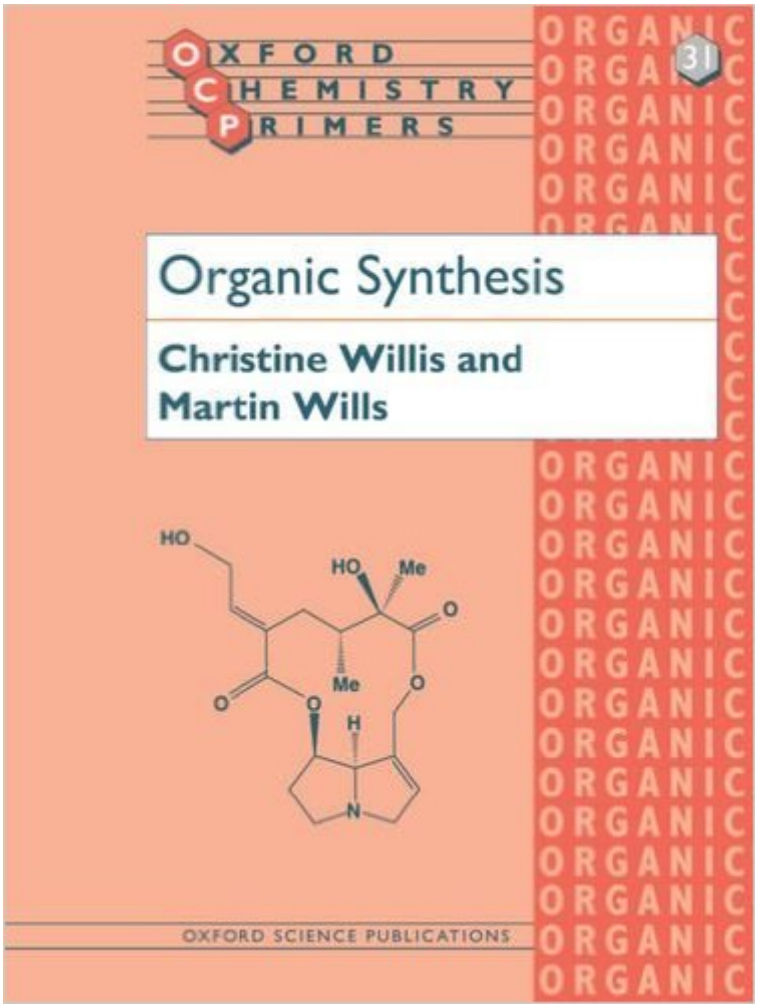
Organic Synthesis (Oxford Chemistry Primers)



Synopsis

This practical book uses a wide range of examples in a versatile approach to the design of effective syntheses. Retrosynthetic analysis--a method of identifying simple starting materials for a synthesis--is introduced with emphasis on the importance of bond polarity and functional group interconversions. The next section discusses how an effective route to a target molecule containing more than one functional group can be followed, while later chapters review methods for the control of chemo-, regio-, and stereoselectivity, and include a discussion of protecting groups. Finally, four syntheses of pyrrolidine alkaloids are compared using previously described principles.

Book Information

Series: Oxford Chemistry Primers (Book 31)

Paperback: 96 pages

Publisher: Oxford University Press; 1 edition (January 18, 1996)

Language: English

ISBN-10: 0198557914

ISBN-13: 978-0198557913

Product Dimensions: 9.4 x 0.2 x 7.2 inches

Shipping Weight: 7 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (5 customer reviews)

Best Sellers Rank: #1,304,128 in Books (See Top 100 in Books) #19 inÂ Books > Science & Math > Chemistry > Organic > Synthesis #3432 inÂ Books > Textbooks > Science & Mathematics > Chemistry #298852 inÂ Books > Reference

Customer Reviews

Like many other items in this Oxford chemistry primers, this one is of particlar value among those heavy big volumes on this topic. As precise as it could be - 91 pages, it has covered all the major points of organic synthesis in terms of retrosynthesis analysis and selectivity, as well as representative published works. The authors also pay attention to touch on different reactions as many as possible - after all mastering reactions is a must for successful synthesis. The best feature is the logical presentation of the topic which allows the readers to actually enjoy reading without much difficulty - with gradual increase of depth to the final original publications. Of course such a volume is not intended for those who are very experienced in the art of organic synthesis. Rather, it could be very refreshing and helpful for the experienced ones to pick up this topic again after a while away from this field. Or it could serve as a valuable piece for an organic chemistry student prior to

formal graduate level organic synthesis. Or test yourself if you understand all the material in this book - if the answer is yes, you should be a proud synthetic organic chemist already!

If you are struggling with organic chemistry, do yourself a favor and buy this primer! It helps with understanding the fundamentals of synthesis and will give you a much needed understanding on how to put together molecules.

This book is excellent. It’s college level chemistry but it might be good for some high school students with an interest in chemistry.

Excellent, clear and concise summary of the basis of organic chemistry, particularly valuable because it focuses on helping to understand rather than just comiling knowledge

BEST BOOK FOR CHEMISTRY MAJORS