

Stereochemistry of Radical Reactions

Concepts, Guidelines and Synthetic Applications

by Dennis P. Curran, Ned A. Porter & Bernd Giese

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Chapter 1

Radical Reactions in Organic Synthesis

1.1 Introduction

As recently as a decade ago, organic radicals were regarded as interesting reactive intermediates with limited synthetic potential. As a rule, radical reactions were thought to be “messy”, and the few “clean” radical reactions, like allylic and benzylic brominations with *N*-bromosuccinimide (NBS), were viewed as the exceptions that proved the rule. This view of radicals probably arose because of the notion that highly reactive intermediates could not be selective. The concept of selectivity pervades organic synthesis, and with good reason—selectivity is the key to high yields.

The logic that reactive intermediates such as radicals cannot participate in selective reactions with controlled, predictable outcomes is faulty. Research on the structures and reactions of organic radicals conducted largely by physical organic chemists in the 60s and 70s¹ laid the foundation for the synthetic explosion that followed in the 80s and is still ongoing.² Synthetic chemists gradually came to realize that it is only relative rates that are important for selectivity; the simple fact that radicals often react with high absolute rates is actually desirable, not undesirable. They began to realize the difference between radical/radical reactions, which often occur at the diffusion-controlled limit and are hence unselective, and radical/molecule reactions, which occur with a huge range of rate constants. They learned that the rates of radical/radical reactions are easily minimized by choosing reaction conditions in which radical concentrations are low, and that the rates of radical/molecule reactions—that is, the selectivities—can be adjusted by the experimenter over a wide range by choice of reaction partners, concentrations, temperature, and other variables.

Radical-molecule reactions are now recognized to frequently be both chemo- and regioselective. It is ironic that radical reactions, once thought to be capricious and unpredictable, have a higher level of predictability in

Radical Reactions In Organic Synthesis

Patrick Vollmar



Radical Reactions In Organic Synthesis:

This book delves into Radical Reactions In Organic Synthesis. Radical Reactions In Organic Synthesis is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Radical Reactions In Organic Synthesis, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Radical Reactions In Organic Synthesis
- Chapter 2: Essential Elements of Radical Reactions In Organic Synthesis
- Chapter 3: Radical Reactions In Organic Synthesis in Everyday Life
- Chapter 4: Radical Reactions In Organic Synthesis in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Radical Reactions In Organic Synthesis. The first chapter will explore what Radical Reactions In Organic Synthesis is, why Radical Reactions In Organic Synthesis is vital, and how to effectively learn about Radical Reactions In Organic Synthesis.

3. In chapter 2, this book will delve into the foundational concepts of Radical Reactions In Organic Synthesis. This chapter will elucidate the essential principles that must be understood to grasp Radical Reactions In Organic Synthesis in its entirety.

4. In chapter 3, the author will examine the practical applications of Radical Reactions In Organic Synthesis in daily life. The third chapter will showcase real-world examples of how Radical Reactions In Organic Synthesis can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Radical Reactions In Organic Synthesis in specific contexts. The fourth chapter will explore how Radical Reactions In Organic Synthesis is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Radical Reactions In Organic Synthesis. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Radical Reactions In Organic Synthesis.

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