

CHEMISTRY Terminology

The ABCs of chemistry

A

A: Symbol for atomic mass number
absolute zero: Lowest temperature; 0 Kelvin
Ae: Symbol for the element actinium, $Z = 89$
accuracy: The closeness of measurement to true value
acetate anion: $C_2H_3O_2^-$, charge -1
acetic acid: $C_2H_4O_2$
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 definition: See Arrhenius acid, Brønsted-Lowry acid, Lewis acid
acid ionization constant (K_a): Equilibrium constant for acid dissociation
acidic solution: pH below 7
actinide: Element with $Z = 90$ or above; radioactive
activation energy (E_a): A process's energy barrier



adhesion: 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; ROH
aldehyde: 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 particle: Helium nucleus; charge +2
Au: Symbol for the element auriferous, $Z = 79$
amalgam: Alloy of mercury with other metal
amine: Organic base; RRRN; modified ammonia
amino acid: Compound with organic acid and organic base property; forms proteins and peptides
ammonia: NH_3 , 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 C-12
anion: Ion with a negative charge
anode: Electrode that supports oxidation
antibonding MO: MO is less stable than separate AOs
AO: Abbreviation for atomic orbital

aq: Aqueous; "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):

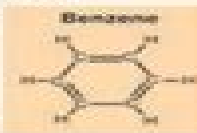
$$k = Ae^{-E_a/RT}$$
 E_a = activation energy
arsenide anion: As^{3-} , charge -3
As: Symbol for the element arsenic, $Z = 33$
At: Symbol for the element astatine, $Z = 85$
atm: Symbol for pressure in "atmospheres"
atom: Fundamental unit of all matter
atomic mass number (A): Total number of protons and 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: Guides 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: $N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$

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, $P = 1 \text{ atm}$
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: # of bonds divided by # of bonded atoms
bond order for MO treatment: # of filled bonding MOs minus # 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, fixed T and n
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



B

B: Symbol for the element boron, $Z = 5$
Ba: Symbol for the element barium, $Z = 56$
balanced equation: 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
Be: 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 particle: Energetic electron from the nucleus; charge -1
Bh: Symbol for the element bohrium, $Z = 107$
Bi: Symbol for the element bismuth, $Z = 83$
bicarbonate anion: HCO_3^- , charge -1
bimolecular oxygen: O_2
binary compound: Formed from 2 elements
bisulfate anion: HSO_4^- , charge -1



b: Symbol for centi- , the SI prefix for $1/100$ or 10^{-2}
c: Symbol for the speed of light
 $^\circ\text{C}$: Celsius temperature scale
C: Symbol for the element carbon, $Z = 6$
 $C_2H_4O_2$: Acetic acid
Ca: Symbol for the element calcium, $Z = 20$
calcium cation: Ca^{2+} , charge +2
calcium fluoride: CaF_2
calcium hydroxide: $Ca(OH)_2$
calorie: English unit of heat energy
calorimetry: Study of the release or absorption of heat
carbide anion: C^{4-} , charge -4
carbohydrate: 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
carbonyl group: CO , ligand complex
carboxyl group: $>CO$ 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, $Z = 48$



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Mike Jess

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practices for teaching and learning digitally digital learning platforms virtual visualisation and laboratory to promote learning in science digital assessment and building communities of learners and educators The authors are chemistry instructors and researchers from nine countries contributing an international perspective on digital learning and teaching in chemistry While the chapters in this book span a wide variety of topics as a whole they focus on using technology and digital platforms as a method for supporting inclusive and meaningful learning The best practices and recommendations shared by the authors are highly relevant for modern chemistry education as teaching and learning through digital methods is likely to persist Furthermore teaching chemistry digitally has the potential to bring greater equity to the field of chemistry education in terms of who has access to quality learning and this book will contribute to that goal This book will be essential reading for those working in chemical education and teaching Yehudit Judy Dori is internationally recognised formerly Dean of the Faculty of Education of Science and Technology at the Technion Israel Institute of Technology and won the 2020 NARST Distinguished Contributions to Science Education through Research Award DCRA for her exceptional research contributions Courtney Ngai and Gabriela Szteinberg are passionate researchers and practitioners in the education field Courtney Ngai is the Associate Director of the Office of Undergraduate Research and Artistry at Colorado State University Gabriela Szteinberg serves as Assistant Dean and Academic Coordinator for the College of Arts and Sciences at Washington University in St Louis

