

(GAS STOICHIOMETRY PROBLEMS)

1. 156 grams of potassium metal reacts with excess water to form potassium hydroxide and hydrogen gas. Balance the reaction. What volume of hydrogen gas, in liters, is formed?



2. Baking soda decomposes at 200 °C to sodium carbonate, water, and carbon dioxide, as shown in the unbalanced reaction below.



Balance the reaction. 42 grams of baking soda is used in the reaction? What volumes of carbon dioxide and water are produced in the reaction?

3. For the following reaction:



1.5 mol of CO and 2.0 mol of oxygen react in a closed 10 L vessel.

a. How many moles of CO, O₂, and CO₂ are present at the end of the reaction?

b. What will be the total pressure in the flask at 273 K?

Gas Stoichiometry Answers With Work

Annelies Wilder-Smith



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