



# Name Reactions of Functional Group Transformations

By Jie Jack Li, E. J. Corey

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This practical, well-organized reference delves deeply into functional group transformations, to provide all the detailed information that researchers need.

- Topics are organized into the following sections: oxidation, reduction, asymmetric synthesis, and functional group manipulations
- Each section includes a description of the functional group transformation, the historical perspective, mechanisms, variations and improvements on the reaction, synthetic utilities and applications for the reaction, experimental details, and references to the primary literature
- Contributors are well-known and respected for their work on the specific name reactions.

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## **Editorial Review**

### **Review**

"Unlike many previous books on name reactions, which present many reactions but treat them superficially, this book provides an excellent selection of useful name reactions, which have been given in depth, well-illustrated, instructional, and well-referenced accounts." (*Journal of Medicinal Chemistry*, February 2008)

"Helps you explore how you think, communicate and react, allowing you to change your behaviours and become a more expert professional practitioner." (*Journal of Perioperative Practice*, April 2008)

"Reading this book has been enjoyable experience. Again and again, one comes across surprising reaction possibilities of well-known reagents, or some lesser known variants of common transformations." (*Angewandte Chemie*)

"This book provides an excellent selection of useful name reactions, which have been given in depth, well-illustrated, instructional, and well-referenced accounts." (*Journal of Medicinal Chemistry*, January 11, 2008)

### **From the Back Cover**

#### **A survey of important transformations that are representative of the whole range of functional groups**

This comprehensive reference delves into the details of name reactions that are important to researchers. It presents an up-to-date account of forty-seven major classes of functional group transformations and also serves to interconnect them. The book includes reviews from leading scientists in their specialty areas—all organized uniformly, making it easy to access information.

#### **Topics are organized into the following sections:**

- Asymmetric synthesis
- Reduction
- Oxidation
- Olefination
- Amine synthesis
- Carboxylic acid derivatives synthesis
- Miscellaneous functional group manipulations

#### **Each section includes a description of:**

- The functional group transformation
- Mechanisms
- Synthetic utilities and applications for the reaction
- References to the primary literature
- The historical perspective
- Variations and improvement on the reaction
- Experimental details

With nineteen contributors from academia and industry, some of whom discovered the reactions they

describe, *Name Reactions for Functional Group Transformations* is a state-of-the-art resource for organic and medicinal chemists conducting research in industries such as pharmaceuticals, fine chemicals, ag-biotech, and polymers, as well as for graduate students in organic chemistry. It is an ideal companion to the first volume of this series, *Name Reactions in Heterocyclic Chemistry*.

#### About the Author

**Jie Jack Li** is a medicinal chemist at Pfizer Global Research and Development in Ann Arbor, Michigan. He is coauthor of *Contemporary Drug Synthesis* and editor of *Name Reactions in Heterocyclic Chemistry* (both from Wiley).

**E. J. Corey**, Professor Emeritus at Harvard University, is scientific editorial advisor for this book. Dr. Corey won the Nobel Prize in Chemistry in 1990 for his development of the theory and methodology of organic synthesis, and was awarded the Priestley Medal in 2004.

### Users Review

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