

Glossary

High School Level

Chemistry **Glossary**

English | Swahili

Translation of Chemistry terms based on the Coursework for Chemistry Grades 9 to 12.



This glossary is to PROVIDE PERMITTED TESTING ACCOMMODATIONS of ELL/MLL students. It should also be used for INSTRUCTION during the school year. The glossary may be downloaded, printed and disseminated to educators, parents and ELLs/MLLs.

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CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
A	
absolute alcohol	pombe kamili
absolute temperature scale	kipimo cha joto kamili
absolute zero	sifuri kamili
absorbency	ufyonzaji
absorption	kufyonza
absorption coefficient	kipengee cha kufyonza
absorption plant	mtambo wa kufyonza
absorption tube	mrija wa kufyonza
accelerated filtration	uchujaji uliochapuka
acceleration agent	wakala wa uchapukaji
accelerator	kichapuzi
accelerometer	kipima mchapuko
acceptor	kiidhinishi
accuracy	usahihi
acetaldehyde	asetaldihaidi
acetone	asetoni
acetylene	asetilini
acetylene series	mfuatano wa asetilini
acid	tindikali
acidic	-a tindikali
acid anhydride	asidi anhidridi
acid-base indicator	kiashiria cha asidi-alkali
acid-base neutralization	kiashiria cha kitangua aside-alkali
acid-base titration	upimaji wa asidi-alkali
acid radical	radikali ya asidi
acid rain	mvua ya asidi
acid salt	chumvi ya asidi
acid treating	kutibu asidi
acidic titrant	kipimo cha asidi
acidification	kuweka asidi
acidimeter or acidometer	kipima asidi
acidity	uasidi
action	tendo
actinide series	mfuatano wa aktinidi
actinium	aktini
activated complex	muundo tata ulioamshwa
activated support	usaidizi ulioamshwa
activated water	maji yaliyoamshwa
activation	uamshaji
activation energy	nishati ya uamshaji
activator	kiamsho
active centers	vituo amilifu
activity	shughulii
activity series	mfuatano wa shughuli
addition agent	wakala wa kujumlisha
addition polymer	polima ya kujumlisha

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
adhesive	-enye kunata
adiabatic calorimeter	kalorimita ya adiabatiki
adiabatic flame temperature	halijoto ya mwale wa adiabatiki
adsorb	fyonza
adsorbent	kifonzaji
adsorption	kufyonza
adsorption isobar	ufyonzaji wa isoba
adsorption isotherm	isotherm ya ufyonzaji
agent	wakala
air pressure	shinikizo hewa
alcohol	pombe
aldehyde	alidehaidi
alicyclic hydrocarbons	haidrokaboni za alisikiki
aliphatic hydrocarbons	haidrokaboni za alifatiki
alkalescency	-enye ualikali
alkali	alikali
alkali metal	metali ya alikali
alkane	alikeni
alkane derivative	kitokanaacho alikeni
alkaline	-a kialikali
alkaline earth metals	metali za ardhini za alikali
alkene	-a alikali
alkyl group	kundi la alikali
alkyne	alkaini
allotrope	alotropu
allotropy	-a kialotropu
alloy	aloi
alpha emission	alfa chafu
alpha particle	chembechembe ya alfa
alternating current	mkondo wa umeme wa kubadilika
alum	shabu
alumina	alumina
aluminate	aluminate
aluminum	alumini
amalgam	aloi ya zebaki
amino acid	aside ya amino
ammonia	amonia
ammonia liquor	pombe ya amonia
ammonification	iliyowekwa amonia
ammonium	amonia
ampere meter	mita ya ampea
amphiprotic	amfiprotiki
amphoteric	amfoteriki
amphoterism	uamfoteri
analysis	uchanganuzi
analytical balance	urari wa uchanganuzi
analytical chemistry	kemia ya uchanganuzi
analytical reagent	wakala wa uchanganuzi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
angle	pembe
angstrom	angstromu
anhydride	anihaidridi
anhydrous	-a kihaidridi
anion	anayani
anode	anodi
antacid	kizuio cha asidi
antienzyme	kizuio kimeng'anya
antichlor	kitoa klorini
antifebrin	kizuio fibrin
antifoaming agent	wakala wa kuzuia povu
antifreeze	kizuio ubarafu
antimatter	kipingamaada
antimony	antimoni
antioxidant	kipinga kioksidishaji
antiseptic	antiseptiki
aqua	maji
aqueous	-a majimaji
argon	agoni
aromatic	-a kunukia
arsenic	aseniki
arsenic trioxide	aseniki trioksidi
arsenical	-a aseniki
arsenide	-a aseni
artificial radioactivity	mionzi ya kutengenezwa
assistant	msaidizi
association	chama
atmosphere	angahewa
atmospheric pressure	kani eneo ya angahewa
atom	atomu
atomic absorption spectrometry	upimaji wa ufyonzaji wa atomu
atomic bond	muunganiko wa atomu
atomic mass	uzito wa kiatomiki
atomic mass unit	kizio cha uzito wa kiatomiki
atomic pile	rundo la kiatomiki
atomic radius	nusukipenyo cha kiatomiki
atomic weight	uzani wa kiatomiki
attraction	mvutano
Avogadro's constant	kanuni ya kudumu ya Avogadro
azeotropic	azeotropiki
B	
baking powder	hamira
baking soda	magadi
balance	uzani
balanced equation	mlinganyo uliosawazishwa
barium	bariamu
barium carbonate	bariamu kaboneti

