

Madison Tippet

11389808

Zhou Lu section 313

September 28, 2021

### Thin Layer Chromatography

**Objective:** This experiment uses thin-layer chromatography to determine the solvent polarity effects and to identify an unknown substance. Retention factors will be calculated to determine the identity of the unknown compounds.

**Materials:** Breakers, flasks, stir rod, mini capillaries tubes, graduated cylinder, TLC plates, filter paper, Aluminum foil top, watch glass, tweezers, UV light, developing chamber, ruler, pencil, way paper, metal spatula, Acetaminophen, Aspirin, Caffeine, Ibuprofen (TBD), Ethanol, Dichloromethane, Acetic Acid, Ethyl Acetate, Hexanes.

**Table:**

Sample name	Chemical Formula	Molar Mass	Density	Melting Point	Solubility in Ethanol
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	46.07 g/mol	789 kg/m <sup>3</sup>	-144.1 °C	soluble
Acetaminophen	C <sub>8</sub> H <sub>9</sub> NO <sub>2</sub>	151.163 g/mol	1.26 g/cm <sup>3</sup>	169 °C	Slightly soluble
Caffeine	C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>	194.19 g/mol	1.23 g/cm <sup>3</sup>	227-228 °C	Slightly soluble
Ibuprofen	C <sub>13</sub> H <sub>18</sub> O <sub>2</sub>	206.29 g/mol	1.03 g/cm <sup>3</sup>	75-78 °C	Soluble
Aspirin	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	180.158 g/mol	1.4 g/cm <sup>3</sup>	135 °C	Slightly Soluble
Dichloromethane	CH <sub>2</sub> Cl <sub>2</sub>	84.93 g/mol	1.33 g/cm <sup>3</sup>	-96.7 °C	Slightly Soluble

# Thin Layer Chromatography Lab Report

**Julia Schneider**



## **Thin Layer Chromatography Lab Report:**

**Chemistry in the Laboratory** James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations **Techniques and**

**Applications of Thin Layer Chromatography** Joseph C. Touchstone, Joseph Sherma, 1985-02-20 Proceedings of the Third Biennial Symposium on Thin Layer Chromatography in which international experts explore the latest developments techniques and applications of the subject They describe newer techniques including methods for high performance and reversed phase TLC The general advance of the methods is exemplified in the descriptions of the applications and the presentation of theoretical aspects of the techniques And for the first time ever there is participation from investigators in petroleum laboratories *Forensic Toxicology* Kalipatnapu N. Rao, 2012-02-23 Modern technology using state of the art

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Interactions Robert K. Delong, Qiongqiong Zhou, 2015-03-06 Introductory Experiments on Biomolecules and their Interactions

provides a novel approach to teaching biomolecules in the lab While featuring the requisite fundamentals it also captures the author s experience in industry thus providing unique up to date experiments which take the learning experience one step further The text parallels lectures using a standard biochemistry undergraduate text Unlike most current lab manuals available in the market which simply emphasize an introduction of techniques this lab manual provides students with opportunities to demonstrate and prove the knowledge and theories they learn from class Features quantitative analysis of RNA degradation by RNase Contains problem sets calculations and references for each lab fully immersing students in the learning process Includes instruction on how to maintain a lab notebook and write a formal lab report Provides hands on engagement with the four major types of biomolecules and real life and better applied examples of molecular interactions

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This laboratory manual offers a broad introduction to practical instrumental analysis The practical activities include experiments for thin layer chromatography paper chromatography gas chromatography high performance liquid chromatography electrophoresis potentiometry voltammetry conductometry coulometry and electrogravimetry Scientific and Technical Aerospace Reports ,1991 **Accessions of Unlimited Distribution Reports** ,1974-10-18 *Code of*

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