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M. C. TEPHORESHE, O. H. ACKATETOBA, H. H. MEPEAROS, R. H. SAPZACAPOB

к вопросу о точности определения рк.

потенциометрическим и спектрофотометрическим методами

В вастоящей работе рассмотрено влиние инструментальной иогрениюсти потенциометрического (рН-метрического) и спектрофотом трического методов на ведечину монстанты протомитического разволения pK_n и возможение достоверной оценки местериментально выйденных иничений этой комстанты. Выбор метода весперациями и планирование условий местеримента, нольсолемирого наибслее точноопределять величину pK_n , также свидины с предварительной оценкой влиниия этой поэто-чимости.

Степень влидини обсолютных посрещностей прилых измерений рН и светоподопривил рестворов на обсолютную погрешность результата посвенных измерений ванием от вида диадитической функции, леханцей в основи расчота рК, [1].

В вачестие месельного сооданения для оцения р.К. и о.к. потенционетрическим и спектрофотомотрическим методами имее выбран 1-метилциимостим беникиндаюда— ходигообразующий диганд, проциланций амфинротиме свойства [2]. Воследовано разновеске протопирования месенуларной формы диганда: П°11" = RH".

PROBEPHINESPYAZISHAH MACTIS

Потенциометрическое титрование 0,1 и 0,2 мноль 1-метициановским бешинидаволя, предварительно переведенного хлорестоводородной какологой в протенированную форму, проводная 0,1 М раствором NaOII на pH-метре pH-121 со стеклинивам индивисторимы антегроском (a = 0,1, NaOI). Электронизае спектры 1-метилировоскима бензимидающа в растворах с различ-

Электронивые спиктры 1-метилцииновскима бенлимедалода и распворях с различнами миничением pH замисимы ма регистрирующем спиктрофотомитре Спикорд и конетих с I—1.0 см (ст.—2.5-10—4 М).

РЕЗУЛЬТАТЫ И ИХ ОБСУЖДЕНИЕ

При потенционстрическом титрования предочью слабой кислоты или предваратрально протопарованного основания расчет рА, (с учетом уразвения засектронейтральности и материального баланся честви) проводят по формуле [3, 4]

$$pK_a = pH + lg \frac{(1-a) v_L - [H^*] + [OH^-]}{av_L + [H^*] - [OH^-]}$$
, (1)

гда с. — виалитическим помироитрации дигокла, с — степень небтраживания дигокла. После двфференцировании уравнения (f) или функция рК., от pH излучено [4] выражение для расчета виачения обседенного стандартного отклюжения, карактеразующего потрешность измерении рК. по уравницию (f), послощыму винество нависнию стандартного отклюжения рК., лерактеризующего потрешность имеерским рН

$$\sigma_{p,K_{el}}^{2} = \sigma_{pH}^{2} \left(1 + \frac{c_{L} ([H^{+}] + [OH^{-}])}{[c_{L} (1 - a) - [H^{+}] + [OH^{-}]) (ac_{L} + [H^{+}] - [OH^{-}])}\right)^{a}$$
. (2)

На рис. 1 представлены ириные $\sigma_{\nu E_0} \sim f(pH)$, рассчитанные при использованных нами рабочих концентрациях лиганда 6-10 $^{-1}$ и 8-10 $^{-1}$ М, а такию при концентрациях

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Andrew S. Prokopovitsh, T. E. Green