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
barium chloride	kloraidi ya bariamu
barium nitrate	naitreti ya bariamu
barium sulfate	salfeti ya bariamu
barometer	kipimahewa
barometric pressure	kani ya hewa
base	alkali/besi
basic anhydride	anihaidridi ya alkali
battery	betri
bauxite	boksiti
beaker	bika
beneficiation	ufinyazo
Benz-aldehyde	benzi alidehaidi
benzene ring	pete ya benzini
benzene series	mfuatano wa benzini
benzene sulfonic acid	asidi ya benzini sulfoni
benzenoid	-enye pete ya benzini
Benzedrine	benzedrini
benzoic acid	asidi ya benzini
benzyl alcohol	pombe ya benzili
berkelium	berkeliamu
beryllium	berililiamu
beta particle	chembe ya beta
binary compound	msombo jozi
binder	kiunganishi
binding energy	nishati ya kuunganisha
biochemical	biokemikali
bismuth	bismuthi
bleach	ondoa rangi
blowing agent	wakala wa kupuliza
boiler scale	kipimo cha bwela
boiling	kuchemka
boiling point elevation	mwinuko wa kilele cha kuchemka
bond	muunganiko
bond angle	pembe ya muunganiko
bond energy	nishati ya muunganiko
bonding	kuunganisha
borax	boraksi
boric acid	asidi boriki
boron	boroni
boron carbide	boroni kabaidi
boron hydride	boroni haidraidi
boron nitride	boroni naitridi
boron silicate	boroni siliketi
bottle	chupa
Boyle's law	sheria ya Boyle
brake fluid	ugiligili wa breki
branch-chain	mnyororo tawi
brass	shaba

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
brazing	kulehemu kwa shaba
breeder reactor	mtambo wa nyuklia
bright-line spectrum	spektra ya mstari angavu
brine	maji ya chumvi
bromine	bromini
bronze	shaba
buffer	bafa
Bunsen burner	jiko la gesi la maabara
burette	bureti
burning	kuungua
butane	butani
butylene	butilini
butyl	butili
butyl alcohol	pombe ya butili
butyric acid	asidi butriki
C	
cadmium	kadimamu
calcination	uunguzaji
calcite	chokaa mawe
calcium	kalisiamu
calcium carbide	kalisiamu kabaidi
calcium carbonate	kalisiamu kaboneti
calcium chloride	kalisiamu kloridi
calcium hydroxide	kalisiamu hidroksidi
calcium hypochlorite	kalisiamu hipokloriti
calcium oxide	kalisiamu oksidi
calcium phosphate	kalisiamu fosfati
calcium sulfate	kalisiamu sulfeti
californium	kalifoniamu
calomel	kalomeli
calorie	kalori
calorimeter	kipima kalori
camphor	kafuri
capacity	ujazo
carbide	kabaidi
carbocyclic	kabosiliki
carbohydrate	kabohaidreti
carbonic acid	asidi kaboniki
carbon	kaboni
carbon black	kaboni nyeusi
carbon cycle	mzunguko wa kaboni
carbon dioxide	kaboni dioksidi
carbon disulfide	kaboni disalfaidi
carbon monoxide	kaboni monoksidi
carbon tetrachloride	kaboni tetrakloridi
carbonate	kaboneti

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
carbonic acid	asidi ya kaboni
carboxyl	kaboksili
carboxylic acid	asidi kaboksili
carburation	mwako
carcinogen	kasinojeni
carrier	mchukuzi
catalyst	kichocheo
catenate	unganisha
cathode	kathodi
cell	seli
Celsius scale	kipimo cha Celisius
centigrade	nyuzi joto
centimeter	sentimita
centrifugation	kuchuja michanganyiko
centrifuge	mashinepewa
cerium	seriamu
cesium	sesiamu
chain	mkufu
chain reaction	mjibizo mkufu
change	badiliko
chelate	chelate
chemical bond	muunganiko wa kikemikali
chemical equation	mlinganyo wa kikemikali
chemical equilibrium	msawazo wa kkemikali
chemical property	tabia ya kikemikali
chemical reaction	mjibizo wa kikemikali
chemisorption	ufyonziaji wa kemikali
chemistry	kemia
chlorate	klorati
chloride	kloridi
chlorine	klorini
chlorine dioxide	klorini dioksidi
chlorite	chloriti
chloroform	klorofomu
chlorohydrin	klorohidrini
chromatography	kromatografi
chrome green	kromu ya kijani
chromic acid	asidi kromu
chromium	kromiamu
chromium sulfate	salfeti chromiamu
circuit	saketi
citric acid	asidi ndimu
clamp	kibanio
classical mechanics	makenika dhati
clay	mfinyanzi
cobalt	kobalti
coefficients	vizidishi
colligative properties	tabia unganishi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
collision	mgongano
colloid chemistry	kemia ya gundi
colorant	-a rangi
colorimeter	kipima rangi
columbium	kolumbiamu
combination	mwunganiko
combined gas laws	sheria za gesi zilizounganishwa
combustion	mwako
common ion effect	athari ya ioni ya kawaida
complex	changamani
complex ion	ioni changamani
component	kijenzi
composite	mchanganyiko
composition	kivungo
compound	msombo
compressed gas	gesi iliyogandamizwa
concentrated solution	myeyusho makinikia
concentration	makinikia
conceptual definition	fasili ya dhana
condensation	mtonesho
condensation polymer	polima mtonesho
condensation reaction	mjibizo mtonesho
conduction	upitishaji
conductivity	uwezo wa upitishaji
conductor	kipitishi
configuration	usanidi
configurational formula	fomula ya usanidi
conformation	ukubalifu
Congo red	kongo nyekundu
conjugate pair	jozi ungani
conservation	hifadhi
conservation of charge	hifadhi ya chaji
constant	-siobadilika
constant composition law	sheria ya kivungo kisichobadilika
constituent	-a sehemu ya kitu kizima
container	kontena
contaminant	kichafuzi
continuous spectrum	spektra endelevu
controlled equipment	chombo kinachodhibitiwa
conversion factor	sababu ya ugeuzaji
coordinate covalent bond	muunganiko ratibu wa kiatomiki
copolymer	polima iliyotoka kwa monoma nyingi
copper	shaba
cork	kizibo
corrosion	ulikaji
covalence	kobalensi
covalent bond	muunganiko kovalenti
covalent molecule	molekyuli kovalenti

