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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 ₂ H ₅ OH	46.07 g/mol	789 kg/m ³	-144.1 °C	soluble
Acetaminophen	C ₈ H ₉ NO ₂	151.163 g/mol	1.26 g/cm ³	169 °C	Slightly soluble
Caffeine	C ₈ H ₁₀ N ₄ O ₂	194.19 g/mol	1.23 g/cm ³	227-228 °C	Slightly soluble
Ibuprofen	C ₁₃ H ₁₈ O ₂	206.29 g/mol	1.03 g/cm ³	75-78 °C	Soluble
Aspirin	C ₉ H ₈ O ₄	180.158 g/mol	1.4 g/cm ³	135 °C	Slightly Soluble
Dichloromethane	CH ₂ Cl ₂	84.93 g/mol	1.33 g/cm ³	-96.7 °C	Slightly Soluble

Thin Layer Chromatography Lab Report

Sara McCubbins, Angela Codron



Thin Layer Chromatography Lab Report:

Report summaries United States. Environmental Protection Agency,1983 **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 *Code of Federal Regulations* ,1992 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries Forensic Toxicology Kalipatnapu N. Rao,2012-02-23 Modern technology using state of the art equipment can now identify almost any toxin relevant to a legal issue Techniques include gas chromatography mass spectrometry high pressure liquid chromatography and the combination of these methods Forensic Toxicology Medico legal Case Studies demonstrates how the science of forensic toxicology acts a Scientific and Technical Aerospace Reports ,1991 Forensics in Chemistry Sara McCubbins,Angela Codron,2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K s body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI *The Code of Federal Regulations of the United States of America* ,1997 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government **Staff Report on Drug Abuse in the Military** United States. Congress. Senate. Committee

on Armed Services. Subcommittee on Drug Abuse in the Military,1972 *Code of Federal Regulations* United States. Department of the Interior,2000 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of with ancillaries Practical Chemistry Teshome Adugna,Girma Salale,2024-12-30 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 **Effects of Disease on Clinical Laboratory Tests** Richard B. Friedman,Donald S. Young,1989 An aid to determine the possible cause of laboratory test abnormalities encountered in clinical practice Sections include laboratory test index disease keyword index laboratory test listings disease listings by ICD 9CM classification and references Cumulated Index Medicus ,1966 Staff Report on Drug and Alcohol Abuse Among U.S. Military Personnel and Dependents in Germany United States. Congress. Senate. Committee on Armed Services. Subcommittee on Drug Abuse in the Military,1972 **Fostering Sustained Learning Among Undergraduate Students: Emerging Research and Opportunities** Chemosit, Caroline,Rugutt, John,Rugutt, Joseph K.,2017-03-03 Keeping students engaged and receptive to learning can at times be a challenge However by the implementation of new methods and pedagogies instructors can strengthen the drive to learn among their students Fostering Sustained Learning Among Undergraduate Students Emerging Research and Opportunities is an essential publication for the latest scholarly information on methods to inculcate student learning with a focus on implications to institutional policy and practices Featuring coverage on topics such as financial aid student motivation and mentorship this book is ideally designed for academicians practitioners and researchers seeking novel perspectives on the learning process and instruction methods

Annual Report of the Bureau of Commercial Fisheries Radiobiological Laboratory, Beaufort, N.C. United States. Bureau of Commercial Fisheries. Radiobiological Laboratory, Beaufort, N.C.,1966 **Nuclear Science Abstracts** ,1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available *U.S. Government Research Reports* ,1964 *The Army Lawyer* ,1978

Weekly Accessions List ,1966-09 Government-wide Index to Federal Research & Development Reports ,1965

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Thin Layer Chromatography Lab Report**

In a global inundated with screens and the cacophony of quick connection, the profound power and emotional resonance of verbal art often fade in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, nestled within the lyrical pages of **Thin Layer Chromatography Lab Report**, a interesting function of fictional brilliance that impulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus manuals readers on an emotional odyssey, gently exposing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is central subjects, dissect its interesting writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

https://letsgetcooking.org.uk/data/Resources/default.aspx/Stihl_Fs_85_Zama_Carburetor_Manual.pdf

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