

Book Review

Reagents for High-Throughput Solid-Phase and Solution-Phase Organic Synthesis Edited by Peter Wipf. John Wiley & Sons, Chichester, West Sussex, England. 2005. xi + 380 pp. 22 x 29 cm. ISBN 0-470-86298-X. \$140.00.

Thomas J. Sowin

J. Med. Chem., **2005**, 48 (20), 6522-6522 • DOI: 10.1021/jm058255g • Publication Date (Web): 08 September 2005

Downloaded from <http://pubs.acs.org> on March 28, 2009

More About This Article

Additional resources and features associated with this article are available within the HTML version:

- Supporting Information
- Access to high resolution figures
- Links to articles and content related to this article
- Copyright permission to reproduce figures and/or text from this article

[View the Full Text HTML](#)



ACS Publications
High quality. High impact.

Book Reviews

Reagents for High-Throughput Solid-Phase and Solution-Phase Organic Synthesis. Edited by Peter Wipf. John Wiley & Sons, Chichester, West Sussex, England. 2005. xi + 380 pp. 22 × 29 cm. ISBN 0-470-86298-X. \$140.00.

This book is the sixth in a series of Handbooks of Reagents for Organic Synthesis that is designed to be more specialized, focused, and affordable than the large and comprehensive Encyclopedia of Reagents for Organic Synthesis (EROS) from which they are derived. The previous five handbooks in this series dealt with the specific topics of oxidizing and reducing agents, acidic and basic reagents, activating agents and protecting groups, reagents, auxiliaries and catalysts for C–C bond formation, and chiral reagents for asymmetric synthesis. This particular handbook selects from the parent EROS (and its newer electronic version e-EROS) the most relevant reagent entries that would be of interest and utility to those practicing, or wishing to practice, high-throughput synthesis. However, those interested in just using modern techniques and reagents to facilitate reaction workup or purification will also find this handbook of use.

Specifically, this handbook contains 144 entries that encompass a broad spectrum of reagent types such as various solid-supported reagents, resins and linkers, solid- and solution-phase scavengers, reagents for catch and release, fluorous reagents, and peptide coupling agents, among others. These reagent entries are arranged alphabetically in the book, but they can be easily searched via a fairly comprehensive subject index and reagent formula index. Those familiar with EROS will immediately recognize the convenient style and manner in which the reagents are presented in the book. Each entry begins with the reagent name and structure followed by physical data, solubility, and handling and

storage precautions. Following these reagent data are usually listed the preparation (if the reagent is not commercially available) and reaction schemes that describe the manner and types of reactions in which each reagent is generally used. Each reagent entry is well referenced, allowing the reader to easily access more specific information about the reagent or how it has been previously used. Most of the references for the newer reagents are, for the most part, up to date, with some of the references as late as 2004.

In addition to the broad spectrum of reagent entries, this handbook also contains a very useful listing of the review articles and monographs over a range of topics relating to combinatorial chemistry, solid- and solution-phase high-throughput synthesis, supported catalysts and reagents, compound library development, and high-throughput screening. Also included are some helpful relevant Web sites and a short listing of procedures from Solid-Phase Organic Syntheses, Volume 1.

In summary, this handbook will be a valuable resource and of high interest to those wishing to engage in high-throughput synthesis. However, I believe that any synthetic organic chemist can benefit from having this book on his/her shelf because the reagents highlighted offer many alternatives that may have advantages over more traditional synthetic methods and reagents.

Thomas J. Sowin

*Global Pharmaceutical Discovery
Cancer Research
Abbott Laboratories
100 Abbott Park Road
Abbott Park, Illinois 60064-6101*

JM058255G

10.1021/jm058255g