

Extraction of an Essential Oil - PRE Lab Name: Emily Elizabeth Travis

1 .Fill out the table of reagents. Be sure to include all compounds that will be used/isolated during the experiment. Note: The table is expandable.

Reagent	Molecular Weight (g/mol)	Melting/Boiling Point (°C)	Density (g/mL)	Amount Needed	mol	Hazards	Other Notes
Clove Oil	205.64.	BP- 251	1.06	5g	0.024	eye irritant	Save some for TLC
Eugenol	164.2g/mol	MP- -9.1 BP- 253	1.0652 g/ml	30mL after distillation		eye irritant	Save some for TLC
DI H2O	18.015 g/mol	Mp- 0 BP- 100	1 g/cu cm	60mL	3.3		--
Ethyl Acetate	88.11 g/mol	MP- -83.6 BP- 77	0.9003g/ cu cm	10%	n/a	skin irritant	Make a 10% with hexane for TLC
Hexane	86.18 g/mol	MP-93.5 BP- 68.7	0.6606 g/cu cm	to create 10% ethyl acetate in hexanes	n/a	--	--
DCM	84.93 g/mol	MP- -95.1 BP- 40	1.33 g/cu cm	2 x 10mL	n/a	--	--
Sodium Sulfate	142.04 g/mol	MP- 884	2.671 g/cu cm	varies	n/a	--	--

2 .Type out your detailed procedure for the lab experiment:

Weigh out 5g of ground clove bud.

Set up distillation apparatus

Add cloves, stir bar and 60mL DI H2O into 100mL round bottom flask.

Turn on water to condenser before turning on heating mantle - water needs to go into bottom of condenser and flow out the top.

Set Variable controller to 50%

Distill 30mL distillate (cloudy white liquid), cool apparatus, deconstruct, transfer distillate to long stem separatory funnel.

Extraction Of Essential Oils Lab Report

N Colangelo



Extraction Of Essential Oils Lab Report:

Essential Oil Extraction from Food By-Products Prem Prakash Srivastav, Brijesh Srivastava, Sangeetha Karunanithi, 2025-09-28 This volume details cutting edge approaches to harnessing the potential of essential oils EOs extracted from food by products transforming waste into valuable resources for food preservation enhanced nutrition and functional food product development This comprehensive guide takes readers through a variety of modern extraction techniques including microwave assisted ultrasonic assisted enzyme assisted and supercritical fluid extraction methods Written in the format of the Methods and Protocols in Food Science series chapters list necessary materials and methods for readily reproducible protocols Authoritative and cutting edge Essential Oil Extraction from Food By Products aims to provide protocols that ensure high yields of essential oils while preserving their bioactive properties making them ideal for a wide range of food applications

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The Complete Technology Book of Essential Oils (Aromatic Chemicals) Reprint-2011 NIIR Board,2011-02-09 Essential oils are also known as volatile oils ethereal oils or aetherolea or simply as the oil of the plant from which they were extracted Essential oils are generally used in perfumes cosmetics soaps and other products for flavoring food and drink and for adding scents to incense and household cleaning products Various essential oils have been used medicinally at different periods in history Medical applications proposed by those who sell medicinal oils range from skin treatments to remedies for cancer and often are based solely on historical accounts of use of essential oils for these purposes Interest in essential oils has revived in recent decades with the popularity of aromatherapy a branch of alternative medicine that claims that essential oils and other

aromatic compounds have curative effects Oils are volatilized or diluted in carrier oil and used in massage diffused in the air by a nebulizer heated over a candle flame or burned as incense This book describes about the physicochemical properties chemical composition distillation yield quality of essential oils process of extraction of essential oils manufacture of essential oils products derived from essential oils and so on The book in your hands contains formulae processes and test parameters of different types of essential oils derived from different natural sources This is very helpful book for new entrepreneurs professionals institutions and for those who are already engaged in this field A Plant Biochemistry Unit Designed for a High Achieving Secondary Classroom Cheryl L. Hach,1996 **Perfumery and Essential Oil Record** Archibald C. Merrin,1928 **Report of the Second Meeting of the International Spice Group** International Spice Group. Meeting,1990 Perfumery and essential oil record ,1928 **Experiment Station Record** United States. Office of Experiment Stations,1899 **Manufacture of Snacks Food, Namkeen, Pappad & Potato Products** ,2010 Extruded Snacks Health Food Snacks Snack Food Preservatio Packaging Details Of Plant Machinery Equipments Instant Noodles Namkeen Namkeen Sweets Potato Products Manufacturers Of Plants Machineries Of Snacks Food Manufacturers Of Machineries Of Papped Plants Manufacturers Of Plant Machineries Of Namkeen Manufacturers Of Raw Materials Suppliers Of Packaging Materials Potato Pappad Barian Plant Potato Waffers Potato Chips Packaging Of Snack Foods *Paint Varnish Solvents & Coating Technology* Eiri,2006 Introduction General Pigments Physical Properties Pigments Processing Plasticizers And Solvents Synthetic Resins Cellulose Ester And Ether Produc Ts Varnishes Pigmentation Paints Decorative Building Coatings Industrial Paints Coatings Industrial Finishes Miscellaneous Coatings And Ancillary Materials Testing And Evaluation Miscellaneous Formulae Project Profiles Of Aluminium Paints Cement Paints Acrylic Emulsion Paints Insulating Varnish Powder Coating Many Others Suppliers Of Raw Materials Suppliers Of Plant And Machinery Present Manufacturers Packaging Material Addresses And Many Other Details Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition ,2012-01-09 Issues in Chemical Engineering and other Chemistry Specialties 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Chemical Engineering and other Chemistry Specialties The editors have built Issues in Chemical Engineering and other Chemistry Specialties 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Chemical Engineering and other Chemistry Specialties in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Chemical Engineering and other Chemistry Specialties 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) Technology Of Maize And Allied Corn Products Eiri,2008 According to one

