

UNIT 1

11.1

- Condensed phases- a phase in which the particles are packed in close proximity to one another
- IMFs: solid>liquid>gas
- IMFs are the forces that exist between the molecules, atoms, or ions that make up a particular substance
- Stronger the IMFS, that harder it is to separate the particles.
- Fusion: solid \rightarrow liquid and Vaporization: liquid \rightarrow gas both require an input of energy
- Condensation: gas \rightarrow liquid releases energy
- Enthalpy of vaporization ΔH_{vap} is the energy required to convert one mole of a liquid to vapor at a given temperature
- As IMF $\uparrow = \Delta H_{\text{vap}} \uparrow$



11.2

- Vapor Pressure- the pressure of the vapor of a substance in contact with its liquid or solid phase in a sealed container
 - When liquid is placed in a sealed container, some molecules escape into vapor phase (increasing vapor pressure) and some will recondense into liquid phase. When these become equal, they reach the dynamic equilibrium
 - Equilibrium vapor pressure is the pressure of vapor of a substance at equilibrium in contact with its liquid or solid phase in a sealed container
- \uparrow temperature = \uparrow VP
- \uparrow IMFs = \downarrow VP
- Boiling Point of a liquid is when the Vapor pressure of the liquid is equal to the external pressure
 - Normal boiling point is the temperature when the vapor pressure of a liquid is equal to 1 atm (760 mmHg)
- \uparrow IMFs = \uparrow BP

$$\ln P = \frac{-\Delta H_{\text{vap}}}{RT} + C \quad \ln \frac{P_2}{P_1} = \frac{-\Delta H_{\text{vap}}}{R} \left(\frac{1}{T_2} - \frac{1}{T_1} \right)$$

- $R = 8.314 \times 10^{-3} \text{ kJ/K} \cdot \text{mol}$, $C = \text{constant of integration}$
 - $\ln P$ vs. $1/T$ and the slope is $-\Delta H_{\text{vap}}/R$

11.3

- Cohesive forces: a force of attraction between molecules of a single substance and affect the physical properties of a liquid
- Surface tension is the measure of force required to "break" the surface of a liquid
 - Results from different IMFs experienced by molecules at the surface of a liquid and those in the interior of the liquid

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Organic Chemistry David R. Klein, 2020-12-22 In *Organic Chemistry* 4th Edition Dr David Klein builds on the phenomenal success of the first three editions with his skills based approach to learning organic chemistry The Klein program covers all the concepts typically covered in an organic chemistry course while placing a special emphasis on the skills development needed to support these concepts Students in organic chemistry need to be able to bridge the gap between theory concepts and practice problem solving skills Klein's SkillBuilder examples and activities offer extensive opportunities for students to develop proficiency in the key skills necessary to succeed in organic chemistry *Bulletin* Valdosta State College, 1922
Students Enrolled for Advanced Degrees, Fall 1971 United States. Office of Education, 1974 Catalogue of the Public Documents of the ... Congress and of All Departments of the Government of the United States for the Period from ... to ..., 1929 *Catalogue of the Public Documents of the [the Fifty-third] Congress [to the 76th Congress] and of All Departments of the Government of the United States* United States. Superintendent of Documents, 1896 Independent Offices Appropriations United States. Congress. House. Committee on Appropriations. Subcommittee on Independent Offices, 1958
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