ANALYT MESSTECHNIK



REFERENCE GUIDE

SKC sampling for NIOSH, OSHA, EPA and ASTM methods

Sampling parameters and SKC sampling media for about 2100 NIOSH, OSHA, EPA, ASTM and other methods, chemical by chemical: exposure standard, air volume, flow rate, sampling time, analysis and catalogue numbers.

AMTC-RF-0004

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About this guide

This guide answers one question for about 2100 combinations of chemical and method: what do I need to take this air sample? For each published method from NIOSH, OSHA, EPA and ASTM International — and for a number of non-agency and SKC methods — it lists the exposure standard, the air volume, flow rate and sampling time, the analytical technique, and the SKC sorbent tubes, filters, passive samplers and holders the method calls for, with their catalogue numbers.

Start with Using the method tables (p. 3): it explains the columns, the symbols and how the sampling media are listed. The tables themselves are in Methods by chemical (p. 8), alphabetical from A to Z. Abbreviations of analytical techniques and sampling media are spelled out in Abbreviations (p. 4); the method sources and the non-agency methods cited as “NON” are in References (p. 83).

The guide summarizes the methods; it does not replace them. Before you sample, read the method itself for the full procedure, the validated range and the analytical conditions.

Analyt-MTC helps you choose the SKC sorbent tubes and sampling media for your method. For any item in the tables, ask Analyt-MTC — see Ordering information (p. 85) and Contacts (p. 86).

How this guide marks information

Note
Information that helps understanding; never a hazard.

Document information

Title	SKC sampling for NIOSH, OSHA, EPA and ASTM methods — Reference guide
Document number	AMTC-RF-0004
Revision	Rev. 2 — October 2026
Applies to	SKC sorbent tubes (Anasorb, charcoal, Chromosorb, OVS, PUF, Porapak, silica gel, specific, Tenax and XAD tubes) and the other SKC sampling media named in the tables
Language	English
Manufacturer	SKC Inc.

Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

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Using the method tables

Each row of the tables is one method for one chemical. Find the chemical, pick the method your laboratory works to, and the row gives you the sampling conditions and the media to order.

What the tables contain

The tables are compiled from the NIOSH Manual of Analytical Methods, the OSHA Analytical Methods Manual, the EPA Compendium of Methods, the ASTM International standards for occupational health and air quality, and published non-agency methods. They are current to the date SKC compiled them; agencies revise their methods, so check the method's current edition before a measurement campaign.

A chemical usually appears several times — once per method. Rows whose name ends in a group name in brackets, such as “Acetone (Ketones I)”, belong to a method that covers a group of compounds. Rows that only say “see …” point to the name under which the chemical is listed.

Note
The figures are suggested starting values from within each method's permitted ranges. Your analyst fixes the final volume, flow and time to reach the detection limit you need; confirm in the published method that its validated range fits your application.

Reading a row

Column	Content
Chemical	The chemical hazard, with synonyms and the method's compound group in brackets
Method	The agency and method number: NIOSH, OSHA (organic methods by number, inorganic methods with the prefix ID), EPA (TO = toxic organic, IO = inorganic, IP = indoor air), ASTM, MSHA, OR-OSHA (Oregon OSHA), NON nn (non-agency method nn, see Non-agency methods (p. 83)) or Internal (a method without an agency reference). OSHA PV methods are provisional.
Standard (ppm unless stated)	The agency's exposure standard as a time-weighted average (TWA) and as a ceiling or short-term limit (C/STEL), in ppm unless another unit is given. For OSHA methods the standard is the OSHA permissible exposure limit (PEL) of 29 CFR 1910.1000.
Volume (L)	Air volume to sample, in litres unless another unit is given, for a TWA and for a C/STEL measurement
Flow (mL/min)	Flow rate through the sampling medium, in mL/min unless another unit is given (L/min for high-volume methods)
Time	Sampling time: TWA in hours, C/STEL in minutes, unless another unit is given
Analysis	The analytical technique, abbreviated — see Analytical techniques (p. 5)
Order code	The type of medium in bold (see Sampling media (p. 5)) and the SKC catalogue number

Where a column holds two values, the TWA value comes first and the C/STEL value follows the slash: **50 / 50**. A dash before the slash means the method gives only a C/STEL value. An empty cell means the method gives no value for that quantity.

Note
The standards in the tables are U.S. values (OSHA PELs, NIOSH recommendations and similar). For workplaces in Germany and the rest of the EU, the national occupational exposure limits apply, for example the AGW of TRGS 900. The method's sampling conditions remain valid; the target concentration may differ.

Sampling media and catalogue numbers

The last column lists every item the method needs, one per line: the sorbent tube or filter, and the holder, rate reducer or tube holder that goes with it. Items without a connecting word are all needed

together. Where the method allows a choice, the line ends with *or*; where one item is used with another, it ends with *with*. For example, OSHA 5002 for 1,6-hexamethylene diisocyanate reads:

CF/CST 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 ▯ **C/HLD** 225-1	one of the three coated filters in a preloaded cassette, in the cassette holder 225-1; the ▯ marks the note on the MOPIP derivatizing solution

ask Analyt-MTC in place of a catalogue number means: contact Analyt-MTC for this item. Media marked †† have a limited shelf life; for these and for any catalogue number, ask Analyt-MTC.