study there are more than 250 races of corn in about 14 racial groups. Maize or Corn products have got tremendous demand in India and in overseas countries. Now a days many eatable products are being produced from maize. To consider the demand of these products EIRI have recently published a unique book on its subjects. The book Technology of Maize and Allied Corn Products covers various methods including Corn Types of Corn Botany of Corn Cultivation Practices Carbohydrates and Related Compounds Quality Factors Traditional Food Products from Corn Corn Milling Products and their Uses Processing Ready to Breakfast Cereals Popcorn Formulated Puffed Snacks Manufacturing Corn Chips Maize Products Maize Starch Sweet Corn Baby Corn Extruding Snacks Corn Flakes Liquid Glucose Maize Corn Oil Malto Dextrin from Maize Plant Economics of Non Roasted Corn Flakes POHA Starch from Maize Snack Food Yeast Dry Powder from Maize Suppliers of Maize Corn Processing Machineries Present Manufacturers Exporter Suppliers of Maize and Maize Products **Experiment Station Record** U.S. Office of Experiment Stations, United States. Agricultural Research Service, United States. Office of Experiment Stations, 1899 **Semi-annual Report on Essential Oils, Synthetic Perfumes, &c**, 1917 *Semi-annual Report on Essential Oils, Synthetic Perfumes, and Related Materials* Schimmel & Co, Schimmel & Co. Aktiengesellschaft, Miltitz bei Leipzig, 1917 Essential Oil-Bearing Plants M. Naeem, M. Masroor A. Khan, 2025-03-22 Essential Oil Bearing Plants Agro techniques Phytochemicals and Healthcare Applications provides a unique comprehensive view of the plants which produce these valuable products exploring optimal plant production Environmental factors such as genetic factors geographical origins cultivation locations environmental conditions and nutritional status influence their secondary components. Moreover water variability temperature salt and metal stresses significantly impact the growth yield and EO production of these plants by adjustment of anatomical morphological and biochemical development. This compilation increases the awareness of the essential oil plant species their conservation cultivation and sustainable utilization. This deeper understanding of current science will aid in the efficient commercialization of products based on these plants and will help identify knowledge gaps for future research. Presents insights from botany agronomy agriculture science medicinal chemistry biotechnology molecular biology and pharmacology. Highlights agricultural practices for the cultivation and production of essential Oil bearing plants. Includes therapeutic properties and other medicinal applications. Explores chemical composition and the extraction of phytochemicals. Addresses the latest physiological biotechnological and molecular approaches The Extra Pharmacopoeia of Martindale and Westcott William Martindale, William Harrison Martindale, William Wynn Westcott, 1912

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Table of Contents Extraction Of Essential Oils Lab Report

1. Understanding the eBook Extraction Of Essential Oils Lab Report
 - The Rise of Digital Reading Extraction Of Essential Oils Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Extraction Of Essential Oils Lab Report
 - 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 Extraction Of Essential Oils Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Extraction Of Essential Oils Lab Report
 - Personalized Recommendations
 - Extraction Of Essential Oils Lab Report User Reviews and Ratings
 - Extraction Of Essential Oils Lab Report and Bestseller Lists

5. Accessing Extraction Of Essential Oils Lab Report Free and Paid eBooks
 - Extraction Of Essential Oils Lab Report Public Domain eBooks
 - Extraction Of Essential Oils Lab Report eBook Subscription Services
 - Extraction Of Essential Oils Lab Report Budget-Friendly Options
6. Navigating Extraction Of Essential Oils Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Extraction Of Essential Oils Lab Report Compatibility with Devices
 - Extraction Of Essential Oils Lab Report Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Extraction Of Essential Oils Lab Report
 - Highlighting and Note-Taking Extraction Of Essential Oils Lab Report
 - Interactive Elements Extraction Of Essential Oils Lab Report
8. Staying Engaged with Extraction Of Essential Oils Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Extraction Of Essential Oils Lab Report
9. Balancing eBooks and Physical Books Extraction Of Essential Oils Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Extraction Of Essential Oils Lab Report
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Extraction Of Essential Oils Lab Report
 - Setting Reading Goals Extraction Of Essential Oils Lab Report
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Extraction Of Essential Oils Lab Report
 - Fact-Checking eBook Content of Extraction Of Essential Oils Lab Report
 - 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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