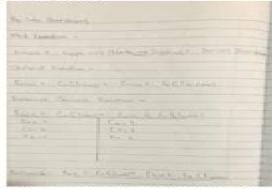
Limiting Reagents and % Yield

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 Fe(s) + CuCl2(aq) → Cu(s) + FeCl2(aq). The reaction is a single displacement isolating copper.



- 2. 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 CuCl2.

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- 3. 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

Limiting Reagents and % Yield

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Quick Lab Limiting Reagents Answers For 12 3

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States. Energy Research and Development Administration, 1977 Pediatric Anesthesia: A Problem-Based Learning Approach Kirk Lalwani, Ira Todd Cohen, Ellen Y. Choi, Vidya T. Raman, 2018-09-17 Linking existing knowledge to new knowledge by presenting it in the form of a case or a problem is a popular and effective educational approach resulting in better retention of the knowledge and improved ability to apply that knowledge to solve real problems This problem based learning PBL method was introduced into medical education at McMaster University in Ontario Canada in 1969 Since then it has been widely incorporated into secondary undergraduate and graduate education in a variety of disciplines worldwide This new volume for the Anesthesiology Problem Based Learning series reviews pediatric anesthesia utilizing the PBL approach Each chapter deals with conditions and problems in pediatric anesthesia practice presented as a case stem with questions to encourage critical thinking followed by an evidence based discussion and multiple choice questions for self assessment Cases were carefully selected to present a broad systems based tour of commonly encountered clinical cases in pediatric anesthesia The book can be used to review an upcoming clinical case or as a PBL tool The Stem Case and Key Questions and Discussion sections can serve as the basis for interactive learning experiences for study groups or as a broad yet in depth clinical review of the subspecialty for the individual learner Self assessment questions can be used as a measure of knowledge acquisition or simply as a question bank to prepare for examinations ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1977 Nuclear Science Abstracts ,1975 Scientific and Technical Aerospace Reports, 1992

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