

### Example Problem 3

In the Dumas-bulb technique for determining the molar mass of an unknown liquid, you vaporize the sample of a liquid that boils below 100 °C in a boiling water bath and determine the mass of vapor required to fill the bulb. From the following data, calculate the molar mass of the unknown liquid: mass of unknown vapor = 1.012 g, volume of bulb = 354 cm<sup>3</sup>, pressure = 742 torr, temperature = 90 °C

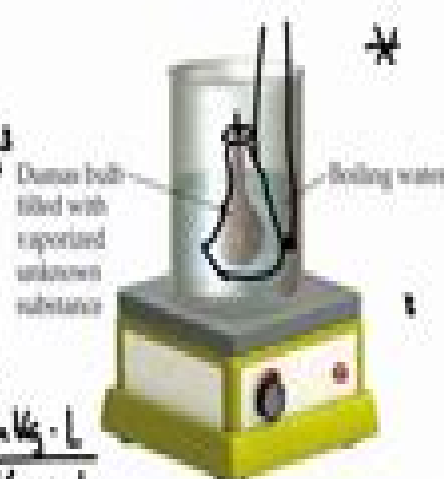


$$\begin{aligned}\text{Mass} &= 1.012 \text{ g} \\ \text{Vol} &= 354 \text{ mL} = \text{cm}^3 \\ &= .354 \text{ L}\end{aligned}$$

$$\text{Pressure} = 742 \text{ torr}$$

$$R = 62.4 \frac{\text{mmHg} \cdot \text{L}}{\text{K} \cdot \text{mol}}$$

$$\begin{aligned}T &= 90^\circ \text{C} \\ &+ 273\end{aligned}$$



### Example Problem 4

# Molar Mass Determination Real World Applications

**Padhraic Smyth**



## **Molar Mass Determination Real World Applications:**

## **Molar Mass Determination Real World Applications** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Molar Mass Determination Real World Applications**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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