

A Guide to Solving Synthesis Problems in Undergraduate Organic Chemistry



Preface

Organic chemistry is a notoriously difficult subject. Perhaps no exercise in organic chemistry is more intimidating than a synthesis problem, where you are asked to perform a series of reactions to convert a given starting material into a desired target. This manual outlines how to approach these problems on exams and how to prepare for them through study and practice. The guide is organized around the order that material is presented in the textbook *Organic Chemistry*, 5th edition by Janice Smith. It is designed to be picked up by students near the end of the first semester of organic chemistry, roughly equating to the conclusion of Chapter 12 in Smith's textbook. After the initial introduction (sections 1–3), reactions are presented on a chapter-by-chapter basis so this guide may be revisited periodically until the conclusion of the course.

Paul Bracher
Saint Louis University, Fall 2016

About the Author

Paul Bracher is an assistant professor of chemistry at Saint Louis University and the founding editor of the unpopular chemistry blog ChemBark. He earned his B.S. in chemistry from New York University and his Ph.D. in chemistry from Harvard University, where he won several awards for teaching organic chemistry. Paul performed postdoctoral research at the California Institute of Technology, and his current research focuses on chemistry pertinent to the origin of life. For more details, visit www.paulbracher.com.

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