



# Reactive Intermediates in Organic Chemistry: Structure, Mechanism, and Reactions

By Maya Shankar Singh

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Most reactions in organic chemistry do not proceed in a single step but rather take several steps to yield the desired product. In the course of these multi-step reaction sequences, short-lived intermediates can be generated that quickly convert into other intermediates, reactants, products or side products. As these intermediates are highly reactive, they cannot usually be isolated, but their existence and structure can be proved by theoretical and experimental methods. Using the information obtained, researchers can better understand the underlying reaction mechanism of a certain organic transformation and thus develop novel strategies for efficient organic synthesis.

The chapters are clearly structured and are arranged according to the type of intermediate, providing information on the formation, characterization, stereochemistry, stability, and reactivity of the intermediates. Additionally, representative examples and a problem section with different levels of difficulty are included for self-testing the newly acquired knowledge.

By providing a deeper understanding of the underlying concepts, this is a must-have reference for PhD and Master Students in organic chemistry, as well as a valuable source of information for chemists in academia and industry working in the field. It is also ideal as primary or supplementary reading for courses on organic chemistry, physical organic chemistry or analytical chemistry.

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About the Author

Maya Shankar Singh obtained his PhD degree in Organic Chemistry from Banaras Hindu University, Varanasi, India in 1986. After postdoctoral research, he joined the Vikram University Ujjain as Assistant Professor in 1990 and moved to Gorakhpur University as Associate Professor in 1998 and then to Banaras Hindu University in 2004, where he became Professor in Organic Chemistry in 2006. During his sabbatical, he visited University of Arizona, USA; Michigan State University, USA; Nagoya Institute of Technology, Japan; Loughborough University, UK and University of Leicester, UK. His research interests are centered on synthetic organic chemistry, in particular the design and discovery of new drug candidates, development of novel building block precursors, new synthetic methodologies (catalytic and stoichiometric) and investigations towards understanding mechanisms, one-pot multi-component domino/tandem reactions, solvent-free reactions, asymmetric synthesis, green reactions and chemistry of  $\alpha$ -oxodithioesters/ $\alpha$ -oxothioamides and  $\alpha$ -oxoketene-S,S-/N,S-acetals. He has published more than 120 scientific papers and four reviews articles in reputed international journals. Prof. Singh has also authored two textbooks in organic chemistry published by Pearson Education. He is a Fellow of the National Academy of Sciences, India.

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