

Lab 7: Preparation and Characterization of Surface-Modified SiO_2 Nanoparticles

Surface modification is increasingly being recognized as a useful chemical modification by an effective way to impart that surface with an active moiety that can undergo a reaction to the surface. This lab aims to demonstrate the synthesis of surface-modified SiO_2 nanoparticles using a sol-gel process. The synthesis of surface-modified SiO_2 nanoparticles is a key step in the synthesis of functionalized nanoparticles.



(1)

The synthesis of surface-modified SiO_2 nanoparticles is shown below:



(2)

Surface modification of nanoparticles is a key step in the synthesis of functionalized nanoparticles. The synthesis of surface-modified SiO_2 nanoparticles is a key step in the synthesis of functionalized nanoparticles. The synthesis of surface-modified SiO_2 nanoparticles is a key step in the synthesis of functionalized nanoparticles. The synthesis of surface-modified SiO_2 nanoparticles is a key step in the synthesis of functionalized nanoparticles.

7.1: Preparation of Surface-Modified SiO_2 Nanoparticles

Materials and Reagents:

Silica gel (100 g)

Hydrochloric acid (100 mL)

Silica gel (100 g)

Silica gel (100 g)



Procedure:

1. Weigh out 100 g of silica gel and 100 mL of hydrochloric acid.
2. Add the silica gel to the hydrochloric acid and stir for 1 hour.
3. Add the silica gel to the hydrochloric acid and stir for 1 hour.
4. Add the silica gel to the hydrochloric acid and stir for 1 hour.
5. Add the silica gel to the hydrochloric acid and stir for 1 hour.
6. Add the silica gel to the hydrochloric acid and stir for 1 hour.
7. Add the silica gel to the hydrochloric acid and stir for 1 hour.
8. Add the silica gel to the hydrochloric acid and stir for 1 hour.
9. Add the silica gel to the hydrochloric acid and stir for 1 hour.
10. Add the silica gel to the hydrochloric acid and stir for 1 hour.

Thiosulfate Standardization Chemistry Lab

Alexander Stone Macnow



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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 Chemistry in Context -

Laboratory Manual Graham Hill, John Stranger Holman, John Holman, 2001 The laboratory manual and study guide supports your teaching with a broad range of practicals emphasising safety and risk assessment It is an essential companion to Chemistry in Context and can also be used alongside other Advanced Chemistry books It offers practicals with detailed instructions for open ended investigations and opportunities for assessed practical work in the four skill areas of planning implementing analysing and evaluating **Laboratory Manual in Quantitative Chemical Analysis**, **A Laboratory**

Manual of Physiological Chemistry David Wright Wilson, 1928 **Environmental Laboratory Exercises for Instrumental Analysis and Environmental Chemistry** Frank M. Dunnivant, 2004-11-26 A comprehensive set of real world environmental laboratory experiments This complete summary of laboratory work presents a richly detailed set of classroom tested experiments along with background information safety and hazard notes a list of chemicals and solutions needed data collection sheets and blank pages for compiling results and findings This useful resource also Focuses on environmental i.e. dirty samples Stresses critical concepts like analysis techniques and documentation Includes water air and sediment experiments Includes an interactive software package for pollutant fate and transport modeling exercises Functions as a student portfolio of documentation abilities Offers instructors actual samples of student work for troubleshooting notes on each procedure and procedures for solutions preparation **Fundamentals of Chemistry: Laboratory Studies** Frank

Brescia, 2012-12-02 Fundamentals of Chemistry Laboratory Studies Third Edition is a manual that provides instruction on techniques of chemical laboratory operations Each experiment is discussed in terms of the major objective the experimental approach to the objective the measurements or observations to be made and the calculation and interpretation of results Topics covered include manipulation weights and measures molecular weight acids and bases gravimetric and volumetric stoichiometry and thermochemistry This book is comprised of 43 chapters divided into 14 sections and begins by presenting general information on metric and other units common laboratory equipment and chemical laboratory methods The first chapter introduces the reader to the Bunsen burner and the principles of glass working followed by a discussion on mass and volume measurements including the determination of density The following chapters focus on states of matter molecular weight stoichiometry and intermolecular forces Preparations and syntheses are also considered along with chemical equilibrium and electrochemistry The final section is devoted to qualitative analysis particularly of cations and anions This monograph is intended primarily for students of chemistry *Laboratory Manual for Principles of General Chemistry* Jo

Allan Beran,2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

Laboratory Manual of Physiological Chemistry Meyer Bodansky,Marion Spencer Fay,1928 **Journal of the American Chemical Society** American Chemical Society,1924 Proceedings of the Society are included in v 1 59 1879 1937

MCAT General Chemistry Review Alexander Stone Macnow,2016-07-05 The most efficient learning for the MCAT results you want Kaplan s MCAT General Chemistry Review has all the information and strategies you need to score higher on the MCAT This book features more practice than any other guide plus targeted subject review questions opportunities for self analysis a complete online center and thorough instruction on all of the general chemistry concepts necessary for MCAT success from the creators of the 1 MCAT prep course page 4 of cover

Laboratory Manual for Principles of General Chemistry J. A. Beran,Mark Lassiter,2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don t write experiments A student s scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition s experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

Laboratory Manual of Medicinal Chemistry III Dr. Niranjan S. Mahajan,Dr. Shrinivas D. Joshi,Dr. T. Prabha,Mr. Shrikrishna S. Maske, We are very pleased to put forth the Laboratory Manual of Medicinal Chemistry III This manual is prepared as per PCI B Pharm course regulations 2014 and is divided into three sections for laboratory techniques determination of oil values and preparations of organic compounds The methods of all the experiments are added from the recent research papers so that the advancement in the methods or apparatus can be addressed This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes theory resources

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Laboratory Manual of Pharmaceutical Organic Chemistry II Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Niranjana S. Mahajan, Dr. Rahul P. Umbarkar, 2024-02-16 We are very pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry II This manual is prepared as per PCI B Pharm course regulations 2014 and is divided into three sections for laboratory techniques determination of oil values and preparations of organic compounds The methods of all the experiments are added from the recent research papers so that the advancement in the methods or apparatus can be addressed

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Journal of Industrial and Engineering Chemistry, 1922

The Journal of Industrial and Engineering Chemistry, 1913

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