

## Can You Find the Mole Ratio?

In this experiment, baking soda ( $\text{NaHCO}_3$ ) reacts with hydrochloric acid ( $\text{HCl}$ ) to produce sodium chloride, carbon dioxide, and water. You will determine the moles of reactant used and moles of product produced using both the lab data and stoichiometry and compare the two.

Data Table:

mass of test tube and baking soda	19.46 g
mass of empty test tube	19.21 g
mass of baking soda	0.25 g
mass of test tube and sodium chloride	19.39 g
mass of empty test tube	19.21 g
mass of sodium chloride	0.18 g

Conclusion Questions:

1. Calculate the number of moles of baking soda used in the lab.

$$0.25 \text{ g NaHCO}_3 \left( \frac{\text{mole}}{84.01 \text{ g}} \right) = 0.00297 \text{ moles of NaHCO}_3$$

2. Calculate the number of moles of sodium chloride produced in the lab.

$$0.18 \text{ g of NaCl} \left( \frac{\text{mole}}{58.44} \right) = 0.0031 \text{ moles of NaCl}$$

3. What is the experimental mole ratio of baking soda ( $\text{NaHCO}_3$ ) to sodium chloride ( $\text{NaCl}$ )?

$$1:1$$

4. Write a balanced equation for the reaction that took place in the experiment.



5. According to the balanced equation, what is the theoretical mole ratio of baking soda to sodium chloride?

$$1:1$$

6. Was the experimental mole ratio exactly the same as the theoretical mole ratio? If not, give some possible reasons.

Yes ~ if it wasn't some reasons

side reactions  
measurement

transfer  
contamination

# Lab Stoichiometry Datasheet Key

**L Manion**



## Lab Stoichiometry Datasheet Key:

*Pp/Chemistry BarCharts, Inc.,2008-06-18      Publications of the National Institute of Standards and Technology ...*  
*Catalog National Institute of Standards and Technology (U.S.),1991      **Resources in Education** ,1974      Archaeological*  
*Conservation Using Polymers Chris Wayne Smith,2003-01-08* Over the years archaeologists have developed a number of techniques for conserving historical artifacts for future generations Along with these techniques researchers have developed a series of ethical principles for treating materials in a way that allows them to be not only observed and analyzed for the present but also in re studied in the future Conservation techniques used up to now however have provided artifacts only a limited lifespan and in some cases they do not work well with water logged materials Within the past few years archaeological chemistry and concerns of longevity testing have become central issues in the development of conservation treatment strategies This problem became particularly acute when members of the Texas A M Nautical Archaeology Program were called on to conserve artifacts from La Belle the sunken ship of La Salle excavated in the 1990s off the coast of Texas by the Texas Historical Commission Entombed in the mud that sealed it from decay for over three centuries C Wayne Smith writes in his introduction the waterlogged hull and hundreds of thousands of fragile artifacts including brain matter in the skull of one unfortunate sailor would have been a futile conservation effort without new preservation technologies Working with Dow Corning Corporation Texas A M s Archaeological Preservation Research Lab APRL and the Conservation Research Lab CRL Smith and his colleagues in A M s Nautical Archaeology Program set out to develop a series of chemistries and techniques that would provide successful and affordable treatment strategies for organic materials In this ground breaking description of the processes and materials that were developed Smith explains these techniques in ways that will allow museums and historical societies to conserve more stable artifacts for traveling exhibits and interactive displays and will allow researchers to conserve new discoveries without sacrificing important information Beyond the advantages offered by polymer replacement Passivation Polymer technologies Smith considers a concept seldom addressed in conservation artistry Variance in equipment relative humidity laboratory layout intended results and level of expertise all affect researchers ability to obtain consistent and aesthetically correct samples and require a willingness to explore treatment parameters and combinations of polymers Smith prescribes an effective layout for day to day conservation of small organic artifacts and then examines some of the mechanical techniques used to process various organic materials from marine and land sites He concludes with an exploration of new tools and technologies that can help conservators devise more effective conservation strategies including CT scans and Computer Aided Design images and stereolithography All archaeologists conservators and museologists working with perishable artifacts will benefit from the careful explication of these new processes and those wishing to incorporate some or all of them will find the step by step instructions for doing so      **Research in Education** ,1974      *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States.*

Environmental Protection Agency. Library Systems Branch,1974      *Environmental Health Perspectives* ,1999      *Methane: A Bioresource for Fuel and Biomolecules* Obulisamy Parthiba Karthikeyan,Deepak Kumaresan,Marina G. Kalyuzhanaya,Kirsten Heimann,Chettiyappan Visvanathan,Nidia S. Caetano,2020-04-03      **Proceedings of the International Conference on Lasers '78** Vincent J. Corcoran,1979      *SourceBook Version 2.1* ,1998      U.S. *Environmental Protection Agency Library System Book Catalog* United States. Environmental Protection Agency. Library Systems Branch,1970 Includes the monographic collection of the 28 libraries comprising the Library System of the Environmental Protection Agency      **Using Thermodynamic Sorption Models for Guiding Radioelement Distribution Coefficient (Kd) Investigations** OECD Nuclear Energy Agency,2001 This conference proceedings examines how best to take radionuclide sorption reactions into account in repository performance assessment models      *Science Books & Films* ,1979      **British Technology Index** ,1977      A Stoichiometry Unit David Callaghan,2004      **Stoichiometry Unit Project** Luann Marie Decker,1998

## **Lab Stoichiometry Datasheet Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Lab Stoichiometry Datasheet Key**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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