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
cover	mfuniko
cracking	ufa
cresol	kresoli
critical mass	uzani kipeo
critical point	kiini kipeo
critical pressure	kanihewa kipeo
critical temperature	halijoto kipeo
crucible	kalibu
crystal	fuwele
crystallization	ugandishaji
cubic centimeter	sentimita za ujazo
curium	kuriamu
current	mkondo
curve	mchirizo
cyanogen	sinageni
cyclic compound	msombo duara
cycloalkane	saikloalkane
cyclohexane	saikloheksane
cyclotron	siklotroni
D	
data	data
decay rate	kiwango cha kuoza
decomposition	uozo
decrepitude	ukongwe
definition	fasili
dehydrating	kupunguza maji
dehydration	upungufu wa maji
dehydrogenation	utoaji wa hidrojeni
deionized water	maji yaliyotolewa ioni
deliquescence	mmumunyisho maji
delivery tube	neli mtoleo
denatured alcohol	pombe iliyobadilishwa asili
density	msongamano
depression	upunguaji wa kanieneo wa angahewa
derivative	zalika
destructive distillation	usafishaji haribifu
detergent	sabuni
deuterium	deutremiamu
deuteron	dyuteroni
developing agent	wakala wa kuendeleza
dextrorotary	deksitrorotari
dialysis	dialisisi
diamond	almasi
diatomic gas	gesi ya mwani miwili
diborane	diborani
dicarboxylic acid	asidi dikabosiliki
diffusion	mweneo

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
dihydroxy alcohol	pombe ya dihadroksi
diluent	-a kuzimulia
dilute solution	chujua myeyuko
dimethyl	dimethili
dinitrobenzene	dinitrobenzini
di-olefin	daiolefini
dioxide	dioksidi
dipole	dipoli
direct combustion	mwako wa moja kwa moja
direct combustion reaction	mjibizo wa mwako wa moja kwa moja
direct current	mkondo moja kwa moja
displacement	uhamishaji
disproportionation	-sio lingana
dissociation	jitenga
distillate	petroliamu
distillation	utoneshaji
dolomite	marumaru
donor	mfadhili
dope	dawa ya kulevya
dot diagram	mchoro wa doti
double bond	muunganiko maradufu
double pan balance	usawa wa mizani maradufu
double replacement	mbadala maradufu
ductility	unyumbufu
dynamic equilibrium	msawazo mwendo
dysprosium	disprosiamu
E	
effective collision	mgongano fanisi
effervescence	utoaji gesi
efflorescence	chunyu
einsteinium	einsteiniamu
electric current	mkondo wa umeme
electrical conductivity	upitishaji umeme
electrochemical	kemikali umeme
electrochemical cell	seli ya kemikali umeme
electrochemistry	umemekemia
electrode	elektrodi
electrode position	nafasi ya elektrodi
electrolysis	elektrolisisi
electrolyte	elektrolaiti
electrolytic conduction	upitishaji wa kielektroliki
electrolyze	kuweka elektrolaiti
electromotive force	kani mwendo wa elektroni
electromotive series	mfuatano wa mwendo wa elektroni
electron	elektroni
electron configuration	usanidi wa elektroni
electronegative	chaji hasi ya elektroni

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
electronegativity	-a chaji hasi ya elektroni
electropositive	-a chaji chanya ya elektroni
electrostatic force	kani ya umeme tuli
electrovalence	elektrovalensi
electrovalent bonding	muunganiko wa elektrovalensi
element	elementi
elevation	mwinuko
empirical formula	fomyula jabarati
emulsion	emalshani
endothermic reaction	mjibizo wa kufyonza joto
endpoint	kituo cha mwisho
energy level	kiwango cha nishati
enthalpy	enthalpi
enzyme	kimeng'anya
epoxy resin	utomvu wa epoksi
equation	mlinganyo
equilibrium	usawa
equilibrium constant	usawa usiobadilika
equipment	zana
equivalent	sawa na
equivalent masses	uzito sawa
erbium	erbiamu
Erlenmeyer Flask	Chupa ya Elenimeya
ester	esta
esterification	mmenyuko wa tindikali na pombe kutoa esta
ethane	ethani
ethanol	ethanol
ethanolamine	ethanolamine
ether	etha
ethyl	ethili
ethyl acetate	ethili ya chumvi ya esta
ethyl alcohol	ethili ya pombe
ethyl ether	ethili etha
ethylamine	ethilamini
ethyl benzene	ethili benzini
ethylene	ethilini
ethylene bromide	ethilini bromidi
ethylene dichloride	ethilini dikloridi
ethylene glycol	ethilini glikoli
europium	europiamu
eutectic	eutektiki
evaporation	mvuke
excited state	hali ya msisimko
exothermic	-a kutoa nguvu ya joto
experiment	jaribio
explosive	-a kulipuka
expression	mlinganyo
extensive properties	tabia endelevu

