

May 2009 TZ1 Question 1

- (b) For part of her extended essay investigation into the efficiency of the process, a student reacted a pure sample of a vegetable oil (where $R = C_{17}H_{33}$) with methanol. The raw data recorded for the reaction is below.

Mass of oil	= 1013.0 g
Mass of methanol	= 200.0 g
Mass of sodium hydroxide	= 3.5 g
Mass of biodiesel produced	= 811.0 g

The relative molecular mass of the oil used by the student is 885.6. Calculate the amount (in moles) of the oil and the methanol used, and hence the amount (in moles) of excess methanol.

[3]

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May 2009 TZ2 Question 1

- (b) A student reacted some salicylic acid with excess ethanoic anhydride. Impure solid aspirin was obtained by filtering the reaction mixture. Pure aspirin was obtained by recrystallization. The following table shows the data recorded by the student.

Mass of salicylic acid used	3.15 ± 0.02 g
Mass of pure aspirin obtained	2.50 ± 0.02 g

- (i) Determine the amount, in mol, of salicylic acid, $C_6H_4(OH)COOH$, used.

[2]

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- (ii) Calculate the theoretical yield, in g, of aspirin, $C_6H_4(OCOCH_3)COOH$.

[2]

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Guillaume Favre



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Production Chemicals for the Oil and Gas Industry Malcolm A. Kelland, 2014-03-13 This text discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore It reviews all past and present classes of production chemicals providing numerous difficult to obtain references Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance Where known it also details the environmental aspects of the chemicals discussed and their success in the field

Flow Assurance in Pipelines Saeid Mokhatab, Juan Manzano-Ruiz, Antonin Chapoy, Jonathan J. Wylde, 2025-11-27 Flow assurance is critical for effective design and operation of hydrocarbon production and transmission systems The aim is to ensure safe and economical flow of hydrocarbon fluids from the source to the markets As future development of hydrocarbon resources moves into more challenging environments the importance of flow assurance is becoming more asserted Written by an internationally recognized team of experts Flow Assurance in Pipelines A Reference Guide is a unique well researched and comprehensive work in the flow assurance discipline that addresses the stages of a flow assurance study and identifies how they relate to the pipeline system design and operation This book is a fundamental resource for flow assurance engineers pipeline engineers operators and production chemists providing a detailed explanation of basic flow assurance issues that can arise in the pipeline systems and discusses practical methods to solve those issues safely and cost effectively Provides a systematic understanding of the concept of flow assurance Discusses flow assurance challenges in pipelines and how to overcome them Reviews latest flow assurance technologies engineering principles and practices Describes the best operating philosophies of pipeline systems to minimize flow assurance risks Explores sustainable pipeline applications in the transition to a low carbon economy

Catalog of Instructional Films (16mm, Super 8, and 8mm) for College Chemistry Advisory Council on College Chemistry, 1969 [Medical Aspects of Biological Warfare, 2e](#) Joel Bozue, Christopher K. Cote, Pamela J. Glass, The Borden Institute, U.S. Army Medical Department, 2018-08-01 Reflecting the critical threat posed by biological warfare and terrorism in a post 9 11 world Medical Aspects of Biological Warfare 2e addresses the weaponization of biological agents categorizing potential agents as food waterborne or agricultural agents or toxins and discusses their respective epidemiology Recent advances in biomedical knowledge are presented that include descriptions of individual agents and the illnesses induced Authors discuss biotoxins and explain methods for early identification for anthrax plague smallpox alphaviruses and staphylococcal enterotoxins Case studies and research on successful management practices treatments and antidotes are also included Contains updated and revised material since previous 2007 edition Previous Print Hardcover ISBN 9780160797316 eBook 9780160872389 Related products More published products by The Borden Institute U S Army Medical Department AMEDD are here <https://bookstore.gpo.gov/agency/army-medical-department/amedd> Arms Weapons collection is available here <https://bookstore.gpo.gov/catalog>

