

SMALL-SCALE LAB: Making a Solution

LABORATORY RECORD SHEET

Use with SECTION 18.2

SAFETY



Wear safety glasses and follow the standard safety precautions outlined on page 7 of this manual.

PURPOSE

To make a solution and use carefully measured data to calculate the solution's concentration in various units.

MATERIALS

- solid NaCl
- water
- 50-mL plastic volumetric bottle
- balance

PROCEDURE

Weigh a clean, dry, plastic volumetric bottle. Add solid NaCl to approximately the 5-mL mark on the bottle. Weigh the bottle again. Half fill the bottle with water and shake it gently until all the NaCl dissolves. Fill the bottle with water to the 50-mL mark and weigh it again.

ANALYSIS

Using your experimental data, record the answers to the following questions.

1. Percent by mass tells how many grams of solute are present in 100 g of solution.

$$\% \text{ by mass} = \frac{\text{mass of solute}}{\text{mass of solute} + \text{solvent}} \times 100$$

- a. Calculate the mass of the solute (NaCl).
- b. Calculate the mass of the solvent (water).
- c. Calculate the percent by mass of NaCl in the solution.

Small Scale Lab Making A Solution Answers

Ashton Lewis



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balanced and up to date overview of this fast expanding topic **Microscale Organic Laboratory** Dana W. Mayo, Ronald M. Pike, David C. Forbes, 2010-01-12 This is a laboratory text for the mainstream organic chemistry course taught at both two and four year schools featuring both microscale experiments and options for scaling up appropriate experiments for use in the macroscale lab It provides complete coverage of organic laboratory experiments and techniques with a strong emphasis on modern laboratory instrumentation a sharp focus on safety in the lab excellent pre and post lab exercises and multi step experiments Notable enhancements to this new edition include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation

Chemunity News ,1993 Newsletter for chemistry educators at the elementary high school and college levels *Heating, Piping, and Air Conditioning* ,1945 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section

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