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
external circuit	saketi ya nje
extinguishing agent	wakala wa kuzima
extraction	uchimbaji
F	
factice	mafuta ya mmea au mnyama
family	familia
fat	mafuta
fatty acid	asidi ya mafuta
fatty alcohol	pombe ya mafuta
feedstock	mali ghafi
fermentation	chachua
fermentation tube	mrija wa kuchachua
fermium	fermiamu
ferric	feriki
ferroalloy	aloi ya feru
ferrous	iliyo na chuma
fiber	nyuzinyuzi
file	faili
filler	kijazaji
filtrate	chuja
filtration	kuchuja
fission	ugavi
fission reactor	kijibizi cha mgawanyo
fixed	funge
flame	mwale
flammable material	vitu vinavyoweza kuwaka
Florence flask	chupa ya glasi ya maabara
flow diagram	mchoro wa mtiririko
fluoride	floraidi
fluorocarbon	florokaboni
fluorspar	madini ya kalisiamu floraidi
flux	dutu ya kurahisisha kuyeyusha vyuma
force	nguvu/kani
forceps Florence flask	koleo la chupa ya glasi ya maabara
forensic chemistry	kemia ya uchunguzi
formaldehyde	fomaldehidi
formation	uundaji
formic acid	asidi ya fomi
formula	fomula
fossil	kisukuku
fractional distillation	mkeneko sehemu
francium	fransiamu
free energy	nishati huru
free radical	radikali huru
freezing	kuganda
freezing point	kiini cha kuganda
freezing point depression	mbonyeo wa kiini cha kuganda

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
frequency	idadi
fuel	fueli
functional group	kundi tendeshi
fundamental particle	chembe ya msingi
funnel	faneli
fuse	yeyusha
fused salt	chumvi ya iliyoyeyushwa
fusion alloy	aloi ya kuyeyuka
fusion	kuyeyusha
fusion reactor	kijibizi cha kuyeyusha
G	
gadolinium	gadolini
gallium	galiamu
gallium arsenide	galiamu asenidi
galvanizing	paka madini
gamma rays	miale ya gama
garnet	ganeti
gas	gesi
gasification	kuweka gesi
gas phase	awamu ya gesi
glycerol	glaiseroli
glycol	glaikoli
goggles	miwani
gold	dhahabu
graduated beaker	bika fanisi
graduated cylinder	Silinda fanisi
graduated pipette	paipeti fanisi
graphite	grafati
gram	gramu
gram atomic mass	gramu ya uzani wa atomi
gram equivalent mass	gramu ya uzani wa usawa
gram molecular mass	gramu ya uzani wa molekyuli
gram molecular volume	gramu ya ujazo wa molekuli
gravimetric analysis	uchambuzi wa kipimo cha uzito
gravity	mvutano
grease	grisi
ground state	hali ya ardhi
group	kundi
guncotton	mirabaraba
H	
hafnium	hafniamu
half-life	nusu uhai
half-reaction	mjibizo nusu
halogen	halogeni
hardness	ugumu
hard water	maji chumvi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
heat	joto
heat exchange	ubadilishanaji wa joto
heat of combustion	joto la mwako
heat of condensation	joto la mtonesho
heat of crystallization	joto la kugandisha
heat of dilution	joto la kuchujua
heat of formation	joto la uundaji
heat of fusion	joto la muunganiko
heat of hydration	joto la ongezeko la maji
heat of reaction	joto la mjibizo
heat of sublimation	joto la kuchemsha
heat of solution	joto la myeyusho
heat of transition	joto la mpito
heat of vaporization	joto la kufanya mvuke
heat transfer	usafirishaji wa joto
heavy hydrogen	hidrojeni nzito
heavy water	maji mazito
helium	heliamu
heterocyclic	heterosaikliki
heterogeneous mixture	mchanganyiko wa vitu tofauti
heterogeneous reaction	mjibizo wa vitu tofauti
hertz	hezi
high polymer	polima ya juu
holmium	holmiamu
homogenous mixture	mchanganyiko wa jinsi moja
homogenous reaction	mjibizo wa jinsi moja
homologous series	mfuatano unaohusiana
homo polymer	polima inayofanana
holt-melt	kuyeyuka kwa holti
humectant	umektanti
hybridization	kuchanganywa
hydrate	kuweka maji
hydration	kuwekwa maji
hybrid	mahuluti
hydrocarbon	hidrokaboni
hydrochloric acid	asidi ya haidrokloriki
hydrocyanic acid	asidi ya haidrokainiki
hydrocolloid	haidrokoloidi
hydrogen	haidrojeni
hydrogenation	kuweka hidrojeni
hydrogen bomb	bomu la hidrojeni
hydrogen bond	muunganiko wa hidrojeni
hydrogen chloride	haidrojeni kloridi
hydrogen cyanide	haidrojeni sianidi
hydrogen fluoride	haidrojeni floraidi
hydrogen iodine	aidini ya hidrojeni
hydrogen peroxide	hidrojeni peroksaidi
hydrogen sulfide	haidrojeni salfaidi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
hydrolysis	haidrolisisi
hydrolysis constant	kipengele cha kudumu cha haidrolisisi
hydronium ion	atomi ya haidroniamu
hydrophilic	hadropholiki
hydrophobic	haidrofobiki
hydroxyl group	kundi la haidroksili
hygroscopic	haigroskopiki
hypochlorite	haipokloraiti
hypothesis	nadharia tete
I	
ideal gas	gesi halisi
identity period	kipindi cha utambulisho
immiscible	-isiochanganyika
impermeable	isiopenyeka
impingement black	nyeusi husu
impregnation	utiaji mimba
increment	ongezeko
impurity	uchafu
indanthrene blue	samawati indathreni
Indian red	nyekundu ya kihindi
indium	indiamu
indicator	kiashiria
industrial alcohol	pombe ya kiwandani
inert	tuli
inertia	inesha
industrial diamonds	almasi za viwandani
inflammable	-a mwako
infrared spectroscopy	somo la miale isiyoonekana
inhibitor	kizuizi
initiating explosive	kuanzisha kilipukaji
initiator	kianzilishi
inorganic analysis	uchambuzi isio wa kikaboni
inorganic chemistry	kemia isiyo ya kkaboni
insecticide	kiuawadudu
instrumental analysis	uchambuzi wa kutumika
insulin	insulini
intensive properties	tabia endelevu
interionic attraction	mvuto wa kiatomi
interface	kiolesura
intermediate	-a kati
intermetallic compound	msombo wa baina ya metali
internal circuit	saketi ya ndani
interstitial	unganishi
iodine	aidini
ion	aioni
ion-exchange reaction	mjibizowa ubadilishanaji wa aioni
ion-product constant of water	zao la aioni la kudumu la maji

