

ACIDS BASES AND SALTS

Acids bases and salts are the three important group of chemical compounds which are useful to us in many ways. For example, stomach makes an acid which helps in the digestion of food, baking soda is a kind of base which is used in baking bread; where as common salt is used in cooking food. Hence we can say that these compounds are very essential for our everyday life.

INDICATORS FOR TESTING ACIDS AND BASES

“An indicator is a ‘dye’ that changes colour when it is put into an acid or a base.”

Types of indicator:-

There are two types of indicator

1) Natural indicator

2) Synthetic indicator

1) Natural indicator:-

Such indicators which are extracted naturally are called natural indicator.

eg:- Litmus, China rose, and Turmeric

2) Synthetic indicator:-

Such indicators which are prepared synthetically is called synthetic indicator.

eg:- Phenolphthalein, Methyl orange.

Testing acids and bases by using:-

a) Litmus:-

Litmus is a natural indicator which is extracted from lichen plants. Litmus is found in the form of paper strips as well as solution.

An acidic solution turns blue litmus to red.

A basic solution turns red litmus to blue.

b) China rose solution:-

China rose solution is made by using the petals of the china rose flower.

An acidic solution turns light pink china rose solution to dark pink .

A basic solution turns light pink china rose solution to green.

c) Turmeric:-

It is also a natural indicator.

An acidic solution does not change the colour of turmeric.

A basic solution turns yellow turmeric to red.

d) Phenolphthalein:-

It is a colourless synthetic solution.

An acidic solution does not show the effect with phenolphthalein.

A basic solution converts the colourless solution to pink.