

Experiments in Physical Chemistry

Topics and Examples of Experiment in Physical Chemistry

Topics	Example of Experiment
Stoichiometry	Back Titration
	Redox Titration: Iodimetric Titration
Energetics	Calorimetry (ΔH_{comb} / ΔH_{form} / ΔH_r)
Bonding	Calorimetry : Determination of Hydrogen Bond Strength
Kinetics	Continuous Method (Integrated Rate Equation)
	Initial Rate Method (Differential Rate Equation)
	Colorimetry (Monitor the absorbance of reaction mixture)
Acid-Base Equilibrium	Determination of K_a of Weak Acid
	Determination of conc. of 2 bases in mixture by "Double Indicator Method"
	Determination of K_{sp}

Key words frequently used:

standard solution, known concentration, known volume, equal volumes, regular time intervals, conical flask, volumetric flask, pipette, burette, precipitate, phenolphthalein, vacuum flask, polystyrene cup, calorimeter, volatile, vaporize, fume cupboard, weigh, rinse, filter, separate

(A) Titration

Criteria of a primary standard:

- It should be pure / it has a fixed composition.
- It is stable in air.
- It has high molecular / formula mass.
- It is very soluble in water.

Type of Titrations:

(1) Acid-base Titration

Indicator used:

Titration	Indicator used
Strong acid – strong base	Any indicator
Strong acid – weak base	Methyl orange
Weak acid – strong base	Phenolphthalein

Experiments In Physical Chemistry 7th International Edition

**Thirumalaisamy P.
Velavancorresponding**



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