

## CHAPTER OVERVIEW

### 19: Aldehydes and Ketones—Nucleophilic Addition

#### Topic hierarchy

- 19.1: The Wittig Reaction
- 19.2: Addition of 1° Amines
- 19.3: Addition of 2° Amines
- 19.4: Addition of  $\text{H}_2\text{O}$ —Hydration
- 19.5: Addition of Alcohols—Acetal Formation
- 19.6: Acetals as Protecting Groups
- 19.7: Cyclic Hemiacetals
- 19.8: An Introduction to Carbohydrates
- 19.9: Introduction
- 19.10: Nomenclature
- 19.11: Physical Properties
- 19.12: Spectroscopic Properties
- 19.13: Interesting Aldehydes and Ketones
- 19.14: Preparation of Aldehydes and Ketones
- 19.15: Reactions of Aldehydes and Ketones—General Considerations
- 19.16: Nucleophilic Addition of  $\text{H}^-$  and  $\text{R}^-$ —A Review
- 19.17: Nucleophilic Addition of  $-\text{CN}$

---

19: Aldehydes and Ketones—Nucleophilic Addition is shared under a [CC BY-NC-SA 4.0](https://creativecommons.org/licenses/by-nc-sa/4.0/) license and was authored, remixed, and/or curated by LibreTexts.