Symbols and abbreviations in the rows

Mark	Meaning
C	Ceiling value
EL	Excursion limit
LFC	NIOSH standard: lowest feasible concentration
LOQ	Limit of quantitation
NON	Non-agency reference (method), numbered as in Non-agency methods (p. 83)
OEL	U.S. Army occupational exposure limit
OR-OSHA	Oregon OSHA method and target concentrations
††	Sampling media with a limited shelf life — ask Analyt-MTC
**	Optional: use a filter if particulates are present
‡	The filter or tube must be chemically treated before sampling; check in the method which treatment applies
+	Sonic flow
▯	In atmospheres containing ozone, use sorbent tube Cat. No. 226-120
▯	Analysis for monomer and oligomer aerosol needs the MOPIP derivatizing solution: ask Analyt-MTC
▯	Modified procedure or sampler
◊	Another collection liquid may suit the target microorganisms better
¥	The method does not completely digest PVC filter Cat. No. 225-803
Δ	NIOSH recommends a 1.0 µm PTFE filter as substitute for the 0.8 µm PVC filter originally specified in NIOSH 7904
∑	ACGIH thoracic TWA; use the Parallel Particle Impactor (PPI) for the thoracic-fraction TWA
Ω	Chromium plating operations: PVC filters Cat. No. 225-802 need special treatment on receipt in the laboratory. Quartz fiber filters Cat. No. 225-1827, treated with NaOH, are an alternative; see the method
π	With a silica gel sorbent tube plus coated filter at flow rates above 500 mL/min, SKC recommends the AirChek TOUCH, Essential+, Connect or XR5000 sample pump
£	Collect six samples of 20 minutes each, using two Cat. No. 226-134 per sample
▯	Analysis to NIOSH 5524 needs a filter funnel; ask Analyt-MTC
▯	See the analytical method for the target concentrations
▯	Do not load more than 2 mg of total dust on the filter
ψ	10 L at 0.1 L/min (at most 20 L at 0.2 L/min)

Abbreviations

Abbreviations used in Methods by chemical (p. 8). Combined terms use a hyphen: GC-FID is gas chromatography with a flame ionization detector.

Analytical techniques

Abbr.	Technique
AA	Atomic absorption
AAS	Atomic absorption spectroscopy
AED	Atomic emission detection
AES	Atomic emission spectroscopy
CA	Chromotropic acid assay
CD	Conductivity detection
CI	Colorimetric
CLR	Spectrophotometric method or colorimeter
DET TB	Detector tube, colour-indicating
DID	Discharge ionization detector
DPCSP	Differential pulse cathodic stripping polarography
DPP	Differential pulse polarography
DR	Direct-reading
DRI	Direct-reading instrument
EAP	Explosives analysis package
ECD	Electron capture detector
ECN	Electrolytic conductivity detector
EGA-TOS	Evolved gas analysis with thermal-optical sensor
ELCHM	Electrochemical detector
F	Flame
FAME	Fatty acid methyl ester
FD	Fluorescence detector
FID	Flame ionization detector
FLAG	Flame arsine generation
FLUOR	Fluorescence
FPD	Flame photometric detector
FPDS	Flame photometric detector, sulfur-specific
GC	Gas chromatography
GF	Graphite furnace
GR	Gravimetric analysis
HGA	Heated graphite atomizer
HPLC	High-performance liquid chromatography
HRGC	High-resolution gas chromatography
HRMS	High-resolution mass spectrometry
IC	Ion chromatography
IC-CD	Ion chromatography detector
ICP	Inductively coupled plasma
ICP-DCP	Inductively coupled plasma – directly coupled plasma spectroscopy
ICP-MS	Inductively coupled plasma-mass spectrometry
IR	Infrared spectrophotometry
IRA	Immunoradiometric assay
ISE	Ion-specific electrode

Abbr.	Technique
LC	Liquid chromatography
MAS	Molecular absorption spectrometry
MD	Multi-detector
MS	Mass spectrometry
MSD	Mass selective detector
N ACT	Neutron activation
NCD	Nitrogen chemiluminescence detector
NPD	Nitrogen-phosphorus detector
NSD	Nitrogen-specific detector
NVM	No validated method
P FLUOR	Portable fluorescence
P GC	Portable gas chromatography
P IR	Portable infrared spectrophotometry
P IS	Portable infrared spectrophotometer
P VAS	Portable visible absorption spectrophotometry
PASV	Portable anodic stripping voltammetry
PCD	Post-column derivatization
PCM	Phase contrast microscopy
PCR	Polymerase chain reaction
PDA	Photodiode array detector
PES	Plasma emission spectrometry
PID	Photoionization detector
PLM	Polarized light microscopy
POL	Polarography
SCD	Sulfur chemiluminescence detector
SE	Soxhlet extraction
SEM	Scanning electron microscopy
SIM	Selected ion monitoring
SPOT	Chemical spot test
TCD	Thermal conductivity detector
TD	Thermal desorption
TEA	Thermal energy analyzer
TEM	Transmission electron microscopy
TITRA	Titration
TOA	Thermal-optical analysis
UV	Ultraviolet detector
VAS	Visible absorption spectrophotometry
VIS	Visual
W	Wipe
XRD	X-ray diffraction
XRF	X-ray fluorescence
XRFS	X-ray fluorescence spectroscopy

Sampling media

Abbr.	Sampling medium
AC	Accu-CAP capsule
BI	Bioaerosol impactor
BS	BioSampler
C	Capsule
CAL	Calibration adapter
C/HLD	Filter cassette and cyclone holder

Abbr.	Sampling medium
MINI	Mini-sampler
MVC	Microvacuum cassette
PEM	Personal environmental monitor
PPI	Parallel Particle Impactor
PS	Passive sampler
PT	Plastic tubing

