

III. Experimental Procedures:

A. Synthesis of Acetylsalicylic acid (Aspirin):

Please write the following chemical reaction scheme using the systematic IUPAC name for acetic anhydride and salicylic acid and acetylsalicylic acid (aspirin) as the product.

Salicylic acid and acetic anhydride react to produce acetylsalicylic acid (aspirin) and acetic acid (CH_3COOH). The acetylsalicylic acid is precipitated by addition of water and cooling and then filtered out using a Buchner funnel. The raw product is then re-precipitated several more times for purification steps.

B. Draw the structure of Aspirin. Label all functional groups.



C. Why is acetic anhydride used to make the acetyl rather than acetic acid?

Acetic anhydride is used because it is a more reactive acetylating agent than acetic acid. Acetic acid is a weak acid and does not react with salicylic acid to form the aspirin molecule.

D. Aspirin is insoluble in water. Explain whether any of the acetic anhydride byproducts are likely to be water soluble.

Aspirin is not water soluble because it is a weak acid and does not react with water. The acetic anhydride byproducts are likely to be water soluble because they are more reactive than aspirin.

Experimental Procedures For Aspirin

RC Schank



Experimental Procedures For Aspirin:

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

Novel Combination Therapies for the Treatment of Solid Cancers Khalid A. El Sayed, Nehad M. Ayoub, 2021-12-22

Reading and Understanding Research Lawrence F. Locke, Stephen J. Silverman, Waneen Wyrick Spirduso, 2004-03-03 This edition contains new material on the twelve steps for doing different types of research studies a new chapter on the utilization of research and expanded coverage of qualitative research topics The authors presume no special background in research and begin by introducing and framing the notion of reading research within a wider social context Next they offer insight on when to seek out research locating and selecting the right reports and how to help evaluate research for trustworthiness A step by step reading of reports from qualitative and quantitative studies follows and the final chapters examine in greater detail the different types of research to be encountered and how to examine the research more critically

Hemostasis and Stroke Zsuzsa Bagoly, Daniel Behme, Johannes Kaesmacher, Sara Martinez De Lizarrondo, 2021-09-30

Gastrointestinal Defence Mechanisms Gy. Mózsik, O. Hänninen, T. Jávör, 2013-10-22 Advances in Physiological Sciences Volume 29 Gastrointestinal Defence Mechanisms is a collection of papers that details the findings of research studies on the theoretical and practical aspects of the gastrointestinal defense mechanisms The title first covers circulation and mucosal defense and then proceeds to tackling the association of gastrointestinal mechanisms with the secretory functions Next the selection deals with the resistance in gastric mucosa and mucosal energy provision The text also discusses cell renewal and toxicity along with biotransformation and nutrition In Part VII the title details the immunomechanisms of defense at mucosa The last part covers the second line

defense at liver and enterohepatic circulation The book will of great interest to both researchers and practitioners of medical fields concerned with the digestive system Advertising of proprietary medicines United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly, United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly and Anticompetitive Activities, 1971 **The Journal of Pharmacology and Experimental Therapeutics** ,1925 *Experiments in Organic Chemistry* Forris Jewett Moore, Henry Weedon Underwood, 1927 **Laboratory Manual** Jo A. Beran, 1990 *Microscale and Miniscale Organic Chemistry Laboratory Experiments* Allen M. Schoffstall, Barbara A. Gaddis, Melvin L. Druehlinger, 2000 This work offers a comprehensive introductory treatment of the organic laboratory techniques for handling glassware and equipment safety in the laboratory micro and mini scale experimental procedures theory of reactions and techniques applications and spectroscopy

American Journal of Veterinary Research ,2002 Vols for 1956 include selected papers from the proceedings of the American Veterinary Medical Association *Indian Journal of Experimental Biology* ,2008 **Toxicological Profile for Chloroform** ,1997 **Experimental Pharmacology** Dennis Emerson Jackson, 1917 **Essentials of Epidemiology in Public Health** Ann Aschengrau, George R. Seage, 2013-06-03 Successfully tested in the authors courses at Boston University and Harvard University this text combines theory and practice in presenting traditional and new epidemiologic concepts Broad in scope the text opens with five chapters covering the basic epidemiologic concepts and data sources A major emphasis is placed on study design with separate chapters devoted to each of the three main analytic designs experimental cohort and case control studies Full chapters on bias confounding and random error including the role of statistics in epidemiology ensure that students are well equipped with the necessary information to interpret the results of epidemiologic studies An entire chapter is also devoted to the concept of effect measure modification an often neglected topic in introductory textbooks Up to date examples from the epidemiologic literature on diseases of public health importance are provided throughout the book The Third Edition is a thorough update that offers New examples the latest references and public health statistics Nearly 50 new review questions Updated discussion of certain epidemiologic methods New figures depicting epidemiologic concepts Clinical Excerpts ,1903 Excerpts from various medical journals recommending the use of certain pharmaceutical products **Proceedings of the Society for Experimental Biology and Medicine** Society for Experimental Biology and Medicine (New York, N.Y.), 1921 List of members in each volume **Safety-Scale Lab Exp Biochem 2e** Spencer L. Seager, Michael R. Slabaugh, 1994-05 **Journal of Pharmaceutical Sciences** ,1965 **Medical Times** ,1914

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