

MCAT Chemistry Equation Sheet

ORBITALS AND ELECTRONS

Quantum numbers descriptions

Quantum mamber	Description	Possible values
Principal quantum manber (n)	energy level	n=1, 2, 3
Angular monocotum quantum number (f)	orbital shape (s, p, d, f)	J = 0, sos- 1
Magnetic quantum number (m)	orbital oriomation (p., p., p.)	and the state of
Spile quantum number (m.)	describes spin of electron	100, 11 11 115 OK

Each electron has a unique set of quantum numbers.

ELECTRONIC CONFIGURATION

Electron configuration: describes the location of all of the electrons in an element, e.g. Carbon = ta/2a/2bc/

Heisensberg Uncertainty Principle: the position and monopolism of a particle cannot both be exactly known at the same time. Pauli exclusion principle: no two electrons in an attorn can have the name set of four quantum numbers (n, l. m, m,) which means that each orbital with quantum numbers (n, l. m) can hold at most two electrons with reposition seins.

Bland's rule: when electrons added to orbitals of equal energy, a single electron enters each orbital before a second electron with apposite spin cuters any orbital. The spins remain parallel if possible, e.g.

Notrogem N = T	74	7.4	1.1
T.	24	24	2p., 2p.,

Author Principle: dictates the order in which orbitals fill. Some exceptions occur in the transition elements.

14 2s: 2p 3s: 3p 3d ds: 4p 4d 4f 5s: 5p 5d 5f ds: 6p 6d 6f

THE GAS PHASE

Units of Pressure:

Table = 760 rhmHg = 760 torr = 101.325 kPa = 1.01325 barr

CONTRACTORS WORTHWATERS

- molecules are very small compared to the distance b'w them.
- 2. molocules are continuously moving
- pressure of the gas collisions of the meteories with container walls
- 4. molecules do not experience intermolecular

Ideal-gas law: PV = nRT

Combined gas leve: $\frac{P_i V_i}{T_i} \approx \frac{P_i V_j}{T_i}$

Charles' law: $\frac{V_{i}}{T_{i}} = \frac{V_{i}}{T_{i}}$ P =

Bestr's law: $PE = P_1F_2$ $F = \phi_0$

No one, $\Gamma_{i} = \frac{P_{i}}{r_{i}} = \frac{P_{i}}{r_{i}}$ $\Gamma = cons$

STP – standard temperature (0°C or 273.15 K) and provious (1 atm)

I mol of ideal gas occupies F = 22.4 L standard conditions - 25°C and 1 atm

Dialton's law of partial pressure (misture of the gases)

$$P = p_x + p_x + ... + p_x$$

 $p_x = \gamma_x \cdot P$

$$\chi_x = \frac{n_x}{n_{\text{max}}} = \frac{N_x}{N_{\text{max}}}$$

GRAHAM'S LAW OF EFFUSION

$$\frac{v_s}{v_s} = \sqrt{\frac{m_s}{m_s}}$$

$$KE_A = \frac{1}{2}m_A v_A^2$$

$$KE_A = KE_B = T_A = T_B$$
 bic $KE \propto T$, but

$$v_A \neq v_B \neq T_A = T_B$$

What leads to the pas "idealty", high T & low P & lower molecular weight or small size of gas molecules

Real cases:

- have intermolecular attractions (non-elastic optisions) called Van der Waals forces.
- contain molecules that have volume (or mean ratio site)

$$\left(P_{net} + a\frac{n^2}{V^2}\right) \cdot \left(V_{net} - nb\right) = nRT$$

INTERMOLECULAR FORCES

DISPERSION FORCES:

Describe the attraction between the negatively charged electron cloud of one molecule and the positively charged nuclei of neighbouring molecules. Descuar Forces:

Describe the attraction between the negatively charged end of a polar molecule and the positively charged ends of neighbouring polar molecules Hydeocen Bosones:

Inviolves fore pairs of electrons on an electronegative atom of one molecule and a polar bond to hydrogen in another molecule, they are confined to molecules that contain O, N, and F stores.

Procamicanicity:

The ease with which the electron clouds are distorted

MOUROULAN SOURCE

Molecules in molecular solids are held in place by the types of forces: dispersion forces, dipolar interactions, and/or hydrogen bonds

METALLIC SOLICE

Atoms in metallic solids are held in place by

delocalised bonding

Name of the Name of Street, Spirit, Sp

Contains an array of covalent bonds linking every atom to its neighbours

Joseph Soulo:

Contains cations and anions, attracted to one another by coulombic interactions

SOLUTIONS

molarity (M)	modes of solute/volume of solution. M=s/V
modulating days	moles of solute/kg of solvent
mode fraction (g)	medies of solute/total motes
mass percent	mass of solute x 190/ total mass of solution
parts per million (ppm)	mass of solute s 10°/total mass of solution

Repult's Law (distillation)

$$P_x = X_x P_x^{\alpha}$$

Where P_d = partial pressure of A in solution X_d = mode fraction of A in the liquid P_d^* = vapour pressure of pure A

Colligative properties (melting/boiling points etc.)

Frocering point depression; salt on the sidewalk in winter lowers the focuring point of H₂O to prevent the water from froceing

$$\Delta T_{\nu} = 3c_{\nu} m_{\nu}$$

Booling point elevation: salt in pasts water increases the booling point of H_O so that the water bools hotter (and year pasts cooks more queckly).

$$\Delta T_{\rm in} = R_{\rm in} m T$$

Osimotic pressure: increase in pressure due to a solvent crossing a membrane into a mosty concentrated solution. ITV—mRT



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- 1. Understanding the eBook Mcat Chemistry Review Sheet
 - The Rise of Digital Reading Mcat Chemistry Review Sheet
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mcat Chemistry Review Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mcat Chemistry Review Sheet
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mcat Chemistry Review Sheet
 - Personalized Recommendations
 - Mcat Chemistry Review Sheet User Reviews and Ratings
 - Mcat Chemistry Review Sheet and Bestseller Lists
- 5. Accessing Mcat Chemistry Review Sheet Free and Paid eBooks
 - Mcat Chemistry Review Sheet Public Domain eBooks
 - Mcat Chemistry Review Sheet eBook Subscription Services
 - Mcat Chemistry Review Sheet Budget-Friendly Options
- 6. Navigating Mcat Chemistry Review Sheet eBook Formats

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- Mcat Chemistry Review Sheet Enhanced eBook Features
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 - Highlighting and Note-Taking Mcat Chemistry Review Sheet
 - Interactive Elements Mcat Chemistry Review Sheet
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcat Chemistry Review Sheet
- 9. Balancing eBooks and Physical Books Mcat Chemistry Review Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcat Chemistry Review Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mcat Chemistry Review Sheet
 - Setting Reading Goals Mcat Chemistry Review Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mcat Chemistry Review Sheet
 - Fact-Checking eBook Content of Mcat Chemistry Review Sheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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