

### Pre-lab Questions: The Determination of the Empirical Formula of a Hydrate

A hydrate is an ionic compound (ionic salt) that contains water molecules in its structure. An anhydrate (also called anhydrous salt) is the substance that remains after the water is removed from a hydrate. When a hydrate is heated, the water molecules are removed in the form of steam, leaving behind the anhydrate. To determine the formula of a hydrate experimentally, the mole ratio of the water portion to the mole ratio of the anhydrous portion must be calculated.

#### Questions:

During a Chem 121 experiment, a student obtained the following data after heating a sample of calcium chloride hydrate  $\text{CaCl}_2 \cdot x\text{H}_2\text{O}$ , where  $x$  refers to the number of water molecules hydrated per molecule of  $\text{CaCl}_2$ .

#### Data:

|  |         |
|--|---------|
| Weight of crucible and lid (g)                   | 32.1070 |
| Weight of crucible, lid and hydrated salt (g)    | 36.8283 |
| Weight of crucible, lid and anhydrous salt after |         |
| a) 1 <sup>st</sup> heating (g)                   | 35.7347 |
| b) 2 <sup>nd</sup> heating (g)                   | 35.6682 |
| c) 3 <sup>rd</sup> heating (g)                   | 35.6679 |

Be sure to show the general formula used for each step.

1. Use this information to determine the weight of the hydrated salt ( $\text{CaCl}_2 \cdot x\text{H}_2\text{O}$ ):

a) the weight of the anhydrous salt ( $\text{CaCl}_2$ )

*Note:* the weight after the 2<sup>nd</sup> and 3<sup>rd</sup> heating are close enough in value to assume that constant weight has been reached and all the water molecules have been removed

b) the weight of water removed by heating

# Empirical Formula Determination Pre Lab Question Answers

**Arthur D. Baker**



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*Exploring Physical Science in the Laboratory* John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts

*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

*Stoichiometry Unit Project* Luann Marie Decker, 1998

**Laboratory Manual to Accompany Chemistry, [by] Stanley R. Radel, Marjorie H. Navidi** Arthur D. Baker, 1990

**Heath Chemistry** ,1993

*Laboratory Experiments to Accompany General, Organic and Biological Chemistry* Charles Anderson, David B. Macaulay, Molly M. Bloomfield, Joseph M. Bauer, 2013-02-04 This General Organic and Biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry An integrated approach is employed in which related general chemistry organic chemistry and biochemistry topics are presented in adjacent chapters This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students minds

Merrill Laboratory Chemistry L. Neal Carmichael, David F. Haines, 1990-10

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Air Pollution Abstracts ,1971

*N.A.P.C.A. Abstract Bulletin* United States. Environmental Protection Agency, 1971

**The Shock and Vibration Digest** ,1990

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*Fusion Energy Update* ,1986

Report Pennsylvania State

University. Agricultural Experiment Station,1916      *Scientific and Technical Aerospace Reports* ,1985      *U.S. Government Research Reports* ,1964      *Report* Pennsylvania State College,1916      **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1961-02      **Report of the Board of Trustees of the Agricultural College of Pennsylvania** Agricultural College of Pennsylvania. Board of Trustees,Pennsylvania State College,1916

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