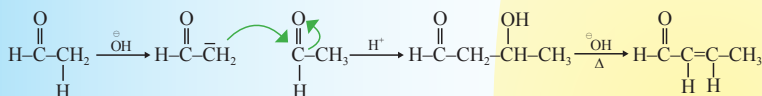
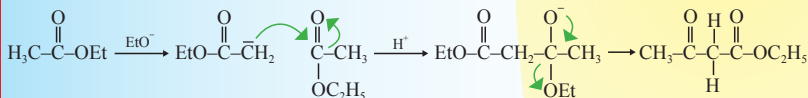


Organic Name Reactions

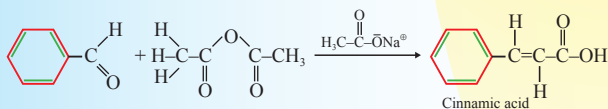
Aldol Condensation



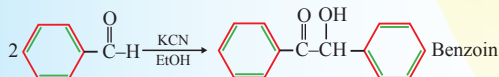
Claisen Condensation



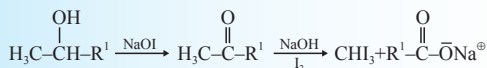
Perkin Condensation



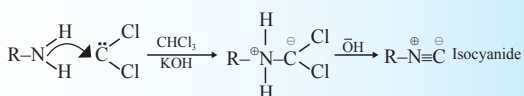
Benzoin Condensation



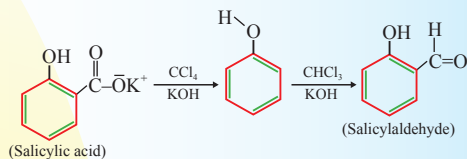
Haloform Reaction



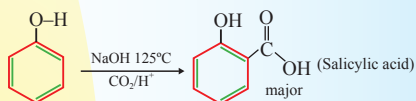
Carbylamine Test



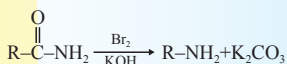
Reimer Tiemann Reaction



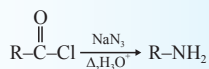
Kolbe's Schimdt Reaction



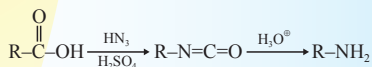
Hoffmann Bromamide Degradation



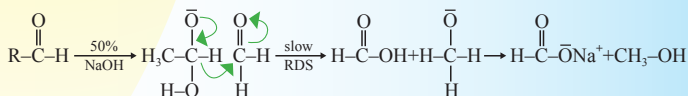
Curtius Reaction



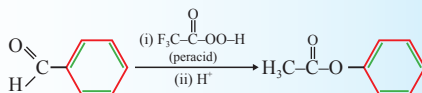
Schimdt Reaction



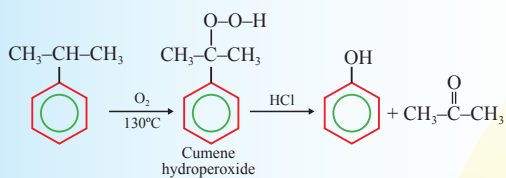
Cannizzaro Reaction



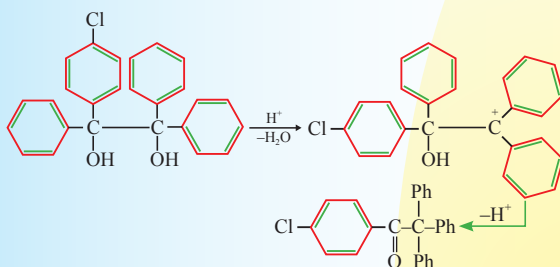
Bayer villiger oxidation



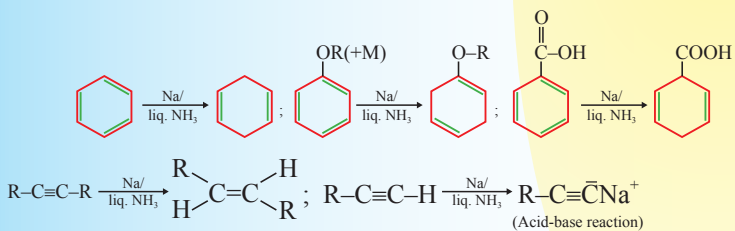
Cumene



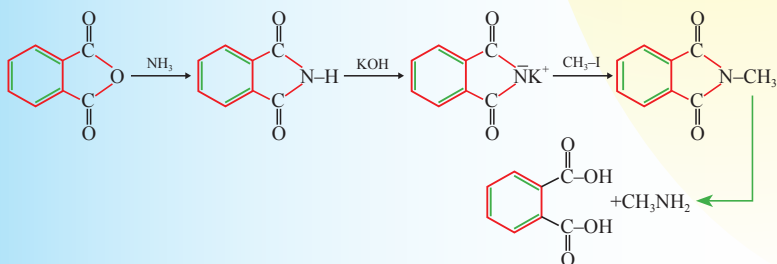
Pinacol-Pinacolone rearrangement

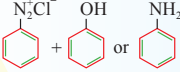
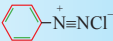


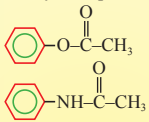
Birch Reduction



Gabriel Synthesis



Name	Reactant	Reagent	Product
Clemmensen Reduction	Aldehyde & Ketone	Zn-Hg/conc. HCl	Alkane
Coupling Reaction	 +  or 	NaOH (phenol) HCl (Aniline)	Azo Dye (Detection of OH or NH ₂ gr)
Diazotization		NaNO ₂ + HCl (0° – 5°C)	
Etard reaction	H ₃ C- 	CrO ₂ Cl ₂ /CS ₂	 (Benzaldehyde)
Fitting Reaction	Halo benzene	Na/Dry ether	Diphenyl
