



Indoles (Best Synthetic Methods)

By Richard J. Sundberg

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Indoles continue to be of great interest to the pharmaceutical industry and at the current time several thousand specific new derivatives are reported annually. Research has been driven by the wide range of indole derivatives which occur in nature and through the biological activity of many indole derivatives, of both natural and synthetic origin. This book provides a systematic guide to the most useful and important reactions in the field for both synthesis and synthetic modification of the indole ring. While including the most recently developed and promising methods, it also updates information available on classical methods to give the reader an up-to-date and comprehensive view of the subject. The methods are illustrated by procedures drawn from the literature and by tables including examples chosen to indicate both the scope of applicability and variations in methodology. The organization of the book is based on the retrosynthetic concept of identifying the bond(s) formed in the reaction, which in turn identifies potential starting materials.

- Includes systematic summaries of the most important methods for the construction of indoles from aromatic precursors
- Discusses methods for preparing indoles by annelation of pyrroles
- Covers methods for adding or modifying substituent groups, including methods for introducing the tryptamine and tryptophan side-chains Examines reduction/oxidation reactions that are specific for indoles
- Considers use of cycloaddition reactions for synthetic elaboration of indoles

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Editorial Review

Review

"This volume is a valuable addition to the *Best synthetic methods* series, and the author and publishers are to be congratulated on producing a book that all concerned with nitrogen heterocyclic chemistry will find of considerable value." --**CHEMISTRY AND INDUSTRY**

"In his preface, Professor Sundberg states that he attempted to illustrate the most widely used synthetic methods in indole chemistry on the basis of the retrosynthetic concept of identifying the bonds being formed. Not only has he succeeded, but he has done an outstanding job...the book is an absolute must for those interested in indole chemistry...(it) describes most major classical methods and emphasizes all the newer methods available. Professor Sundberg is to be congratulated." --**JOURNAL OF MEDICINAL CHEMISTRY**

From the Back Cover

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There is vast and often bewildering array of synthetic methods and reagents available to organic chemists today. Many chemists have their own favoured methods, yet new and unfamiliar methods may well allow a particular synthetic step to be done more readily and in higher yield. *Best Synthetic Methods* allows the practicing synthetic chemist to choose between all the alternatives, and assess their real advantages and limitations. Each volume deals concisely with a particular topic from a practical point of view, giving detailed examples and precise experimental directions and hints. With the emphasis on laboratory use, these volumes represent a comprehensive and practical guide to modern organic chemistry.

About the Author

Richard J. Sundberg has been a member of the chemistry department at the University of Virginia since 1964. His research has included both development of synthetic methods for indoles and other heterocycles. The scope of his research also extends into the synthesis of biologically active compounds, including natural products such as the vinca alkaloids.

Users Review

From reader reviews:

John Cleveland:

The ability that you get from *Indoles (Best Synthetic Methods)* is a more deep you rooting the information that hide inside words the more you get interested in reading it. It does not mean that this book is hard to understand but *Indoles (Best Synthetic Methods)* giving you buzz feeling of reading. The article author conveys their point in a number of way that can be understood by simply anyone who read the idea because the author of this publication is well-known enough. This book also makes your current vocabulary increase well. So it is easy to understand then can go to you, both in printed or e-book style are available. We recommend you for having this kind of *Indoles (Best Synthetic Methods)* instantly.

Michele Stein:

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Vera Gates:

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Ronnie Chaney:

Within this era which is the greater particular person or who has ability in doing something more are more treasured than other. Do you want to become considered one of it? It is just simple approach to have that. What you must do is just spending your time very little but quite enough to enjoy a look at some books. One of the books in the top list in your reading list is actually *Indoles (Best Synthetic Methods)*. This book which is qualified as *The Hungry Hillside* can get you closer in growing to be precious person. By looking up and review this e-book you can get many advantages.

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