

ORGANIC CHEMISTRY 1 LECTURE GUIDE 2019

BY RHETT C. SMITH

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Printed in the United States of America

10 9 8 7 6 5 4 3 2 1

ISBN 978-1074137434

# Organic Chemistry 1 Lecture Guide 2019

**By Rhett C. Smith, Ph.D.**

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Companion Books from the Proton Guru:

*Organic Chemistry 1 Reactions and Practice Problems 2019*

by Rhett C. Smith

*Organic Chemistry 1 Primer 2019,*

by Rhett C. Smith, Andrew G. Tennyson, and Tania Houjeiry

Stereocenters may be generated, eliminated or changed in the course of a given reaction on the basis of the mechanism involved in the reaction.

A couple of overarching concepts can help keep track of Stereocenters in a reactions:

**1. If reagents/reactants are achiral, then:**

(A)

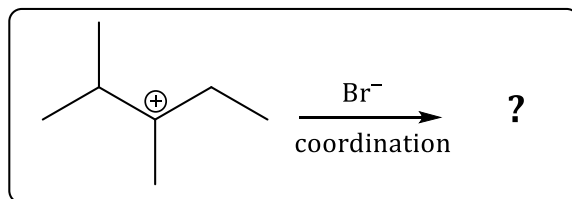
**2. If reagents/reactants are chiral, then:**

(B)

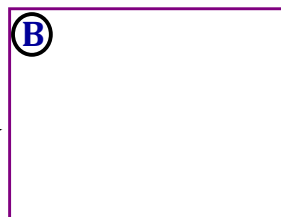
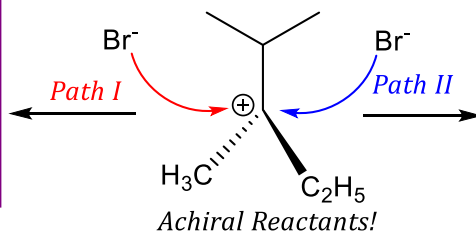
Notes

## Lecture Topic II.1: Tracking Stereocenters in Reactions

### Tracking Stereocenters in Reactions



*R*-isomer



*S*-isomer

The steric barrier to coordination from either face is the same. The two enantiomers have equal stability. So the product is a:

(C)

We will apply our knowledge of these general principles to other reactions as we encounter them.

Notes