Abbr.	Sampling medium
CF/CST	Coated filter in preloaded cassette
CH	Capsule holder
CI	Cascade impactor
CPC	Constant pressure controller
CST	Filter cassette
CYC	Cyclone
DPM	DPM cassette (diesel particulate matter) *
DR	Direct-reading
DRI	Direct-reading instrument
DRT	Drying tube
DT	Detector tube, colour-indicating
EPAM	Environmental particulate monitor
F/CST	Filter in preloaded cassette
FLT	Filter
FLT/CL	Filter cassette with cowl
FOAM	Foam
H/SET	Headset (face level)
IMP	Impinger
IOM	IOM particulate sampler
IS	Impaction substrate
IT	Impinger trap
JAR	Jar

Abbr.	Sampling medium
PUF	PUF cartridge
RR	Rate reducer
SB	Sample bag
SBLK	Bulk sorbent
SC	Solu-CAP
SCN	Screen
SCRN	Stainless steel screen
SH	Sampling head
SM TB	Smear tab
SP	Support pads
SPC	Spacer
SSC	Stainless steel cassette
ST	Sorbent tube
STC	Spore trap cassette
SV	Sorbent vial
T	Tape
TH	Tube holder
TK	Test kit
TMP	Template
VAC	Vac-U-Chamber
VT	ViaTrap for BioSampler
W	Wipe

* Used in the tables but not among the source's abbreviations; named after the SKC product.

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CHAPTER 1

Methods by chemical

Chemicals A to Z, one row per method. Columns, symbols and the way sampling media are listed are explained in Using the method tables (p. 3); abbreviations are in Abbreviations (p. 4).

A

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Acenaphthene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Acenaphthene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Acenaphthene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Acenaphthene (1,2-dihydroacenaphthylene; 1,8-ethylenenaphthylene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Acenaphthylene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Acenaphthylene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Acenaphthylene (Acenaphthalene; cyclopenta[de] naphthalene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Acenaphthylene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Acetaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ⍰ *or* **ST** 226-119
Acetaldehyde	NIOSH 2538	LFC	10	20	8	GC-FID	**ST** 226-27
Acetaldehyde	NIOSH 3507	LFC	60	125	8	HPLC	**IMP** 225-36-2 **IT** 225-22
Acetaldehyde	OSHA 68	200	3 / 0.75	50 / 50	1 / 15	GC-NPD	**ST** 226-27
Acetaldehyde (Aldehydes, Screening)	NIOSH 2539	LFC	5	10	8	GC-FID & GC-MS	**ST** 226-118
Acetamide	OSHA PV2084		10	20(50)	8(3.3)	GC-NPD	**ST** 226-10
Acetates (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Acetic acid	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Acetic acid	NIOSH 1603	10 / 15	24	50	8	GC-FID	**ST** 226-01-50_
Acetic acid	NON 61	10		16.67	see method	IC	**PS** 500-200
Acetic acid	OSHA PV2119		48	200	4	IC or GC-FID	**ST** 226-01-50_
Acetic anhydride	NIOSH 3506	– / 5	90	1000	1.5	VAS	**IMP** 225-36-2 **IT** 225-22
Acetic anhydride	OSHA 102	5	7.5 / 7.5	50 / 500	2.5 / 15	GC-NPD	**F/CST** 225-9010 **C/HLD** 225-1
Acetoin	NIOSH 2558		1–10	10–200	varies	GC-FID	**ST** 226-183
Acetoin (acetyl methyl carbinol)	OSHA 1012	0.05	9 / 3	50 / 200	3 / 15	GC-FID	**ST** 226-183
Acetone	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ⍰ *or* **ST** 226-119

