

CHAPTER OVERVIEW

7: Alkyl Halides and Nucleophilic Substitution

Topic hierarchy

- 7.1: Introduction to Alkyl Halides
- 7.2: Nomenclature
- 7.3: Physical Properties
- 7.4: Interesting Alkyl Halides
- 7.5: The Polar Carbon–Halogen Bond
- 7.6: General Features of Nucleophilic Substitution
- 7.7: The Leaving Group
- 7.8: The Nucleophile
- 7.9: Possible Mechanisms for Nucleophilic Substitution
- 7.10: Two Mechanisms for Nucleophilic Substitution
- 7.11: The S_N2 Mechanism
- 7.12: Application- Useful S_N2 Reactions
- 7.13: The S_N1 Mechanism
- 7.14: Carbocation Stability
- 7.15: The Hammond Postulate
- 7.16: Application- S_N1 Reactions, Nitrosamines, and Cancer
- 7.17: When Is the Mechanism S_N1 or S_N2 ?
- 7.18: Vinyl Halides and Aryl Halides
- 7.19: Organic Synthesis

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