

## Unit 8 Worksheet 3: Molar Concentration

### Part A: Describing Molar Concentration

1. Sodium chloride was dissolved in water to produce a 1.5M solution. Explain what this concentration tells us about the NaCl solution. How might a chemist use this ratio?
2. A 45.3 g sample of potassium nitrate is dissolved in enough water to make 225 mL of solution. Determine the molar concentration of the potassium nitrate.
3. Find the molarity of a solution made from 275 g of  $\text{CuSO}_4$  dissolved in enough water to make 4.25 L.
4. An alcoholic iodine solution ("tincture" of iodine) is prepared by dissolving 5.15 g of iodine crystals in enough alcohol to make a volume of 225 mL. Calculate the molarity of iodine in the solution.
5. What final volume would be needed in order to prepare a 0.25 M NaCl solution from 5.2 g of NaCl (s)?

# Unit 1 worksheet 3 Molar Concentration

**Mary Louise Turgeon**



## **Unit 1 worksheet 3 Molar Concentration:**

**Clinical Laboratory Science - E-Book** Mary Louise Turgeon, 2022-09-14 Selected for Doody's Core Titles 2024 in Laboratory Technology Using a discipline by discipline approach Turgeon's Clinical Laboratory Science Concepts Procedures and Clinical Applications 9th Edition provides a fundamental overview of the concepts procedures and clinical applications essential for working in a clinical laboratory and performing routine clinical lab tests Coverage includes basic laboratory techniques and key topics such as safety phlebotomy quality assessment automation and point of care testing as well as discussion of clinical laboratory specialties Clear straightforward instructions simplify laboratory procedures and are guided by the latest practices and CLSI Clinical and Laboratory Standards Institute standards Written by well known CLS educator Mary Louise Turgeon this edition offers essential guidance and recommendations for today's laboratory testing methods and clinical applications Broad scope of coverage makes this text an ideal companion for clinical laboratory science programs at various levels including CLS MT CLT MLT medical laboratory assistant and medical assisting and reflects the taxonomy levels of the CLS MT and CLT MLT exams Detailed procedure guides and procedure worksheets on Evolve and in the ebook familiarize you with the exact steps performed in the lab Vivid full color illustrations depict concepts and applicable images that can be seen under the microscope An extensive number of certification style multiple choice review questions are organized and coordinated under major topical headings at the end of each chapter to help you assess your understanding and identify areas requiring additional study Case studies include critical thinking group discussion questions providing the opportunity to apply content to real life scenarios The newest Entry Level Curriculum Updates for workforce entry published by the American Society for Clinical Laboratory Science ASCLS and the American Society for Clinical Pathology ASCP Board of Certification Exam Content Outlines serve as content reference sources Convenient glossary makes it easy to look up definitions without having to search through each chapter An Evolve companion website provides convenient access to animations flash card sets and additional review questions Experienced author speaker and educator Mary L Turgeon is well known for providing insight into the rapidly changing field of clinical laboratory science     *Nuclear Technology Programs Semiannual Progress Report, October 1989-March 1990* ,1992     *Spreadsheet Chemistry* O. Jerry Parker, Gary L. Breneman, 1991     **A Generalized Pyrolysis Model for Combustible Solids** Christopher William Lautenberger, 2007

**Plant Proteostasis** L. Maria Lois, Marco Trujillo, 2022-11-22 This second edition compiles state of art protocols to study the molecular mechanisms that determine proteome composition and contribute to maintaining protein homeostasis Chapters describe methods that range from the in vitro analysis of enzyme cascades to real time in vivo studies Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Plant Proteostasis Methods and Protocols Second Edition aims to be a useful

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solvents chemical systems or reactions      *Euromat 99, Microstructures, Mechanical Properties and Processes* Yves Bréchet, 2000-07-13 The relation between microstructures and mechanical properties has always been a challenge for materials science Modelling the formation properties and long term stability of microstructures is one of the most impressive and promising advances of modern materials science This book presents recent advances and challenges in this fast evolving cross disciplinary field It addresses applications of classical physical metallurgy and the need for new modelling approaches both on the analytical viewpoint and on the simulation side      **Proceedings ... Annual Meeting** Air Pollution Control Association. Annual Meeting, 1986      *Russian Journal of Inorganic Chemistry* , 2000      *Celebrating the Megascala* Phillip J. Mackey, Eric J. Grimsey, Rodney T. Jones, Geoffrey A. Brooks, 2014-01-15 This volume contains the proceedings of the David Robertson Honorary Symposium Celebrating the Megascala held at the TMS 2014 Annual Meeting in San Diego California Dr David G C Robertson Professor Emeritus of Metallurgical Engineering at the Missouri University of Science and Technology has devoted his career to the education of highly skilled metallurgical professionals and to the science of all types and sizes of metallurgical processes particularly those involving molten metals The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals      **Unsaturated Soil Mechanics** Ning Lu, William J. Likos, 2004-05-20 Unsaturated Soil Mechanics is the first book to provide a comprehensive introduction to the fundamental principles of unsaturated soil mechanics Offers extensive sample problems with an accompanying solutions manual Brings together the rapid advances in research in unsaturated soil mechanics in one focused volume Covers advances in effective stress and suction and hydraulic conductivity measurement      *ASHRAE Transactions* , 1983      **Dissertation Abstracts International** , 1992-11

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