

Reactions of Aldehydes and Ketones

- A. Organic Oxidation/Reduction Definition
- B. Oxidation
 - 1. Oxidation of Aldehydes
 - 2. Oxidation of Ketones
- C. Reduction (NaBH_4)
 - 1. Reduction of Aldehydes
 - 2. Reduction of Ketones
- E. Addition reactions
 - 1. Addition of Alcohols to Aldehydes (Hemiacetal formation)
 - 2. Addition of Alcohols to Ketones (Hemiketal formation)
 - 3. Addition of 2 Alcohols to Aldehydes (Acetal formation)
 - 4. Addition of 2 Alcohols to Ketones (Acetal formation)
 - 5. Acetal hydrolysis
- F. Aldol reaction-formation of new C-C bond