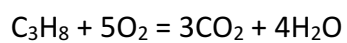


Question #70034, Chemistry / General chemistry

If you start with 14.8 g of C₃H₈ and 3.44 g of O₂ what is the limiting reagent?

Solution



$$n(\text{C}_3\text{H}_8) = m/M = 14.8 / (12 \cdot 3 + 1 \cdot 8) = 0.337 \text{ (mol)}$$

$$n(\text{O}_2) = m/M = 3.44 / (16 \cdot 2) = 0.107 \text{ (mol)}$$

Answer

O₂ is the limiting reagent