

Molality is number of moles of solute present in 1 kg of solvent.

e.g. if 80 g NaOH is present in 1000 g water then the molality will be calculated number of

$$\text{moles of NaOH} = \frac{\text{Amount}}{\text{Molar Mass}}$$

$$= \frac{80}{40} = 2$$

Here 2 moles of NaOH are in 1000 g (or 1 kg)

Solvent so the molality is 2 molal

$$\text{Formulae of molality} = \frac{W_{\text{Solute}}}{M_{\text{Solute}} \times W_{\text{solvent}} (\text{kg})}$$

$$= \frac{W_{\text{Solute}} \times 1000}{M_{\text{Solute}} \times W_{\text{solvent}} (g)}$$

Mol fraction: Fraction of moles of a particular component in mixture.

e.g. In mixture of He(2 mol) and Ne(3 mol) the mol fraction of He = $\frac{2}{2+3} = \frac{2}{5} = 0.4$

the mol fraction of Ne = $\frac{3}{2+3} = \frac{3}{5} = 0.6$

Formula for mol fraction of component A

$$\left[X_A = \frac{n_A}{\sum_{i=1}^n n_i} = \frac{\text{number of moles of A}}{\text{Total number of moles of all species}} \right]$$

Mole Fraction Problems And Solutions

ML Morrison



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