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
ionic conduction	upitishaji wa aioni
ionic bonding	muunganiko wa aioni
ionization	kufanya kuwa aioni
ionization constant	aioni ya kudumu
ionization of energy	kuweka aioni kwenye nishati
ionization potential	uwezekano wa kuwa aioni
ionone	aionani
iridium	iridiamu
iron	chuma
iron blue	chuma cha samawati
iron oxide	oksaidi ya chuma
irreversible	isiyorudiwa
isolation	utengaji
isomer	isoma
isomerization	kubadili chembe kuwa isoma
isopropyl alcohol	pombe ya isopropili
isotactic	mpangilio halisi wa atomi
isotonic	-enye shinikizo la mpenyezo
isotope	isotopi
isotropic	isotopiki
IUPAC system	mfumo wa IUPAC
ivory black	ndovu nyeusi
J	
joule	jouli
K	
Kelvin scale	kipimo cha Kelvini
kerosene	mafuta ya taa
ketone	ketoni
kilogram	kilogramu
kinetic energy	nishati mwendo
kinetic theory	nadharia ya mwendo
kinetics	elimumwendo
krypton	kriptoni
L	
laboratory burner	jiko la maabara
lactic acid	asidi ya maziwa
lactone	laktoni
lake	ziwa
Lanthanide series	mfuatano wa Lanthanaidi
latent heat	joto fiche
latent solvent	kiyeyushaji fiche
lattice	kiunzi
Law of Conservation of Mass	Sheria ya Uhifadhi wa Uzani
lawrencium	laurensiamu
lead	risasi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
lead chromate	risasi krometi
level	kiwango
light metal	chuma chepesi
lime	ndimu
limestone	mawe ya chokaa
lipid	mafuta
liquefaction	uyeyushaji
liquid crystal	fuwele maji
liquor	pombe
liter	lita
litharge	litheji
lithium	lithiamu
litmus	litimasi
lutetium	lutetiamu
lye	maji magadi
lyophilic	lyofiliki
M	
macro analysis	uchambuzi mkubwa
macromolecule	molekuli kubwa
magma	magma
magnesia	magnesia
magnesite	magnesi isiyo halisi
magnesium	magnesi
magnet	sumaku
magneto chemistry	kemia magneto
manometer	manomita
maltose	maltosi
manganese	manganisi
manganese dioxide	daioksidi ya manganisi
manganic oxide	oksidi ya manganisi
mannitol	manitoli
mass	tungamo
mass action	kitendo cha tungamo
mass conservation	uhifadhi wa tungamo
mass number	namba ya tungamo
matter	maada
mechanics	umakenika
mechanism	utaratibu
medicine dropper	kitonesha dawa
melting	kuyeyuka
melting point	kikomo cha kuyeyuka
mendelevium	mendeleviamu
mercury	zebaki
mesh	wavu
metallic bond	muunganiko wa kimetali
metalloid	-a chuma
metallurgy	metalujia

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
methane	methani
methanol	methanoli
methyl	methili
methyl alcohol	pombe ya methili
methylamine	methalamini
microanalysis	uchambuzi mdogo
milliliter	mililita
mineral	madini
mixture	mchanganyiko
miscible	inayochanganyikana
moderator	msimamizi
molal boiling point elevation constant	kipengee daima cha kiwango cha mwinuko wa mchemko wa molali
molal freezing point depression constant	kipengee daima cha kiwango cha mwinamo wa kuganda wa molali
molality	makinikia ya molal
molar solution	myeyuko wa mola
molar volume	ujazo wa mola
molarity	-a mola
molecular	molekyula
molecular formula	fomula ya molekyula
molecular mass	tungamo la molekyula
molecular sieve	chekeche la molekyula
mole	moli
molecule	molekyuli
molybdenum	molibdenamu
monomer	monoma
monomolecular	yenye molekyula moja
N	
naphtha	nafta
naphthalene	naftalini
natural gasoline	petrol ya asili
neodymium	neodimiamu
neon	neoni
neptunium	neptuni
Nernst distribution law	sheria ya Nernst ya usambazaji
Nernst equation	mlinganyo wa Nernst
net potential	uwezo kamili
neutral red	nyekundu ya katikati
neutral solution	myeyusho wa katikati
neutralization	kutofungamana na upande wowote
neutralization equivalent	usawa wa kutofungamana na upande wowote
neutron	nyutroni
niacin	niasini
nickel	nikeli
niobium	niobiamu
nitrate	naitreti

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
nitration	kufanya naitreti
nitric acid	asidi ya naitriki
nitric anhydride	naitriki anihaidraidi
nitric oxide	oksaidi ya naitriki
nitride	naitraidi
nitrile	naitrili
nitrogen	naitrojeni
nitrogen family	jamii ya naitrojeni
nitroglycerin	naitrogliserini
nitrous acid	tindikali ya nitrisi
nobelium	nobeliamu
noble gas	gesi bora
nomenclature	majina
nonelectrolyte	isiyo na elektrolaiti
nonmetal	simetali
nonpolar molecule	molekuli isiyo na uwati
normal boiling point	kiwango cha kuchemka cha kawaida
normal salt	chumvi ya kawaida
normal solution	myeyuko wa kawaida
normality	ukawaida
nuclear energy	nishati ya nyuklia
nuclear fission	ugavi wa nyuklia
nuclear fuel	fueli ya nyuklia
nuclear fusion	muunganiko wa nyuklia
nuclear reactor	mjibizo wa nyuklia
nucleon	nyuklioni
nucleus	nyukiliasi
number	namba
nylon	nailoni
O	
observed value	dhamani ya kuonekana
octet	unane
oil	mafuta
olefin	olefini
one-hole stopper	kizibo cha shimo moja
open-chain	mlolongo wazi
operational definition	fasili ya kufanyia kazi
optical	-a macho
optical rotation	mzunguko wa macho
orbit	mhimili
orbital	-a mhimili
orbital pair	jozi ya mzunguko
order	mpangilio
order of reaction	mpangilio wa mjibizo
ore	mgodi
organic	-a kaboni
organic chemistry	kemia kaboni

