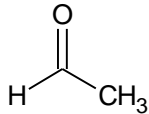
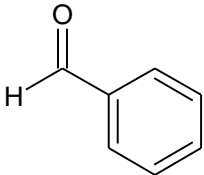
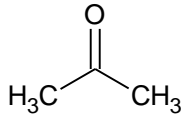


Aldehyde and Ketone

		Aldehyde		Ketone
		Acetaldehyde	Benzaldehyde	Acetone
Name		Acetaldehyde	Benzaldehyde	Acetone
Mol. Formula		C_2H_4O	C_7H_6O	C_3H_6O
Mol. Structure				
Physical state		Colorless-Liquid	Colorless-Liquid	Colorless-Liquid
Solubility		Soluble(Miscible) in water and acidize	Insoluble(immiscible) in water and HCl ,NaOH and natural	Soluble(Miscible) in water and natural
Carbonyl group	Nickelophilic addition 2,4DNPH 1ml of Aldehyde or Ketone+ 2,4DNPH <i>(But Ketone before add 2,4DNPH mixed with water)</i>	+ Ve result Yellow-orange Precipitate	+ Ve result Yellow-orange Precipitate	+ Ve result Yellow-orange Precipitate
	Oxidation and Reduction 1-KMnO4 1ml of Aldehyde +NaOH+Δ	+Ve result disappearance of the purple color of KMnO4 appearance of a brown precipitate	+Ve result disappearance of the purple color of KMnO4 appearance of a brown precipitate	-Ve result
Oxidation and Reduction	2-Fehling,s (A+B) 1ml of Aldehyde +Fehling,s + Δ	+Ve result Red ppt of copper oxide appears	+Ve result Red ppt of copper oxide appears (Long time)	-Ve result
	3-Ammonical silver Nitrate(Tollen,s) drop of silver Nitrate+ 10% NaOH black ppt+ NH4OH add to of Aldehyde +Δ	+Ve result Silver mirror	+Ve result Silver mirror	-Ve result