

International Baccalaureate · IB Diploma · Chemistry · SL

Glossary · every term in the course, A–Z

English

absolute temperature

/ˈæbsəlu:t ˈtemprɪtʃə/

absolute zero

/ˈæbsəlu:t ˈziərəʊ/

abundance

/əˈbʌndəns/

acid deposition

acidic

/əˈsɪdɪk/

activation energy

/ˌæktɪˈveɪʃn ˈenədʒi/

activity series

addition polymerization

alkali metal

/ˈælkəlaɪ ˈmetl/

allotrope

alloy

/ˈæloɪ/

alternative reaction

pathway

amount of substance

/əˈmaʊnt ɒv ˈsʌbstəns/

amphiprotic

amphoteric

/ˌæmfəʊˈterɪk/

anion

/ˈænaɪən/

anode

/ˈænəʊd/

atom economy

/ˈætəm ɪˈkɒnəmi/

English

atomic number

/ə'tɒmɪk 'nʌmbə/

atomic orbital

Aufbau principle

average bond enthalpy

average kinetic energy

/'ævrɪdʒ kɪ'netɪk 'enədʒi/

Avogadro constant

/,ævə'gædrəʊ 'kɒnstənt/

Avogadro's law

basic

/'beɪsɪk/

biodegradable

/,baɪəʊdɪ'greɪdəbl/

block

/blɒk/

bond enthalpy

/bɒnd en'θælpɪ/

bonding triangle

Brønsted–Lowry acid

Brønsted–Lowry base

bulk property

/bʌlk 'prɒpəti/

burette

/bjʊə'ret/

catalyst

/'kætəlist/

cathode

/'kæθəʊd/

cation

/'kætəɪən/

chain reaction

/tʃeɪn rɪ'ækʃn/

chemical shift

/'kemɪkl ʃɪft/

English

chlorofluorocarbon

chromatography

/krəʊmə'tɒgrəfi/

closed system

/kləʊzd 'sɪstəm/

coefficient

/,kəʊ'fɪʃənt/

collision theory

/kə'lɪʒn 'θɪəri/

composite

/'kɒmpəzɪt/

compound

/'kɒmpaʊnd/

compromise

/'kɒmprəmaɪz/

concentration

/,kɒnsən'treɪʃn/

concordant

/kən'kɔːdənt/

condensed configuration

conjugate acid–base pair

/'kɒndʒuːɡeɪt 'æsɪd beɪs peə/

conservation of mass

/,kɒnsə'veɪʃn ɒv mæs/

continuous spectrum

converge

/kən'vɜːdʒ/

convergence limit

coordination bond

covalent bond

/'kəʊvələnt bɒnd/

covalent network structure

crystallization

curly arrow

/'kɜːli 'ærəʊ/

English

degenerate

/dɪ'dʒenəreɪt/

delocalized

/dɪ'lɒkəlaɪzd/

delocalized electron

/dɪ'lɒkəlaɪzd ɪ'lektɹən/

deposition

dipole moment

/'daɪpəl 'məʊmənt/

dipole–dipole force

displacement

/dɪ'spleɪsmənt/

distillation

/dɪstɪ'leɪʃn/

ductility

/dʌk'tɪlɪti/

dynamic equilibrium

/daɪ'næmɪk ˌɪːkwɪ'brɪəm/

elastic

/ɪ'læstɪk/

electrical conductivity

/ɪ'lektɹɪkl kɒndəktɪvɪti/

electrolysis

/ɪlek'trɒləsɪs/

electrolyte

/ɪ'lektɹəlaɪt/

electrolytic cell

/ɪ'lektɹə'litɪk sel/

electromagnetic spectrum

/ɪ'lektɹəmæg'netɪk 'spektrəm/

electron

/ɪ'lektɹən/

electron affinity

/ɪ'lektɹən ə'fɪnɪti/

electron configuration

/ɪ'lektɹən kən'fɪgə'reɪʃn/

electron domain

electronegativity

/ɪ'lektɹəʊŋɡə'tɪvɪti/

English

electrophile

/ɪˌlektɹəʊˈfaɪl/

electrophilic addition

/ɪˌlektɹəʊˈfɪlɪk əˈdɪʃn/

electrostatic attraction

/ɪˌlektɹəʊˈstætɪk əˈtrækʃn/

element

/'elɪmənt/

emission spectrum

/ɪˈmɪʃn ˈspektrəm/

empirical formula

