

Molar Concentration Worksheet

Name: _____

Complete all questions including units in your calculations. Each question is worth 4 marks.

You may use Google to find the molar masses (ex. type 'molar mass HCl = ' and it will give you the answer).

1. Every 5.5 L of battery acid contains 490.0 g of sulfuric acid, H_2SO_4 . Calculate the concentration of sulfuric acid in the battery acid in mol/L.
2. Lily added 35 grams of sodium carbonate to a volume of 3,400 mL. What is the concentration of her solution in mol/L? (answer 0.097 mol/L)
3. If Jaclyn adds water to 100 mL of a 0.15 M NaOH solution until the final volume is 150 mL, what will the molarity (concentration in mol/L) of the diluted solution be?
4. Explain how Savannah could make 450 mL of a 0.25 M calcium chloride solution in the lab from solid calcium chloride if the only volumetric flask she has is a 500 mL volumetric flask. Show all calculations.

General Chemistry Unit 11 Worksheet 4 Molar Concentration

EW Minium

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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Chemistry Carson-Dellosa Publishing, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry 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 will be aligned to current science standards **Basics of Analytical Chemistry and Chemical Equilibria** Brian M.

Tissue, 2023-03-02 BASICS OF ANALYTICAL CHEMISTRY AND CHEMICAL EQUILIBRIA Familiarize yourself with the fundamentals of analytical chemistry with this easy to follow textbook Analytical chemistry is the study of chemical composition concerned with analyzing materials to discover their constituent substances the amounts in which these substances are present and more Since materials exist in different states and undergo reactions analytical chemistry is also concerned with chemical equilibria the state at which various reactants and substances will undergo no observable chemical change without outside stimulus This field has an immense range of practical applications in both industry and research and is a highly desirable area of expertise for the next generation of chemists Basics of Analytical Chemistry and Chemical Equilibria provides an introduction to this foundational subject ideal for specialized courses It introduces not only the core concepts of analytical chemistry but cultivates mastery of various instrumental methods by which students and researchers can undertake their own analyses Now updated to include the latest research and expanded coverage Basics of Analytical Chemistry and Chemical Equilibria promises to situate a new generation of readers in this growing field Readers of the second edition of Basics of Analytical Chemistry and Chemical Equilibria will also find A new chapter on structure determination Revised and expanded descriptions of chemical instrumentation You try it exercises throughout to further develop practical student knowledge Companion website of associated materials including end of chapter solutions spreadsheets for student use and more Basics of Analytical Chemistry and Chemical Equilibria is an ideal textbook for students in chemistry biochemistry and environmental science as well as students in related fields including chemical engineering and materials science for whom analytical chemistry offers a useful toolset *Poly(lactic acid)* Rafael A. Auras, Loong-Tak Lim, Susan E. M. Selke, Hideto Tsuji, 2022-06-01 POLY LACTIC ACID The second edition of a key reference fully updated to reflect new research and applications Poly lactic acid s PLAs biodegradable polymers derived from lactic acid have become vital components of a sustainable society Eco friendly PLA polymers are used in numerous industrial applications ranging from packaging to medical implants and to wastewater treatment The global PLA market is predicted to

expand significantly over the next decade due to increasing demand for compostable and recyclable materials produced from renewable resources Poly lactic acid Synthesis Structures Properties Processing Applications and End of Life provides comprehensive coverage of the basic chemistry production and industrial use of PLA Contributions from an international panel of experts review specific processing methods characterization techniques and various applications in medicine textiles packaging and environmental engineering Now in its second edition this fully up to date volume features new and revised chapters on 3D printing the mechanical and chemical recycling of PLA PLA stereocomplex crystals PLA composites the environmental footprint of PLA and more Highlights the biodegradability recycling and sustainability benefits of PLA Describes processing and conversion technologies for PLA such as injection molding extrusion blending and thermoforming Covers various aspects of lactic acid lactide monomers including physicochemical properties and production Examines different condensation reactions and modification strategies for enhanced polymerization of PLA Discusses the thermal rheological and mechanical properties of PLA Addresses degradation and environmental issues of PLA including photodegradation radiolysis hydrolytic degradation biodegradation and life cycle assessment Poly lactic acid Synthesis Structures Properties Processing Applications and End of Life Second Edition remains essential reading for polymer engineers materials scientists polymer chemists chemical engineers industry professionals using PLA and scientists and advanced student engineers interested in biodegradable plastics **R.R. Bowker's Software for Schools** ,1987

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Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **General Chemistry Unit 11 Worksheet 4 Molar Concentration**

In a world inundated with monitors and the cacophony of quick interaction, the profound power and mental resonance of verbal beauty frequently fade into obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, set within the lyrical pages of **General Chemistry Unit 11 Worksheet 4 Molar Concentration**, a captivating perform of fictional splendor that impulses with organic feelings, lies an remarkable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that mesmerizing opus books viewers on an emotional odyssey, softly exposing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is main themes, dissect its charming publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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