

Title: Solution enthalpies of hydroxylic compounds

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Abstract: Solution enthalpies of adamantan-1-ol, 2-methyl- butan-2-ol, and 3-methylbutan-1-ol have been measured at 298.15 K, in a set of 16 protogenic and non-protogenic solvents. The identification and quantification of solvent effects on the solution processes under study were performed using quantitative-structure property relationships. The results are discussed in terms of solute-solvent-solvent interactions and also in terms of the influence of compound's size and position of its hydroxyl group.

Author Keywords: QSPR; Solution Enthalpy; Solvent Effects; Adamantan-1-ol; 2-Methylbutan-2-ol; 3-Methylbutan-1-ol

KeyWords Plus: Solvatochromic Comparison Method; Solvent; Solvation; Scale; 1-Bromodamantane; Derivatives; Solvolysis; Models

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