

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.

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Boyles



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Table of Contents Pkgacp Chem 3411 Lab Manual

1. Understanding the eBook Pkgacp Chem 3411 Lab Manual
 - The Rise of Digital Reading Pkgacp Chem 3411 Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Pkgacp Chem 3411 Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pkgacp Chem 3411 Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pkgacp Chem 3411 Lab Manual
 - Personalized Recommendations
 - Pkgacp Chem 3411 Lab Manual User Reviews and Ratings
 - Pkgacp Chem 3411 Lab Manual and Bestseller Lists
5. Accessing Pkgacp Chem 3411 Lab Manual Free and Paid eBooks
 - Pkgacp Chem 3411 Lab Manual Public Domain eBooks
 - Pkgacp Chem 3411 Lab Manual eBook Subscription Services
 - Pkgacp Chem 3411 Lab Manual Budget-Friendly Options
6. Navigating Pkgacp Chem 3411 Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Pkgacp Chem 3411 Lab Manual Compatibility with Devices
 - Pkgacp Chem 3411 Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pkgacp Chem 3411 Lab Manual
 - Highlighting and Note-Taking Pkgacp Chem 3411 Lab Manual
 - Interactive Elements Pkgacp Chem 3411 Lab Manual
8. Staying Engaged with Pkgacp Chem 3411 Lab Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Pkgacp Chem 3411 Lab Manual
- 9. Balancing eBooks and Physical Books Pkgacp Chem 3411 Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pkgacp Chem 3411 Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pkgacp Chem 3411 Lab Manual
 - Setting Reading Goals Pkgacp Chem 3411 Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pkgacp Chem 3411 Lab Manual
 - Fact-Checking eBook Content of Pkgacp Chem 3411 Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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