

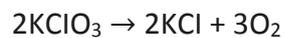
Answer on Question #41666, Chemistry, Organic Chemistry

Question:

How much KClO_3 must be heated to obtain 2.50 gram of oxygen?

Answer:

The equation of this reaction:



For solving this question we can use proportion:

$$\text{Molecular mass of } \text{KClO}_3 = 122.5 \times 2 = 245$$

$$\text{Molecular mass of } \text{O}_2 = 32 \times 3 = 96.$$

Suppose that x is mass of KClO_3 .

$$\text{So, we get the proportion: } x/245 = 2.50\text{g}/96$$

$$x = 6.38\text{g of } \text{KClO}_3$$