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Acetone	Internal			15.2	8–24 hrs	SE, GC	**PS** 690-105
Acetone	OSHA 69	1000	3	50	1	GC-FID	**ST** ask Analyt-MTC
Acetone (Ketones I)	NIOSH 1300	250	0.5–3 / 0.75	10–200 / 50	25 min–2.5 hrs / 15	GC-FID	**ST** 226-01-50_
Acetone (Ketones I)	NIOSH 2555	250	0.5–3	10–200 / 50	25 min–2.5 hrs / 15	GC-FID	**ST** ask Analyt-MTC
Acetonitrile	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Acetonitrile	NIOSH 1606	20	1 at 40 ppm to 25	10–200 / 50	100–125 mins	GC-FID	**ST** 226-09-50_
Acetophenone	OSHA PV2003		12	100	2	GC-FID	**ST** 226-35
Acetyl methyl carbinol (acetoin)	NIOSH 2558		1–10	10–200	50–100 mins	GC-FID	**ST** ask Analyt-MTC
Acetylene tetrabromide (1,1,2,2-tetrabromoethane)	NIOSH 2003		50 at 1 ppm to 100	200–1000	100–250 mins	GC-FID	**ST** 226-10
Acid blue 9	OSHA PV2129	0.2 mg/m³ (Target Concentration)	100	1000	100 min	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Acridine	OSHA 58	0.2 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Acrolein	NIOSH 2501	0.1 / 0.3	13 at 0.1–48	10–100 / 200	8 / 15	GC-NPD	**ST** 226-118
Acrolein	OSHA 52	0.1	48 / 3	100	8 / 15	GC-NPD	**ST** 226-117
Acrolein (Aldehydes, Screening)	NIOSH 2539	0.1 / 0.3	5	10–50	8	GC-FID & GC-MS	**ST** 226-118
Acrylamide	OSHA PV2004	0.3 mg/m³	120	1000	2	HPLC-UV	**ST** 226-57
Acrylic acid	NON 10		48	100	8	GC	**ST** 226-70A
Acrylic acid	NON 60		24	100	4	HPLC-UV	**ST** 226-30-08
Acrylic acid	OSHA PV2005	2 (target concentration)	20	100	4	LC-UV	**ST** 226-30-08
Acrylonitrile	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Acrylonitrile	Internal			20.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101
Acrylonitrile	Internal			20.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Acrylonitrile	NIOSH 1604	1 / 10 (15 min)	3.5–20 𝕃 / 3	20(50) / 10–200	8 / 15	GC-FID	**ST** 226-01-50_
Acrylonitrile	OSHA 37	2	20	200	100 min / 15	GC-NPD	**ST** 226-01-50_
Actinomycetes, thermophilic	NIOSH 0800		varies	28 300	varies	varies	**BI** 225-9611
Aerobic bacteria (by GC-FAME)	NIOSH 0801	varies with Compound	50–300	28 300	varies	GC-FID	**BI** 225-9611
Alcohols (screening)	NIOSH 2549	varies with Compound	1–6	10–50	100 mins–2 hrs	TD, GC-MS	**ST** 226-330
Alcohols combined	NIOSH 1405	varies / varies	varies / varies	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Alcohols I (see specific compounds)	NIOSH 1400	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
Alcohols II (see specific compounds)	NIOSH 1401	varies	varies	varies	8	GC-FID	**ST** 226-01-50_
Alcohols III (see specific compounds)	NIOSH 1402	varies	1–10	10–20	8	GC-FID	**ST** 226-01-50_
Alcohols IV (see specific alcohol)	NIOSH 1403	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
Aldehydes	EPA TO-5		< 80 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Aldehydes (screening)	NIOSH 2539	varies	5	10–50	4	GC-FID & GC-MS	**ST** 226-118
Aldehydes (screening)	NIOSH 2549	varies	1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Aldicarb (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Aldicarb (Temik)	OSHA 74		480	1000	8	GC-NPD	**ST** 226-30-16
Aldrin	NIOSH 5502	0.25 mg/m³	18–240 ▯	200–1000	90 mins–4 hrs	GC-ECN	**F/CST** 225-709 **IT** 225-22 **IMP** 225-36-2 **C/HLD** 225-1
Aliphatic hydrocarbons (screening)	NIOSH 2549	varies	1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Alkaline dusts	NIOSH 7401	2 mg/m³ (NaOH)	70–1000 ▯30	1000–4000	– / 70 mins–4 hrs	TITRA	**F/CST** 225-1715 **C/HLD** 225-1
Allyl alcohol	OSHA PV2140	2 (skin)	10	50	200 min	GC-FID	**ST** 226-01-50_
Allyl alcohol (Alcohols Combined)	NIOSH 1405	2 / 4 (skin)	varies / varies	2000–10 000	varies	GC-FID	**ST** 226-01-50_
Allyl alcohol (Alcohols III)	NIOSH 1402	2 / 4 (skin)	1–10 / 3	200 / 10	100–8 hrs / 15	GC-FID	**ST** 226-01-50_
Allyl chloride	NIOSH 1000	1 / 2	– / 16–100 ▯	10–1000	– / 15	GC-FID	**ST** 226-01-50_
Allyl glycidyl ether	NIOSH 2545	5 / 10 (skin)	1.5–8 ▯ / 3	10–200	40–150	GC-FID	**ST** 226-35-03
Allyl propyl disulfide	OSHA PV2086	2	10	20 ▯	50	GC-FPD	**ST** 226-110
Alumina (aluminium & compounds [total dust as Al])	NIOSH 7013	10–400	360	1000–3000	2–6	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Alumina (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**CYC** 225-01-02 **F/CST** 225-803 **C/HLD** 225-1
Alumina (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
alpha-Alumina (respirable fraction)	OSHA PV2121	5 mg/m³	varies	varies	varies	GR	**CYC** 225-105 **C/HLD** 225-1 **F/CST** 225-803
alpha-Alumina (total dust)	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
Aluminum (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	10 mg/m³ (total dust) / 5 mg/m³ (respirable)	1–330	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Aluminum & compounds (total dust as Al)	NIOSH 7013	10 mg/m³	360	1000	6	AA-F	**F/CST** 225-3-01 *or* **F/CST** 225-508 **C/HLD** 225-1
Aluminum (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	10 mg/m³ (total dust)	5–100	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 *or* **F/CST** 225-508
Aluminum (Elements by ICP Hot Block/HCl/HNO_3 Digestion)	NIOSH 7303	10 mg/m³ (total dust) 5 mg/m³ (respirable fume)	2–10 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-508 **C/HLD** 225-1
Aluminum (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)	5–100	1000–4000	varies	ICP-AES	**F/CST** 225-508 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Aluminum (respirable fraction)	OSHA PV2121	5 mg/m³	varies	varies	varies	GR	**F/CST** 225-803 **C/HLD** 225-1 **CYC** 225-105
Aluminum (total dust)	OSHA PV2121	15 mg/m³	480–960	2000	4–8	GR	**F/CST** 225-802 **CST** 225-2LF **C/HLD** 225-1
Aluminum soluble salts	OSHA ID 121	2 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Amines, aromatic	NIOSH 2002	varies	varies	varies	varies	GC-FID or GC-NSD	**ST** 226-10
Amines, aliphatic	NIOSH 2010	varies	24	50	8	GC-FID	**ST** 226-10
2-Amino-2-methyl-1-propanol	OSHA PV2145		10	100	100 min	LC-UV	**ST** 226-30-16

