

LIMITING REAGENT Practice Problems

1. At high temperatures, sulfur combines with iron to form the brown-black iron (II) sulfide:



In one experiment, 7.62 g of Fe are allowed to react with 8.67 g of S.

- a. What is the limiting reagent, and what is the reactant in excess?
 - b. Calculate the mass of FeS formed.
2. Acrylonitrile, $\text{C}_3\text{H}_3\text{N}$, is the starting material for the production of a kind of synthetic fiber (acrylics) and can be made from propylene, C_3H_6 , by reaction with nitric oxide, NO, as follows:



What mass of $\text{C}_3\text{H}_3\text{N}$ can be made when 21.6 g of C_3H_6 react with 21.6 g of nitric oxide?

3. Calculate the percent yield for the reaction: $\text{P}_4 \text{ (s)} + 6 \text{Cl}_2 \text{ (g)} \rightarrow 4 \text{PCl}_3 \text{ (l)}$
if 75.0 g of phosphorus reacts with excess chlorine gas to produce 111.0 g of phosphorus trichloride.

4. Formic acid, HCHO_2 , burns in oxygen to form carbon dioxide and water as follows:



If a 3.15-g sample of formic acid was burned in 2.0 L of oxygen, what volume of carbon dioxide would be produced? (Assume the reaction occurs at standard temperature and pressure, STP.)

5. Zinc metal reacts with hydrochloric acid to produce zinc chloride and hydrogen gas.
- a. Balance the following reaction: $\text{Zn (s)} + \text{HCl (aq)} \rightarrow \text{ZnCl}_2 \text{ (aq)} + \text{H}_2 \text{ (g)}$
 - b. A 3.50-g sample of zinc metal is allowed to react with 2.50 g of hydrochloric acid. Complete the following table:

Reactants/products	Zn (grams)	HCl (grams)	ZnCl ₂ (grams)	H ₂ (L)
Before reaction				
After reaction	1.26 g			

6. Consider the reaction: $\text{MnO}_2 + 4 \text{HCl} \rightarrow \text{MnCl}_2 + \text{Cl}_2 + 2 \text{H}_2\text{O}$
If 0.45 mols of MnO_2 can react with 48.2 g of HCl, how many grams of Cl_2 could be produced?

7. One of the components of the fuel mixture on the Apollo lunar module involved a reaction with hydrazine, N_2H_4 , and dinitrogen tetroxide, N_2O_4 . If the balanced equation for this reaction is



what volume of N_2 gas (measured at STP) would result from the reaction of 1500 kg of hydrazine and 1000 kg of N_2O_4 ?

Chem 151 Limiting Reagent Practice Problems

Morris Hein, Susan Arena



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Materials,1958 *Reports ...* University of Arizona. Agricultural Experiment Station,1922 *Publications* University of
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