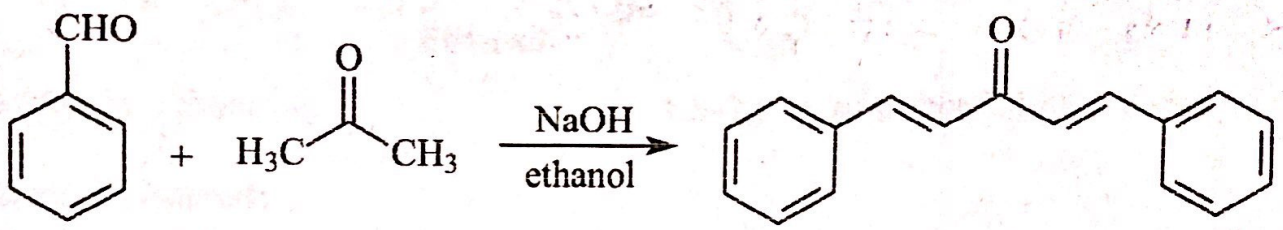
BASE CATALYZED ALDOL CONDENSATION
(Synthesis of dibenzalpropanone)



dibenzalpropanone

Chemicals Required:

Acetone –1 ml (0.83 g)
Benzaldehyde – 3.8 ml (3.9 g)
NaOH – 30 ml of 10 % soln

In a conical flask fitted with a cork, benzaldehyde (1 ml), acetone (3.8 m and methylated sprit (or alcohol) (15 ml) were shaken together for 2 minutes. To was added 10% sodium hydroxide solution and shaken vigorously for 10 minut with simultaneous pressure release. The reaction mixture was cooled in ice and t pale yellow solid was filtered through a filter paper, washed with water, drie collected, weighed and recrystallized from ethanol, m. p. (120-122 ^{0}C).

Yield: 3 g (90%)

Green context:

Hazardous organic solvents are avoided
Reagents are non-toxic