



# Thermodynamic Properties of Organic Compounds: Estimation Methods, Principles and Practice

*George J. Janz*

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## **Thermodynamic Properties of Organic Compounds: Estimation Methods, Principles and Practice**

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Thermodynamic Properties of Organic Compounds: Estimation Methods, Principles and Practice, Revised Edition focuses on the progression of practical methods in computing the thermodynamic characteristics of organic compounds.

Divided into two parts with eight chapters, the book concentrates first on the methods of estimation. Topics presented are statistical and combined thermodynamic functions; free energy change and equilibrium conversions; and estimation of thermodynamic properties. The next discussions focus on the thermodynamic properties of simple polyatomic systems by statistical thermodynamic methods. Discussed are molecular energy of an ideal gas; partition function and thermodynamic properties; and calculation of statistical thermodynamic functions. The book also notes the dynamic properties of long chain hydrocarbons and the method of structural similarity. Tabulations and numerical representations are presented as well.

Discussions also focus on methods of group contributions and group equations. Included are paraffins, unsaturated carbons, cyclic hydrocarbons, and nonhydrocarbon groups. The last part of the text focuses on heat formation and heat capacity; the applications of thermodynamic method; and numerical data. Included in the discussions are bond energies and binding energies; gaseous free radicals and ions; and hydrogenation of benzene.

The book is an important source of data for readers interested in studying the thermodynamic characteristics of organic compounds.

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