

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

- o Start with the definition, but this is not sufficient.
- o 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.



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

Outline the mechanism of each reaction.

Chromatography Chem Pre Lab Answers

Gaston Vernin, Michel Chanon



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Pre-Lab Exercises for Modern Experimental Organic Chemistry Royston M. Roberts, 1985 **Experimental Organic Chemistry** Daniel R. Palleros, 2000-02-04 This cutting edge lab manual takes a multiscale approach presenting both micro semi micro and macroscale techniques The manual is easy to navigate with all relevant techniques found as they are needed Cutting edge subjects such as HPLC bioorganic chemistry multistep synthesis and more are presented in a clear and engaging fashion Integrated Approach to Coordination Chemistry Rosemary A. Marusak, Kate Doan, Scott D. Cummings, 2007-03-07 Coordination chemistry is the study of compounds formed between metal ions and other neutral or negatively charged molecules This book offers a series of investigative inorganic laboratories approached through systematic coordination chemistry It not only highlights the key fundamental components of the coordination chemistry field it also exemplifies the historical development of concepts in the field In order to graduate as a chemistry major that fills the requirements of the American Chemical Society a student needs to take a laboratory course in inorganic chemistry Most professors who teach and inorganic chemistry laboratory prefer to emphasize coordination chemistry rather than attempting to cover all aspects of inorganic chemistry because it keeps the students focused on a cohesive part of inorganic chemistry which has applications in medicine the environment molecular biology organic synthesis and inorganic materials **Pre-lab Exercises for Experimental Organic Chemistry** Royston M. Roberts, John C. Gilbert, Stephen F. Martin, 1994

Fundamentals of Chemistry in the Laboratory Ralph A. Burns, 1999 **Science Super Sleuths** Pam Walker, 1999 Develop students problem solving skills as they become detectives of science Fun filled experiments involve data tables graphs and conclusion drawing questions Resources in Education ,1998 Chemistry Lemay, Prentice-Hall Staff, 1996

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