), 2005)

"The mechanism of a chemical reaction can be considered as a hypothetical motion picture of the behavior of the participating atoms. The reliability of the proposed mechanism increases if it leads to quantitative predictions as to how the speed of the reaction is affected by concentrations of reactants, temperature, solvent and the presence of catalysts. The interpretation of the experimental data is a key point in any type of experimentation. The book on *Organic Reaction Mechanisms* explains the various approaches to interpret the experimental data obtained from an organic reaction and specifically how an organic reaction mechanism can be considered or rejected based on the analysis of experimental evidence. . . All the cases presented in the book have been nicely illustrated that cover all the main topics of organic chemistry and this book is an innovative contribution to the subject. In conclusion, this book can be excellent source of information not only to the students but also to the academicians working in the area of organic chemistry." (John F. Kennedy, Univ. Birmingham; Journal: Carbohydrate Polymers, Issue 65, 2006)

From the Back Cover

Organic Reaction Mechanisms shows readers how to interpret the experimental data obtained from an organic reaction, and specifically how an organic reaction mechanism can be considered or rejected based on the analysis of the experimental evidence. Examining a series of selected examples of mechanisms, **Organic Reaction Mechanisms** focuses on real cases and discusses them in detail, following the same methodology: introduction, experimental data and discussion. The examples are arranged to elucidate key aspects of organic reaction mechanisms. The authors employ all the types of information that the authors of the original work considered useful and necessary, including kinetic and thermodynamic data, isotopic labelling and organic reactivity. The book makes an excellent primer for advanced undergraduates in chemistry who are preparing for exams and is also useful for graduate students and instructors.

Users Review

From reader reviews:

David Hogan:

Throughout other case, little people like to read book Organic Reaction Mechanisms: 40 Solved Cases. You can choose the best book if you appreciate reading a book. Provided that we know about how is important the book Organic Reaction Mechanisms: 40 Solved Cases. You can add information and of course you can around the world with a book. Absolutely right, simply because from book you can understand everything! From your country until eventually foreign or abroad you can be known. About simple point until wonderful thing you may know that. In this era, we can open a book or perhaps searching by internet gadget. It is called e-book. You can use it when you feel bored stiff to go to the library. Let's learn.

Brett Baker:

Do you certainly one of people who can't read pleasurable if the sentence chained within the straightway, hold on guys that aren't like that. This Organic Reaction Mechanisms: 40 Solved Cases book is readable by means of you who hate those straight word style. You will find the information here are arrange for enjoyable reading through experience without leaving actually decrease the knowledge that want to supply to you. The writer involving Organic Reaction Mechanisms: 40 Solved Cases content conveys the idea easily to understand by many people. The printed and e-book are not different in the written content but it just different by means of it. So , do you still thinking Organic Reaction Mechanisms: 40 Solved Cases is not loveable to be your top collection reading book?

Gerald Chisholm:

The e-book untitled Organic Reaction Mechanisms: 40 Solved Cases is the e-book that recommended to you to read. You can see the quality of the guide content that will be shown to an individual. The language that author use to explained their way of doing something is easily to understand. The article writer was did a lot of research when write the book, therefore the information that they share to your account is absolutely accurate. You also will get the e-book of Organic Reaction Mechanisms: 40 Solved Cases from the publisher to make you more enjoy free time.

Margarita Culbertson:

This Organic Reaction Mechanisms: 40 Solved Cases is brand new way for you who has intense curiosity to look for some information because it relief your hunger info. Getting deeper you upon it getting knowledge more you know or else you who still having little digest in reading this Organic Reaction Mechanisms: 40 Solved Cases can be the light food for you personally because the information inside this book is easy to get by means of anyone. These books build itself in the form which is reachable by anyone, yes I mean in the e-book contact form. People who think that in guide form make them feel drowsy even dizzy this e-book is the answer. So there is no in reading a guide especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss it! Just read this e-book variety for your better life along with knowledge.

Download and Read Online Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra #3PNJ7QY0XKC

Read Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra for online ebook

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra 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 Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra books to read online.

Online Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra ebook PDF download

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra Doc

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra MobiPocket

Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra EPub

3PNJ7QY0XKC: Organic Reaction Mechanisms: 40 Solved Cases By Mar Gómez Gallego, Miguel A. Sierra