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Vaporization Enthalpy and Vapor Pressure of (-) Ambroxide and Galaxolide by Correlation Gas Chromatography

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## **ACCEPTED MANUSCRIPT**

Vaporization Enthalpy and Vapor Pressure of (-) Ambroxide and Galaxolide by

Correlation Gas Chromatography

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The vapor pressures and vaporization enthalpies of dibenzofuran, (-) Ambroxide TM and Galaxolide TM are evaluated by correlation gas chromatography. (-) Ambroxide TM and Galaxolide TM are important commercial products, the latter of which has been the subject of some controversy regarding its impact on the environment. All are cyclic ethers. Dibenzofuran, with established literature values was chosen to evaluate the effectiveness of using hydrocarbons to evaluate both vaporization enthalpies and liquid vapor pressures of simple ethers. Vaporization enthalpy results on dibenzofuran are consistent with the literature value. Current results suggest that hydrocarbons can also be employed to successfully evaluate both liquid vapor pressures and vaporization enthalpies at ambient temperatures for substances for this class of compounds if suitable standards are unavailable.

Keywords: Vaporization Enthalpy; Vapor Pressure; (-) Ambroxide; Galaxolide; Correlation Gas Chromatography

This article is dedicated to the contributions of Professor Gennady J. Kabo on the occasion of his 80th birthday.

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