

SOLUTIONS & COLLIGATIVE PROPERTIES

INTRODUCTION

In normal life we rarely come across pure substances. Most of these are mixtures containing two or more pure substances. Their utility or importance in life depends on their composition. The air around us is a mixture of gases primarily oxygen and nitrogen; the water we drink contains very small amounts of various salts dissolved in it. Our blood is a mixture of different components. Alloys such as brass, bronze, stainless steel, etc. are also mixtures. In this Unit, we will consider mostly liquid solutions and their properties.

1. SOLUTIONS

1.1 Definition

A solution is a homogeneous mixture of two or more than two components.

For example, common salt in water.

1.2 Classification

Solutions which contain two components in it are called **Binary Solutions**.

Substances which are used to prepare a solution are called as **Components**.

The component that is present in the largest quantity is known as **Solvent**. Solvent determines the physical state in which solution exists.

The other component present in lesser quantity in the solution is termed as **Solute**.

Each component may be solid, liquid or in gaseous state.

Type of Solution	Solute	Solvent	Common Examples
Gaseous Solutions	Gas	Gas	Mixture of oxygen and nitrogen gases
	Liquid	Gas	Chloroform mixed with nitrogen gas
	Solid	Gas	Camphor in nitrogen gas
Liquid Solutions	Gas	Liquid	Oxygen dissolved in water
	Liquid	Liquid	Ethanol dissolved in water
	Solid	Liquid	Glucose dissolved in water
Solid Solutions	Gas	Solid	Solution of hydrogen in palladium
	Liquid	Solid	Amalgam of mercury with sodium
	Solid	Solid	Copper dissolved in gold

1.3 Strength of Solutions

The amount of solute dissolved per unit solution or solvent is called Strength of solution. There are various methods of measuring strength of a solution. :

1. Mass Percentage (%w/w):

"It represents mass of a component present in 100 g of solution"

$$\text{Mass \% of a component} = \frac{\text{Mass of component in the sol.}}{\text{Total Mass of sol.}} \times 100$$

2. Volume percentage (%v/v):

"It represents volume of a component in 100 mL of solution"

$$\text{Vol. \% of a component} = \frac{\text{Vol. of component}}{\text{Total vol. of solution}} \times 100$$

New Chapter Solution Expha

M Lipman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

New Chapter Solution Expha:

This book delves into New Chapter Solution Expha. New Chapter Solution Expha is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into New Chapter Solution Expha, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to New Chapter Solution Expha
 - Chapter 2: Essential Elements of New Chapter Solution Expha
 - Chapter 3: New Chapter Solution Expha in Everyday Life
 - Chapter 4: New Chapter Solution Expha in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of New Chapter Solution Expha. This chapter will explore what New Chapter Solution Expha is, why New Chapter Solution Expha is vital, and how to effectively learn about New Chapter Solution Expha.
3. In chapter 2, this book will delve into the foundational concepts of New Chapter Solution Expha. This chapter will elucidate the essential principles that need to be understood to grasp New Chapter Solution Expha in its entirety.
4. In chapter 3, this book will examine the practical applications of New Chapter Solution Expha in daily life. This chapter will showcase real-world examples of how New Chapter Solution Expha can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of New Chapter Solution Expha in specific contexts. This chapter will explore how New Chapter Solution Expha is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about New Chapter Solution Expha. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of New Chapter Solution Expha.

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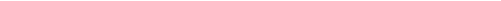

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