

Chemistry – Unit 7 Worksheet 3

Write balanced chemical equations for the following reactions.

Hydrogen gas (collected over water) is also collected in the (usual) 1.0 volume flask (collected) at 25 °C.

1. Acetylene (C_2H_2) reacts with water hydrogen chloride for three acetylene, a hydrogen.

$$3\text{C}_2\text{H}_2 + 2\text{HCl} \rightarrow 3\text{C}_2\text{H}_4$$

2. Calcium carbonate is decomposed (superheating) for three calcium oxide and carbon dioxide.

$$\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$$

3. Barium sulfate reacts with water for three barium hydroxide.

$$\text{BaSO}_4 + 2\text{H}_2\text{O} \rightarrow \text{Ba(OH)}_2$$

4. Dichloromethane (CH_2Cl_2) decomposes to form methane (CH_4) and carbon monoxide.

$$\text{CH}_2\text{Cl}_2 \rightarrow \text{CH}_4 + \text{CO}$$

5. Zinc reacting with copper (II) chloride for three zinc chloride and copper.

$$\text{Zn} + \text{CuCl}_2 \rightarrow \text{ZnCl}_2 + \text{Cu}$$

6. Calcium sulfate decomposes water for three calcium oxide and sulfur dioxide.

$$\text{CaSO}_4 + \text{H}_2\text{O} \rightarrow \text{CaO}$$

7. Iron reacting with sulfur gas (Fe_2S_3) for three iron (II) sulfide and hydrogen gas.

$$3\text{Fe} + \text{Fe}_2\text{S}_3 \rightarrow 3\text{FeS} + \text{H}_2$$

8. A nitrogen containing carbon compound, $\text{C}_2\text{H}_5\text{N}_3$, decomposes to form nitrogen, C_2H_4 , and nitrogen gas.

$$\text{C}_2\text{H}_5\text{N}_3 \rightarrow \text{C}_2\text{H}_4 + \text{N}_2$$

9. Phosphorus, P_4O_{10} , is formed when carbon monoxide reacts with phosphorus gas.

$$\text{P}_4 + 10\text{CO} \rightarrow \text{P}_4\text{O}_{10} + 10\text{C}$$

Chemistry Unit 7 Ws3 Answers

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