

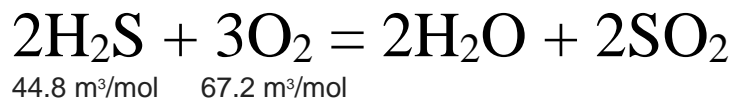
$$n(H_2S) = 96.7 \text{ moles}$$

$$V_M(H_2S) = 44.8 \text{ m}^3/\text{mol}$$

$$V_M(O_2) = 67.2 \text{ m}^3/\text{mol}$$

$$n(O_2) = ?$$

96.7 moles x moles



$$n(O_2) = \frac{n(H_2S) * V_M(O_2)}{V_M(H_2S)}$$

$$n(O_2) = \frac{96.7 \text{ moles} * 67.2 \frac{\text{m}^3}{\text{mol}}}{44.8 \frac{\text{m}^3}{\text{mol}}} = 145.05 \text{ moles}$$

Answer: 145.05 moles of oxygen

Answer provided by AssignmentExpert.com