Section I Acids

Goals

- To describe acids
- To make the distinction between strong and weak acids.
- To show the changes that take place on the particle level when acids dissolve in water.
- To show how you can recognize strong and weak acids.

The most important skills to develop in this section are to be able to recognize acids from names or formulas.

Identification of Acids and Bases: Identify each of the following as an Arrhenius strong acid, an Arrhenius weak acid, an Arrhenius strong base, or an Arrhenius weak base.

- a. HNO3 strong acid
- b. lithium hydroxide strong base
- c. K2CO3 weak base
- d. hydrofluoric acid weak acid

Section 2 Acid Nomenclature

Goal: To describe how to convert between names and chemical formulas for acids.

This section adds acids to the list of compounds for which you should be able to convert between names and formulas.

Formulas for Acids: Write the chemical formulas that correspond to the names

- (a) hydrofluoric acid: This name has the form of a binary acid, hydro(root)ic acid, so its formula is HF(aq).
- (b) phosphoric acid: This name has the form of an oxyacid, (root)ic acid, so it contains hydrogen, phosphorus, and oxygen. Phosphate is PO43□, so phosphoric acid is H₃PO₄.

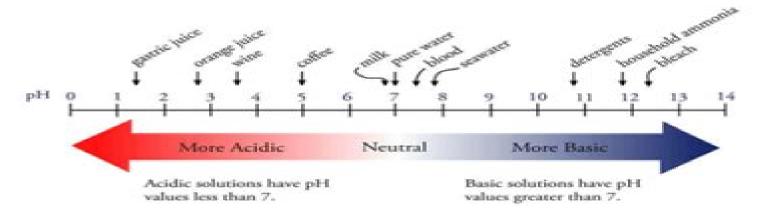
Naming Acids: Write the names that correspond to the chemical formulas

- (a) HI: This is a binary acid, so its name has the form hydrotroottic acid, HI(aa) is hydriodic acid.
- (b) HC₂H₂O₂: The name of the oxyanion C₂H₂O₂— is acetate, so HC₂H₂O₂ is acetic acid.

Section 3 Summary of Chemical Nomenclature

 Goal: To review the process for converting between names and formulas for binary and ternary covalent, ionic compounds, acids, and oxyacids compounds.

The ability to convert among names and formulas for chemical compounds is crucial to communication between chemists and chemistry students.



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