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Binding Constants: The Measurement of Molecular Complex Stability (Hardback)

By Kenneth A. Connors

John Wiley and Sons Ltd, United States, 1987. Hardback. Book Condition: New. 231 x 155 mm. Language: English . Brand New Book. This unique book presents a systematic review of the methods for the determination of binding constants of complex formation in solution. Collects material that has been scattered throughout the literature of several separate fields. Offered here are methods from the areas of acid--base chemistry, metal--ion coordination compounds, hydrogen--bonding, charge--transfer complexation, hydrophobic interaction, and protein--binding. Discusses the relevant thermodynamics, modelling, statistics and regression analysis, and interpretation of data. Includes fresh discussions of random association (contact complexes), selection of standard states, and comparison of results. Treats all of the experimental methods useful for measuring these equilibrium constants, including those based on spectrophotometry, nuclear magnetic resonance, reaction kinetics, potentiometry, solubility, liquid--liquid partitioning, dialysis, chromatography, fluorimetry, and many others.



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