Henderson Hasselbalch Equation

Dissociation of an Acid

$$HA + H_2O \rightleftharpoons A^{\ominus} + H_3O^{\oplus}$$
Acid Water Conjugate Hydronium
Base

Equation

$$pH = pK_a + log_{10} \frac{[A^{\ominus}]}{[HA]}$$

pH:pH value of the solution

K : Dissociation constant of the acid

 $[A^{\Theta}]$: Concentration of the conjugate base (A^{Θ})

[HA]: Concentration of the acid (HA)

The Henderson Equation

PT Brinkman

The Henderson Equation:

The Henderson equation Warren Adler, 1975 Drying Technologies in Food Processing Xiao Dong Chen, Arun S. Mujumdar, 2009-03-16 Drying is by far the most useful large scale operation method of keeping solid foods safe for long periods of time and is of fundamental importance in most sectors of food processing Drying operations need to be precisely controlled and optimized in order to produce a good quality product that has the highest level of nutrient retention and flavor whilst maintaining microbial safety This volume provides an up to date account of all the major drying technologies employed in the food industry and their underlying scientific principles and effects Various equipment designs are classified and described The impact of drying on food properties is covered and the micro structural changes caused by the process are examined highlighting their usefulness in process analysis and food design Key methods for assessing food properties of dried products are described and pre concentration and drying control strategies are reviewed Thermal hazards and fire explosion detection and prevention for dryers are discussed in a dedicated chapter Where appropriate sample calculations are included for engineers and technologists to follow The book is directed at food scientists and technologists in industry and research food engineers and drying equipment manufacturers Handbook of Food Preservation M. Shafiur Rahman, 2007-07-16 The processing of food is no longer simple or straightforward but is now a highly inter disciplinary science A number of new techniques have developed to extend shelf life minimize risk protect the environment and improve functional sensory and nutritional properties The ever increasing number of food products and preservation techniques cr

An Introduction to Chemistry Michael Mosher, Paul Kelter, 2023-03-18 This textbook is written to thoroughly cover the topic of introductory chemistry in detail with specific references to examples of topics in common or everyday life It provides a major overview of topics typically found in first year chemistry courses in the USA The textbook is written in a conversational question based format with a well defined problem solving strategy and presented in a way to encourage readers to think like a chemist and to think outside of the box Numerous examples are presented in every chapter to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry

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