

PHARMACEUTICAL ANALYSIS-BP102T

UNIT : II ACID-BASE TITRATIONS AND NON-AQUEOUS TITRATIONS

CLASS:17

TOPIC: ACIDIMETRY

ACIDIMETRY:

This term alkalimetry refers to determination of strength of basic substances and acidimetry refers to determination strength of acid.

In non-aqueous titrations, generally weak acids and basic substances are determined therefore in non-aqueous titrations alkalimetry is defined as titrations of weak bases and acidimetry is defined as titrations of weak acids.

Titration of weak acids:

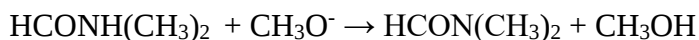
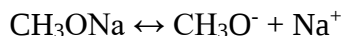
Titration of weak acids such as barbiturates, benzoic acid etc can be done using bases like alkali methoxides i.e sodium methoxides, potassium methoxides, lithium methoxides.

Non-aqueous solvents used in titration are ethylenediamine, dimethyl formamide etc.

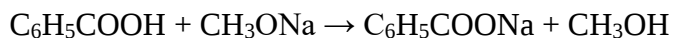
On dissolving benzoic acid in dimethylformamide following reaction,



Ionization of sodium methoxides take place as ,



Final reaction ,



RCP