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
organic compound	msombo wa kaboni
organometallic	chembe iliyo na chuma na kaboni
osmium	osmiamu
osmosis	mfonyzo
oxalic acid	asidi okzaliki
oxidation	uoksidishaji
oxidation number	namba ya uoksidishaji
oxidation potential	-a kuwezekana kuoksidishwa
oxidation state	hali ya uoksidishaji
oxide	oksaidi
oxidizing agent	kioksidishaji
oxygen	oksijeni
oxygen acid	asidi oksijeni
ozone	ozoni
P	
packing	kufungasha
pair	jozi
palladium	paldiamu
paraffin series	mkuatano wa mafuta ya taa
partial pressure	nusu kanieneo
particle	chembe
particle accelerator	kichapuzi chembe
partition coefficient	kijenzi cha ugawaji
parts per million	sehemu kwa milioni
Pascal	Paskali
passivity	ubaridi
peacock blue	bluu kali
pentane	pentane
peptide	peptaidi
percentage by mass	asilimia kwa tungamo
percentage composition	asilimia ya utungaji
percent error	asilimia ya hitilafu
perchlorate	pakloreti
perfect	kamilifu
perfume	marashi
periodic	-a kipindi
periodic law	sheria ya kipindi
periodic table	jedwali la elementi
peroxide	peroksaidi
Petri dish	sahani ya petri
petroleum	petroli
phase	awamu
phase equilibrium	usawa wa awamu
pH meter	mita ya pH
phenol	fenoli
phenolic	-a fenoli
phenolphthalein	fenolifethaleini

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
phosphorus	fosforasi
photochemical oxidant	oksidant ya mmenyuko wa kemia
photochemistry	-enye mmenyuko wa kemia
photoelectric	iliyotokana na mmenyuko wa kemia
photon	fotoni
physical change	badiliko la kimaumbile
physical equilibrium	usawa wa kimaumbile
physical property	tabia ya kimaumbile
physical chemistry	kemia ya kimaumbile
physio sorption	kufyonza kwa atomi
pigment	rangi ya asili
pigmentation	kiwango cha rangi ya asili
pile	rundo
pipe	bomba
pipe still	bomba tuli
pipette	paipeti
plastic	plastiki
plasticizer	-a kufanya plastiki
plate theory	nadharia ya sahani
platinum	platinamu
plutonium	plutoniamu
point	nukta
pOH	pOH
poison	sumu
polar bond	muunganiko wa kingamo
polar molecule	molekuli ya kingamo
polarization potential	uwezekano wa ukingamizaji
polarography	polarografu
polarographic analysis	uchambuzi wa kipolarografu
polarographic apparatus	Kifaa cha maabara cha kipolarografu
polarographic wave	wimbi la kipolarografu
polonium	poloniamu
poly	-ingi
polybasic acid	asidi yenye alikali nyingi
polycarbonate	-a kaboni nyingi
polychloroprene	-a kloroprini nyingi
polycondensation	-a ugandishaji mwingi
polycyclic	pilisaikliki
polyelectrolyte	polielektrolaiti
polyester	nailoni
polyethylene	poliethylini
polyethylene glycols	poliethylini glaikoli
polyglycol	poliglaiikoli
polyhydric alcohol	pombe ya polihadriki
polyisoprene	poliisoprini
polymer	polima
polymerization	upolimishaji

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
polypropylene	polipropilini
polystyrene	polistirini
polytetrafluoro-ethylene	politetrifluro ethilini
polyvinyl acetate	chumvi ya esta ya polivinili
polyvinyl alcohol	pombe ya polivinili
polyvinyl chloride	kloraidi ya polivinili
polyvinyl ether	etha polivinili
porcelain	kauri
poromeric	poromeriki
positron	positroni
potash	potashi
potassium	potasiamu
potassium nitrate	potasiamu naitreti
potassium permanganate	potasiamu pamanganeti
potential energy	nishati tuli
potentiometric titration	upimaji wa uwepo wa chembe
powder metallurgy	madini poda
praseodymium	presiodimiamu
precipitant	kiyeyushaji
precipitate	chuja
precipitation	mvua
precipitation titration	upimaji wa mvua
prepolymer	kabla ya polima
preservative	kihifadhi
prill	prili
primary alcohol	pombe ya msingi
producer gas	kitengeneza gesi
product	zao
promethium	promethiamu
promoter	kianzishi
proof	ushahidi
property	tabia
propionic acid	asidi propioniki
propyl	propili
propylene	propilini
protactinium	protaktiniamu
proteolysis reaction	mjibizo protelisisi
proton acceptor	kichukuaji protoni
proton donor	kitoaji protoni
Prussian blue	samawati ya Prussia
purity	usafi
pyrites	pairaiti
pyrolysis	pairolisisi
pyrrole	piroli
pyruvic acid	asidi ya piruviki

