Mole Concept & Stoichionetry

density of water

$$\frac{2n + 11_{2}S0_{4}}{98} \rightarrow \frac{2nS0_{4} + 11_{2}}{50 \times 1.3 g}$$
 $\frac{1}{404}$

$$\frac{40}{100} \times 50 \times 1.39$$
 $\frac{n_{42504}}{98} = \frac{26}{98}$

$$\frac{38}{38} = \frac{2}{100} + \frac{2}{100} + \frac{1}{100} = \frac{6.839}{35} = 0.1$$

$$\frac{6.839}{65.13} = 0.1$$

$$\frac{63.5}{16} = \frac{16}{79.5} = 7.95$$

$$= 7.95$$

$$\frac{\text{HCOOH} + \text{H2SO}_4 \longrightarrow \text{H2O} + \text{CO}}{\text{X}}$$

$$\frac{\text{Dehydrating}}{\text{agent}} \times \times \times$$

$$\frac{\text{agent}}{\text{COOH}}$$

$$\frac{\text{I}}{\text{I}} + \text{H2SO}_4 \longrightarrow \text{H2O} + \text{CO} + \text{CO}_2$$

$$\frac{\text{COOH}}{\text{COOH}} + \frac{1}{1} = \frac{1}{1}$$

$$\frac{\text{KOH}}{\text{Base}} + \frac{\text{CO}_2}{\text{1}} \longrightarrow \frac{\text{K2CO}_3^{(6)} + \text{H2O}}{\text{Salt}} \longrightarrow \frac{\text{Vater}}{\text{water}}$$

total 10 moles of gases = x+2

$$1 = \frac{1}{6}(n+2) \Rightarrow n = 4$$
reduction
in vol

(3-
$$\pi$$
)L

(3- π)L

(3- π)L

(3- π)L

(3- π)L

$$3n + 4(3-n) = 10$$

 $3n + 12 - 4n = 10$
 $(n = 2)$

$$=\frac{10^8}{9.1 \times 6.023}$$

Integer Answere

$$n = MxV$$

$$= 0.8xV = 0.5$$

$$= 0.8xV = \frac{0.5}{123.5}$$

$$V(mL) = \frac{1000}{123.5} mL = 8.097 mL$$

Volume =
$$\pi r^2 h = \pi \times \left(\frac{150 \times 10^{-10}}{2}\right)^2 \times 5000 \times 10^{-10} \text{ cm}^3$$

mass = voux density 0.75 cm/g 0.75 cm -> 19

mass of one particle =
$$7 \times (150 \times 10^{8})^{2} \times 5000 \times 10^{8}$$

= 7.09 x10 g.

$$\begin{array}{c} (000) & \text{H} & (000) & \text{H} &$$

$$\frac{1}{n+2} = \frac{1}{6} \Rightarrow 2 + 2 = 6$$