

## 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

**L Darling-Hammond**



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