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
4-Aminobiphenyl	OSHA 93		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
2-Aminoethanol	OSHA PV2111	3	10 / 1.5	100 / 100	100 min / 15	HPLC-UV	**ST** 226-30-18
Aminoethanol compounds I (see specific compounds)	NIOSH 2007	varies	varies	varies	8	GC-FID	**ST** 226-10-04
Aminoethanol compounds II (see specific compounds)	NIOSH 3509	varies	240	1000	4	IC	**IMP** 225-36-1 **IT** 225-22
Aminoethylethanolamine	OSHA PV2116		10	100	100 min	LC-UV	**ST** 226-30-18
p-Aminophenylarsonic acid (arsenic, organo-)	NIOSH 5022		960	2000	8	IC-AA	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-3LF
2-Aminopyridine	OSHA PV2143	0.5	240	1000	4	GC-NPD	**CF/CST** 225-9004 **C/HLD** 225-1
3-Aminopyridine	OSHA PV2143		240	1000	4	GC-NPD	**CF/CST** 225-9004 **C/HLD** 225-1
4-Aminopyridine	OSHA PV2143		240	1000	4	GC-NPD	**CF/CST** 225-9004 **C/HLD** 225-1
Amitrole	OSHA PV2006		60	1000	1	HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Ammonia	NIOSH 6015	25 / 35	72 / 3	150 / 200	8 / 15	VAS	**ST** 226-10-06 **F/CST** 225-3-01
Ammonia	OSHA ID 188	50	24 / 7.5	100 / 500	4 / 15	IC-CD	**ST** 226-29
Ammonia (by IC)	NIOSH 6016	25 / 35	48 / 3	100 / 200	8 / 15	IC	**ST** 226-10-06 **F/CST** 225-3-01**
Ammonium chloride (fume)	OSHA ID 188		960 / 30	2000 / 2000	8 / 15	IC-CD	**F/CST** 225-3-01 **C/HLD** 225-1
Ammonium hydroxide	*see ammonia*						
Ammonium metavanadate (see vanadium oxides)	NIOSH 7504						
sec-Amyl acetate (2-pentyl acetate)	NIOSH 1450	125	10	200	50 (min)	GC-FID	**ST** 226-01-50_
n-Amyl acetate (Esters I)	NIOSH 1450	100	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
t-Amyl methyl ether (methyl tert-amyl ether)	Internal			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
t-Amyl methyl ether (methyl tert-amyl ether)	Internal			13.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Aniline	NIOSH 2017	LFC	5–50	200	25 min–4 hrs	GC-FID	**CF/CST** 225-9004 **ST** 226-15
Aniline	OSHA PV2079	5	30	50	8	GC-FID	**ST** 226-98
Aniline (Amines, Aromatic)	NIOSH 2002	lowest feasible (carcinogen)	5–30	20–200	– / 25 min–8 hrs	GC-FID or GC-NSD	**ST** 226-10
Anisidine	NIOSH 2514	0.5 mg/m³	EPA	500–1000	24 min–8 hrs	HPLC-UV	**ST** 226-30-05
Anthophyllite fibers (see asbestos fibers)	NIOSH 7400						
Anthracene	OSHA 58	0.2 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Anthracene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Anthracene (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)							
Anthracene (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–8	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Anthracene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Anthracene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Antimony & compounds (as Sb)	OSHA ID 121	0.5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Antimony & compounds (as Sb)	OSHA ID 125G	0.5 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 *or* **C/HLD** 225-3100 **C/HLD** 225-1
Antimony (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.05 mg/m³	1–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Antimony (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.5 mg/m³	50–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Antimony (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.5 mg/m³	3–100 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 508 **C/HLD** 225-1
Antimony (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.5 mg/m³	50–2000	1000–4000	varies	ICP-AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Antimony (ICP Analysis of Metal/metalloid Particulates from Solder Operations)	OSHA ID 206	0.5 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-508 **C/HLD** 225-1
Apron	OSHA PV2102		60	1000	1	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Aroclor	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Aroclor	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
Aroclor 1242	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Aroclor 1242 (42 % Cl) (see polychlorobiphenyls)	NIOSH 5503						
Aroclor 1254	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Aroclor 1254 (54 % Cl) (see polychlorobiphenyls)	NIOSH 5503						
Aroclor 1260	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Aromatic hydrocarbons (screening)	NIOSH 2549	varies	1–6	10–50	varies	GC-MS	**ST** 226-330
Arsenic (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.002 mg/m³	32–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Arsenic & compounds (as As)	NIOSH 7900	2 µg/m³ (15 min)	– / 30	– / 2000	– / 15	AA-F	**F/CST** 225-3-01 *or* **F/CST** 225-508 **C/HLD** 225-1
Arsenic (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	– / 0.002 mg/m³	– / 5–2000	– / 1000–4000	– / varies	ICP-AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Arsenic (Elements by ICP Hot Block/HCl/HNO_3 Digestion)	NIOSH 7303	0.002 mg/m³	8–5000000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-508 **C/HLD** 225-1
Arsenic (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	– / 0.002 mg/m³ (C)	– / 5–2000	– / 1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 508 *or* **F/CST** 225-802 **C/HLD** 225-1
Arsenic (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Arsenic (inorganic compounds as As)	OSHA 1006	0.01 mg/m³	480	2000	4	ICP-MS	**F/CST** 225-508 *or* **F/CST** 225-3-01 **C/HLD** 225-1
Arsenic trioxide as As	NIOSH 7901	– / 2 mg/m³ (15 min)	– / 30	– / 2000	– / 15	AAS-GF	**FLT** 225-9001 **C/HLD** 225-1 **CST** 225-2LF
Arsenic, inorganic (volatile compounds as As)	OSHA 1006	0.01 mg/m³	480	2000	4	ICP-MS	**F/CST** 225-508 *or* **F/CST** 225-3-01 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Arsenic, organo	NIOSH 5022		50–100	1000–3000	8	IC-AA	**F/CST** 225-1713 **C/HLD** 225-1 **C/HLD** 225-2LF
Arsine	NIOSH 6001	2 µg/m³, C (15 min)	0.1–10 / 3	20 / 200	8 / 15	AAS-GF	**ST** 226-01-50_
Arylam	*see carbaryl*						
Asbestos	OSHA ID 160	0.1 fbr/cc / 1 fbr/cc EL	25–1200 / 25–1200	500–2500 / 500–2500	varies / varies	PCM	**FLT/CL** 225-321 *or* **FLT/CL** 225-326 *or* **FLT/CL** 225-321A *or* **FLT/CL** 225-327
Asbestos ([bulk] by PLM)	NIOSH 9002	1 % (bulk)	bulk			PLM	
Asbestos (by TEM)	NIOSH 7402	0.1 fbr/cc/400 L	960	2000	8	TEM	**FLT/CL** 225-327
Asbestos (chrysotile)	NIOSH 9000		bulk			XRD	
Asbestos (structure number concentrations)	ASTM D 5755		varies	2000	2 min (minimum)	TEM	**MVC** 225-322
Asbestos fibers	NIOSH 7400	0.1 fbr/cc/400 L	varies	varies	varies	PCM	**FLT/CL** 225-321 *or* **FLT/CL** 225-326 *or* **FLT/CL** 225-321A *or* **FLT/CL** 225-327
Aspartame	NIOSH 5031		1–3	1000–3000	20 mins–7 hrs	HPLC-UV	**FLT** 225-1715 **C/HLD** 225-1
Asphalt fume (benzene-soluble & total particulate)	NIOSH 5042	– / 5 mg/m³ (15 min) (C)	28–400 / 60	1000 / 4000	6 / 15	GR	**FLT** 225-1713 **C/HLD** 225-1
Asphalt fume particulate	ASTM D 6494		960	2000	8	GR	**F/CST** 225-1713 **C/HLD** 225-1
Asphalt fumes (petroleum)	OSHA 58		960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-709 **C/HLD** 225-1
Atrazine	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Atrazine	NIOSH 5602	5	12–480	200–1000	8	GC-ECD	**ST** 226-58 **TH** 224-29V
Azelaic acid	NIOSH 5019		200–1000	1000–3000	8	GC-FID	**F/CST** 225-803 **C/HLD** 225-1
Azinphos-methyl	OSHA PV2087	0.2 mg/m³	480	1000	8	GC-FPD	**ST** 226-30-16 **TH** 224-29V
Azinphos-methyl (Organophosphorus Pesticides)	NIOSH 5600	0.2 mg/m³	12–240	200–1000	4	GC-FPD	**ST** 226-58

