

HOME ASSIGNMENT-3

2/7/21

1. What is aq. and non-aq. solutions? Give one example from each type.
2. How much amount of salt can maximum get dissolved in 240 ml of water if the solubility of the salt is 24g?

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ANSWERS

1. A solution in which the solvent is water is known as an aqueous solution.
Eg. Salt in water solution.

A solution in which the solvent is any other liquid other than water is known as a non-aqueous solution.
Eg. Iodine in alcohol.

2. Solubility of the salt = 24g
↳ this means ^{Max. of} 24g of salt can be dissolved in 100g of water.

⇒ In 100g of water, = 24g of salt dissolved

In 1g of water = $\left(\frac{24}{100}\right)$ g of salt dissolved

∴ In 240ml of water = $\frac{24}{100} \times 240$

$$= \frac{6}{5} \times 48$$

⇒ 57.6g of salt dissolved (Ans)

∴ Thus, 57.6g of salt can max. get dissolved in 240 ml of water.

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