

8- Plausibility check

9- Certification

10- Filing

PART 1 SYSTEMATIC QUALITATIVE ANALYSIS



- Finding out the nature of substance and identity of its constituents is known as **qualitative analysis**.
- Qualitative analysis of **inorganic salts** means the identification of **cations** and **anions** present in the salt or a mixture of salts.
- Inorganic salts may be obtained by **complete** or **partial neutralization** of **acid** with **base** or vice-versa.
- In the formation of a salt, the part contributed by the **acid** is called **anion** and the part contributed by the **base** is called **cation**.
- For example, in the salts **CuSO₄** and **NaCl**, **Cu²⁺** and **Na⁺** ions are **cations** and **SO₄²⁻** and **Cl⁻** ions are **anions**.
- Qualitative analysis is carried out on various scales. Amount of substance employed in these is different.
- In **macro analysis**, **0.1** to **0.5** g of substance and about **20** mL of solution is used.