

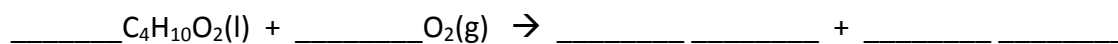
1. Percent Composition: Determine the percent composition of each element in aluminum sulfate.

2. A certain compound is 34.9978 % nitrogen, 5.0370 % hydrogen and 59.9652 % oxygen. Determine the empirical formula of the compound.

3. Strong acids: Name and write the formula of the six strong acids and the seventh, which is not always considered.

	Name	Formula
1		
2		
3		
4		
5		
6		
7		

3. Complete and balance the following:

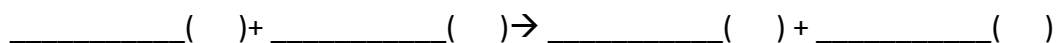




(it is supposed to be CO!)

4. Combustion analysis of 2.56g of an unknown hydrocarbon produced 8.80g of carbon dioxide and 1.44g of water. What is the empirical formula of the unknown? *(There may or may not be oxygen present...)*

A) What are the components in a combustion reaction?



B) What is a hydrocarbon?

C) What variables are known and unknown? Work with your group to diagram a flow chart and solve the problem.

Flow Chart:

Known:

Unknown:

D) Discuss with your group the difference between an empirical and molecular formula.