B

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Bacteria	NIOSH 0800		varies	28 300	varies	varies	**BI** 225-9611
Bacteria (by GC-FAME)	NIOSH 0801		50–300	28 300	varies	GC-FID	**BI** 225-9611
Bacteria (in air)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A ◊136
Barium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		3–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Barium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.5 mg/m³	50–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Barium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–100 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Barium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Barium (insoluble compounds)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Barium (soluble compounds)	NIOSH 7056	0.5 mg/m³	960	2000	8	AA	**F/CST** 225-3-01 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Barium (soluble compounds)	OSHA ID 121	0.5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Barium chloride (barium, soluble compounds)	NIOSH 7056	0.5 mg/m³	960	2000	8	AA	**F/CST** 225-3-01 **C/HLD** 225-1
Barium sulfate (total dust)	OSHA ID 121	15 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Baygon (propoxur)	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Baygon (propoxur)	OSHA PV2007		48	100	8	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Bendiocarb	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Bendiocarb (Ficam)	OSHA PV2008		240	1000	4	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Benomyl (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Benomyl (respirable dust)	OSHA PV2107	5 mg/m³	varies	varies	varies	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Benomyl (total dust)	OSHA PV2107	15 mg/m³	60	1000	1	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Bentonite	*see Particulates Not Otherwise Regulated, total and respirable*						
Benz(a)anthracene	OSHA In House File		960	2000		HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Benz[a]anthracene (1,2-benzanthracene; 2,3-benzphenanthrene; tetraphene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Benz(a)anthracene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Benz(a)anthracene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benz(a)anthracene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
Benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Benzene	Internal			16.0 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Benzene	Internal			0.78 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *with* **RR** 690-300
Benzene	Internal			16.0 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Benzene	OSHA 1005	1 / 5			8 / 15	GC-FID	**PS** 575-002
Benzene	OSHA 1005	1 / 5	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-01-50_
Benzene	OSHA 1005	1 / 5	12 / 0.5	50 / 50	240 min / 10	GC-FID	**ST** 226-01-50_
Benzene (by portable GC)	NIOSH 3700	0.1 / 1 (15 min)	varies	20–5000	varies	P GC-PID	**SB** 232 Series
Benzene (Hydrocarbons, Aromatic)	NIOSH 1501	0.1 / 1	5–30 / 5–30	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
alpha-Benzene hexachloride	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
beta-Benzene hexachloride	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
gamma-Benzene hexachloride	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Benzene-soluble & total particulate (asphalt fume)	NIOSH 5042	– / 5 mg/m³ (15 min) (C)	360 / 60	1000 / 4000	6 / 15	GR	**FLT** 225-17-33 **CST** 225-2LF **SP** 225-27
Benzene-soluble particulate matter	ASTM D 4600		960	2000	8	GR	**FLT** 225-7 **CST** 225-2LF **SP** 225-27 **C/HLD** 225-1
Benzidine	NIOSH 5509	LFC	96	200	8	HPLC-UV	**FLT** 225-16 **CST** 225-32
Benzidine	OSHA 65		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Benzidine dyes (dyes, benzidine)	NIOSH 5013	LFC	150 (@0.1 mg/m³)– 500	1000–3000 / varies	8	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Benzidine-based dyes	OSHA 65		100 / 15	1000 / 1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Benzo[a]pyrene (3,4-benzopyrene; 6,7-benzopyrene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Benzo(a)pyrene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515	0.1 mg/m³	480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(a)pyrene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **PEM** 761-200B **FLT** 225-1808 **FLT** 225-1709
Benzo(a)pyrene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo[b]fluoranthene (3,4-benzfluoranthene; 2,3-benzofluoranthene; benz[e]acephenanthrylene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Benzo(b)fluoranthene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **PEM** 761-203B **FLT** 225-1808 **FLT** 225-1709
Benzo(b)fluoranthene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(b)fluoranthene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(e)pyrene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(e)pyrene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Benzo(e)pyrene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo[g,h,i] perylene (1,12-benzoperylene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Benzo(g,h,i)perylene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Benzo(g,h,i)perylene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(g,h,i)perylene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Benzo[k]fluoranthene (benzofluoranthene; 2,3,1′,8′-binaphthylene; dibenzo[bjk]fluorene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Benzo(k)fluoranthene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzo(k)fluoranthene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzoalphapyrene	OSHA 58	0.2 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Benzophenone	NON 39		480	1000	8	GC-FID	**ST** 226-56
