
CHEMISTRY

7. All primary amines (R/Ar-NH₂) give **Carbyl Amine Test**
 $R-NH_2 + CHCl_3 + KOH(alc) \rightarrow R-NC + KCl + H_2O$
offensive smell
8. Aniline gives Azo Dye Test (Only for aromatic amines)
 $C_6H_5NH_2 + NaNO_2 + HCl \rightarrow C_6H_5N_2^+Cl^-$; then add β -naphthol orange dye
9. All alcohols (ROH) give **Na-metal test**
 $R-OH + Na \rightarrow R-ONa + H_2$
bubbles
10. For esters (RCOOR) : Hydrolyses first. Then see the products (acid & alcohol) and give a test to identify them.
11. All alkenes (C=C) and alkynes (C \equiv C) decolorizes Br₂ – water from red to colourless
12. **Lucas Test to distinguish primary, secondary and tertiary alcohols**
Lucas reagent: ZnCl₂/HCl
3^o-alcohol + Lucas reagent \rightarrow immediate turbidity
2^o-alcohol + Lucas reagent \rightarrow turbidity after sometime
1^o-alcohol + Lucas reagent \rightarrow no turbidity