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Spectrophotometric Determination of Trace Amounts of Copper in Tungsten Metal Powder Andrew S. CRC Handbook of Chemistry and Physics William M. Haynes, 2016-06-22 Proudly serving Prokopovitsh, T. E. Green, 1961 the scientific community for over a century this 97th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions It is now also available as an eBook This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach **CRC Handbook of Basic Tables for** Chemical Analysis Thomas J. Bruno, Paris D.N. Svoronos, 2020-07-30 Researchers in chemistry chemical engineering pharmaceutical science forensics and environmental science make routine use of chemical analysis but the information these researchers need is often scattered in different sources and difficult to access The CRC Handbook of Basic Tables for Chemical Analysis Data Driven Methods and Interpretation Fourth Edition is a one stop reference that presents updated data in a handy format specifically designed for use when reaching a decision point in designing an analysis or interpreting results This new edition offers expanded coverage of calibration and uncertainty and continues to include the critical information scientists rely on to perform accurate analysis Enhancements to the Fourth Edition Compiles a huge array of useful and important data into a single convenient source Explanatory text provides context for data and guidelines on applications Coalesces information from several different fields Provides information on the most useful wet chemistry methods as well as instrumental techniques with an expanded discussion of laboratory safety Contains information of historical importance necessary to interpret the literature and understand current methodology Unmatched in its coverage of the range of information scientists need in the lab this resource will be referred to again and again by practitioners who need quick easy access to the data that forms the basis for experimentation and analysis **Surfactant-based Sensors in Chemical and Biochemical Detection** J G Manjunatha, 2023-10-11 Describing the importance of surfactants in electrochemical investigations related to biologically and environmentally vital chemicals this book charts the progression of highly responsive electrochemical sensors using surfactants as a modifying agent in the sensor field It provides contributed chapters from respected researchers on information concerning the activity of target molecules and electron transfer kinetics arising at the surface of the fabricated sensor materials Surfactant based electrochemical sensors are of great interest in the quest to find low cost fast and highly responsive sensing devices and one aim of this book is to help improve the competence and knowledge in this newly emerging interdisciplinary research area Attracting an audience of students academics

industrialists and engineers it will interest researchers seeking to use non toxic sensors in their detection challenges Spectrophotometric Determination of the PKa's of Some Aromatic Amines Mark Bixler, 1963 The dissociation constants of the conjugate acids of aniline alpha naphthylamine and beta naphthylamine have been determined from their ultraviolet absorption spectra in 50% by weight ethanol water solution The values obtained have been compared with potentiometric Analytical Chemistry Gary D. Christian, Purnendu K. Dasgupta, Kevin A. Schug, 2013-10-07 With the 7th Edition of Analytical Chemistry renowned chemists Purnendu Sandy Dasgupta and Kevin Schug both of the University of Texas Arlington join the author team The new edition focuses on more in depth coverage of the principles and techniques of quantitative analysis and instrumental analysis aka Analytical Chemistry The goal of the text is to provide a foundation of the analytical process tools and computational methods and resources and to illustrate with problems that bring realism to the practice and importance of analytical chemistry It is designed for undergraduate college students majoring in chemistry and in fields related to chemistry Methods of Analyzing Oilfield Waters A. Gene Collins, 1961 **Nuclear Science Abstracts** *Analytical Chemistry* Mr. Rohit Manglik, 2024-07-03 EduGorilla Publication is a trusted name in the education .1975 sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Advances in Energy Science and Equipment Engineering II Volume 2 Shiquan Zhou, Aragona Patty, Shiming Chen, 2017-09-19 The 2016 2nd International Conference on Energy Equipment Science and Engineering ICEESE 2016 was held on November 12 14 2016 in Guangzhou China ICEESE 2016 brought together innovative academics and industrial experts in the field of energy equipment science and engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy equipment science and engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy equipment science and engineering and related areas This second volume of the two volume set of proceedings covers the field of Structural and Materials Sciences and Computer Simulation Computer and **Electrical Engineering** Master Analytical Manual Oak Ridge National Laboratory. Analytical Chemistry Division, 1958 Scientific and Technical Aerospace Reports, 1965 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Physicochemical and Biomimetic Properties in Drug Discovery Klara Valko, 2013-11-25

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Demonstrating how and why to measure physicochemical and biomimetic properties in early stages of drug discovery for lead optimization Physicochemical and Biomimetic Properties in Drug Discovery encourages readers to discover relationships between various measurements and develop a sense of interdisciplinary thinking that will add to new research in drug

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