

CHEMISTRY Terminology

The ABCs of chemistry

A

A: Symbol for atomic mass number
absolute zero: Lowest temperature; 0 Kelvin
Ac: Symbol for the element actinium, Z = 89
accuracy: The closeness of measurement to true value
acetate anion: CH_3COO^- , charge -1
acetic acid: $\text{C}_2\text{H}_4\text{O}_2$
acetone: Dimethyl ketone; organic solvent
acid-base indicator: A chemical that changes color if the pH changes
acid-base titration: A method for determining acid or base concentrations
acid definitions: See Arrhenius acid, Brønsted-Lowry acid, Lewis acid
acid ionization constant (K_{a}): Equilibrium constant for acid dissociation
acidic solution: pH below 7
actinides: Element with Z = 90 or above; radioactive
activation energy (E_a): A process's energy barrier
affiliation: Attraction of unlike molecules or materials
Ag: Symbol for the element silver, Z = 47
Al: Symbol for the element aluminum, Z = 13
alcohol: Organic compound with -OH group; $\text{R}-\text{OH}$
aldehydes: Carbonyl group bonded to hydrogen and an organic group
alkali metal family: Lithium, sodium, potassium, rubidium, cesium, and francium; column #1
alkaline earth metal family: Beryllium, magnesium, calcium, strontium, barium, and radium; column #2
alkane: Hydrocarbon; all C-C single bonds
alkene: Hydrocarbon; 1 or more C=C double bonds
alkyne: Hydrocarbon; 1 or more C≡C triple bonds
allotropes: Two or more forms of an element
alloy: Solution of 2 or more metals
alpha (α): Greek letter that denotes radioactive particle and various scientific variables
alpha particles: Helium nucleus; charge +2
Am: Symbol for the element americium, Z = 95
amalgam: Alloy of mercury with other metal
amine: Organic base; R_3N ; modified ammonia
amine acid: Compound with organic acid and organic base property; found proteins and peptides
ammonium: NH_4^+ ; base
ammonium cation: NH_4^+ ; charge +1
ammonium hydroxide: NH_4OH
amphoteric oxide: Exhibits both acid and basic properties
amu: Atomic mass unit; $1/12$ mass of $\text{C}-12$
anion: Ion with a negative charge
anode: Electrode that supports oxidation
antibonding MO: MO is less stable than regular MOs
AO: Abbreviation for atomic orbital



aq: Aquous; "dissolved in water"
Ar: Symbol for the element argon, Z = 18
aromatic: Organic compound with a benzene ring
Arrhenius acid: Produces hydronium ion in water solution
Arrhenius base: Yields hydroxide ion in water solution
Arrhenius equation for rate constant (k):

$$k = A e^{-E_a/RT}$$

E_a = activation energy

arsenide anion: As^{3-} ; charge -3
As: Symbol for the element arsenic, Z = 33
At: Symbol for the element astatine, Z = 85
atom: Smallest unit in "atmosphere"
atom: Fundamental unit of all matter
atomic mass number (A): Total number of protons and neutrons
atomic number (Z): Number of protons in the nucleus
atomic orbital: Wave motion of electrons in atoms
atomic radius: Empirical measure of atom size
atomic weight: Weighted average of natural isotopes of an element
Au: Symbol for the element gold, Z = 79
Aufbau principle: Order the filling of electronic subshells of the elements
Avogadro's law: Volume is proportional to gas moles at fixed pressure and temperature
Avogadro's number: $N_A = 6.022 \times 10^{23}$ mol⁻¹

B: Symbol for the element boron, Z = 5
Ba: Symbol for the element barium, Z = 56
balanced equations: Each side of the equation has the same number of atoms of each element and charge
balanced redox: Electron loss = electron gain
barium cation: Ba^{2+} ; charge +2
base definition: See Arrhenius base, Brønsted-Lowry base, Lewis base
base ionization constant (K_b): Equilibrium constant for base dissociation
basic solution: pH over 7
battery: Source of electrical power; galvanic cell
Ber: Symbol for the element beryllium, Z = 4
benzene: C_6H_6 ; organic solvent; aromatic ring of 6 carbon atoms
beryllium cation: Be^{2+} ; charge +2
beta (β): Greek letter that denotes radioactive particle and a number of scientific variables
beta particles: Energetic electrons from the nucleus; charge -1
Bh: Symbol for the element bismuth, Z = 107
Bk: Symbol for the element berkelium, Z = 97
bicarbonate anion: HCO_3^- ; charge -1
bimolecular oxygen: O_2
binary compound: Formed from 2 elements
bisulfate anion: HSO_4^- ; charge -1



Bk: Symbol for the element berkelium, Z = 97
bleach: Chemical that is a strong oxidizing agent
boiling: Liquid \rightarrow gas at the boiling point
boiling point elevation: A solution has a higher boiling point than a pure solvent
boiling point (T_b): Liquid-gas equilibrium; T = 1 atm
boiling point of water: 100°C
bond energy: Energy held by a chemical bond
bond length: Distance between 2 atoms in a bond
bond order for Lewis model: n of bonds divided by # of bonded atoms
bond order for MO treatment: n of filled antibonding MOs
bonding electrons: Form chemical bonds in a compound
bonding MO: MO is more stable than AOs
Boyle's law: $PV =$ constant for gas; Boyle's law
Br: Symbol for the element bromine, Z = 35
bromide anion: Br^- ; charge -1
brønsted-Lowry acid: Proton donor
brønsted-Lowry base: Proton acceptor
buffer: Composed of weak acid and weak base; serves to keep pH constant



