

Key to Abbreviations

abs – absolute	IU – International Unit
ACGIH – American Conference of Governmental Industrial Hygienists	kg – kilogram (one thousand grams)
af – atomic formula	L – liter
alc – alcohol	lel – lower explosive limit
alk – alkaline	liq – liquid
amorph – amorphous	M – minute(s)
anhyd – anhydrous	m ³ – cubic meter
approx – approximately	mf – molecular formula
aq – aqueous	mg – milligram
atm – atmosphere	misc – miscible
autoign – autoignition	mL – milliliter
aw – atomic weight	mm – millimeter
BEI – ACGIH Biological Exposure Indexes	mod – moderately
bp – boiling point	mp – melting point
b range – boiling range	mppcf – million particles per cubic foot
CAS – Chemical Abstracts Service	mw – molecular weight
cc – cubic centimeter	μ, u – micro
CC – closed cup	μg – microgram
CL – ceiling concentration	n – refractive index
COC – Cleveland open cup	ng – nanogram
compd(s) – compound(s)	NIOSH – National Institute for Occupational Safety and Health
conc – concentration, concentrated	nonflam – nonflammable
contg – containing	NTP – National Toxicology Program
cryst – crystal(s), crystalline	OBS – obsolete
d – density	OC – open cup
D – day(s)	org – organic
decomp – decomposition	ORM – other regulated material (DOT)
deliq – deliquescent	OSHA – Occupational Safety and Health Administration
dil – dilute	Pa – Pascals
DOT – U.S. Department of Transportation	PEL – permissible exposure level
EPA – U.S. Environmental Protection Agency	pet – petroleum
eth – ether	pg – picogram (one trillionth of a gram)
(F) – Fahrenheit	Pk – peak concentration
FCC – Food Chemical Codex	pmole – picomole
FDA – U.S. Food and Drug Administration	powd – powder
flam – flammable	ppb – parts per billion (v/v)
flash p – flash point	pph – parts per hundred (v/v)(percent)
fp – freezing point	ppm – parts per million (v/v)
g – gram	ppt – parts per trillion (v/v)
glac – glacial	prac – practically
gran – granular, granules	prep – preparation
H – hour(s)	PROP – properties
HR: – hazard rating	refr – refractive
htd – heated	rhomb – rhombic
htg – heating	S, sec – second(s)
hygr – hygroscopic	sl, slt – slight
IARC – International Agency for Research on Cancer	sltly – slightly
immisc – immiscible	sol – soluble
incomp – incompatible	soln – solution
insol – insoluble	solv(s) – solvent(s)
	spar – sparingly

xxviii *Key to Abbreviations*

spont – spontaneous(ly)

STEL – short-term exposure limit

subl – sublimes

TCC – Tag closed cup

tech – technical

temp – temperature

TLV – Threshold Limit Value

TOC – Tag open cup

TWA – time weighted average

uel – upper explosive limit

unk – unknown, unreported

ULC, ulc – Underwriters Laboratory Classification

USDA – U.S. Department of Agriculture

vac – vacuum

vap – vapor

vap d – vapor density

vap press – vapor pressure

visc – viscosity

vol – volume

W – week(s)

Y – year(s)

% – percent(age)

> – greater than

< – less than

<= – less than or equal to

=> – greater than or equal to

° – degrees of temperature in Celsius (centigrade)

°F – temperature in Fahrenheit