
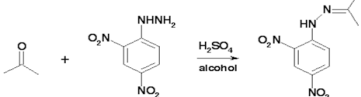


DISTINCTION TEST				
Name	Distinction Between	Reagent	Detection	Remarks
Lucas Test	1°, 2°, 3° Alcohols	Conc. HCL Anhyd. AlCl ₃	3°- immediate turbidity 2°- turbidity after sometime 1°- no turbidity	<i>OH Hatao Cl lagao + pani</i>
AgNO ₂ Test	Haloalkane & Haloarene	AgNO ₂	AgCl (white ppt)	<i>Cl hatao, NO₂ lagao</i>
Tollen's Reagent	Aldehyde & Ketone	[Ag(NH ₃) ₂] ⁺ Alakaline medium	Silver Mirror (Ag)	Aldehyde + [Ag(NH ₃) ₂] ⁺ → RCOO ⁻ + Ag↓ But Ketone + [Ag(NH ₃) ₂] ⁺ → X
Fehling's Test	Aldehyde & Ketone (Aromatic Aldehyde also)	2Cu ²⁺ + 4OH ⁻	Red-Brown ppt (Cu ₂ O)	-
Iodoform Test	Aldehyde & Ketone having minimum one CH ₃ group	NaOH + I ₂	Yellow ppt (CHI ₃)	CH ₃ CO ⁻ + NaOH + I ₂ → CHI ₃ (yellow ppt) CH ₃ CHOH + NaOH + I ₂ → CHI ₃ (yellow ppt)
NaHCO ₃ Test	RCOOH & Phenol RCOOH & Ester	NaHCO ₃	CO ₂	RCOOH + NaHCO ₃ → RCOONa + CO ₂ ↑
2,4 DNP Test	Either RCHO or Ketone		Orange red	
Bayer's Test	Double or triple bond present in straight chain	Br ₂ / H ₂ O	Decolorise	C + Br ₂ (Red) → -C(Br)-C(Br) (Colorless)
Azo-Dye Test	Aliphatic and Aromatic 1° Amines	HNO ₂	β-naphthol Orange dye (insoluble in water)	