## Question #81323

How many grams of O2(g) are needed to completely burn 78.3 g of C3H8(g)?

Answer:

The mass of oxygen, which is needed to burn 78.3 g of propane, is equal to 284.73 g.

According to the chemical equation, the mass of oxygen, which is needed to burn 78.3 g of  $C_3H_8$ , is equal to:

78.3, 
$$g$$
  $x$ ,  $g$ 

$$C_3H_8 + 5O_2 = 3CO_2 + 4H_2O$$
44,  $g$  160,  $g$ 

$$x = \frac{78.3 * 160}{44} = 284.73 g$$

Answer provided by www.AssignmentExpert.com