



Organic Chemistry Principles and Industrial Practice

By Mark M. Green, Harold A. Wittcoff

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In this textbook, designed to be used with classic texts of organic chemistry at the undergraduate level, or standing alone for more advanced students, the two experts, M. M. Green and H. A. Wittcoff bring together the principles and the practice. Written for students, while also giving much information that may be used to enhance teaching of the subject, the book's ten concise chapters combine important commercial and practical processes with the principles of organic chemistry. The result is a source of otherwise barely accessible information. In addition, personal anecdotes from the authors' vast experience make this a fascinating and indispensable textbook for everyone wishing to enhance an appreciation of this subject.

Reviews:

"This book is a joy to read (and re-read)."

—James A. Moore, Rensselaer Polytechnic Institute

"This very interesting book is going to find a unique place in the repertoire of organic textbooks."

—James Canary, New York University

"Simply put, this book is a gem. The chemistry described is rigorous but the warm, humorous, and conversational writing style makes the book a joy to read."

—Dasan M. Thamattoor, Colby College

"I have never come across such an enticing mix of stories of discovery with basic chemistry!"

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"This is a highly original book filling an obvious need."

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"This book is a delightful contribution to the field of organic chemistry that offers a useful pedagogical approach."

—Pedro Cintas, Facultad de Ciencias-UEX Badajoz, Spain

"What an excellent read! The book, intended for organic chemistry students, is in the style of the first books on organic chemistry by Isaac Asimov which impressed me as a teenager in the 1960's. It makes the discovery of new chemicals and processes seem exciting, and emphasises the importance of academic understanding in the development of the chemical industry. (...) The book is full of interesting anecdotes, often related to serendipitous discoveries. But, as Louis Pasteur said, "Chance favours the prepared mind". (...) One interesting story on the cracking of petroleum and the subsequent build up of coke deposits relates to a father who was so obsessed with the subject that he called his son Carbon; Carbon then named his own daughters Methyl and Ethyl. In my opinion, any father who saddles his children with such names might be regarded as a well known arsenic heterocycle!

In conclusion, all organic chemists should read this book for pleasure, not just to learn new knowledge. I hope the authors can be persuaded to write a second volume which covers the fine chemicals industry."

—Organic Process Research & Development, Dr. Trevor Laird

"This is a unique, fascinating book that bridges organic chemistry principles with chemical industrial applications. The story telling style make the reading/learning experience extremely enjoyable."

—Qiao-Sheng Hu, College of Staten Island, City University of New York

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Editorial Review

Review

"...a well-structured, easy-to-read introduction to the principles of organic chemistry with a new didactic approach...offers valuable and new ideas..." (*Chimie Nouvelle*, Vol.23, No.88, March 2005)

"...this book excels, providing a wealth of information, insight, and inventive teaching.... I intend to enjoy this text again and refer to it often." (*Journal of Chemical Education*, August 2004)

"The authors bring the principles and practice together in one textbook, with personal anecdotes to enliven the subject." (*Depauw Magazine*, Summer 2004)

"...it is a fascinating presentation that is easy to read and keeps the reader alert by providing the historical details that put the industrial procedures into perspective." (*Clinical Chemistry*, October 2004)

"They (authors) also provide insight on how the well-being of corporate enterprises can, through a deep understanding of chemistry, complement the well-being of society and the global environment." (*C & EN*, July 19, 2004)

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From the Back Cover

Nylon, Plexiglas®, epoxy resin, and Elmer's glue; dynamite, rubber tires, and spandex. These are a few among the multitude of industrial products produced using the principles of organic chemistry, principles that are often taught to students without reference to the commercial and practical importance of the subject. The marvelous theoretical principles on which organic chemistry is based are therefore often not fully appreciated by students of this subject. Organic Chemistry can appear dry, meaningless, and seemingly irrelevant. In this textbook, designed to be used in conjunction with classic texts of organic chemistry at the undergraduate level, or standing alone for more advanced students, two experts, M. M. Green and H. A. Wittcoff bring the principles and the practice together. Written for students, and also giving much information that could be used to enhance teaching of the subject, the book, presented in ten concise chapters, combines important industrial processes with the principles of organic chemistry. The result is a source of otherwise barely accessible information. In addition, personal anecdotes from the authors' vast experience make this a fascinating and indispensable textbook for everyone wishing to enhance the appreciation of this subject.

I have never come across such an enticing mix of stories of discovery with basic chemistry! [...] With wit and enthusiasm, with a feeling of the molecule (and what makes polymers grow and tangle), Green and Wittcoff pull us into the exciting world of the interplay of organic chemistry principle and industrial practice.

— *Roald Hoffman, Cornell University*

[...] Furthermore, the interesting stories and anecdotes liberally sprinkled throughout the book are sure to enliven any classroom discussion. Indeed, as a faculty in a small liberal arts college, I am most impressed by the book's pedagogical value in illustrating the practical side of organic chemistry." — *Dasan M.*

Thamattoor, Colby College

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Omar Yoder:

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