

Salt Hydrolysis

Last year, salts were neutral i.e. when dissolved in water the pH was _____.

But salts can be acidic, neutral or basic:

Acidic	CuSO_4
Neutral	NaCl
Basic	K_2CO_3

Salts can be formed from the reaction of an acid and a base. _____ + _____

e.g.

The salt is formed from the _____ of the base.

and the _____ of the acid.

e.g.

e.g.

e.g.

An acidic salt is formed from _____ and a _____.

An neutral salt is formed from _____ and a _____.

An basic salt is formed from _____ and a _____.

A strong acid or base ionizes or dissociates 100 % of the time when dissolved in water. In water it is composed of mainly its ions.

A weak acid or base does not—in water it mainly remains as the acid or the base itself

e.g. HCl

e.g. CH₃COOH

A salt is an ion aggregate—a bunch of positive ions and negative ions held together by an electrostatic force of attraction.

When dissolved in water the ions _____.

e.g. AlCl₃

These ions can then either interact with the water or not:

Al³⁺

Cl⁻