

CHM191

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1. Define standard solution?

A solution of which the concentration is partially known

Concentration which has 1 mol dissolved in 1 dm³ of solvent

--->> A solution of which the concentration is accurately known

A solution containing a pure substance dissolve in a known volume of solvent

2. A substance which loses water of hydration upon exposure to atmosphere is called?

Deliquescent substance

--->> Efflorescence substance

Anhydrous substance

Hygroscopic substance

3. What is the percentage w/w % ethanol if 5 g of ethanol is dissolved in 20 g of water?

\$\$\$72 % w/w\$\$\$

--->> \$\$\$20 % w/w\$\$\$

\$\$\$5 % w/w\$\$\$

\$\$\$25 % w/w\$\$\$

4. In a chemistry laboratory a stoke bottle of acid solution reads, "1.25 specific gravity"; what does that mean?

It means 100 cm³ of that solution weight 12500 g

It means 1 cm³ of that solution weight 1250 g

It means 1 cm³ of the weight 125 g

--->> 1 cm³ of that solution weight 1.25 g

5. If 2 cm³ of a stoke solution contains 1 mole of an acid how would you prepare 1 molar concentration of that acid in 250 cm³ of water?

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Dissolve 1 cm^3 of the stock solution in 250 cm^3 of water

---> Dissolve 2 cm^3 of the stock solution in 248 cm^3 of water

Dissolve 1 cm^3 of the stock solution in 249 cm^3 of water

6. What is the w/v percentage concentration of 300ml of NaCl(aq) containing 5 g NaCl?

---> 1.66 % w/v

305 % w/v

150 % w/v

60 % w/v

7. In preparing a standard solution, two factors must be considered?

1. The solute must be solid and 2. the solvent must be liquid

---> 1. The solute must be pure and 2. a suitable solvent be measured to definite volume

1. The solvent must be water and 2. the solute must be crystal form

1. The solute's nature must be known and 2. the solvent can be unknown

8. Calculate the mass of NaCl in 450 g of NaCl solution containing NaCl w/w %?

485 g

450 g

35 g

---> 157.5 g

9. A solution contains 1.2 Molar concentration, what volume of it must be diluted with water to give 600 mls of 0.5 Molar solution?

---> 25 mls

300 mls

600 mls

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10. A substance which takes in only moisture upon exposure to atmosphere is refer to as?

--->> Deliquescence substance

Anhydrous substance

Efflorescence substance

Hygroscopic substance

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