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FLINN
LABORATORY

Preparing and Diluting Solutions Student Laboratory Kit

Introduction

Solutions are homogeneous mixtures. The most common solutions are aqueous solutions, which are solutions in which water is the solvent.

Concepts

- 1. Solvent
- 2. Solute

Background

Preparing Solutions

The amount of solute that is dissolved in a solution is called the concentration. The concentration of a solution can be expressed in many ways. The most common way is to express it as a percentage, which is the ratio of the mass of the solute to the mass of the solution, multiplied by 100.

When a solution is prepared, the amount of solute that is dissolved is called the mass of the solute. The amount of solvent that is used is called the mass of the solvent. The total mass of the solution is the sum of the mass of the solute and the mass of the solvent.

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