Chemistry
Stoichiometry Problems

1. \[ \text{P}_4(\text{g}) + \text{F}_2(\text{g}) \rightarrow \text{PF}_5(\text{g}) \]

/0.1g a) If 7.60 grams of F_2 react, how many grams of PF_5 are produced?

44.8L b) If 24.8 grams of P_4 react, how many liters of F_2 react?

2. \[ \text{C}_6\text{H}_12\text{O}_6(\text{g}) + \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \]

12.8L a) How many liters of CO_2 are produced if 12.8 liters of O_2 react?

37.5g b) If 22.50 grams of water are produced, how many grams of C_6H_12O_6 react?

3. \[ \text{NaOH}(\text{g}) + \text{H}_3\text{PO}_4(\text{g}) \rightarrow \text{Na}_3\text{PO}_4(\text{g}) + \text{H}_2\text{O}(\text{g}) \]

5.33L a) How many liters of H_3PO_4 react, if 16.0 liters of NaOH react?

7.20L b) If 7.20 liters of water are produced, how many liters of NaOH react?
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