

# Solubility

## Introduction

The purpose of this lab is to explore the relationship between temperature and solubility using a laboratory procedure. What is the effect of temperature on the solubility of a solid in a liquid? If the temperature of the liquid is increased, then more sugar will dissolve because warm solutions hold more solute than cold solutions. The independent variable for this lab is the temperature of the water and the dependent variable is the amount of sugar that can be dissolved.

## Materials and Procedures

The materials needed for this lab are:

1. 100 mL beaker
2. beaker tongs
3. spoon
4. stirring rod
5. thermometer
6. hot plate
7. hot pad
8. balance
9. 300 g sugar
10. ice
11. water

The procedures for this lab are as follows:

1. Measure the Mass of One Spoonful of Sugar
  - a. Use a weighing paper to measure the number of grams of sugar that are in one spoonful of sugar. Be sure to use a level spoonful, not a heaping spoonful, to help ensure that each time you add sugar, it is approximately the same amount. Record that value above the data table.
2. Measure Solubility in Cold Water
  - a. Place ice in a 100 mL beaker. Fill the beaker with water until the ice and water total 50 mL. Stir until just a small amount of ice remains. Let the temperature of the chilled water stabilize to obtain a temperature = 5°C (between 0°C and 10°C).
  - b. Record the temperature in °C.
  - c. Add a spoonful of sugar (again, a level spoonful, not a heaping spoonful). Stir using the stirring rod. Continue adding spoonfuls of sugar until the solution becomes saturated, stirring after each spoonful is added.
  - d. After the solution reaches saturation, record the amount of sugar (in spoonfuls) dissolved before the saturation point. Do not discard the solution; continue to use it throughout the rest of the procedure.

# Solubility Lab Experiment With Answers

**RJ Alexander**



## **Solubility Lab Experiment With Answers:**

Lab Experiments in Introductory Chemistry Phil Reedy, Donald J. Wink, Sharon Fetzer-Gislason, 2003-03-21 The manual contains laboratory experiments written specifically for the prep chem lab as well as for the general chemistry course Available as a complete manual or custom published at <http://custompub.whfreeman.com>      **Lab Experiments Modern Chemistry** Harold Clark Metcalfe, 1982      *ChemDiscovery Lab Manual* Olga I. Agapova, 2002      *Chemistry Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual      **Hard Bound Lab Manual Chemistry** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals      **Lab Experiments for Modern Chemistry** Tzimopoulo, 1990      Proceedings of the 6th International Conference on Fundamental and Applied Sciences Samsul Ariffin Abdul Karim, Mohd Fadhlullah Abd Shukur, Chong Fai Kait, Hassan Soleimani, Hamzah Sakidin, 2022-01-05 This book highlights latest advancement in Mathematics Physics and Chemistry With the theme of Innovative Science towards Sustainability and Industrial Revolution 4 0 ICFAS 2020 brings together leading experts scientific communities and industrialists working in the field of applied sciences and mathematics from all over the world to share the most recent developments and cutting edge discoveries addressing sustainability and industrial revolution 4 0 in the field The conference topics include green materials molecular modelling catalysis nanodevices and nanosystems smart materials applications solar cells technology computational mathematics data analysis and visualization and numerical analysis The contents of this book are useful for researchers students and industrial practitioners in the areas of Mathematics Physics and Chemistry as most of the topics are in line with IR 4 0      Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations      *Instructors Manual to Lab Manual* Ralph Petrucci, William Harwood, Geoffrey Herring, 2001      PE Lab Exp(Noncons)Mod Chem 90 Tzimopoulo, 1990      **Basic Laboratory Principles in General Chemistry** Fitzgerald B. Bramwell, 1990      *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction      Micro Experiments Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998      **Chemical Interactions** ,2005      Safety-Scale Lab Exp Biochem 2e Spencer L. Seager, Michael R. Slabaugh, 1994-05      **Selected Readings in General Chemistry** William Franklin Kieffer, Robert K. Fitzgerald, 1959      *Inquiry-based Experiments in Chemistry* Valerie Ludwig

Lechtanski,2000 Inquiry Based Experiments in Chemistry is an alternative to those cookbook style lab manuals providing a more accurate and realistic experience of scientific investigation and thought for the high school chemistry or physical science student Microscale and Miniscale Organic Chemistry Laboratory Experiments Allen M. Schoffstall,Barbara A. Gaddis,Melvin L. Druelinger,2000 This work offers a comprehensive introductory treatment of the organic laboratory techniques for handling glassware and equipment safety in the laboratory micro and mini scale experimental procedures theory of reactions and techniques applications and spectroscopy **Laboratory Manual for Principles of General Chemistry** J. A. Beran,2013-12-12 A two term manual for General Chemistry This supplementary manual focuses on chemical principles and techniques The Laboratory Manual for Principles of General Chemistry tenth edition provides a broad scope of experiments coupled with a clear layout for ease of use The manual delivers material for two or three course terms It also assists chemistry students in knowing how to time various techniques in the lab environment The companion manual is organized into topic sections such as Chemical and Physical Properties Atomic and Molecular Structure Gases and Solutions *Exploring Chemistry Laboratory Experiments in General, Organic and Biological Chemistry* Julie R. Peller,2003-04 This lab manual is organized and written to ensure that non science majors are comfortable with chemistry labs by making the experiments more applicable to students daily lives This approach also serves to make the experiments more understandable Many labs relate specifically to allied health fields

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