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Production and Remediation of Carbon and Pollutants Eric Lichtfouse, Jan Schwarzbauer, Didier Robert, 2015-09-09 This book details first the chemistry of hydrogen production from biomass Solutions to the CO₂ issue are given in three chapters which describe CO₂ photo catalytic reduction CO₂ sequestration in terrestrial biomass and plants as renewable fuels Further chapters review the selenium cycle in ecosystems advanced processes to treat water and ecological ways to dye textiles Society growth during the last century has almost entirely relied on the carbon economy which is the use of fossil fuels for energy and materials The carbon economy has provided and will still provide many benefits However the increasing use of fossil fuels is partly responsible for the increase of atmospheric CO₂ concentrations and in turn global warming There is therefore an urgent need for cleaner fuels such as hydrogen as well as a need for a carbon neutral economy where each emitted CO₂ molecule is fast sequestered in plants algae soils sub soils and sediments *Population Genomics: Marine*

Organisms Marjorie F. Oleksiak, Om P. Rajora, 2019-12-31 Population genomics has provided unprecedented opportunities to unravel the mysteries of marine organisms in the oceans depths The world's oceans which make up 70% of our planet encompass diverse habitats and host numerous unexplored populations and species Population genomics studies of marine organisms are rapidly emerging and have the potential to transform our understanding of marine populations species and ecosystems providing insights into how these organisms are evolving and how they respond to different stimuli and environments This knowledge is critical for understanding the fundamental aspects of marine life how marine organisms will respond to environmental changes and how we can better protect and preserve marine biodiversity and resources This book brings together leading experts in the field to address critical aspects of fundamental and applied research in marine species and share their research and insights crucial for understanding marine ecosystem diversity and function It also discusses the challenges opportunities and future perspectives of marine population genomics *Mechatronics Engineering, Computing and Information Technology* X.D. Xu, Bin Li, Q.M. Lu, X.Y. Yan, J.L. Li, 2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014 April 9 10 2014 Shanghai China *Encyclopedia of Polymer Applications, 3 Volume Set* Munmaya Mishra, 2018-12-17 Undoubtedly the applications of polymers are rapidly evolving Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day to day challenges leading to improvements in quality of life The Encyclopedia of Polymer Applications presents state of the art research and development on the applications of polymers This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers This comprehensive multi volume reference includes articles contributed from a diverse and global team of renowned researchers It offers a broad based perspective on a multitude of topics in a variety of applications as well as detailed research information figures tables illustrations and

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Nature Sir Norman Lockyer,1908 **Mining and Engineering World** ,1913 Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries,1979 **Report on the Health of Colorado's Forests** ,2015 **Memoirs of the Faculty of Science, Kyoto University** Kyōto Teikoku Daigaku. Rigakubu,1937 Vol 1 25 include articles in mathematics published later as a separate series Ser A Mathematics *The Engineer* ,1914 *Union List of Serials of the California State University* California State University,1986 *Arctic Potential* Rex W. Tillerson,2015 This report was prepared in response to Secretary of Energy Ernest J Moniz s request and provides a comprehensive study that considers research and technology opportunities to enable prudent development of U S Arctic offshore oil and natural gas resources Today there is both increasing interest in the Arctic for economic opportunity and concern about the future of the culture of the Arctic peoples and the environment in the face of changing climate and increased human activity Other nations such as Russia and China are moving forward with Arctic economic development Facilitating exploration and development in the U S Arctic would enhance national economic and energy security benefit the people of the north and the U S as a whole and position the U S to exercise global leadership Despite these benefits there are diverse views on how to balance this opportunity with environmental stewardship

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web the way that matter behaves is called a property of matter one important property of matter is called solubility we think about solubility when we dissolve something in water or another liquid if a chemical is soluble in water then the chemical will dissolve or appear to vanish when you add it to water

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web have different solubilities in middle school students can weigh the solutes for a solubility test that uses equal masses 2 add 10 milliliters 2 teaspoons of water to two separate cups 3 at the same time pour the water into the sugar and salt cups 4

gently swirl the cups to see whether sugar or salt dissolves the most expected results

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web dissolving a solution is made when one substance called the solute dissolves into another substance called the solvent dissolving is when the solute breaks up from a larger crystal of molecules into much smaller groups or individual molecules this break up is caused by coming into contact with the solvent

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