Student Solution Manual

Student Solution Manual: Skoog et al., Fundamentals of Analytical Chemistry, 10e, © 2022, 978-0-357-45055-0, Chapter 2: Calculations Used in Analytical Chemistry

Some of the answers below may differ in format but have the same value as your result. Please check with your instructor if a specific format is desired.

Chapter 2

2-1. Define

Answers:

(a) molar mass.

The molar mass is the mass in grams of one mole of a chemical species.

(c) millimolar mass.

The millimolar mass is the mass in grams of one millimole of a chemical species.

Give two examples of units derived from the fundamental base SI units.

Solution:

The liter:
$$1 L = \frac{1000 \text{ mL}}{1 L} \times \frac{1 \text{ cm}^3}{\text{mL}} \times \left(\frac{\text{m}}{100 \text{ cm}}\right)^3 = 10^{-3} \text{ m}^3$$

Molar concentration:
$$1 M = \frac{1 \text{ mol}}{L} \times \frac{L}{10^{-3} \text{ m}^3} = \frac{1 \text{ mol}}{10^{-3} \text{ m}^3}$$

Simplify the following quantities using a unit with an appropriate prefix:

Solutions:

(a) 5.8 × 10⁸ Hz.

$$5.8 \times 10^8 \text{ Hz} \times \frac{\text{MHz}}{10^8 \text{ Hz}} = 580 \text{ MHz}$$

(c) 9.31 × 10³ μmol.

$$9.31 \times 10^7 \text{ } \mu \text{mol} \times \frac{\text{mol}}{10^6 \text{ } \mu \text{mol}} = 93.1 \text{ mol}$$

(e) 3.96×10° nm.

Solution Manual General Chemistry Mortimer

Kathleen Armour

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Solutions Manual - Chemistry Charles E. Mortimer,1986 Student's Solutions Manual to Accompany Organic Chemistry Thomas J. Cogdell,2012-11-05 Student s Solutions Manual to Accompany Organic Chemistry is a 27 chapter manual designed for use as a supplement to Organic Chemistry textbook by Stephen J Weininger and Frank R Stermitz This book provides the complete answers to all the problems in the textbook and also contains several study features to help broaden and strengthen the knowledge of the material presented in each chapter These features are applied in the organization of the manual including Study Hints New Mechanisms Reactions and Answers to Problems This book focuses on the concepts of types of mechanisms and reactions for a class of compounds The opening chapters cover topics such as organic structures molecular bonding alkanes and cycloalkanes stereoisomerism and chirality reactive intermediates and interconversion of alkyl halides alcohols and ethers These topics are followed by discussions on alkenes physical methods for chemical structure determination polymerization alkynes aromatic compounds and Aldol condensation reactions The remaining chapters tackle the chemistry synthesis and reactions of specific class of compounds This book is directed toward organic chemistry teachers and students

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