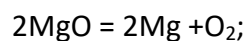


Answer on Question #73071 - Chemistry - General Chemistry

Question: Magnesium oxide decomposes into magnesium and oxygen. If 16.12 g of magnesium oxide decomposes to form 9.72 g of magnesium, what mass of oxygen gas is also released in the reaction?

Solution:

According to the law of conservation of masses (A. Lavoisier): The mass of substances that react, always equal to the mass of substances that are formed as a result of the reaction.



$$m(\text{MgO}) = m(\text{Mg}) + m(\text{O}_2);$$

$$m(\text{O}_2) = m(\text{MgO}) - m(\text{Mg}) = 16.12 - 9.72 = 6.4 \text{ g.}$$

Answer: 6.4 g.

Answer provided by AssignmentExpert.com