

Chemistry (New Book) - 9th Class Chemistry English Medium Chapter 1 Preparation

Q1. What types of problems are solved in analytical chemistry.

Ans 1: Problem solved in analytical chemistry: It involves separation, identification and determination of concentration of material things.

Q2. Why are supercritical fluids important.

Ans 1: Supercritical fluids are important because chemical reactions which may not be carried out in conventional solvents, may possibly be carried out in supercritical carbon dioxide.

Q3. Differentiate between Saturated Solution and Unsaturated Solution

Ans 1: Saturated Solution :

The solution in which larger amount of solute dissolve in large amount of a solute at a particular temperature.
36 g of sodium chloride in 100 g water at 20 °C is saturated solution.

Unsaturated Solution :

The solution in which larger amount of solute dissolve at a particular temperature.
30 g of sodium chloride in 100 g water at 20 °C is unsaturated solution.

Q4. Differentiate between colloidal solution and suspension.

Ans 1: Colloid:

In this solution the particles of solute do not homogenize with solvent
Starch protein is the example
In filtration the particles are being filtered with no residue

Suspension :

In suspension the particles do not dissolve with solvent
Mixture of chalk in water is the example
In filtration the particles are being separated and being residue.