

Quiz Chapter 5 — Question One

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$$125 \cdot .804 = 100.5[\text{g}]$$

$$m_{molar} = 60 \left[\frac{\text{g}}{\text{mol}} \right]$$

$$\frac{100.5}{60} = 1.675[\text{mol}_{\text{C}_3\text{H}_7\text{OH}}]$$

$$3 \cdot 1.675 = 5.025[\text{mol}_{\text{CO}_2}]$$

(1)

$$V = \frac{nRT}{P}$$

$$\frac{5.025 \cdot .0821 \cdot 299}{1.01} = 122.13[\text{L}]$$