C: Symbol for carbon, the SI prefix for "one" or 10^{-2}
c: Symbol for the speed of light
°C: Celsius temperature scale
C: Symbol for the element carbon, Z = 6
 $\text{C}_2\text{H}_4\text{O}_2$: Acetic acid
Ca: Symbol for the element calcium, Z = 20
calcium cation: Ca^{2+} ; charge +2
calcium fluoride: CaF_2
calcium hydroxide: $\text{Ca}(\text{OH})_2$
calories: English unit of heat energy
calorimetry: Study of the release or absorption of heat
carbide anion: C^- ; charge -4
carbohydrates: Organic compound; carbon bonded to several -OH groups (sugar and starch)
carbon dioxide: CO_2
carbon monoxide: CO
carbonate anion: CO_3^{2-} ; charge -2
carbonic acid: H_2CO_3
carboxyl group: COOH ; found in carboxylic acids
carboxyl group: >COOH bonded to 2 groups
carboxylic acid: Organic acid: R-COOH
catalyst: Accelerates a reaction but is not consumed in the reaction; lowers the activation energy
cathode: Electrode that supports reduction
cation: Ion with a positive charge
Cd: Symbol for the element cadmium, Z = 48



Thermal Chemistry Study Guide

R Bogdan

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Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein,Laurie S. Starkey,2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry *Organic Chemistry, Student Study Guide and Solutions Manual* David R. Klein,2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems **Study**

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Safety Professional's Reference and Study Guide, Fourth Edition W. David Yates, 2025-03-19 For safety professionals navigating the complexities of safety practices daily the search for a single source guide covering diverse topics has been an ongoing quest Now in its fourth edition Safety Professional's Reference and Study Guide has expanded its scope incorporating crucial new chapters on legal aspects of the safety profession recordkeeping sustainability principles and more catering to the evolving needs of the Environmental Health and Safety EHS community This title is every safety professional's indispensable market leading resource empowering the reader to tackle challenges with confidence and expertise Exploring core aspects of occupational safety this book offers a wealth of knowledge each chapter offering practical insights and actionable advice The title goes beyond conventional boundaries addressing emerging topics such as electrical safety risk assessment and sustainability principles in brand new chapters A go to guide for any practicing safety professional seeking a quick desk reference a student supplementing their textbooks or a candidate preparing for certification exams including ASP CSP OHST or CHST it equips readers with the knowledge and skills needed to navigate the evolving landscape of occupational safety focusing on real world applications and exam readiness [Safety Professional's Reference and Study Guide](#) W. David Yates, 2017-12-12 While there are numerous technical resources available often you have to search through a plethora of them to find the information you use on a daily basis And maintaining a library suitable for a comprehensive practice can become quite costly The new edition of a bestseller Safety Professional's Reference and Study Guide Second Edition provides a single source reference that contains all the information required to handle the day to day tasks of a practicing industrial hygienist New Chapters in the Second Edition cover Behavior based safety programs Safety auditing procedures and techniques Environmental management Measuring health and safety performance OSHA's laboratory safety standard Process safety management standard BCSPs Code of Ethics The book provides a quick desk reference as well as a resource for preparations for the Associate Safety Professional ASP Certified Safety Professional CSP Occupational Health and Safety Technologist OHST and the Construction Health and Safety Technologist CHST examinations A collection of information drawn from textbooks journals and the author's more than 25 years of experience the reference provides as the title implies not just a study guide but a reference that has staying power on your library shelf **Safety Professional's Reference and Study Guide, Third Edition** W. David Yates, 2020-03-19 This new edition serves both as a reference guide for the experienced professional and as a preparation source for those desiring certifications It's an invaluable resource and a must have addition to every safety professional's library Safety Professional's Reference and Study Guide Third Edition is written to serve as a useful reference tool for the experienced practicing safety professional as well as a study guide for

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Polymers have never been fully integrated into the disciplines of science and engineering. This book is designed to teach thermal analysis and the understanding of all materials flexible macromolecules as well as those of the small molecules and rigid macromolecules. The macroscopic tool of inquiry is thermal analysis and the results are linked to microscopic molecular structure and motion. Measurements of heat and mass are the two roots of quantitative science. The macroscopic heat is connected to the microscopic atomic motion while the macroscopic mass is linked to the microscopic atomic structure. The macroscopic units of measurement of heat and mass are the joule and the gram chosen to be easily discernable by the human senses. The microscopic units of motion and structure are 12 10 the picosecond 10 seconds and the ngstrom 10 meters chosen to fit the atomic scales. One notes a factor of 10 000 between the two atomic units when expressed in human units second and gram with one gram being equal to one cubic centimeter when considering water. Perhaps this is the reason for the much better understanding and greater interest in the structure of materials being closer to human experience when compared to molecular motion.

An Elementary manual of chemistry Francis Humphreys Storer, 1894

An Elementary Manual of Chemistry William Ripley Nichols, William B. Lindsay, Frank Humphreys Storer, 1894

Monthly Catalog of United States Government Publications, 1984

Proceedings of the 4th International Conference on Industrial Engineering Andrey A. Radionov, Oleg A. Kravchenko, Victor I. Guzeev, Yurij V. Rozhdestvenskiy, 2018-12-07

This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial mechatronics automation and robotics. The book gathers selected papers presented at the 4th International Conference on Industrial Engineering ICIE held in Moscow Russia in May 2018. The authors are experts in various fields of engineering and all papers have been carefully reviewed. Given its scope the book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates.

Energy Research Abstracts, 1989

Trade and Industrial Education, 1972

Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and Technical Education, 1972

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