

The Mole Concept: Chemical Formula of a Hydrate – Lab Report Assistant

Exercise 1: Water of Hydration

Data Table 1. Alum Data.

Object	Mass (g)
Aluminum Cup (Empty)	2.5 (g)
Aluminum Cup + 2.00 grams of Alum	4.5 (g)
Aluminum Cup + Alum After 1 st Heating	3.6 (g)
Aluminum Cup + Alum After 2 nd Heating	3.5 (g)
Mass of Released H ₂ O	1.0 (g)
Molecular Mass of H ₂ O	18 g/mol
Moles of Released H ₂ O	0.0556 mol

Questions:

- A) Calculate the moles of anhydrous (dry) $KAl(SO_4)_3$ that were present in the sample. Show all work including units.
- B) Calculate the ratio of moles of H_2O to moles of anhydrous $KAl(SO_4)_3$. Show all work including units. *Note: Report the ratio to the closest whole number.*
- C) Write the empirical formula for the hydrated $KAl(SO_4)_3$, based on your experimental results and answer to Question 2. Show all work including units. *Hint: if the ratio of moles of H_2O to moles of anhydrous $KAl(SO_4)_3$ was 4, then the empirical formula would be: $KAl(SO_4)_3 \cdot 4H_2O$.*
- D) Describe any visual differences between the hydrated sample and the dried, anhydrous form.
- E) How would the following errors affect the empirical formula for the compound? That is, will these errors cause the calculated number of moles of water in the hydrate to be artificially high or low?
 - a. The student ran out of time and did not do the second heating. Explain how this error will affect the calculation for the number of moles of water in the hydrate? Will the final answer be artificially high or low? How do you know?
 - b. The student recorded the mass of the cup + sample incorrectly and started with 2.20 g of hydrated compound but used 2.00 g in the calculations. Explain how this error will affect the calculation for the number of moles of water in the hydrate? Will the final answer be artificially high or low? How do you know?

Hydrates Lab Answers

Ralph Thomas Myers



Hydrates Lab Answers:

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 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 **E3 Chemistry Review Book - 2018 Home Edition (Answer Key Included)** Effiong Eyo, 2017-10-20 With Answer Key to All Questions Chemistry students and homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Review Book 2018 With E3 Chemistry Review Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with solutions to study and follow Several practice multiple choice and short answer questions at the end of each lesson to test understanding of the materials 12 topics of Regents question sets and 3 most recent Regents exams to practice and prep for any Regents Exam This is the Home Edition of the book Also available in School Edition ISBN 978 197836229 The Home Edition contains an answer key section Teachers who want to recommend our Review Book to their students should recommend the Home Edition Students and and parents

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Teaching High School Science Through Inquiry Douglas Llewellyn, 2005 This is the secondary school version of Llewellyn's strong Corwin debut *Inquire Within Implementing Inquiry Based Science Standards* 2000 This book focuses on raising a teacher's capacity to teach science through an inquiry based process implementing inquiry as stated by the national standards *Department of the Interior and Related Agencies Appropriations for Fiscal Year 2000* United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of the Interior and Related Agencies, 2000 A Laboratory Program for General Chemistry Joshua Romine Morton, Donald Roop Clippinger, Lawrence Powell Eblin, 1944

Teaching High School Science Through Inquiry and Argumentation Douglas Llewellyn, 2013 For Grades 9-12 this new edition covers assessment questioning techniques to promote learning new approaches to traditional labs and activities that emphasize making claims and citing evidence Biodiesel Energy and Methane Hydrate Research United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research, Development, Production, and Regulation, 1998 **Applying Food and Other Household Materials to Beginning Chemistry Experiments** Deborah Ann Pudell, 2000 **PE Lab Exp(Noncons) Mod Chem 90** Tzimopoulo, 1990 **Petrophysics**, 2002 Holt Chemistry Ralph Thomas Myers, 2004 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 **Earth**, 2010

Lab Experiments for Modern Chemistry Tzimopoulo, 1990 Lab Experiments Modern Chemistry Harold Clark Metcalfe, 1982 **Alaska Gas Hydrate Planning Workshop Proceedings** T. S. Collett, Robert F. Swenson, Brenda S. Pierce, 2005 **British Pharmaceutical Codex**, 1994

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francesco borromini ,brɔrə'mi:ni 1 italian fran'tʃesko borro'mi:ni byname of francesco castelli italian ka'stelli 25 september 1599 2 august 1667 2 was an italian architect born in the modern swiss canton of ticino 3 who with his contemporaries gian

lorenzo bernini and pietero da cortona was a leading

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summary of francesco borromini borromini was one of the most innovative architects of the seventeenth century and one third of the trio of artists that defined the roman baroque style but unlike the sculptor architect gian lorenzo bernini and the painter architect pietero da cortona borromini was consumed only with an architectural practice

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