

CHAPTER OVERVIEW

1: Chemical Principles

Background to chemical principles involved in the isolation and identification of cations from mixtures are described. Solubility of ionic compounds in water and the solubility variation by common ion effect, pH effect, coordination complex formation, and redox reaction are described in relation to the selective precipitation or dissolution of salts of the cations.

[1.1: Solubility](#)

[1.2: Solubility equilibria](#)

[1.3: Varying solubility of ionic compounds](#)

[1.4: pH Buffers](#)

[1.5: Separation of cations in groups](#)

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