Friedel Craft alkylation	 + R-X	Anhydrous AlCl ₃	Alkyl Benzene
Friedel Craft acylation	 + R-C(=O)-Cl or (RCO) ₂ O	Anhydrous AlCl ₃	Acyl Benzene
Gattermann aldehyde synthesis	C ₆ H ₆	HCN+HCl/ZnCl ₂ / H ₃ O ⁺	Benzaldehyde
Gattermann-Koch reaction	C ₆ H ₆ (CO + HCl)	anhy AlCl ₃	Benzaldehyde
Hell-Volhard-Zelinsky reaction	carboxylic acid having α-hydrogen atom	Br ₂ /red P	α-halogenated carboxylic acid
Hoffmann mustard oil reaction	primary aliphatic amine + CS ₂	HgCl ₂ /Δ	CH ₃ CH ₂ -N=C=S+HgS (black)
Hunsdiecker reaction	Ag salt of carboxylic acid	Br ₂ /CCl ₄ , 80°C	alkyl or aryl bromide
Kolbe electrolytic reaction	alkali metal salt of carboxylic acid	electrolysis	alkane, alkene and alkyne
Mendius reaction	alkyl or aryl cyanide	Na/C ₂ H ₅ OH	primary amine

Name	Reactant	Reagent	Product
Rosenmund reduction	acid chloride	$\text{H}_2, \text{Pd}/\text{BaSO}_4$ boiling xylene	aldehyde
Sabatier-Senderens reaction	Unsaturated hydrocarbon	Ranye Ni/ H_2 , 200–300°C	Alkane
Sandmeyer reaction	$\text{C}_6\text{H}_5\text{N}_2^+\text{Cl}^-$	CuCl/HCl or CuBr/HBr or CuCN/KCN , heat	Halo or cyanobenzene
Gattermann Reaction	$\text{C}_6\text{H}_5\text{N}_2^+\text{Cl}^-$	$\text{Cu}/\text{HX}(\text{HBr}/\text{HCl})$	Halobenzene
Schotten-Baumann reaction	(phenol or aniline or alcohol)	$\text{NaOH} + \text{C}_6\text{H}_5\text{COCl}$	benzolytated product 
Stephen reaction	alkyl cyanide	(i) SnCl_2/HCl (ii) H_2O	Aldehyde
Williamson synthesis	alkyl halide	sodium alkoxide or sodium phenoxide	Ether
Wurtz-Fitting reaction	alkyl halide + aryl halide	$\text{Na}/\text{dry ether}$	alkyl benzene