

Limiting Reagents and % Yield

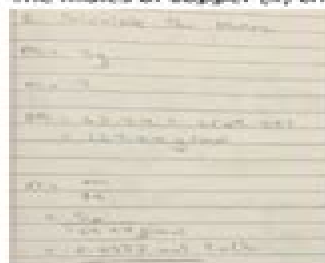
The percentage yield of a chemical reaction is determined by numerous factors: the nature of the reaction itself, the conditions under which the reaction was carried out and the nature of the reactants used. In this investigation, you will determine the limiting/excess reagents and the percentage yield of the reaction between iron and a solution of copper (II) chloride.

Prelab Questions:

- Write the balanced chemical equation for the reaction between iron and copper (II) chloride. Remember to use your activity series to check the products.
 - The balanced equation is $\text{Fe(s)} + \text{CuCl}_2\text{(aq)} \rightarrow \text{Cu(s)} + \text{FeCl}_2\text{(aq)}$. The reaction is a single displacement isolating copper.



- Calculate the moles of copper (II) chloride in the solution if you use 5 g of copper (II) chloride.
 - The moles of copper (II) chloride in the solution, if I use 5g of copper (II) chloride, is 0.037 mol CuCl_2 .



- Determine the limiting reagent if you use 1 g of iron.
 - The limiting reagent, if I use 1g of iron, is Fe(s) . It is 0.018mol because when comparing the numbers by the

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Answers For Quick Lab Limiting Reagents Section 12 3

Marcel A. Müller



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Teaching Science for Understanding James Joseph Gallagher, 2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities

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Instructors Manual to Lab Manual Ralph Petrucci, William Harwood, Geoffrey Herring, 2001

Laboratory Exercises in Microbiology Robert A. Pollack, Lorraine Findlay, Walter Mondschein, R. Ronald Modesto, 2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology

Nuclear Science Abstracts, 1975 *Energy Research Abstracts*, 1986

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