

Limiting Reagents

In many reactions, one reactant becomes entirely consumed and the other reactant, or reactants, is left over. The reactant that becomes consumed is called the **limiting reactant** or **limiting reagent** or **limiting factor**. It is called the limiting reactant because when it is all gone no more product can be created – the reactant limits the amount of product formed. The reactants remaining are called the **excess reagents**.

Analogy: The Classic Grilled Cheese Sandwich

To make a grilled cheese sandwich you need two pieces of bread and one piece of cheese. The reaction would look something like this:



So, if we had 6 pieces of bread and 2 pieces of cheese, how many sandwiches could we make? We would be able to make 2 sandwiches because we only have 2 slices of cheese. We would end up with 2 slices of bread left over. This would mean that the cheese was our limiting reagent and the bread would be our excess reagent.

Example 1:

Sodium chloride can be prepared by the reaction of sodium metal with chlorine gas.



What will occur when **6.70 mol of Na** reacts with **3.20 mole of Cl_2** ?

- What is the limiting reagent?
- How many moles of NaCl are produced?
- How much of the excess reagent remains unreacted?

Solution:

- Start with the known amount of one of the reactants. Use the mole ratio from the balanced equation to calculate the required amount of the other reactant.

It doesn't matter if you choose Na or Cl_2 . We will choose Na.



$$\underbrace{6.7 \text{ mol Na}}_{\text{given amount of sodium from the question}} \times \underbrace{\frac{1 \text{ mol } Cl_2}{2 \text{ mol Na}}}_{\substack{\text{mole ratio} \\ \text{(using coefficients from the balanced equation)}}} = \underbrace{3.35 \text{ mol } Cl_2}_{\substack{\text{required amount of} \\ \text{Cl}_2 \text{ if we used up} \\ \text{all 6.70 mol Na}}}$$

* This calculation shows that 3.35 mol of Cl_2 is needed to react with all 6.70 mol of Na. We only have **3.2 mol Cl_2** available. $\therefore Cl_2$ is the Limiting Reactant.

Answers For Quick Lab Limiting Reagents Section 12 3

James Joseph Gallagher



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Answers For Quick Lab Limiting Reagents Section 12 3: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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