

Limiting Reactant, Theoretical Yield, Actual Yield, & Percent Yield

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24



- If we have 53.2 g of Na and 65.8 g of Cl_2 , what are the limiting reactant and theoretical yield?

$$53.2\text{ g Na} \times \frac{1\text{ mol Na}}{22.99\text{ g Na}} \times \frac{2\text{ mol NaCl}}{2\text{ mol Na}} \times \frac{58.44\text{ g NaCl}}{1\text{ mol NaCl}} = 135.23$$

$$65.8\text{ g Cl}_2 \times \frac{1\text{ mol Cl}_2}{70.9\text{ g Cl}_2} \times \frac{2\text{ mol NaCl}}{1\text{ mol Cl}_2} \times \frac{58.44\text{ g NaCl}}{1\text{ mol NaCl}} = 110.5$$

12 3 Chemistry Limiting Reagent And Percent Yield Answer

Kenneth W. Raymond



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General Organic and Biological Chemistry Kenneth W. Raymond, 2009-12-14 This general organic and biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry Students need have no previous background in chemistry but should possess basic math skills The text features numerous helpful problems and learning features Chemistry Calculations for Beginners John Obimakinde, Samuel Obimakinde, Ebenezer Obimakinde, Fredrick Akinbolade, 2025-05-30 With decades of combined experience as science teachers at both school and undergraduate levels the authors have recognised that one of the greatest challenges faced by students studying chemistry is grasping the complexity of the numerous numerical problems found in most parts of the subject This text is crafted to provide a clear and accessible pathway to overcoming this challenge by assisting students especially novices or those with minimal knowledge of the subject in performing chemistry calculations The content covers fundamental calculations crucial to understanding the principles of chemistry making it an invaluable tool for students aiming to excel in their studies Key features Designed with a student friendly approach including detailed explanation of chemical concepts underlying each type of calculation step by step explanations alternative methods for solving problems numerous practice exercises answers to practice exercises and appendices The book is tailored to suit various curricula ensuring relevance for a diverse audience Encompasses a wide range of calculations offering students a thorough understanding of essential chemistry concepts Serves as an excellent resource for exam preparation and equips students with skills applicable to future scientific endeavours Employs straightforward language to ensure ease of understanding for beginners Uses IUPAC conventions underscoring the universal nature of chemistry **AP Chemistry**

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