

Molarity Calculations

Calculate the molarities of the following solutions:



- 1) 2.3 moles of sodium chloride in 0.45 liters of solution.

$$M = \frac{2.3 \text{ moles}}{0.45 \text{ L}} = 5.111 \frac{\text{mol}}{\text{L}} = \boxed{5.11 \text{ M}}$$



- 2) 1.2 moles of calcium carbonate in 1.22 liters of solution.

$$M = \frac{1.2 \text{ mol}}{1.22 \text{ L}} = 0.983606557 \frac{\text{mol}}{\text{L}} = \boxed{0.98 \text{ M}}$$



- 3) 0.09 moles of sodium sulfate in 12 mL of solution.

12 mL = 0.012 L

$$M = \frac{0.09 \text{ mol}}{0.012 \text{ L}} = \boxed{7.5 \text{ M}}$$



- 4) 0.75 moles of lithium fluoride in 65 mL of solution.

65 mL = 0.065 L

$$M = \frac{0.75 \text{ mol}}{0.065 \text{ L}} = 11.53846154 \text{ M} = \boxed{11.54 \text{ M}}$$



- 5) 0.8 moles of magnesium acetate in 5 liters of solution.

$$M = \frac{0.8 \text{ mol}}{5 \text{ L}} = \boxed{0.16 \text{ M}}$$



- 6) 120 grams of calcium nitrite in 240 mL of solution.

240 mL = 0.240 L

$$n = 120 \text{ g} \left(\frac{1 \text{ mol}}{132.09 \text{ g}} \right)$$

MW_{Ca(NO₂)₂} = 132.09 g/mol

n = 0.91 mol

$$M = \frac{0.91 \text{ mol}}{0.240 \text{ L}} = \boxed{3.79 \text{ M}}$$



- 7) 98 grams of sodium hydroxide in 2.2 liters of solution.

MW_{NaOH} = 39.997 g/mol

$$n = 98 \text{ g} \left(\frac{1 \text{ mol}}{39.997 \text{ g}} \right) = 2.45 \text{ mol}$$

$$M = \frac{2.45 \text{ mol}}{2.2 \text{ L}} = \boxed{1.11 \text{ M}}$$



- 8) 1.2 grams of hydrochloric acid in 25 mL of solution.

MW_{HCl} = 36.461 g/mol

$$n = (1.2 \text{ g}) \left(\frac{1 \text{ mol}}{36.461 \text{ g}} \right) = 0.033 \text{ mol}$$

$$M = \frac{0.033 \text{ mol}}{0.025 \text{ L}} = \boxed{1.32 \text{ M}}$$



- 9) 45 grams of ammonia in 0.75 L of solution.

MW_{NH₃} = 17.031 g/mol

$$n = 45 \text{ g} \left(\frac{1 \text{ mol}}{17.031 \text{ g}} \right) = 2.64 \text{ mol}$$

$$M = \frac{2.64 \text{ mol}}{0.75 \text{ L}} = \boxed{3.52 \text{ M}}$$

Molarity Pre Lab Worksheet

Mary Louise Turgeon



Molarity Pre Lab Worksheet:

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

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