Benzophenone	OSHA PV2130	0.5 mg/m³	48	200	4	GC-FID	**ST** 226-110
Benzothiazole in asphalt fume	NIOSH 2550		480	1000	8	GC-SCD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Benzoyl peroxide	NIOSH 5009	5 mg/m³	90	1500	1	HPLC-UV	**F/CST** 225-3-01 **C/HLD** 225-1
Benzyl acetate	OSHA PV2124		10	100	100 min	GC-FID	**ST** 226-73
Benzyl alcohol	OSHA PV2009		24	100	4	GC-FID	**ST** 226-95
Benzyl chloride (hydrocarbons, halogenated)	NIOSH 1003	– / 1	– / 10	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
Beryllium & compounds	OSHA ID 125G	0.2 µg/m³ / 2.0 µg/m³	480 / 60	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Beryllium & compounds (as Be)	NIOSH 7102	– / 0.5 µg/m³	960	2000	8	AA-GF	**F/CST** 225-3-01 **C/HLD** 225-1
Beryllium & compounds (as Be)	OSHA 1023	0.2 µg/m³ / 2.0 µg/m³	480 / 30	2000 / 2000	4 / 15	ICP-AES	**FLT** 225-5 **SM TB** 225-24 **CST** 225-2LF
Beryllium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.0005 mg/m³ / 0.005 mg/m³	10–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Beryllium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.0005 mg/m³	1250–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Beryllium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		35–25 000 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Beryllium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.0005 mg/m³	1250–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Beryllium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Beryllium (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	0.2 µg/m³ / 2.0 µg/m³	480 / 10	2000 / 2000	4 / 5	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Beryllium (in air by portable fluorometry)	NIOSH 7704	2 mg/m³ / 5 mg/m³ (C)	240–2000	1000–4000		P FLUOR UV/VIS	**F/CST** 225-3-01 *or* **F/CST** 225-3100 **C/HLD** 225-1
BHC (alpha-, beta-, gamma-)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Bioaerosol sampling	NIOSH 0800		varies	28 300	varies	varies	**BI** 225-9611
Bioaerosols			15–150	15 000	1–10 min	varies	**STC** 225-9820
Bioaerosols	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A
Biphenyl (diphenyl)	NIOSH 2530	0.2	10	20(50)	8(3.3)	GC-FID	**ST** 226-35-01
4,4′-Bipyridine (vapor & aerosol)	NON 26		96 / 2	200 / 200	8 / 10	HPLC	**ST** 226-30-05 **C/HLD** 225-1 **F/CST** 225-706

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Bismuth	OSHA ID 121		480–960	2000	4–8	AAS/AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Bismuth (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–10000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Bismuth telluride, Se-doped	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Bismuth telluride, undoped (respirable dust)	OSHA ID 121	5 mg/m³	varies	varies	varies	GR & AA or GR & AES	**CYC** 225-105 **F/CST** 225-803 **C/HLD** 225-1
Bisphenol A	OSHA 1018		240	1000	240 (min)	HPLC-UV/ PDA	**F/CST** 225-709 **C/HLD** 225-1
Borates tetrasodium salts (anhydrous, decahydrate & pentahydrate)	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Boron (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–3300	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Boron carbide	NIOSH 7506		600	2500	4	XRD	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Boron oxide (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Boron oxide (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Bromine	NIOSH 6011	0.1 / 0.3	240 / 15	1000 / 1000	4 / 15	IC	**CF/CST** 225-9006 **C/HLD** 225-1
Bromine	OSHA ID 108	0.1	120 / 7.5	500 / 500	4 / 15	IC	**IMP** 225-36-2 **IT** 225-22
Bromoethane (ethyl bromide)	NIOSH 1011		4	20(50)	3.3(1.3)	GC-FID	**ST** 226-01-50_
Bromoform (hydrocarbons, halogenated)	NIOSH 1003	0.5 (skin)	10	10–200	varies	GC-FID	**ST** 226-01-50_
1-Bromopropane	Internal			14.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
1-Bromopropane	Internal			14.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1-Bromopropane	NIOSH 1025		0.1–12	10–200	varies	GC-FID	**ST** 226-01-50_
1-Bromopropane	OSHA 1017		12	50	240 (min)	GC-FID	**ST** 226-01-50_
1-Bromopropane	OSHA PV2061		12	100	2	GC-FID	**ST** 226-01-50_
2-Bromopropane	NIOSH 1025		0.1–12	10–200	varies	GC-FID	**ST** 226-01-50_
2-Bromopropane	OSHA 1017		12	50	240 (min)	GC-FID	**ST** 226-01-50_
2-Bromopropane	OSHA PV2062		12	100	2	GC-FID	**ST** 226-01-50_
Bromotrifluoromethane (trifluorobromomethane)	NIOSH 1017	1000	0.1(@1000 ppm)–1 L	10–50	2–100 min	GC-FID	**ST** 226-09-50_ **ST** 226-01-50_
Bromoxynil	NIOSH 5010		240	1000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1
Bromoxynil octanoate	NIOSH 5010		240	1000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1
BTEX (hydrocarbons, aromatic. See benzene, toluene, ethylbenzene, and xylene)	NIOSH 1501	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
1,3-Butadiene	NIOSH 1024	LFC	10	20	8	GC-FID	**ST** 226-37
1,3-Butadiene	OSHA 56	1 / 5	3	50	1	GC-FID	**ST** 226-73
Butane	OSHA PV2010		3	50	1	GC-FID	**ST** ask Analyt-MTC

