

Chemistry

Class : IX to X

1. © SI unit of volume is m^3 .
2. Ⓐ For temperature change centigrade scale and kelvin scale has same value.
3. Ⓑ Solid CO_2 = Dry ice.
4. Ⓑ Bose -Einstein Condensate is a state of matter attained when gas with density $\frac{1}{100000}$ of density of normal air is got super cooled.
5. Ⓐ Diameter of solute particle is less than 1nm.
6. Ⓑ Solubility = $\frac{\text{Amount of solute}}{\text{Amount of solution}} \times 100\%$

$$= \frac{40}{320+40} \times 100\% = 11.1\%$$
7. Ⓑ Both sol & suspension are heterogeneous.
8. Ⓓ Liquid in liquid colloid = Emulsion.
9. Ⓓ Chromatography can separate pigments from colour.
10. © Solubility of NH_4Cl decreases with increase in temperature.
11. © Total mass of reactants = Total mass of products.
12. Ⓓ Carbon — 12
Sodium — 23
Calcium — 40
Sulphur — 32
13. © If two elements combine to give more than one compounds, that is dealt in law of multiple proportion.
14. © A $\Rightarrow 15 \Rightarrow 2, 8, 5$: So valency = 5 & 3
B $\Rightarrow 17 \Rightarrow 2, 8, 7$: So valency = 1
So the compounds are AB_5 & AB_3
15. Ⓑ Average atomic mass = $\frac{AX+BY+CZ}{A+B+C}$