Digital Technologies in Teaching and Learning Strategies Alexandr Lyapin, Olga Kalinina, 2022-05-03 This book demonstrates the benefits and drawbacks of using digital technology in preparing online lessons and educational activities The experience of the last year has shown that online education is becoming a priority This gave impetus to the creation and development of a new generation of equipment for online education The book presents latest innovative technologies and modern digital trends in the field of information and communication technology for online education including personalized learning neuro information systems mobile learning development of software and hardware infrastructure and the use of robotics technologies Key technologies for managing risk and cybersecurity such as cloud and data security identity and trust convolution systems computational intelligence and cryptography techniques malware and attack analysis are presented The topic of cybersecurity is one of the most important issues in the modern digital world The results of the research on recently developed software decision support systems and cloud technologies make a huge contribution to the development of information technology in the context of digitalization This book is of interest for developers of applications and programs for online education for software and hardware suppliers who want to keep up with the times and reorient existing IT systems for use in online education *Artificial Intelligence in Education* Seiji Isotani, Eva Millán, Amy Ogan, Peter Hastings, Bruce McLaren, Rose Luckin, 2019-06-20 This two volume set LNCS 11625 and 11626 constitutes the refereed proceedings of the 20th International Conference on Artificial Intelligence in Education AIED 2019 held in Chicago IL USA in June 2019 The 45 full papers presented together with 41 short 10 doctoral consortium 6 industry and 10 workshop papers were carefully

reviewed and selected from 177 submissions AIED 2019 solicits empirical and theoretical papers particularly in the following lines of research and application Intelligent and interactive technologies in an educational context Modelling and representation Models of teaching and learning Learning contexts and informal learning Evaluation Innovative applications Intelligent techniques to support disadvantaged schools and students inequity and inequality in education *New Developments in Pathways Towards Diversity and Inclusion in STEM: A United States Perspective* Alexander Gates, Juan Gilbert, Chris Botanga, Kim Nguyen, Bonita London, 2022-10-17 The Louis Stokes Alliances for Minority Participation LSAMP program of the US National Science Foundation has been a primary force for raising the success and graduation of minority students in STEM for 30 years Increasing the number of underrepresented students earning baccalaureate degrees and entering graduate school in STEM is the goal of LSAMP This goal has been nearly achieved through the formation of alliances of degree granting institutions of higher learning varying from community colleges to major research institutions Currently there are 59 alliances including more than 400 institutions LSAMP is responsible for more than 650 000 bachelor s degrees earned by minority students in STEM The papers for this Research Topic should focus on the use of LSAMP activities programs and collaborations to develop pathways to success and graduation of STEM majors from minority groups that underrepresented in STEM These pathways can include any segment from pre college through graduate school Areas of special interest include mentoring research experiences transitions between levels and novel approaches for retention The studies should be research based and rigorous They can be pure research studies curriculum and design or literature reviews but they must be at a cutting edge level and be subject to detailed review and assessment *Basic Physical Chemistry: The Route To Understanding (Revised Edition)* E Brian Smith, 2013-06-03 This elegant book provides a student friendly introduction to the subject of physical chemistry It is by the author of the very successful Basic Chemical Thermodynamics and is written in the same well received popular style It is concise and more compact than standard textbooks on the subject and emphasises the two important topics underpinning the subject quantum mechanics and the second law of thermodynamics Both topics are challenging to students because they focus on uncertainty and probability The book explains these fundamental concepts clearly and shows how they offer the key to understanding a wide range of chemical phenomena including atomic and molecular spectra the structure and properties of solids liquids and gases chemical equilibrium and the rates of chemical reactions This revised edition has enabled improvements and corrections to be made

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