/emˈpɪrɪkl ˈfɔːmjələ/

end point

/end pɔɪnt/

endothermic

/ˌendəʊˈθɜːmɪk/

energy cycle

/'enədʒi ˈsaɪkl/

energy level

/'enədʒi ˈlevl/

enthalpy change

/enˈθælpɪ tʃeɪndʒ/

equilibrium

/ˌiːkwɪˈlɪbrɪəm/

equilibrium constant

/ˌiːkwɪˈlɪbrɪəm ˈkɒnstənt/

equivalence point

/ɪˈkwɪvələns pɔɪnt/

evaporation

/ɪˌvæpəˈreɪʃn/

excited state

/ekˈsaɪtɪd steɪt/

exothermic

/egzəˈθɜːmɪk/

filtration

/fɪlˈtreɪʃn/

fingerprint region

first ionisation energy

/fɜːst ˌaɪənərˈzeɪʃn ˈenədʒi/

English

formula unit

free radical

/fri: 'rædɪkl/

fuel cell

/'fju:əl sel/

full electron configuration

functional group

/'fʌŋkʃənl gru:p/

functional unit

/'fʌŋkʃənl 'ju:nɪt/

gas constant

/gæs 'kɒnstənt/

group

/gru:p/

half-equation

/hɑ:f i'kweɪʒn/

halogen

/'hælədʒn/

halogenoalkane

/'heɪləʊdʒnəʊlkeɪn/

Hess's law

/'hesɪz lɔ:/

heterogeneous

heterolytic fission

/,hetrə'litɪk 'fɪʃn/

homogeneous

/,hɒmə'dʒi:nɪəs/

homologous series

/hə'mɒləgəs 'sɪəri:z/

homolytic fission

/,hɒmə'litɪk 'fɪʃn/

Hund's rule

hydrogen bonding

/'haɪdrədʒn 'bɒndɪŋ/

hydrogenation

/haɪ'drɒdʒəneɪʃn/

ideal gas

/aɪ'diəl gæs/

English

ideal gas equation

/aɪ'diəl gæs rɪ'kweɪʒn/

in excess

incomplete octet

index of hydrogen
deficiency

indicator

/ˈɪndɪkətə/

initial rate

/ɪ'nɪʃl reɪt/

initiation

/ɪ'nɪʃɪ'eɪʃn/

integration

/,ɪntrɪ'greɪʃn/

intermolecular force

/,ɪntəmə'lekjʊlə fɔːs/

ion

/ˈaɪən/

ionic bond

/aɪ'ɒnɪk bɒnd/

ionic model

/aɪ'ɒnɪk 'mɒdl/

ionic product of water

/aɪ'ɒnɪk 'prɒdʌkt ɒv 'wɔːtə/

isomer

/ˈaɪsəmə/

isotope

/ˈaɪsətəʊp/

kelvin scale

/ˈkelvɪn skeɪl/

kinetic molecular theory

/kɪ'netɪk mə'lekjʊlə 'θiəri/

lattice

/ˈlætɪs/

lattice enthalpy

Le Chatelier's principle

/lə 'tʃetliəz 'prɪnsɪpl/

English

leaving group

/ˈliːvɪŋ ɡruːp/

Lewis formula

life-cycle assessment

/laɪf ˈsaɪkl əˈsesmənt/

limiting reactant

/ˈlɪmɪtɪŋ rɪˈæktənt/

limiting reagent

/ˈlɪmɪtɪŋ rɪˈeɪdʒənt/

line emission spectrum

London force

lone pair

/ləʊn peə/

malleability

/ˌmæləˈbɪlɪti/

mass number

/mæs ˈnʌmbə/

mass spectrometer

/mæs spekˈtrɒmɪtə/

material

/məˈtɪəriəl/

Maxwell–Boltzmann

distribution

metallic bond

/məˈtælk bɒnd/

metallic material

/məˈtælk məˈtɪəriəl/

metallic model

/məˈtælk ˈmɒdl/

metalloid

mixture

/ˈmɪkstʃə/

mobile phase

/ˈməʊbaɪl feɪz/

molar mass

/ˈməʊlə mæs/

molar volume

English

mole

/məʊl/

mole ratio

/məʊl 'reɪʃiəʊ/

molecular formula

/mə'lekjʊlə 'fɔ:mjʊlə/

molecular geometry

molecular ion

/mə'lekjʊlə 'aɪən/

monomer

/'mɒnəʊmə/

negative ion

neutralization

/,nju:trəlaɪ'zeɪʃn/

neutron

/'nju:trɒn/

non-directional

non-polar

/nɒn 'pəʊlə/

nuclear charge

/'nju:klɪə tʃɑ:dʒ/

nuclear magnetic resonance

