

O-Chem Pre-lab 1

Thin Layer Chromatography Study (TLC)

☒ Introduction:

Summary of the experiment and expected goals. What are we going to analyze; by which method/instrument. (3-4 sentences).

- The objective/purpose of the experiment;
- Name the techniques/type of reaction;
- State the method(s) used to check the results;
- Importance or relevance of the experiment/technique;

TLC is a qualitative chromatography technique used to separate non-volatile mixtures. It is based in non-covalent interactions between the stationary phase, the different compounds, and the eluent. Thin-layer chromatography can be used to monitor the progress of a reaction, identify compounds present in a given mixture, and determine the purity of a substance. The objective of this experiment is to identify and separate 9-fluorenone in a given mixture. A small amount of 9-fluorenone will be used as Standard Reference Material (SRM). The proper eluent for its separation will be identified, favoring the posterior qualitative separation by column chromatography.

☐ Background:

Discuss the basic principles and theory relevant to the experimental technique or synthetic step

- Start with the definition, but this is not sufficient.
- Use diagrams to help you make your point (where possible).

Electronegativity is a measure of the ability of an atom to pull the bonding electrons toward itself.

Principles of Solubility



Outline a brief description of the scope and limitations of the technique or reaction.

Outline the mechanism of each reaction.

Chemistry 1a Pre Lab Manual Answers

Cooper



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Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart Exploring Anatomy Physiology in the Laboratory 3e

Instructor's Guide for Introductory Chemistry in the Laboratory James F. Hall, 1996 *Lab Manual for General, Organic, and Biochemistry* Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit www.whfreeman.com/gob

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Chemistry George Tyler Miller, 1987

General Chemistry B. Richard Siebring, Mary Ellen Schaff, 1980

Cooperative Chemistry Lab Manual Cooper, 2005-02 The laboratory course described in the lab manual emphasizes experimental design data analysis and problem solving Inherent in the design is the emphasis on communication skills both written and oral Students work in groups on open ended projects in which they are given an initial scenario and then asked to investigate a problem There are no formalized instructions and students must plan and carry out their own investigations

Chemistry James E. Brady, Fred Senese, 2004-02-04 Publisher Description

Chemistry McGraw-Hill Staff, 2001-07

Laboratory Manual to Accompany Chemistry, [by] Stanley R. Radel, Marjorie H. Navidi Arthur D. Baker, 1990

The Essential Lab Manual Karen Timberlake, 2002-06-24 Drawing from the successful main Laboratory Manual the Essential Laboratory Manual includes twenty one experiments which have been revised and updated Suitable for a one or two term lab course

The United States Catalog Mary Burnham, Carol Hurd, 1928

General, Organic, and Biological Chemistry Study Guide and Selected Solutions Karen C. Timberlake, 2001-11 Keyed to the learning goals in the text this guide is designed to promote

active learning through a variety of exercises with answers and mastery exams The guide also contains complete solutions to odd numbered problems The Chemistry of Everything Kimberley Waldron,2007 The Chemistry of Everything addresses the need to know basics of chemistry required to grasp everyday science issues Through innovative themes and creative applications it provides an engaging introduction to chemistry for nonscience majors Mixes basic chemical principles from physical inorganic organic analytical and biological specializations to support thematic coverage of topics such as diamonds groceries and drugs Extends readers vocabulary and knowledge of the scientific issues encountered in daily life Addresses issues of ethics and responsible use in contemporary science Captures the current fascination with forensics through Chemistry at the Crime Scene boxed sections For those interested in basic chemistry *Exploring General Chemistry in the Laboratory* Colleen F. Craig,Kim N. Gunnerson,2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science *Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c* Prentice Hall Direct Education Staff,2001-04 One program that ensures success for all students **The World of Chemistry** Jones,Jones Staff,1996 **Pkg Acp-Chem 1 Labs/Cottey Col** Gunter,2002-06 **Electrochemical and Metallurgical Industry** Eugene Franz Roeber,Howard Coon Parmelee,1923 **World of Chemistry** Melvin D. Joesten,James L. Wood,1999 The quality of human life is described in terms understanding to the non science major in this application oriented chemistry textbook This paperback offers a more concise less theoretical less mathematical version of the hardback version WORLD OF CHEMISTRY Second Edition

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