



bio-based-solvents

4/20/2024

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Cruising Review

Bio-Based-Solvents: Publications and Research from SwissMixIt



This webpage QR code

Structured Data

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The need for greener, sustainable chemicals has prompted a great amount of research into the processing of renewable feedstocks to obtain platform molecules and downstream end products.

PDF Version of the webpage (first pages)

Bio Based Solvents Botanical Information

The need for greener, sustainable chemicals has prompted a great amount of research into the processing of renewable feedstocks to obtain platform molecules and downstream end products.

Keywords: bio-based solvent, biomass, bio-refinery, green solvent, platform molecules, yeast, lipids, COSMO-RS, Hansen, bio-based solvents, Biobased solvents, Biobased economy, Green analytical chemistry, Renewable resources, Biorefinery, Extraction

Description and Research Abstract: The need for greener, sustainable chemicals has prompted a great amount of research into the processing of renewable feedstocks to obtain platform molecules and downstream end products.

Lipid-based oleaginous microorganisms are potential candidates and resources for the sustainable production of biofuels. This study was designed to evaluate the performance of several alternative bio-based solvents for extracting lipids from yeasts.

One of the current trends in green analytical chemistry is the introduction of green solvents, some of which are biobased. At the same time, the development of the biorefinery concept has allowed more biochemicals to be obtained with increased efficiency and from a wider range of feedstocks. The first examples of the use of biosolvents in analytical applications included extractions performed with alcohols, esters, and terpenes. However, many more applications of biosolvents in extractions of bioactive compounds from various plant materials have also been reported, which hints at a wider range of potential analytical applications of biosolvents. It should also be noted that the biobased solvents applied in analytical chemistry are not always green, as some of them are toxic towards aquatic organisms.

4/20/2024
