

- 1. Follow-up test to differentiate white ppt (AgCl) from cream ppt (AgBr):  $Add\ dilute\ aqueous\ NH_3 \rightarrow AgCl\ completely\ dissolves\ in\ aqueous\ NH_3\ whilst\ AgBr\ only\ partially\ dissolves\ in\ NH_3\ whilst\ AgBr\ only\ partially\ dissolves\ only\ partially\ partial$
- 2. Why can acyl chloride also give positive results when  $Na_2CO_3$  /  $NaHCO_3$  is added? Acyl chloride reacts with water to give carboxylic acid and  $HCI \rightarrow both$  acids react with  $Na_2CO_3$  /  $NaHCO_3$  to give  $CO_2$  gas
- 3. The white ppt is actually the organic product formed due to the reaction between phenol / phenylamine and Br2 (electrophilic substitution)
- \*\*Effervescence\*\* of gas vs \*\*evolution\*\* of gas
- The choice of word depends on the solubility of the gas

  If the gas is very soluble (e.g., NH<sub>3</sub>), then it would be "gas evolved" because you need to heat the content to make the gas bubbles appear

  If the gas is not very soluble (e.g., CO<sub>2</sub>) and no heating was done, then it would be effervescence
- \*\*Glowing\*\* splint vs \*\*lighted\*\* splint
  - Glowing splint is to test O<sub>2</sub>
  - Lighted splint is to test H<sub>2</sub>
- After you \*\*filter\*\* the mixture, the observation \*\*must\*\* include 2 parts
  - \*<Colour>\* filtrate obtained
- \*<Colour>\* residue obtained