

of substance:

Substance:

of particles of a substance
in mol

6.02×10^{23} particles
amount of substance

Constant:

particles per mol, $6.02 \times 10^{23} \text{ mol}^{-1}$

Unit:

mol, measured in g
equivalent to mol

Atomic Structure

Isotopes:

→ Same # of protons, same element
of p^+ and e^- but different
neutrons different mass

Physical Properties:

→ Can be different - e.g. different
melting + boiling points
→ i.e. heavy water has higher melting
point + boiling point + density

Chemical Properties:

→ Same no. of electrons + same electronic
structure in outer shell + transfer of e^- is
unaffected hence have same chemical
properties.
→ Different no. of n has no effect
on bonding + reactions

Compounds + Ionic Formulae:

Alkali NO_3^-

Molar Gas Volume:

→ Volume of gas per mole of gas molecules in a stated temperature + pressure
- Measured in $\text{dm}^3 \text{ mol}^{-1}$ or $\text{m}^3 \text{ mol}^{-1}$

At RTP (20°C and 100kPa):
(293K and 100000Pa)

is $24\text{ dm}^3 \text{ mol}^{-1}$
at RTP.

Volume /
 dm^3

Electronegativity:

→ the measure of attraction of a bonded atom
in a covalent bond

Electronegativity increases across period:

- Increase in no. of protons in an atom
→ Nuclear charge increases

Electronegativity DE:

- More electron shells
→ More shielding
→ Atomic radius increases
→ Nuclear charge decreases
→ Nuclear attraction decreases
→ Electronegativity decreases

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→ Consists of a small dense
nucleus of protons + neutrons
surrounded by electrons orbiting
in electron shells in shells

- No. of p^+ = No. of e^-

→ Equal + opposite charges cancel
in atom has neutral charge
- Neutrons important in nuclear
stability - Electrostatic repulsion
between p^+ in small dense nucleus

Mass Number:

→ No. of p^+ + n in nucleus of atom
- p^+ and n have relative mass of 1
and e^- mass is negligible is 0

Relative Isotopic Mass:

→ The mass of an atom of an isotope
relative to $1/12$ th the mass of an atom of ^{12}C

Relative Atomic Mass:

→ The weighted mean mass of an atom of
an element relative to $1/12$ th the mass of
an atom of ^{12}C

Weighted Mean Mass:

→ Average mass of all isotopes, taking into
account the relative abundance of each isotope

- It dipoles
Molecule is
out + inlets

e.g. H_2O

- O is more electronegative than H
- O-H has permanent dipole
since do not cancel there is an overall dipole

e.g. CO_2

O is more electronegative than C
 $\text{C}=\text{O}$ has a dipole
but the bond is non-polar

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 - The Rise of Digital Reading Ocr Chemistry Unit 5 June 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Chemistry Unit 5 June 2014
 - 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 Ocr Chemistry Unit 5 June 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Chemistry Unit 5 June 2014
 - Personalized Recommendations
 - Ocr Chemistry Unit 5 June 2014 User Reviews and Ratings
 - Ocr Chemistry Unit 5 June 2014 and Bestseller Lists
5. Accessing Ocr Chemistry Unit 5 June 2014 Free and Paid eBooks

- Ocr Chemistry Unit 5 June 2014 Public Domain eBooks
- Ocr Chemistry Unit 5 June 2014 eBook Subscription Services
- Ocr Chemistry Unit 5 June 2014 Budget-Friendly Options
- 6. Navigating Ocr Chemistry Unit 5 June 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Chemistry Unit 5 June 2014 Compatibility with Devices
 - Ocr Chemistry Unit 5 June 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Chemistry Unit 5 June 2014
 - Highlighting and Note-Taking Ocr Chemistry Unit 5 June 2014
 - Interactive Elements Ocr Chemistry Unit 5 June 2014
- 8. Staying Engaged with Ocr Chemistry Unit 5 June 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Chemistry Unit 5 June 2014
- 9. Balancing eBooks and Physical Books Ocr Chemistry Unit 5 June 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Chemistry Unit 5 June 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Chemistry Unit 5 June 2014
 - Setting Reading Goals Ocr Chemistry Unit 5 June 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Chemistry Unit 5 June 2014
 - Fact-Checking eBook Content of Ocr Chemistry Unit 5 June 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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