## Thermochemistry of heteroatomic compounds X. The thermochemistry of solution and solvation of substituted alkylphosphonic derivatives

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## **Abstract**

The enthalpies of vaporization of different classes of phosphorylated alcohols and amines were determined from their enthalpies of solution in hexane and carbon tetrachloride. The enthalpies of specific (hydrogen-bond) interaction with the solvents (chloroform and pyridine) of derivatives containing X-H groups (X=O or N) in the  $\alpha$ -position to the P=O group were determined. The results were explained in terms of the spatial structure of such compounds.

## **Keywords**

Enthalpy of solution, Enthalpy of solvation, Enthalpy of specific interaction with solvent, Enthalpy of vaporization, Phosphonic derivatives