

Unit- IV Kinetic Methods of Analysis & Non aqueous Titrimetry

- (a) Kinetic methods of analysis: introduction, slow reactions, catalyzed reactions, methods of determination of catalyst concentration, extrapolation method for the determination of catalyst, variable time method, fixed time method, examples for the determination of toxic metals and anions using some typical kinetic reactions.
- (b) Non aqueous titrimetry : Classification of solvents and titrations for non aqueous titrimetry-
Types of reactions - Indicators .
- (i) Determination of acids
 - (ii) Determination of bases
 - (iii) Karl-Fisher reagent for the determination of moisture content in drugs and other samples.

Text books

1. Chemical analysis – H.A Laitinan, Mc Graw Hill Book Co
2. Standard methods of Chemical Analysis, Welcher
3. Technical Methods of Analysis, Griffin, Mc Graw Hill
4. Commercial Methods of Analysis, Foster Dee Snel and Frank M. Griffin, Mc Graw Hill Book Co.
5. Environmental Chemistry, Anil Kumar De, Wiley Eastern Ltd.
6. Environmental Analysis, S.M Khopkar (IIT Bombay)
7. Environmental Air Analysis, Trivedi and Kudesia, Akashdeep Pub.

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