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
Q	
qualitative analysis	uchanganuzi wa ubora
quality control	udhibiti wa ubora
quanta	kwanta
quantitative analysis	uchanganuzi wa kiasi
quartz	kwatzi
quinine	kwinini
R	
radiation	mionzi
radical	radikali
radioactive decay	kuoza kwa mionzi
radioactive series	mfuatano wa mionzi
radioactivity	-a kimionzi
radiocarbon	mionzi ya kikaboni
radioisotope	redioisotopu
radium	radiamu
radius	nusu kipenyo
radon	radoni
rare	adimu
rare earth	udongo adimu
rare gas	gesi adimu
rare metals	metali adimu
rate-determining step	hatua inayokilia kiwango
ray	mwale
reactant	kijibizwa
reaction mechanism	utaratibu wa mjibizo
reaction rate	kiwango cha mjibizo
reagent	wakala
rearrangement	mpangilio upya
reaction	mjibizo
reactor	kiteku cha kutoa joto
reclaiming	kijibizi
rectification	marekebisho
redox reaction	mjibizo wa redoksi
reducing agent	wakala wa kupunguza
reducing flame	mwale wa kupunguza
reduction	upunguaji
reduction potential	uwezo wa upunguaji
refining	kusafisha
reflux	kupwa
refrigerant	dutu ya ubaridi
regeneration	kuzaliana
reinforcing agent	wakala wa kuimarisha
repellent	kifukuzi
replacement	mbadala
replication	urudufishaji

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
reversible reaction	mjibizo wa kubadilishwa
rhenium	reniamu
rhodium	rodiamu
ribonucleic acid (RNA)	asidi ya ribonuklei (RNA)
ring	kizingo
ring stand	jukwaa la kizingo
ring structure	umbo la kizingo
rod	ufito
rubber	mpira
rubidium	rubidiamu
ruby	yakuti
rust	kutu
ruthenium	rutheniamu
S	
saccharose	sakrosi
salt	chumvi
salt soda	chumvi soda
salt bridge	chumvi daraja
samarium	samariamu
saponification	usabunishaji
sapphire	yakuti samawi
saturated compound	msombo dabwadabwa
saturated solution	myeyusho dabwadabwa
scale	kipimo
scandium	skandiamu
scavenger	mwokotezaji
scientific data	data ya kisayansi
scientific method	mbinu ya kisayansi
scientific name	jina la kisayansi
scientific notation	nukuu ya kisayansi
scissors	makasi
sealant	gundi
sedimentation	kufanyika mashapo
sedimentary rock	mwamba mashapo
sedimentation potential	uwezekano wa mashapo
secondary alcohol	pombe ya pili
seed crystal	mbegu ya fuwele
selenium	seleniamu
semiconductor	nusu kipitishi
semi microanalysis	uchambuzi mdogo nusu
semipermeable	-a nusu kupenyeka
semisynthetic	nusu sanisi
sequestering agent	wakala wa kutenga
series	mfuatano
serum	majimaji ya damu
sewage treatment	usafishaji wa maji taka
shell	ganda

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
silica gel	jeli ya silika
silicate	silikati
silicon	silikoni
silicon carbide	silikoni kabaidi
silicone	silikoni
silicone oil	mafuta ya silikoni
silver	fedha
single replacement	mbadala mmoja
sinter	sinta
sintered crucible	kiolezo cha kusinta
slow oxidation	uoksidishaji wa polepole
sludge	kinamasi
slurry	tope laini
smelt	yeyushwa
smog	ukungu wenye moshi
soda	soda
soda ash	magadi
sodium	sodiamu
sodium chloride	chumvi
sodium hydroxide	sodiamu haidroksaidi
sol	jua
solid solution	myeyuko
solidus	solidasi
solubility	umumunyifu
solubility curve	mchirizo wa umumunyifu
solubility product constant	zao la kudumu la umumunyifu
solubility product expression	mlingayo wa zao la umumunyifu
solute	kimumunyishwaji
solution	myeyusho
solution equilibrium	usawa wa myeyusho
solvent	-a kuyeyusha
sour	chachu
specific heat	joto mahususi
specific gravity	uzito halisi
spectral lines	mistari ya kivuli
spectrometer	spektromita
spectroscopy	spektroskopi
spontaneous chemical change	badiliko la kikemikali la ghafula
spontaneous ignition	mwasho wa ghafla
stability	uimara
stability constant	uimara wa kudumu
stabilization	kuimarisha
stabilizer	kidhibiti umeme
stable compound	msombo imara
stain	doa
standard calomel electrode	kiwango cha kalomeli elektrodi
standard condition	hali ya kiwango
standard electrode potential	uwezo wa kiwango cha elektrodi

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
standard heat of formation	kiwango joto cha muundo
standard oxidation-reduction potential	kiwango cha uwezo wa kupunguza oksidesheni
standard pressure	kiwango cha kanieneo
standard solution	kiwango cha myeyuko
starch	wanga
state	hali
steam distillation	usafishaji wa mvuke
stearic acid	asidi ya mafuta ya mgando
steel	chuma
stereochemistry	steriokemia
stereoisomer	sterioisoma
stoichiometry	stoikimetri
stopper	kizibo
STP	STP
straight-chain compound	msombo ulionyooka
strip	vua
strong acid	asidi kali
strong base	alikali kali
strong electrolyte	elektrolaiti kali
strontium	strontiamu
structural formula	fomula ya miundo
subatomic particle	chembe ya kiatomi
sublevel	ngazi ndogo
sublimate	fanya mvuke
sublimation	kufanya mvuke
sublime	adhimu
subliminal	-a adhimu
subscript	hati chini
subshell	gamba dogo
substance	dutu
substituent	mbadala
substitution reaction	mjibizo wa ubadilishaji
substrate	kiweko
sucrose	sakrosi
sulfur	salfa
sulfuric acid	asidi ya salfa
super cooled	iliyopuzwa sana
super oxides	oksaidi thabiti
supersaturated solution	yeyuko lowevu thabiti
supersaturating	uolevu dhabiti
surface	juujuu
surface activity	shughuli ya juujuu
surface-active agent	wakala amilifu wa juujuu
surface area	ukubwa wa eneo
surface chemistry	kemia ya juujuu
surface orientation	mwelekeo wa juujuu
surface reaction	mjibizo wa juujuu

