



# March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure

By Michael B. Smith

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## March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure By Michael B. Smith

The new, revised and updated 7<sup>th</sup> edition of *March's Advanced Organic Chemistry* clearly explains the theories and examples of organic chemistry, providing the most comprehensive resource about organic chemistry available.

Readers are guided on planning and execution of multi-step synthetic reactions, with detailed descriptions of all the reactions. The first five chapters deal with the structure of organic compounds and discuss important organic chemistry bonds, fundamental principles of conformation, and stereochemistry of organic molecules, and reactive intermediates in organic chemistry. Chapters 6 to 9 are concerned with general principles of mechanism in organic chemistry, including acids and bases, photochemistry, sonochemistry and microwave irradiation, and finally the relationship between structure and reactivity. The last 10 chapters cover the nature and the scope of organic reactions and their mechanisms.

The 7<sup>th</sup> edition proves again it is a must-have desktop reference and textbook for every student and professional working in organic chemistry or related fields.

### Key features of the 7<sup>th</sup> edition:

- Every chapter has been updated with the most recent reaction information with references to both the primary and review literature
- New to the 7th edition: 5,500 references since the last edition, updates / rewrites of the retained sections, and an updated index in Appendix B
- Contains more than 1650 reactions and 20,000 valuable references to the primary literature
- Includes appendices on the literature of organic chemistry and the classification of reactions according to the compounds synthesized
- Guides the reader on planning and execution of multi-step synthetic reactions, with detailed descriptions of all the reactions.

### Reviews of the previous edition:

"...a favorite general organic chemistry text and an easy-to-use one-volume

reference. We are confident that this book will remain a dominant reference and that it will reside on many chemists' personal bookshelves." –*Journal of Medicinal Chemistry*

"Who can hope to be seriously accepted as a member of the organic chemistry community without being in possession of at least one edition of 'March'?"  
–*Chemistry and Industry*

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## **March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure By Michael B. Smith Bibliography**

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## Editorial Review

### Review

"...this latest edition should be on the bookshelf of every organic chemist; but do not just use it as a reference book. Read it thoroughly, and it will give you lots of new ideas." (Organic Process Res & Dev, 2013)

### From the Back Cover

#### **Seventh Edition integrates advances in organic chemistry and reactions into acclaimed text**

"Who can hope to be seriously accepted as a member of the organic chemistry community without being in possession of at least one edition of March?"

—*Chemistry & Industry*, from a review of the *Sixth Edition*

Now in its seventh edition, *March's Advanced Organic Chemistry* remains the gold standard in organic chemistry, setting the foundation for organic chemistry theory and practice. Throughout its many editions, readers have relied on its clear, carefully written descriptions of reactions, mechanisms, and structure to plan and execute multi-step synthetic reactions. Offering a comprehensive treatment of organic chemistry, the text explores:

- Structure of organic compounds, explaining important organic chemistry bonds, fundamental principles of conformation, stereochemistry of organic molecules, and reactive intermediates
- Principles of mechanisms in organic chemistry, including acids and bases, photochemistry, sonochemistry, microwave irradiation, and the relationship between structure and reactivity
- Nature, scope, and mechanisms of individual organic reactions

This *Seventh Edition* updates the text to reflect the most recent advances in organic chemistry and organic reactions. More than 5,500 references have been added to guide students to the latest primary, secondary, and review literature. In addition, there's a literature guide to help readers conduct thorough searches of any topic in organic chemistry.

With detailed descriptions of organic reactions to guide students through all the stages of planning and performing multi-step synthetic reactions, *March's* continues to be the textbook of choice for organic chemistry instructors and students around the world.

### About the Author

**MICHAEL B. SMITH, PhD**, is Professor in the Department of Chemistry at the University of Connecticut. He is a coauthor of the fifth and sixth editions of *March's Advanced Organic Chemistry* and the author of *Volumes 6 - 12* of the *Compendium of Organic Synthetic Methods* (Wiley) as well as several other monographs.

## **Users Review**

### **From reader reviews:**

#### **Lou Whisenhunt:**

Often the book March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure will bring you to definitely the new experience of reading a book. The author style to explain the idea is very unique. In case you try to find new book to read, this book very suited to you. The book March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure is much recommended to you you just read. You can also get the e-book from the official web site, so you can easier to read the book.

#### **William Chestnut:**

March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure can be one of your nice books that are good idea. We all recommend that straight away because this reserve has good vocabulary that may increase your knowledge in vocabulary, easy to understand, bit entertaining however delivering the information. The article writer giving his/her effort to place every word into enjoyment arrangement in writing March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure but doesn't forget the main position, giving the reader the hottest in addition to based confirm resource information that maybe you can be considered one of it. This great information could drawn you into completely new stage of crucial pondering.

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