

Potentiometric and Spectrophotometric Determination of the Dissociation Constants of Cefetamet

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Summary. The dissociation constants of cefetamet-Na have been determined using potentiometric titrations and spectrophotometry. The investigations were carried on in water solutions at constant temperature and ionic strength, and at different H_0 and pH values. Potentiometric investigations were performed at three different temperatures and ionic strengths. The concentration dissociation constants and the corresponding thermodynamic dissociation constants were calculated by a computer program. The mixed dissociation constants (pK^*) of cefetamet-Na have been determined spectrophotometrically in the H_0 range from -5.80 to 0.00 and at pH values from 0.00 to 12.70 and are in good agreement with values achieved by graphical methods as well as with those obtained by potentiometric methods. Based on the determined values, the thermodynamic parameters (ΔG , ΔH , ΔS) were calculated at $I = 0.1\text{ M}$.

Keywords. Cefetamet-Na; Dissociation constants; Potentiometry; Spectrophotometry.

Potentiometrische und spektrophotometrische Bestimmung der Dissoziationskonstanten von Cefetamet

Zusammenfassung. Die Dissoziationskonstanten von Cefetamet-Na wurden mittels potentiometrischer Titrationen und auf spektrophotometrischem Weg bestimmt. Die Untersuchungen wurden in wässriger Lösung bei konstanter Temperatur und Ionenstärke und verschiedenen H_0 - und pH -Werten durchgeführt. Potentiometrische Messungen wurden bei drei verschiedenen Temperaturen und Ionenstärken vorgenommen. Die stöchiometrische Dissoziation und die entsprechenden thermodynamischen Dissoziationskonstanten wurden mit Hilfe eines Computerprogramms berechnet. Die gemischten Dissoziationskonstanten (pK^*) wurden spektrophotometrisch im H_0 -Bereich von -5.80 bis 0.00 und im pH -Bereich von 0.00 bis 12.70 bestimmt und stimmen sowohl mit Werten, die mit Hilfe der graphischen Methode erhalten wurden, als auch mit potentiometrisch bestimmten gut überein. Aus den ermittelten Werten der Dissoziationskonstanten wurden die thermodynamischen Parameter (ΔG , ΔH , ΔS) für $I = 0.1\text{ M}$ berechnet.

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Table of Contents Potentiometric And Spectrophotometric Determination Of The

1. Understanding the eBook Potentiometric And Spectrophotometric Determination Of The
 - The Rise of Digital Reading Potentiometric And Spectrophotometric Determination Of The
 - Advantages of eBooks Over Traditional Books
2. Identifying Potentiometric And Spectrophotometric Determination Of The
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Potentiometric And Spectrophotometric Determination Of The
 - User-Friendly Interface
4. Exploring eBook Recommendations from Potentiometric And Spectrophotometric Determination Of The
 - Personalized Recommendations
 - Potentiometric And Spectrophotometric Determination Of The User Reviews and Ratings
 - Potentiometric And Spectrophotometric Determination Of The and Bestseller Lists
5. Accessing Potentiometric And Spectrophotometric Determination Of The Free and Paid eBooks
 - Potentiometric And Spectrophotometric Determination Of The Public Domain eBooks
 - Potentiometric And Spectrophotometric Determination Of The eBook Subscription Services
 - Potentiometric And Spectrophotometric Determination Of The Budget-Friendly Options

6. Navigating Potentiometric And Spectrophotometric Determination Of The eBook Formats
 - ePub, PDF, MOBI, and More
 - Potentiometric And Spectrophotometric Determination Of The Compatibility with Devices
 - Potentiometric And Spectrophotometric Determination Of The Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Potentiometric And Spectrophotometric Determination Of The
 - Highlighting and Note-Taking Potentiometric And Spectrophotometric Determination Of The
 - Interactive Elements Potentiometric And Spectrophotometric Determination Of The
8. Staying Engaged with Potentiometric And Spectrophotometric Determination Of The
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Potentiometric And Spectrophotometric Determination Of The
9. Balancing eBooks and Physical Books Potentiometric And Spectrophotometric Determination Of The
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Potentiometric And Spectrophotometric Determination Of The
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Potentiometric And Spectrophotometric Determination Of The
 - Setting Reading Goals Potentiometric And Spectrophotometric Determination Of The
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Potentiometric And Spectrophotometric Determination Of The
 - Fact-Checking eBook Content of Potentiometric And Spectrophotometric Determination Of The
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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