

## CHAPTER OVERVIEW

### 10: Entropy, Gibbs Energy, and Spontaneity

#### Chemical Principles (Zumdahl and Decoste) Textmap Alternative

##### Topic hierarchy

- 10.1: Spontaneous Processes
- 10.2: Isothermal Expansions and Compressions of Ideal Gases
- 10.3: Definition of Entropy
- 10.4: Entropy and Physical Changes
- 10.5: Entropy and the Second Law of Thermodynamics
- 10.6: The Effect of Temperature on Spontaneity
- 10.7: Gibbs (Free) Energy
- 10.8: Entropy Changes in Chemical Reactions
- 10.9: Gibbs Energy and Reactions
- 10.10: The Dependence of Free Energy on Pressure
- 10.11: Gibbs Energy and Equilibrium
- 10.12: Free Energy and Work

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