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
surface tension	mkazo wa juujuu
suspension	usawaziko
symbol	alama
synchrotron	sinkrotoni
syndetic	sindetiki
synthesis	usanisi
synthesis gas	gesi sanisi
synthetic resin	utomvu wa kisanisi
T	
tantalum	tantalamu
tar	lami
tartaric acid	asidi ya ukoga
technetium	tekinetiamu
technology	teknolojia
tellurium	teluriamu
temperature	halijoto
terbium	taribiamu
terephthalic acid	asidi ya terefitaliki
ternary	tenari
ternary acid	asidi ya tenari
tertiary alcohol	pombe ya kutengenezwa
terylene	terilini
test tube	neli ya majaribio
test tube holder	kishikia neli ya majaribio
test tube rack	kisafisha neli ya majaribio
tetrachloride	tetrakloraidi
tetra fluoride ethylene (ethylene tetrafluoride)	tetra floraidi ethilini (ethylini tetrafloraidi)
tetramer	tetrama
thallium	taliamu
theoretical plate	sahani ya kinadharia
theory	nadharia
thermal diffusion	msambao wa joto
thermal polymerization	upolimishaji wa joto
thermite	-a joto
thermo balance	usawa wa joto
thermochemistry	kemia ya joto
thermocouple	kigeuzi nishati
thermoform	kuunda plastiki zikiwa moto
thermonuclear device	kifaa cha joto la nyuklia
thermonuclear reaction	mjibizo wa joto la nyuklia
thermoplastic	yenye uwezo wa kuyeyuka na kuganda
thermosetting	kuwa ngumu daima ikichomwa
thiamine	thayamaini
thiol	thioli
thistle tube	mrija wa kibaruti
thorium	thoriamu
thulium	thuliamu

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
tin	mkebe
tincture	dawa
titanium	titaniamu
titrant	kemikali inayotumiwa kwa upimaji
titration	upimaji wa kemikali
toluene	toluini
toner	wino
tongs	makoleo
torr	tori
trace element	elementi ya unyayo
tracer	mfwatiliaji
transfer pipette	mrija mdogo wa kuhamisha
transference number	namba ya uhamishaji
transition element	elementi ya mabadiliko
transition series	mfuatano wa mabadiliko
transmutation	mageuzo toka hali moja kuwa nyingine
transuranic element	elementi inayovuka urani
triad	seti inayohusiana
trichloroethylene	trikloroethilini
tricyclic	trisaikliki
tri-ethanolamine	triethanolamini
tri-ethyl-aluminum	triethylialuminiamu
triglyceride	triglisaridi
tri hydroxide alcohol	pombe ya trihaidroksaidi
trioxide	trioksaidi
triple beam balance	uzani wa miale mitatu
triple bond	miunganiko mitatu
triple point	ncha tatu
tritium	tritiamu
true solution	myeyuko halisi
tubing	kwa mrija
tungsten	tangsteni
tungsten carbide	tangsteni kabaidi
two-hole stopper	kizibo cha mashimo mawili
U	
ultimate analysis	uchambuzi wa mwisho
ultraviolet radiation	mnunurisho wa miale ya jua
uncertainty principle	kanuni ya sintofahamu
uniform dispersion	mtawanyiko sawa
unit	kizio
unsaturated component	kijenzi kisicholowevu
V	
vacancy	nafasi
vacuum condensing point	ncha ya ugandishaji wa ombwe
vacuum crystallization	ufanyazi wa fuwele ombwe
vacuum crystallizer	mfinyazi wa ombwe

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
vacuum distillation	usafishaji wa ombwe
valence	valensi
valence electrons	valensi za elektroni
vanadium	vanadiumu
Van der Waals force	kani ya Van der Waals
Van't Hoff equation	mlinganyo wa Van't Hoff
Van't Hoff isochore	isochori ya Van't Hoff
Van't Hoff isotherm	isothemu ya Van't Hoff
vapor	mvuke
vapor pressure	kanieneo mvuke
vapor pressure depression	mbonyeo wa kanieneo mvuke
vehicle	gari
velocity	kasimwendo
velocity of light	kasimwendo ya mwanga
vicinal	-a karibu
vinegar	siki
vinyl	vinili
vinyl chloride	vinili kloraidi
viscosity	unataji
viscous liquid	kioevu kinachonata
vitreous	-a kioo
volatile	fukivu
volatility	kugeuka hewa
volatilize	kugeuza kuwa hewa
volt	volti
voltaic cell	seli ya volti
volume	ujazo
volume bottle	chupa ya ujazo
volumetric analysis	uchanganuzi wa ujazo
volumetric flask	chupa ya kupimia ujazo
volumetric pipette	pipeti yak upimia ujazo
vulcanization	kuvulkanisha
W	
water	maji
water gas	gesi ya maji
water glass	glasi ya maji
water of crystallization	maji ya uganishaji
water softening	kulainisha maji
water pollution	uchafuzi wa maji
water vapor	mvuke wa maji
wave	wimbi
wave length	urefu wa wimbi
wave velocity	kasimwendo ya wimbi
waxes	nta
weak acid	asidi dhaifu
weak base	alikali dhaifu
weak electrolyte	eletrolaiti dhaifu

CHEMISTRY GLOSSARY - HIGH SCHOOL LEVEL

ENGLISH	SWAHILI
weighing bottle	chupa ya kupima uzito
weight	uzito
wire gauze	waya hashi
wood alcohol	pombe mbao
X	
xenon	zenoni
X-rays	Eksirei
xylene	zilini
Y	
yeast	hamira
ytterbium	yitebiamu
yttrium	yitiriamu
Z	
zeolite	ziolaiti
zero group	kundi la sifuri
zinc	zinki
zirconium	zirikoniamu
zone refining	usafishaji wa ukanda