Topic 7 – Solutions

Lesson 6 – Effect of Solutes on the Physical Properties of Water

Terms to Know

Effects of Solute on Properties of Water –

Effects of Concentration on Properties of Water –

Nature of solute –

Pure water has the following properties:

* Boiling point at 100°C
* Freezing point at 0°C
* Vapor pressure of 101.3 kPa (at 100°C)
* No electrical conductivity

When a solute is dissolved in water to make a solution, these physical properties of water will change.

As the number of dissolved particles in the water INCREASES:

* Boiling point is increased or elevated
* Freezing point is decreased or depressed
* Vapor pressure is decreased or lowered
* Electrical conductivity is increased



