

## Virtual Lab: Empirical Formula of a Hydrate

### Background:

Hydrates are ionic compounds (salts) that have a definite amount of water (water of hydration) as part of their structure. The water is chemically combined with the salt in a **definite ratio**. Ratios vary in different hydrates but are specific for any given hydrate.

The formula of a hydrate is represented in a special manner. The hydrate of copper sulfate in this experiment is listed below:



In the formula, the unit formula for the salt appears first, and the water formula is last. *The raised dot means that the water is loosely bonded to the salt.* The coefficient  $x$  stands for the number of molecules of water bonded to one unit of salt. This special formula, like all other formulas, illustrates the law of definite composition.

When hydrates are heated, the "water of hydration" is released as vapor. The remaining solid is known as the **anhydrous salt**. The general reaction for heating a hydrate is:



Some anhydrous salts can absorb moisture from the air to become hydrated. A common example is silica gel, made from sodium silicate which is usually packaged with optical or electronic devices shipped by boat. The silica gel protects the devices from high humidity.



We can find the percent of water in a hydrate experimentally by accurately determining the mass of the hydrate and the mass of the anhydrous salt. The difference in mass is due to the water lost by the hydrate. The percentage of water in the original hydrate can easily be calculated:

$$\text{Percent H}_2\text{O} = \frac{\text{mass of H}_2\text{O}}{\text{mass of hydrate}} \times 100$$

# Hydrates Lab Answers

**Rathoure, Ashok Kumar, Khade,  
Shankar Mukundrao**



## Hydrates Lab Answers:

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Natural Gas Hydrates John Carroll, 2020-05-12 Natural Gas Hydrates Fourth Edition provides a critical reference for engineers who are new to the field Covering the fundamental properties thermodynamics and behavior of hydrates in multiphase systems this reference explains the basics before advancing to more practical applications the latest developments and models Updated sections include a new hydrate toolbox updated correlations and computer methods Rounding out with new case study examples this new edition gives engineers an important tool to continue to control and mitigate hydrates in a safe and effective manner Presents an updated reference with structured comparisons on hydrate calculation methods that are supported by practical case studies and a current list of inhibitor patents Provides a comprehensive understanding of new hydrate management strategies particularly for multiphase pipeline operations Covers future challenges such as carbon sequestration with simultaneous production of methane from hydrates **Water in Crystalline Hydrates Aqueous Solutions of Simple Nonelectrolytes** Felix Franks, 2013-04-18 vi the information collected and discussed in this volume may help toward the achievement of such an objective I should like to express my debt of gratitude to the authors who have contributed to this volume Editing a work of this nature can strain long established personal relationships and I thank my various colleagues for bearing with me and responding sooner or later to one or several letters or telephone calls My special thanks once again go to Mrs Joyce Johnson who bore the main brunt of this seemingly endless correspondence and without whose help the editorial and referencing work would have taken several years F FRANKS Biophysics Division Unilever Research Laboratory Colworth Welwyn Colworth House Sharnbrook Bedford January 1973 Contents Contents of Volume 1 xv Contents of Volume 3 xvi Contents of Volume 4 xvii Chapter 1 The Solvent Properties of Water F Franks 1 Water the Universal Solvent the Study of Aqueous Solutions 2 Aqueous Solutions of Nonelectrolytes 5 2 1 Apolar Solutes 6 2 2 Polar Solutes 19 2 3 Ionic Solutes Containing Alkyl Residues Apolar Electrolytes 38 3 Aqueous Solutions of Electrolytes 42 3 1 Single Ion Properties 42 3 2 Ion Water Interactions 43 3 3 Interionic Effects 47 4 Complex Aqueous Mixtures 48 Chapter 2 Water in Stoichiometric Hydrates M Falk and O Knop 1 Introduction 55 2 Symmetry and Types of Environment of the H<sub>2</sub>O Molecule 2 in Crystals 57 vii Contents viii 2 1 Site Symmetry 57 Natural Gas Hydrates in Flow Assurance Carolyn Ann Koh, Amadeu Sum, 2010-10-12 With millions of kilometres of onshore and offshore oil and gas pipelines in service around the world pipelines are the life s blood of the world Notorious for disrupting natural gas production or transmission the formation of natural gas hydrates can cost a company hundreds of millions and

lead to catastrophic equipment breakdowns and safety and health hazards Written by an international group of experts Natural Gas Hydrates in Flow Assurance provide an expert overview of the practice and theory in natural gas hydrates with applications primarily in flow assurance Compact and easy to use the book provides readers with a wealth of materials which include the key lessons learned in the industry over the last 20 years Packed with field case studies the book is designed to provide hands on training and practice in calculating hydrate phase equilibria and plug dissociation In addition readers receive executable programs to calculate hydrate thermodynamics Case studies of hydrates in flow assurance The key concepts underlying the practical applications An overview of the state of the art flow assurance industrial developments

**Unconventional Fuels Part 2: The Promise of Methane Hydrates, Serial No. 111-32, July 30, 2009, 111-1**  
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Hydrates covers both the basics and advances needed for today's engineers to gain the required knowledge needed to tackle this challenging and exciting future energy source Understand real data and practice examples covering the newest developments of methane hydrate from chemical reservoir modelling and production testing Gain worldwide coverage and analysis of the most recent extraction production tests Cover the full range of emerging technologies and environmental sustainability including current regulations and policy outlook

**Carbon Dioxide Capture for Storage in Deep Geologic Formations - Results from the CO2 Capture Project** David C Thomas, Sally M Benson, 2016-06-03 Carbon Dioxide Capture for Storage in Deep Geologic Formations Results from the CO2 Capture Project *Energy Research Abstracts*, 1994-03 *Fossil Energy Update*, 1983 [Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability](#) Rathoure, Ashok Kumar, Khade, Shankar Mukundrao, 2022-10-07 The depletion of fossil fuels is a major issue in energy generation hence biomass and renewable energy sources especially bioenergy are the solution The dependence on bioenergy has many benefits to mitigate environmental pollution It is imperative that the global society adopts these alternative sustainable energy sources in order to mitigate the constant growth of climate change Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability highlights the challenges of energy conservation and current scenarios of existing fossil fuel uses along with pollution potential of burning fossil fuel It further promotes the inventory assessment and use of biomass pollution control and techniques This book provides the solution for climate change mitigation and sustainability Covering topics such as biofuel policies economic considerations and microalgae biofuels this premier reference source is an essential resource for environmental scientists environmental engineers government officials business leaders politicians librarians students and faculty of higher education researchers and academicians

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## **Hydrates Lab Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Hydrates Lab Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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