Rhodium Catalysis in Organic Synthesis: Methods and Reactions
Ken Tanaka

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DESCRIPTION

An essential reference to the highly effective reactions applied to modern organic synthesis

Rhodium complexes are one of the most important transition metals for organic synthesis due to their ability to catalyze a variety of useful transformations. Rhodium Catalysis in Organic Synthesis explores the most recent progress and new developments in the field of catalytic cyclization reactions using rhodium(I) complexes and catalytic carbon-hydrogen bond activation reactions using rhodium(II) and rhodium(III) complexes.

Edited by a noted expert in the field with contributions from a panel of leading international scientists, Rhodium Catalysis in Organic Synthesis presents the essential information in one comprehensive volume. Designed to be an accessible resource, the book is arranged by different reaction types. All the chapters provide insight into each transformation and include information on the history, selectivity, scope, mechanism, and application. In addition, the chapters offer a summary and outlook of each transformation. This important resource:

- Offers a comprehensive review of how rhodium complexes catalyze a variety of highly useful reactions for organic synthesis (e.g. coupling reactions, CH-bond functionalization, hydroformylation, cyclization reactions and others)
- Includes information on the most recent developments that contain a range of new, efficient, elegant, reliable and useful reactions
- Presents a volume edited by one of the international leading scientists working in the field today
Written for academics and synthetic chemists working with organometallics, Rhodium Catalysis in Organic Synthesis contains the most recent information available on the developments and applications in the field of catalytic cyclization reactions using rhodium complexes.

ABOUT THE AUTHOR

Ken Tanaka is a Professor of Applied Chemistry in the Department of Chemical Science and Engineering at the Tokyo Institute of Technology. Since the start of his academic career in 2003, he has published over 190 scientific papers and one book. His research focuses on organometallic chemistry directed toward organic synthesis.

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