

## CHAPTER OVERVIEW

### 20: Carboxylic Acids and Their Derivatives— Nucleophilic Acyl Substitution

#### Topic hierarchy

- 20.1: Reactions of Carboxylic Acids
- 20.2: Reactions of Esters
- 20.3: Application- Lipid Hydrolysis
- 20.4: Reactions of Amides
- 20.5: Application- The Mechanism of Action of  $\beta$ -Lactam Antibiotics
- 20.6: Summary of Nucleophilic Acyl Substitution Reactions
- 20.7: Natural and Synthetic Fibers
- 20.8: Biological Acylation Reactions
- 20.9: Nitriles
- 20.10: Introduction
- 20.11: Structure and Bonding
- 20.12: Nomenclature
- 20.13: Physical Properties
- 20.14: Spectroscopic Properties
- 20.15: Interesting Esters and Amides
- 20.16: Introduction to Nucleophilic Acyl Substitution
  - 20.16.1: 22.8 Reactions of Acid Chlorides
- 20.17: Reactions of Acid Chlorides
- 20.18: Reactions of Anhydrides

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