

**12. What is principle of vacuum distillation & Define Vacuum?**

Vacuum is pressure less than atmospheric pressure, when it is applied at that time liquid boils before its boiling point.

**Vacuum:** – Pressure below the atmospheric pressure is called vacuum.

**13. MSDS (Three or Four sentences)**

**MSDS** – Material safety data sheet. It includes...

- Product information
- Hazard information
- Fire and explosive hazardness
- First aid measure
- Safety information

**14. State Boyle law, Charles law, Gay-Lussac law?**

**Boyle law:** – For a fixed mass of gas at constant temperature, the volume is inversely proportional to the pressure.

$$V \propto 1/p \quad T - \text{Constant}$$

**Charles law:** - For a fixed mass of gas at constant pressure, the volume is directly proportional to the temperature.

$$V \propto T \quad P - \text{Constant}$$

**Gay-Lussac law:** - For a fixed mass of gas at constant volume, the pressure is directly proportional to the temperature.

$$P \propto T \quad V - \text{Constant}$$

**15. What is the value of Avogadro number & It's Significance?**

Avogadro number is the defined as the number of particle (Molecule, atoms, compound) per moles of substance.

Value of Avogadro number is  $6.022 \times 10^{23} \text{ Mol}^{-1}$ , and expressed as the symbol  $N_A$ .

**16. Define Freezing point? Write the Freezing point of Methanol, Ethanol, Benzene, Acetone, Toluene?**

**Freezing point:** – The freezing point is the temperature at which a liquid changes to a solid when cooled.

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**R Pring**



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