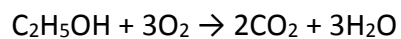


Answer on Question #52592 - Chemistry – Inorganic Chemistry

Question

Ethanol burns according to the following equation. If 15.0 mol of C₂H₅OH burns this way, how many moles of oxygen are needed?



Answer:

According to the reaction equation:

1 mol of C₂H₅OH needs 3 mol of O₂

15.0 mol of C₂H₅OH – x mol of O₂

$$x = \frac{15.0 \cdot 3}{1} = 45.0 \text{ mol}$$

Answer: 45.0 mol of oxygen are needed