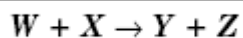




If 0.600 gram of zinc is used, what is the amount of zinc chloride that is produced in the above reaction?

- a. 0.125 gram b. 1.25 grams c. 12.5 grams d. 0.018 gram



11. _____ How many grams of product Z will be formed if 12.0 g of W react with 10.0 g of X to form 8.0 g of product Y in the reaction shown?

- a. 8.0 g b. 10.0 g c. 12.0 g d. 14.0 g



What mass of potassium hydroxide is required to react completely with 2.70 g of sulfuric acid to produce potassium sulfate and water?

- a. 4.73 g b. 3.09 g c. 2.36 g d. 1.54 g



If 6 liters of hydrogen gas are used, how many liters of nitrogen gas will be needed for the above reaction at STP?

- a. 2 liters b. 3 liters c. 4 liters d. 12 liters

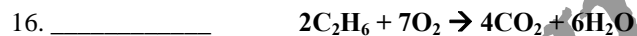
14. _____ Formaldehyde (H_2CO) reacts with oxygen to form CO_2 and H_2O . How many moles of CO_2 will be produced from reacting 2 moles of H_2CO with oxygen?

- a. 1 b. 2 c. 4 d. 8



What is the mole ratio of C_4H_{10} to CO_2 in the reaction shown?

- a. 1:4 b. 2:13 c. 4:5 d. 13:8



In the combustion of ethane, how many moles of CO_2 can be produced from 1.00 mole of C_2H_6 ?

- a. 0.500 mole b. 1.00 mole c. 2.00 moles d. 4.00 moles



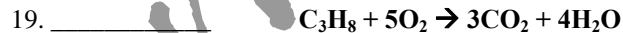
The equation shows the combustion of butane C_4H_{10} . How many moles of water can be produced by 12.5 moles of butane with excess oxygen?

- a. 2.50 mol b. 62.5 mol c. 125 mol d. 202 mol



What mass of nitrogen is required to react with 16 grams of oxygen?

- a. 2.8 g b. 5.6 g c. 14 g d. 56 g



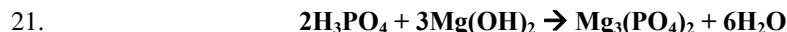
If 5.0 moles of C_3H_8 react, how many molecules of water are formed?

- a. 2.4×10^{25} b. 1.2×10^{25} c. 4.8×10^{24} d. 3.0×10^{24}



How many moles of hydrogen gas are produced when 0.066 mole of sodium is completely reacted?

- a. 0.022 mol H_2 b. 0.033 mol H_2 c. 0.066 mol H_2 d. 0.099 mol H_2



Phosphoric acid is neutralized by magnesium hydroxide, according to the equation shown. How many moles of water will be produced from the neutralization of 0.24 mole of H_3PO_4 ?

- a. 0.24 mol b. 0.48 mol c. 0.72 mol d. 1.44 mol