

Limiting Reagent & Percent Yield Practice Worksheet

1. When copper (II) chloride reacts with sodium nitrate, copper (II) nitrate and sodium chloride are formed.

a. Write the balanced equation for the reaction given above:



- b. If 15 grams of copper (II) chloride react with 20 grams of sodium nitrate, how much sodium chloride can be formed?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.362 \text{ g CuCl}_2} \times \frac{2 \text{ mol NaCl}}{1 \text{ mol CuCl}_2} \times \frac{58.443 \text{ g NaCl}}{1 \text{ mol NaCl}} = 13 \text{ g NaCl}$$

$$20 \text{ g NaNO}_3 \times \frac{1 \text{ mol NaNO}_3}{84.997 \text{ g NaNO}_3} \times \frac{2 \text{ mol NaCl}}{2 \text{ mol NaNO}_3} \times \frac{58.443 \text{ g NaCl}}{1 \text{ mol NaCl}} = 13.8 \text{ g NaCl}$$

Only 13 g can be formed

- c. What is the limiting reagent for the reaction in #2? copper (II) chloride

- d. How many grams of copper (II) nitrate is formed?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.452 \text{ g CuCl}_2} \times \frac{1 \text{ mol Cu(NO}_3)_2}{1 \text{ mol CuCl}_2} \times \frac{187.467 \text{ g Cu(NO}_3)_2}{1 \text{ mol Cu(NO}_3)_2} = 20.9 \text{ g Cu(NO}_3)_2$$

- e. How much of the excess reagent is left over in this reaction?

$$15 \text{ g CuCl}_2 \times \frac{1 \text{ mol CuCl}_2}{134.452 \text{ g CuCl}_2} \times \frac{2 \text{ mol NaNO}_3}{1 \text{ mol CuCl}_2} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 19 \text{ g NaNO}_3$$

$$20 \text{ g NaNO}_3 - 19 \text{ g NaNO}_3 = 1 \text{ g NaNO}_3$$

- f. If 11.3 grams of sodium chloride are formed in the reaction described in problem #2, what is the percent yield of this reaction?

$$\text{Percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100 \text{ percent}$$

$$11.3/13.0 \times 100\% = 86.9\%$$

2. When lead (II) nitrate reacts with sodium iodide, sodium nitrate and lead (II) iodide are formed.

a. Balance the following equation:



- b. If I start with 25.0 grams of lead (II) nitrate and 15.0 grams of sodium iodide, how many grams of sodium nitrate can be formed?

$$25.0 \text{ g Pb(NO}_3)_2 \times \frac{1 \text{ mol Pb(NO}_3)_2}{331.214 \text{ g Pb(NO}_3)_2} \times \frac{2 \text{ mol NaNO}_3}{1 \text{ mol Pb(NO}_3)_2} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 12.8 \text{ g NaNO}_3$$

$$15.0 \text{ g NaI} \times \frac{1 \text{ mol NaI}}{149.89 \text{ g NaI}} \times \frac{2 \text{ mol NaNO}_3}{2 \text{ mol NaI}} \times \frac{84.997 \text{ g NaNO}_3}{1 \text{ mol NaNO}_3} = 8.51 \text{ g NaNO}_3$$

8.51 g NaNO₃ can be made

Quick Lab Limiting Reagents Answers

**George P. Patrinos, Wilhelm
Ansorge, Phillip B. Danielson**



Quick Lab Limiting Reagents Answers:

Calculating Theoretical Yield Is Not Impossible! Michael S. Leonard, 2025-02-25 Calculating theoretical and percent yield is a fundamental skill for the laboratory. This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level as a supplemental resource to help students master this skill. It begins with simple examples from everyday life, demonstrates the importance of balancing the equation, addresses the role of the mole in these computations, discusses different types of liquids, considers the role of significant figures, and culminates with the planning of syntheses. There are suggestions for further reading as well as practice problems and questions to ensure mastery. Begins with examples from everyday life that enable students to understand the concepts of theoretical and percent yield before applying those concepts to the laboratory. Addresses the necessity of balancing the reaction equation, the centrality of the mole in these calculations, and the role of significant figures in reporting the answer. Explains how to approach the calculations when using neat liquids or solutions. The culmination of this text is the use of the same thought processes to plan the amounts of reactants needed for syntheses of desired quantities of product. All of the problems in the book include detailed solutions with accompanying text to explain the answers, and ancillaries also include suggestions for further reading.

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Molecular Diagnostics George P. Patrinos,Wilhelm Ansorge,Phillip B. Danielson,2016-10-27 Molecular Diagnostics Third Edition focuses on the technologies

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but also as proteins independent of their catalytic property Because A to I editing may affect base pairing and RNA structure processes including translation splicing RNA replication and miR and siRNA silencing may be affected Future studies of ADARs no doubt will provide us with additional surprises and new insights into the modulation of biological processes by the ADAR family of proteins **Microcircuit Reliability Bibliography** ,1974 Energy Research Abstracts ,1993

Spiritual Insights From The New Science: Complex Systems And Life Raima Larter,2021-05-05 Spiritual Insights from the New Science is a guide to the deep spiritual wisdom drawn from one of the newest areas of science the study of complex systems The author a former research scientist with over three decades of experience in the field of complexity science tells her story of being attracted as a young student to the study of self organizing systems where she encountered the strange and beautiful topics of chaos fractals and other concepts that comprise complexity science Using the events of her life she describes lessons drawn from this science that provide insights into not only her own life but all our lives These insights show us how to weather the often disruptive events we all experience when growing and changing The book goes on to explore through the unfolding story of the author s life as a practicing scientist other key concepts from the science of complex systems cycles and rhythms attractors and bifurcations chaos fractals self organization and emergence Examples drawn from religious rituals dance philosophical teachings mysticism native American spirituality and other sources are used to illustrate how these scientific insights apply to all aspects of life especially the spiritual Spiritual Insights from the New Science shows the links between this new science and our human spirituality and presents in engaging accessible language the argument that the study of nature can lead to a better understanding of the deepest meaning of our lives **Bulletin of the Atomic Scientists** ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Bulletin of the Atomic Scientists* ,1980-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world A comparative study of elite English-medium schools, public schools, and Islamic madaris in contemporary Pakistan Akhtar Hassan Malik,2015-04-12 This ethnographic study examines the role of differing school knowledge in reproducing various social classes in the society It was observed that an unequal availability of capital resources agents class habitus and the type of their cultural currency act as selection mechanisms that clearly favour some social groups over others The ruling classes ensure the transfer of their power and privilege to their children by providing them with quality education in elite schools The disadvantaged classes are excluded from these unique institutions by both social and economic sanctions They have no other option than to educate their children either in public schools or Islamic madaris As a result inequitable educational opportunities consolidate the existing social class hierarchy

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