

- **Properties of precipitate**
 - *Filterability and purity of precipitates, Colloidal and Crystalline precipitates*
 - *Supersaturating and relative Super saturation ratio, Rate of crystal growth.*
 - *Types of Co precipitation, Homogeneous precipitation*
- **Precipitating reagent**
 - *properties and Types of inorganic precipitating agents, properties and types of organic precipitating agents, Selection of precipitating agents*
- **Precipitation Titration**
 - *Titration Curves for precipitating reactions, Factor affecting Precipitation Titration Curves*
 - *Indicators for precipitating titration*
 - *End point detection*
 - *Mohr, Volhard, and Fajan precipitating titration methods*
- **Complex formation titration**
 - *Stability and instability constants*
 - *Titration curves for complex formation reaction*
 - *End point detection for complex - formation titration*
 - *complexometric titration with EDTA*
 - *composition of EDTA as a function of pH*
 - *Effect of pH and K_f upon EDTA titration curves*
 - *Types of EDTA titration methods*
- **Non- Aqueous Media**
 - *Types of solvents used in non - aqueous titration, Autoprotolysis constant*
 - *Leveling and differentiating effect of solvent*
 - *Dielectric constant and ion - pair formation in non - aqueous solvents*
 - *Acid - base titration in non- aqueous media*
 - *Advantages of non - aqueous titration*
 - *Application of non - aqueous titration*

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