

# Chemistry

(www.tiwariacademy.com)  
(Chapter 1)(Solutions) (Exercises)  
(Class 12)

## Question 1.26:

If the density of some lake water is  $1.25 \text{ g mL}^{-1}$  and contains 92 g of  $\text{Na}^+$  ions per kg of water, calculate the molality of  $\text{Na}^+$  ions in the lake.

## Answer 1.26:

Number of moles present in 92 g of  $\text{Na}^+$  ions =  $\frac{92 \text{ g}}{23 \text{ g mol}^{-1}} = 4 \text{ mol}$

Therefore, molality of  $\text{Na}^+$  ions in the lake =  $\frac{4 \text{ mol}}{1 \text{ kg}} = 4 \text{ m}$

## Question 1.27:

If the solubility product of  $\text{CuS}$  is  $6 \times 10^{-16}$ , calculate the maximum molarity of  $\text{CuS}$  in aqueous solution.

## Answer 1.27:

Solubility product of  $\text{CuS}$ ,  $K_{sp} = 6 \times 10^{-16}$  Let  $s$  be the solubility of  $\text{CuS}$  in  $\text{mol L}^{-1}$ .



$$K_{sp} = [\text{Cu}^{2+}][\text{S}^{2-}]$$

Now,

$$= s \times s = s^2$$

Then, we have,  $K_{sp} = s^2 = 6 \times 10^{-16}$

$$\Rightarrow s = \sqrt{6 \times 10^{-16}} = 2.45 \times 10^{-8} \text{ mol L}^{-1}$$

Hence, the maximum molarity of  $\text{CuS}$  in an aqueous solution is  $2.45 \times 10^{-8} \text{ mol L}^{-1}$ .

## Question 1.28:

Calculate the mass percentage of aspirin ( $\text{C}_9\text{H}_8\text{O}_4$ ) in acetonitrile ( $\text{CH}_3\text{CN}$ ) when 6.5 g of  $\text{C}_9\text{H}_8\text{O}_4$  is dissolved in 450 g of  $\text{CH}_3\text{CN}$ .

## Answer 1.28:

6.5 g of  $\text{C}_9\text{H}_8\text{O}_4$  is dissolved in 450 g of  $\text{CH}_3\text{CN}$ .

Then, total mass of the solution =  $(6.5 + 450) \text{ g} = 456.5 \text{ g}$

Therefore, mass percentage of  $\text{C}_9\text{H}_8\text{O}_4 = \frac{6.5}{456.5} \times 100 \% = 1.424\%$

## Question 1.29:

Nalorphene ( $\text{C}_{19}\text{H}_{21}\text{NO}_3$ ), similar to morphine, is used to combat withdrawal symptoms in narcotic users. Dose of nalorphene generally given is 1.5 mg. Calculate the mass of  $1.5 \times 10^{-3} \text{ m}$  aqueous solution required for the above dose.

## Answer 1.29:

The molar mass of Nalorphene ( $\text{C}_{19}\text{H}_{21}\text{NO}_3$ ) is given as:

$$19 \times 12 + 21 \times 1 + 1 \times 14 + 3 \times 16 = 311 \text{ g mol}^{-1}$$

In  $1.5 \times 10^{-3} \text{ m}$  aqueous solution of nalorphene, 1 kg (1000 g) of water contains  $1.5 \times 10^{-3} \text{ mol}$   
 $= 1.5 \times 10^{-3} \times 311 \text{ g} = 0.4665 \text{ g}$

Therefore, total mass of the solution =  $(1000 + 0.4665) \text{ g} = 1000.4665 \text{ g}$

This implies that the mass of the solution containing 0.4665 g of nalorphene is 1000.4665 g.

Therefore, mass of the solution containing 1.5 mg of nalorphene is:  $\frac{1000.4665 \times 1.5 \times 10^{-3}}{0.4665} \text{ g} = 3.22 \text{ g}$

Hence, the mass of aqueous solution required is 3.22 g.

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**Léo Pomar**



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