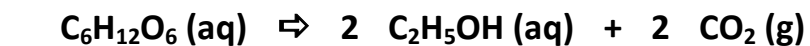


Pre-AP Chemistry  
Unit #9—Stoichiometry

Mass to Volume and Volume to Mass



1. Calculate the molar mass for each compound in the reaction.
2. Calculate liters of carbon dioxide gas were produced when 36.25 grams of  $\text{C}_6\text{H}_{12}\text{O}_6$  decomposed in the chemical reaction?
3. How many liters of  $\text{C}_2\text{H}_5\text{OH}$  were produced if 7.485 grams of carbon dioxide gas were produced for the reaction?
4. If the reaction produced 54 liters of carbon dioxide, how many grams of sugar needed to decompose for the reaction?
5. Calculate the mass, in grams, of ethanol that was produced from 12.47 liters of sugar.