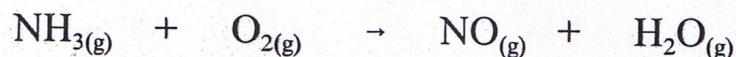


Stoichiometry Problems

1. Upon the addition of heat to an unknown amount of KClO_3 , 0.96 g of oxygen was liberated, with KCl being the other product. How much KClO_3 was present?

2. Given the reaction



how many grams of NH_3 will be required to react with 80 g of O_2 ?

3. A chemist decides to react 2.0 g of VO with 5.75 g of Fe_2O_3 to produce V_2O_5 and FeO . How many grams of V_2O_5 can be obtained?
4. Determine the weight of CO_2 and H_2O produced on burning 104 g of C_2H_2 in excess oxygen.
5. Silver bromide, used in photography may be prepared from AgNO_3 and NaBr . In this double replacement reaction, calculate the mass of each required to produce 245 g of AgBr ?
6. What mass of sulfur must combine with aluminum to form 100 g of aluminum sulfide?