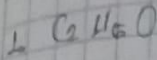


QUESTION



$$M = 82.5g$$

$$V = 0.45L$$

$$P_m = 46$$

$$12 \cdot 2 = 24$$

$$1 \cdot 6 = 6$$

$$16 \cdot 1 = 16$$

$$M = \frac{82.5}{(46)(0.45)} = \frac{82.5}{20.7} = 3.98M$$

2. $V = 1000 \text{ ml} = 1L$

$$n = 4.78 \text{ mol}$$

$$M = 0.682M$$

3. $n = 0.10 \text{ gm}$

$$M = 0.05M$$

$$n = \frac{3.65}{365} = 0.10m$$

$$m = \frac{0.10}{2} = 0.05m$$

4. $V = 0.250L$

$$N = 0.500ML$$

$$M = 2M$$

$$N = \frac{49.04g}{98g/mol} = 0.500 \text{ ml} \quad | \quad V = \frac{250}{1000} = 0.250L$$

$$M = \frac{0.500M}{0.250L} = 2M$$