



Glossary

Acet	acetone
AED	atomic emission detector
ASE	accelerated solvent extraction
ATD	automated thermal desorption
Benz	benzene
BSTFA	<i>N,O</i> -bis(trimethylsilyl)trifluoroacetamide
BTEX	benzene, toluene, ethylbenzene, and xylenes
ButOAc	butyl acetate
CFME	continuous-flow micro-extraction
Conc.	Concentrate
CTME	<i>cis/trans</i> methyl ester
Cyclohex	cyclohexane
Cyclopen	cyclopentane
DCM	dichloromethane
DDSME	drop-to-drop solvent micro-extraction
Dec	decane
Deriv.	derivatization
DI-SPME	direct-immersion solid-phase micro-extraction
DMAE	dynamic microwave-assisted extraction
DMI	difficult/dirty matrix introduction
DSI	difficult sample introduction
DTD	direct thermal desorption
DUSE	dynamic ultrasound-assisted extraction
ECD	electron-capture detector
EPA	Environmental Protection Agency
EtAc	acetic acid
EtOAc	ethyl acetate
EtOH	ethanol
FAME	fatty acid methyl ester
FID	flame ionization detector
FMAE	focused microwave-assisted extraction
FPD	flame photometric detector
GC	gas chromatography
GC×GC	comprehensive two-dimensional gas chromatography
GPC	gel permeation chromatography
Hep	heptane
Hex	hexane
HexOAc	hexyl acetate

HRMS	high-resolution mass spectrometry
HS	headspace
HS-LPME	headspace liquid-phase micro-extraction
HS-SDME	headspace single-drop micro-extraction
HS-SPME	headspace solid-phase micro-extraction
HSSE	headspace sorptive extraction
IAE	immunoaffinity extraction
IASPE	immunoaffinity-based solid-phase extraction
IMS	ion mobility spectrometry
IR	infra red
ISTD	internal standard
$K_{o/w}$	octanol–water distribution coefficient
LC	column liquid chromatography
LOD	limit of detection
LLE	liquid–liquid extraction
LPME	liquid-phase micro-extraction
LVI	large-volume injection
MAE	microwave-assisted extraction
MASE	membrane-assisted solvent extraction
MeCN	acetonitrile
MeOH	methanol
MESI	membrane-extraction sorbent interface
MIMS	membrane-introduction mass spectrometry
MIP	molecularly imprinted polymer
MISPE	molecularly imprinted solid-phase extraction
MMLLE	microporous membrane liquid–liquid extraction
MS	mass spectrometer
MSPD	matrix solid-phase dispersion
MTBE	methyl <i>tert</i> -butyl ether
NPD	nitrogen phosphorus detector
NPLC	normal-phase liquid chromatography
OCP	organochlorine pesticide
OPP	organophosphorus pesticides
P&T	purge & trap
PAH	polycyclic aromatic hydrocarbons
PBDE	polybrominated diphenyl ether
PCB	polychlorinated biphenyl
PCDD/F	polychlorinated dibenzo- <i>p</i> -dioxin/furane
PDHID	pulsed-discharge helium ionization detector
PDMS	polydimethylsiloxane



PEEK	polyetheretherketone
Pen	pentane
PFBHA	<i>O</i> -(2,3,4,5,6-pentafluorobenzyl) hydroxylamine hydrochloride
PFE	pressurized fluid extraction
PFPD	pulsed flame photometric detector
PHWE	pressurized hot-water extraction
PID	photoionization detector
PLE	pressurized liquid extraction
PMAE	pressurized microwave-assisted extraction
POP	persistent organic pollutant
PP	polypropylene
PTFE	polytetrafluoroethylene (Teflon)
PTV	programmed temperature vaporizer
QqQ	triple quadrupole
RAM	restricted-access media
RSD	relative standard deviation
Sat.	saturated
SBSE	stir-bar sorptive extraction
SCD	sulphur chemiluminescence detector
SD	steam distillation
SDB	styrene–divinylbenzene
SDME	single-drop micro-extraction
SEP	sample-enrichment probe
SFE	supercritical fluid extraction
SHWE	subcritical hot-water extraction
SIM	single ion monitoring
SLE	solid–liquid extraction
SLM	supported liquid membrane
SPE	solid-phase extraction
SPDE	solid-phase dynamic extraction
SPME	solid-phase micro-extraction
SVOC	semi-volatile organic compound
TATP	triacetone triperoxide
TCD	thermal conductivity detector
TCM	chloroform
TD	thermal desorption
Tetra	tetrachloromethane
TIC	total ion current
TMSH	trimethylsulphonium hydroxide
ToF MS	time-of-flight mass spectrometry

Tol	toluene
TSD	thermionic specific detector
USE	ultrasound-assisted extraction
VHOC	volatile halogenated organic compound
VOC	volatile organic compound
VOX	volatile organic halogens
Xyl	xylene