nuclear symbol

nucleon

/'nju:klɪən/

nucleophile

/'nju:klɪəfaɪl/

nucleophilic substitution

/,nju:klɪə'fɪlɪk ,sʌbstɪ'tju:ʃn/

nucleus

/'nju:klɪəs/

ocean acidification

/'əʊʃn ə,sɪdɪfɪ'keɪʃn/

octet rule

opposite spins

English

orbital

/ˈɔːbɪtl/

orbital diagram

oxidation

/ˌɒksɪˈdeɪʃn/

oxidation state

/ˌɒksɪˈdeɪʃn steɪt/

oxidizing agent

/ˈɒksɪdaɪzɪŋ ˈeɪdʒənt/

ozone

/ˈəʊzəʊn/

Pauli exclusion principle

period

/ˈpɪəriəd/

periodic table

/ˌpɪəriˈɒdɪk ˈteɪbl/

periodicity

/ˌpɪəriˌɒˈdɪsɪti/

pH curve

phenyl

photon

/ˈfəʊtɒn/

pipette

/pɪˈpet/

polar

/ˈpəʊlə/

polar bond

polyatomic ion

polymer

/ˈpɒlɪmə/

position of equilibrium

/pəˈzɪʃn ɒv ˌiːkwɪˈlɪbrɪəm/

positive ion

/ˈpɒzɪtɪv ˈaɪən/

pressure

/ˈprefə/

English

primary

/ˈpraɪməri/

primary cell

principal quantum number

/ˈprɪnsɪpl ˈkwɒntəm ˈnʌmbə/

product mixture

propagation

/ˌprɒpəˈgeɪʃn/

proton

/ˈprəʊtɒn/

proton donor

/ˈprəʊtɒn ˈdəʊnə/

proton transfer

/ˈprəʊtɒn ˈtrænsfɜː/

purity

/ˈpjʊərti/

quantized

/ˈkwɒntaɪzd/

radical substitution

/ˈrædɪkl ˌsʌbstɪˈtjuːʃn/

rate

/reɪt/

rate of reaction

/reɪt ɒv rɪˈækʃn/

real gas

/rɪəl ɡæs/

reducing agent

/rɪˈdjuːsɪŋ ˈeɪdʒənt/

reduction

/rɪˈdʌkʃn/

reflux

/ˈriːflʌks/

relative atomic mass

/ˈrelətɪv əˈtɒmɪk mæs/

relative formula mass

/ˈrelətɪv ˈfɔːmjʊlə mæs/

repeating unit

/rɪˈpiːtɪŋ ˈjuːnɪt/

retardation factor

English

reversible reaction

/rɪˈvɜːsɪbl rɪˈækʃn/

salt bridge

/sɒlt brɪdʒ/

saturated

/'sætʃəreɪtɪd/

secondary

/'sekəndəri/

secondary cell

shared pair

shielding

/'ʃiːldɪŋ/

silicon dioxide

/'sɪlɪkən daɪˈɒksaɪd/

single-barbed arrow

skeletal formula

/'skelɪtl 'fɔːmjʊlə/

solute

/'sɒljʊːt/

solution

/səˈluːʃn/

solvation

solvent

/'sɒlvənt/

standard enthalpy of
combustion

/'stændəd enˈθælpi ɒv kəmˈbʌstʃn/

standard enthalpy of
formation

/'stændəd enˈθælpi ɒv fɔːˈmeɪʃn/

standard solution

/'stændəd səˈluːʃn/

stationary phase

/'steɪʃənəri feɪz/

stoichiometry

/ˌstɔɪkɪˈɒmətri/

stratosphere

/'strætəsfiə/

English

strong acid

/strɒŋ 'æsɪd/

structural isomer

sublevel

sublimation

/ˌsʌblɪ'meɪʃn/

surface area

/'sɜːfɪs 'eəriə/

systematic error

/ˌsɪstə'mætɪk 'erə/

tangent

/'tændʒənt/

termination

/ˌtɜːmɪ'neɪʃn/

tertiary

/'tɜːʃjəri/

theoretical yield

/θɪə'retɪkl jiːld/

thermal conductivity

/'θɜːml kɒndəktɪvɪti/

titration

/taɪ'treɪʃn/

titre

/'tɪtə/

transition element

/træn'sɪʃn 'elɪmənt/

ultraviolet light

/ˌʊltrə'vaɪələɪt laɪt/

uncertainty

/ʌn'sɜːtənti/

unpaired electron

/ʌn'peəd ɪ'lektroʊn/

valence shell electron pair

repulsion

van der Waals force

volatility

/ˌvɒlə'tɪlɪti/

English

wavenumber

/ˈweɪvnʌmbə/

weak acid

/wi:k ˈæsɪd/

yield

/ji:ld/
