

# Participation Assignment

## CHEM 1100-General Chemistry II

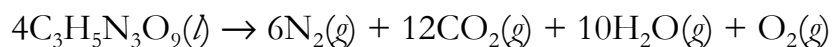
Name:

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Section: 31, MWF

Due Date: Wednesday 7/11/2018

1. Nitroglycerin decomposes according to the following equation:



a. Calculate the molar masses for nitroglycerin, carbon dioxide, and water.

b. Given 175 g nitroglycerin, calculate the mass of carbon dioxide produced.

2. What is the molarity of a solution made by dissolving 2.796 g KCl in enough water to make 250.0 mL of solution?

3. A sample of 6.44 g naphthalene,  $\text{C}_{10}\text{H}_8$ , is dissolved in 80.1 g benzene,  $\text{C}_6\text{H}_6$ . What is the mass fraction of each component in this solution?