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Comments on “Solubility and thermodynamic properties of maltol in different pure solvents”

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Abstract

Errors are discovered in the tabulated thermodynamic properties of dissolution reported by Li and coworkers. Specifically, the properties do not obey the standard thermodynamic relationship of $\Delta_{\text{diss}}G = \Delta_{\text{diss}}H - T \Delta_{\text{diss}}S$, where $\Delta_{\text{diss}}G$, $\Delta_{\text{diss}}H$ and $\Delta_{\text{diss}}S$ are respectively the Gibbs energy of dissolution, the enthalpy of dissolution, and the entropy of dissolution of maltol in the organic solvent at the solution temperature, T .

Key Words and Phrases:

Thermodynamic properties of dissolution; maltol dissolved in organic mono-solvents

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