

Calculating pH of Acids – Practice

Instructions: Use the equations for pH to complete the problems below.

- 1) What is the pH of a 0.0266 M hydrobromic acid (HBr) solution?

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.0266] \rightarrow \boxed{\text{pH} = 1.58}$$

- 2) Calculate the hydrogen ion concentration of a solution with a pH of 6.3.

$$[\text{H}^+] = 10^{-\text{pH}} \rightarrow [\text{H}^+] = 10^{-6.3} \rightarrow \boxed{[\text{H}^+] = 5.01 \times 10^{-7}}$$

- 3) Calculate the pH of a 0.004 M hydrofluoric acid (HF) solution?

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.004] \rightarrow \boxed{\text{pH} = 2.40}$$

- 4) What is the hydrogen ion concentration of an acid with a pH of 2.21?

$$[\text{H}^+] = 10^{-\text{pH}} \rightarrow [\text{H}^+] = 10^{-2.21} \rightarrow \boxed{[\text{H}^+] = 6.17 \times 10^{-3}}$$

- 5) Calculate the pH of a 1.14 L solution that contains 0.19 moles of HCl.

$$[\text{H}^+] = \frac{\text{moles of solute}}{\text{liters of solvent}} \rightarrow \frac{0.19 \text{ mol}}{1.14 \text{ L}} \rightarrow 0.167 \text{ M}$$

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.167] \rightarrow \boxed{\text{pH} = 0.78}$$

Ph Calculations Answer Key

Rob Ritchie

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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Calculations for Molecular Biology and Biotechnology Frank H. Stephenson, 2010-07-30 Calculations for Molecular Biology and Biotechnology A Guide to Mathematics in the Laboratory Second Edition provides an introduction to the myriad of laboratory calculations used in molecular biology and biotechnology The book begins by discussing the use of scientific notation and metric prefixes which require the use of exponents and an understanding of significant digits It explains the mathematics involved in making solutions the characteristics of cell growth the multiplicity of infection and the quantification of nucleic acids It includes chapters that deal with the mathematics involved in the use of radioisotopes in nucleic acid research the synthesis of oligonucleotides the polymerase chain reaction PCR method and the development of recombinant DNA technology Protein quantification and the assessment of protein activity are also discussed along with the centrifugation method and applications of PCR in forensics and paternity testing Topics range from basic scientific notations to complex subjects like nucleic acid chemistry and recombinant DNA technology Each chapter includes a brief explanation

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Dosages and Calculations Richard Wiederhold, 2009 Geared towards allied health professionals physical therapists and physician assistants this competency based manual gives a clear and concise approach to the study of dosages This text prepares the reader to calculate correct doses of medications Working knowledge of basic mathematical skills are necessary to master the material

Physical Science, 2015-03-16 Physical Science for grades 5 to 12 is designed to aid in the review and practice of physical science topics Physical Science covers topics such as scientific measurement force and energy matter atoms and elements magnetism and electricity The book includes realistic diagrams and engaging activities to support practice in all areas of physical science The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series is aligned to current science standards

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Lab Manual for General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit www.whfreeman.com/gob

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