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Extraction of Menthol using Different Methods from Peppermint Oil

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Abstract : This study presents the Fractionation, crystallization and hydrogenation of peppermint under specific conditions and studies the properties of each fraction. Peppermint oil and its constituents and derivatives are used in food, pharmaceutical and perfumery and flavoring industry. From this study it was observed that crystallization consumed more time and energy. Hydrogenation of the low value DMO using Ni catalyst gave good conversion but the use of high temperature and high pressure with H₂ gas showed their disadvantages. The use of IPA as the solvent also contributed to its quality. It was observed that hydrogenation of DMO using sodium borohydride at room temperature with water as solvent was more efficient as compared with IPA and a mixture of IPA and water and it was found to be more economical.

Keywords : Crystallization, Hydrogenation, Peppermint Oil, Fractionation.

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