

Environmental Chemistry

Standard Abbreviations

<i>General</i>		<i>Detection</i>	
FT	Fourier transform	DAD	diode array detector
IR	infrared	FD	fluorescence detection
FIR	far-IR	FID	flame ionization detector
NIR	near-IR	FPD	flame photometric detector
UV	ultraviolet	LOD	limit of detection
UV/Vis	ultraviolet-visible	LOQ	limit of quantification
STP	standard temperature and pressure	ppb	parts per billion (10^{-9} ; ng g $^{-1}$)
id	internal diameter	ppm	parts per million (10^{-6} ; $\mu\text{g g}^{-1}$)
od	outer diameter	ppt	parts per trillion (10^{-12} ; pg g $^{-1}$)
<i>Methods and Techniques—Spectroscopy and Microscopy</i>		SCE	standard calomel electrode
AAS	atomic absorption spectroscopy	<i>Data Processing and Statistics</i>	
CVAAS	cold vapour AAS	ANOVA	analysis of variance
FAAS	flame AAS	cpm	counts per minute
HGAAS	hydride generation AAS	rms	root mean square
ICP	inductively coupled plasma	rpm	revolutions per minute
NMR	nuclear magnetic resonance	RSD	relative standard deviation
OES	optical emission spectroscopy	SIMCA	soft independent modelling of class analogy
SEM	scanning/surface (reflection) electron microscopy	S/N	signal-to-noise ratio
STM	scanning tunnelling (electron) microscopy	<i>r</i>	correlation coefficient
XRD	X-ray diffraction	<i>s</i>	standard deviation of sample
XRF	X-ray fluorescence	σ	population standard deviation
<i>Methods and Techniques—Mass Spectrometry</i>		<i>Materials</i>	
MS	mass spectrometry	CRM	certified reference material
EI	electron ionization	DNA	deoxyribonucleic acid
ESI	electrospray ionization	EDTA	ethylenediamine tetraacetic acid
FAB	fast atom bombardment	PAHs	polycyclic aromatic hydrocarbons
ICP-MS	inductively coupled plasma-MS	PCBs	polychlorinated biphenyls
MS/MS	MS coupled to MS	PCDDs	polychlorinated dibenzo- <i>para</i> -dioxins
MS ⁿ	multiple mass spectrometry	PCDFs	polychlorinated dibenzofurans
SIMS	secondary ion mass spectrometry	PTFE	polytetrafluoro ethylene
TOF	time of flight	PVC	polyvinyl chloride
<i>Methods and Techniques—Analysis, Assay, and Separation</i>		RNA	ribonucleic acid
CE	capillary electrophoresis	SRM	standard reference material
CZE	capillary zone electrophoresis	TOC	total organic carbon
ELISA	enzyme linked immunosorbent assay	TMS	trimethylsilane
GC	gas chromatography	Tris	2-amino-2-(hydroxymethyl)-propane-1,3-diol
HRGC	high resolution GC	<i>Organizations</i>	
GC-MS	gas chromatography-mass spectrometry	AOAC	Association of Official Analytical Chemists
NAA	neutron activation analysis	ASTM	American Society for Testing and Materials
TLC	thin layer chromatography	CEN	European Committee for Standardization
HPTLC	high performance TLC	EPA	Environmental Protection Agency
LC	liquid chromatography	NIST	National Institute of Standards and Technology
HPLC	high performance LC	<i>Environmental</i>	
LC-MS	liquid chromatography-mass spectrometry	APCI	atmospheric pressure chemical ionization
TGA	thermogravimetric analysis	API	atmospheric pressure ionization