

# CITRUS ESSENTIAL OIL DETERPENATION BY LIQUID-LIQUID EXTRACTION

Alberto Arce\*, Alicia Marchiaro<sup>1</sup>, José M. Martínez-Ageitos and Ana Soto

*Department of Chemical Engineering, University of Santiago de Compostela, E-15782 Santiago, Spain*

The object of the present work is to evaluate the possibility of carrying out the deterpenation of the citrus essential oil by using a mixture of ethanol and water as a solvent for liquid-liquid extraction. Liquid-liquid equilibrium has been determined for limonene + linalool + ethanol + water quaternary system at 298.15 K. Partitioning and selectivity of extraction were analyzed. Experimental data were correlated using the UNIQUAC and NRTL equations and the energetic parameters of these models at this temperature are determined.

**Keywords:** LLE, limonene, linalool, ethanol, deterpenation, essential oil

**E**ssential oils are vegetable products, which are basically a mixture of terpenic hydrocarbons and oxygenated derivatives such as aldehydes, alcohols and esters. Citrus essential oil is used as a flavouring agent in pharmaceuticals as well as a fragrant ingredient in soaps, detergents, creams, lotions and perfumes. From its components, oxygenated compounds are mainly responsible for the aroma and flavour, and their content has become a definitive parameter in establishing the price of the oil and representing a reference of quality.

In a previous work (Arce et al., 2004), we have showed the possibility of carrying out the citrus essential oil deterpenation using a mixture of ethanol and water as a solvent for liquid-liquid extraction. In that work, the citrus oil was considered as a binary mixture of limonene and linalool, and we studied liquid-liquid equilibrium (LLE) for ternary systems involved in the process. However, only the study of quaternary LLE would allow the knowledge of the influence of limonene/linalool proportion

in essential oil, the percentage of water in the solvent, and essential oil/solvent ratio, on the partitioning and selectivity of extraction.

With this in mind, liquid-liquid equilibrium has been determined for Limonene + Linalool + Ethanol + Water quaternary system at 298.15 K. Partitioning and selectivity of the extraction were analyzed. Experimental data were correlated using the UNIQUAC and NRTL equations and the energetic parameters of these models at this temperature were determined.

\* Author to whom correspondence may be addressed.  
E-mail address: equa@ccc@usc.es

# Citrus Essential Oils Extraction And Deterpenation

**Michael Rajnik**



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### *continuous integration and continuous deployment ci cd with* - Oct 10 2022

web jul 1 2023 with continuous deployment any code that has been merged into a delivery or release branch of a repository is automatically built tested and deployed to production environments using ci cd drastically reduces the time to live for any code a developer wants to produce

### *continuous integration and continuous delivery building real* - May 05 2022

web may 9 2022 continuous integration ci means that whenever a developer checks in code to the source repository a build is automatically triggered continuous delivery cd takes this one step further after a build and automated unit tests are successful you automatically deploy the application to an environment where you can do more in depth

### **continuous integration and delivery azure data factory** - Apr 04 2022

web mar 16 2023 continuous delivery follows the testing that happens during continuous integration and pushes changes to a staging or production system in azure data factory continuous integration and delivery ci cd means moving data factory pipelines from one environment development test production to another

### *continuous integration delivery and deployment a systematic* - Jun 18 2023

web mar 22 2017 continuous practices i e continuous integration delivery and deployment are the software development

industry practices that enable organizations to frequently and reliably release new features and products

**an introduction to continuous integration delivery and deployment** - May 17 2023

web may 10 2017 continuous integration delivery and deployment all rely heavily on automated tests to determine the efficacy and correctness of each code change different types of tests are needed throughout these processes to

**what is continuous integration and continuous delivery deployment** - Aug 08 2022

web continuous delivery cd is a software development practice where code changes are automatically built tested and prepared for production release it expands on continuous integration by deploying all code changes to a testing environment a production environment or both after the build stage has been completed