



# Thermodynamics of Pharmaceutical Systems: An Introduction for Students of Pharmacy

*Kenneth A. Connors*

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Studies of thermodynamics often fail to demonstrate how the mathematical intricacies of the subject relate to practical laboratory applications. *Thermodynamics of Pharmaceutical Systems* makes these connections clear, emphasizing specific applications to pharmaceutical systems in a study created specifically for contemporary curriculums at colleges of pharmacy.

Students investigating drug discovery, drug delivery, and drug action will benefit from Kenneth Connors's authoritative treatment of the fundamentals of thermodynamics as well as his attention to drug molecules and experimental considerations. An extensive appendix that reviews the mathematics needed to master the pharmacy curriculum proves an invaluable reference. Connors divides his one-of-a-kind text into three sections: Basic Thermodynamics, Thermodynamics of Physical Processes, and Thermodynamics of Chemical Processes; chapters include:

- Energy and the First Law of Thermodynamics
- The Entropy Concept
- Phase Transformations
- Solubility
- Acid-Base Equilibria
- Noncovalent Binding Equilibria

Thermodynamics need not be a mystery nor be confined to the realm of mathematical theory. *Thermodynamics of Pharmaceutical Systems* introduces students of pharmacy to the profound thermodynamic applications in the laboratory while also serving as a handy resource for practicing researchers.

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