

Acids

Acids+metals→Salt+Hydrogen gas

Metal Carbonate/Metal

Hydrogencarbonate+Acid→Salt+CO₂+Water

Acid+Base→Salt+Water

Metal Oxide+Acid→Salt+Water

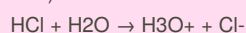
How strong are acids and base solutions

Acid or base in a water solution

When an acid or a base is dissolved in water, they get dissociated into ions.

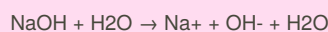
For example,

When hydrochloric acid is dissolved in water, it get dissociated into ions such as protons (H⁺ ions) and Cl⁻ ions as follows:



As there is an increase in the protons in the aqueous solutions, the solution is acidic in nature.

Similarly, when NaOH is dissolved in water, it get dissociated as,



As there is an increase in the hydroxyl ions in the solution, the solution is basic in nature.

Basic aqueous solution is called alkali.



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