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Introduction to Molecular Thermodynamics

A full discussion of the molecular basis for thermodynamics is Statistical Mechanics. Consider two isomers, i.e. two compounds that have the same molecular formula but a different molecular structure. Let us assume for the moment that the two isomers have the same electronic energy in the lowest or ground state.

AN INTRODUCTION TO THERMODYNAMICS

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Our goal in this chapter is to extend the concepts of thermochemistry to an exploration of thermodynamics (from the Greek thermo and dynamic, meaning “heat” and “power,” respectively), the study of the interrelationships among heat, work, and the energy content of a system at equilibrium. Thermodynamics tells chemists whether a particular reaction is energetically possible in the ...

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