

Carbonyl

1. $2^{\circ}\text{C}=\text{C}$ Alkene + $\rightarrow$ carbonyl
2. Alcohol + $\rightarrow$ carbonyl
3. Aldehyde + LiAlH_4 , dry ether/ H_3O^+ $\rightarrow$
4. Ketone + LiAlH_4 , dry ether/ H_3O^+ $\rightarrow$
5. Aldehyde + KMnO_4/H^+ $\rightarrow$
6. Carbonyl + HCN/NaCN $\rightarrow$
7. Carbonyl + Brady's reagent $\rightarrow$
8. Methyl-carbonyl group + I_2/NaOH $\rightarrow$
9. Aldehyde + Fehling solution $\rightarrow$
10. Aldehyde + Tollens' reagent $\rightarrow$