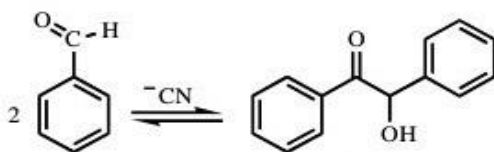


BENZOIN CONDENSATION REACTION

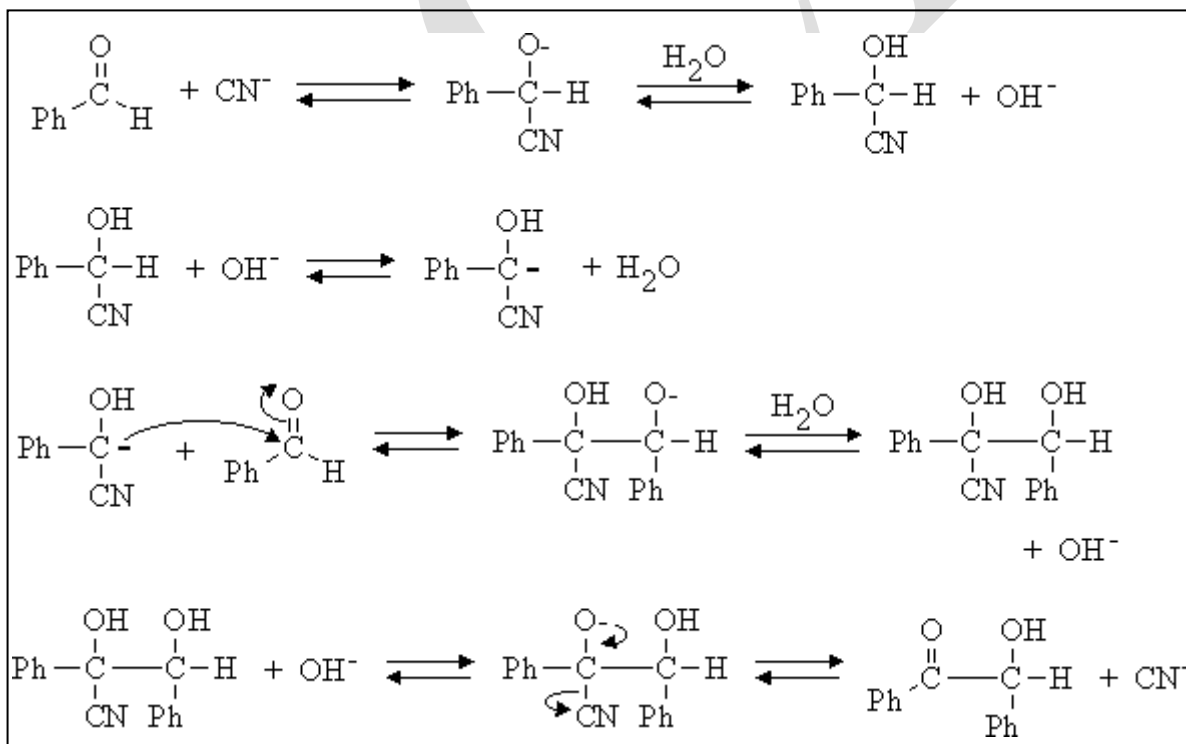
Benzoin Condensation is an important reaction in which carbon-carbon bond is formed when two molecules of aldehydes (particularly benzaldehyde) reacts with each other to form a condensed product called **Benzoin**.

This reaction is named after **Friederich Woehler** and **Justus von Liebig** in 1832. This reaction is catalyzed by **cyanide ion**.

- When 2 moles of aromatic aldehydes react in the presence of KCN, an alpha hydroxyl ketone is obtained



Reaction Mechanism:

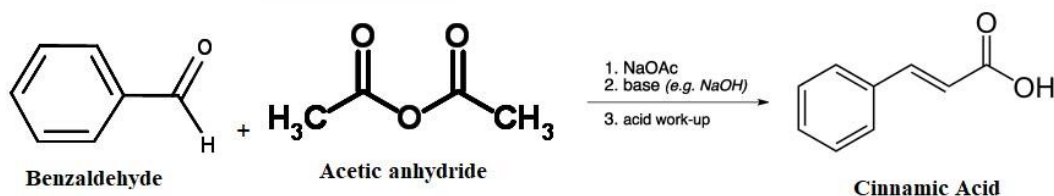
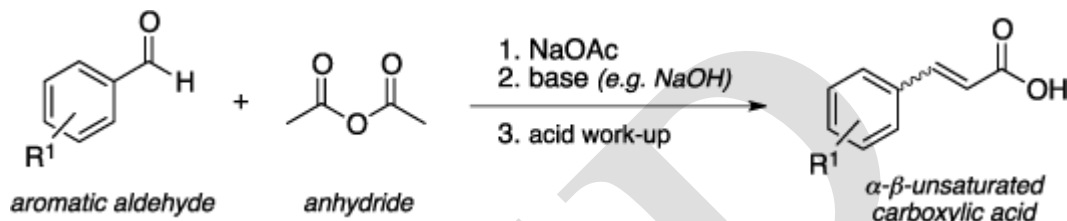


PERKIN CONDENSATION REACTION

The Perkin reaction is an organic reaction used to convert an aromatic aldehyde and an anhydride to an

α,β -unsaturated carboxylic acid using **sodium acetate, a base, and an acid work-up**.

The Perkin reaction is an organic reaction developed by **Sir William Henry Perkin** that is used to make **cinnamic acids**.



Reaction Mechanism:

