

Equation Sheet for A-Level Chemistry

These are the equations you need to

memorise for your Chemistry A-Level



Amount of Substance

Moles

$$n = \frac{m}{M_r}$$

Concentration

$$c = \frac{n}{V}$$

Molar gas volume

$$V = n \times 24$$

Number of particles

$$= n \times N_A$$

Ideal gas Equation

$$pV = nRT$$

Atom economy

$$= \frac{\text{M}_r \text{ of desired product}}{\text{Sum of M}_r \text{ of all reactants}} \times 100$$

% Yield

$$= \frac{\text{Actual yield}}{\text{Theoretical yield}} \times 100$$

Energetics

Enthalpy change

$$Q = mc\Delta T$$

Average bond enthalpy

$$\Delta H = \sum (\text{bond enthalpies in reactants}) - \sum (\text{bond enthalpies in products})$$

Electrode Potentials

EMF

$$E^{\ominus} = E^{\ominus} \text{right hand side} - E^{\ominus} \text{left hand side}$$

Thermodynamics

Gibbs Free Energy Equation

$$\Delta G = \Delta H - T\Delta S$$

Transition Metals

Coloured complex ions - difference in energy

$$\Delta E = h\nu = \frac{hc}{\lambda}$$

Chemical Equilibria

Equilibrium constant wrt concentration

$$K_c = \frac{[D]^d [E]^e}{[A]^a [B]^b}$$

Equilibrium constant wrt pressure

$$K_p = \frac{(D)^d (E)^e}{(A)^a (B)^b}$$

Rate Equations

$$\text{Rate} = k[A]^m[B]^n$$

Arrhenius is provided but you should be able to use:

$$k = Ae^{-E_a/RT}$$

$$\ln k = -E_a/RT + \ln A$$

Acids and Bases

$$pH = -\log_{10}[H^+]$$

$$K_w = [H^+][OH^-]$$

$$pK_a = -\log_{10}K_a$$

$$K_a = \frac{[H^+][A^-]}{[HA]}$$

Calculations For A Level Chemistry

Wenbin Ji



Calculations For A Level Chemistry:

Calculations For A Level Chemistry: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Calculations For A Level Chemistry : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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