

Virtual Lab Manual

Basic Chemistry Thermodynamics: Solve the challenge of storing renewable energy

Synopsis

Energy is one of the great subject matters of our time, but what is energy actually? In this simulation you will learn the fundamental thermodynamic concepts of enthalpy, entropy and Gibbs free energy. You will also determine the internal energy of a chemical compound by using bomb calorimetry, and you'll even travel inside the calorimeter to see it in action!

The challenge of storing energy

What is the best way to store energy? There is no simple answer, but in this simulation, you will be encouraged to give it some thought while learning about the very nature of energy and how it connects to chemical reactions. You will assess whether the gasoline component octane is a suitable chemical for energy storage by using a bomb calorimeter.

The fundamental concepts of thermodynamics

The first and second laws of thermodynamics and the core concepts of enthalpy, entropy and Gibbs free energy are introduced in this simulation. You can play around with the energy levels of reactants and products on a virtual energy surface to learn about endothermic and exothermic reactions. The concept of reaction spontaneity is linked to the concept of Gibbs free energy and its temperature dependence is explored in an interactive game. You will have access to a state-of-the-art bomb calorimeter and can travel inside to see it in action, in order to really be able to understand how it works. From here the concept of chemical bond energy is linked to the thermodynamic calculations of enthalpy on the calorimeter output.

Lab Manual For Thermodynamics For Chemistry

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Barr**



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