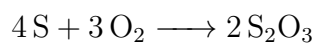


Quiz Chapter 3 – Question One

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$$m_{\text{S}} = .012 \cdot 10000$$

$$= 120[\text{g}_{\text{S}}]$$

$$\text{mol}_{\text{S}} = \frac{120}{32} \cdot \frac{1}{4}$$

$$= .9375[\text{mol}_{\text{S}}] \rightarrow 1.875[\text{mol}_{\text{S}_2\text{O}_3}] \quad (1)$$

$$m_{\text{S}_2\text{O}_3} = 1.875 \cdot 112$$

$$= 210[\text{g}_{\text{S}_2\text{O}_3}]$$

$$V = \frac{m}{\rho} = \frac{210}{2.6}$$

$$V = 80.77[\text{L}]$$

1

¹I believe you may have meant to put g mL^{-1} , as the answer comes out to be somewhat strange