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
1-Butanethiol (butyl mercaptan)	NIOSH 2525	– / 0.5	1	50	15	GC-FPD	**ST** 226-109
n-Butanol (alcohols combined)	NIOSH 1405	50 (skin)	2–10	10–200	varies	GC-FID	**ST** 226-01-50_
2-Butanone	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Butanone	Internal			16.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
2-Butanone	Internal			16.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
2-Butanone	OSHA 1004	200	12	50	4	GC-FID	**ST** 575-002
2-Butanone (methyl ethyl ketone)	NIOSH 2500	200 / 300	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-81A
2-Butanone (methyl ethyl ketone)	OSHA 1004	200		16.88	8	GC-FID	**PS** 575-002
2-Butoxyethanol (alcohols IV)	NIOSH 1403	5 (skin)	2–10	10–50	varies	GC-FID	**ST** 226-01-50_
2-Butoxyethanol (butyl CELLOSOLVE solvent)	OSHA 83	50	48	100	8	GC-FID	**ST** 226-01-50_
2-Butoxyethanol acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Butoxyethanol acetate (butyl CELLOSOLVE acetate)	OSHA 83		48	100	8	GC-FID	**ST** 226-01-50_
n-Butyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Butyl acetate	Internal			12.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
n-Butyl acetate	Internal			12.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Butyl acetate	OSHA 1009	150		13.07 / 13.07	8 / 15	GC-FID	**PS** 575-002
n-Butyl acetate	OSHA 1009	150	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-01-50_
sec-Butyl acetate	OSHA 1009	200		12.74 / 12.74	8 / 15	GC-FID	**PS** 575-002
sec-Butyl acetate	OSHA 1009	200	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-01-50_
t-Butyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
t-Butyl acetate	OSHA 1009	200		13.09 / 13.09	8 / 15	GC-FID	**PS** 575-002
t-Butyl acetate	OSHA 1009	200	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-01-50_
n-Butyl acetate (Esters I)	NIOSH 1450	150 / 200	1–10 / 1–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
sec-Butyl acetate (Esters I)	NIOSH 1450	200	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
t-Butyl acetate (Esters I)	NIOSH 1450	200	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Butyl acrylate	Internal			11.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Butyl acrylate	Internal			11.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Butyl acrylate	OSHA PV2011		12	50	4	GC-FID	**ST** 226-73
n-Butyl acrylate	NON 54	5 / 15	10 / 3	20 / 200	8 / 15	GC-FID	**ST** 226-81A
n-Butyl alcohol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Butyl alcohol	OSHA 5001	200	12	4		GC-FID	**ST** 226-82
sec-Butyl alcohol	OSHA 5001	200	12	4		GC-FID	**ST** 226-82
n-Butyl alcohol (alcohols combined)	NIOSH 1405	50 (skin)	2–10	10–200	varies	GC-FID	**ST** 226-01-50_
sec-Butyl alcohol (alcohols combined)	NIOSH 1405	100 / 150	2–10 / 2–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
t-Butyl alcohol (Alcohols I)	NIOSH 1400	100 / 150	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
n-Butyl alcohol (alcohols II)	NIOSH 1401	– / 50	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
sec-Butyl alcohol (alcohols II)	NIOSH 1401	100 / 150	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Butyl butyrate	OSHA PV2090		10	200	50 min	GC-FID	**ST** 226-01-50_
Butyl carbitol (diethylene glycol monobutyl ether)	OSHA PV2095		10	200	50 min	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Butyl carbitol acetate	OSHA PV2095		10	200	50 min	GC-FID	**ST** 226-01-50_
Butyl CELLOSOLVE acetate (see 2-butoxyethanol acetate)	OSHA 83						
Butyl CELLOSOLVE solvent (see 2-butoxyethanol)	OSHA 83						
t-Butyl chromate (as CrO_3)	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	– / 15	IC-UV	**F/CST** 225-802 **C/HLD** 225-1
t-Butyl ethyl ether (ethyl tert-butyl ether)	Internal			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 **PS** 690-104
t-Butyl ethyl ether (ethyl tert-butyl ether)	Internal			13.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Butyl glycidyl ether	NIOSH 1616	– / 5.6 (15 min)	– / 3	– / 200	– / 15	GC-FID	**ST** 226-01-50_
n-Butyl lactate	OSHA PV2080		10	200	50 min	GC-FID	**ST** 226-01-50_
n-Butyl mercaptan	NIOSH 2525	– / 0.5	– / 1	– / 50	– / 15	GC-FPD	**ST** 226-109
n-Butyl mercaptan (mercaptans)	NIOSH 2542	– / 0.5 (15 min)	48 / 12	100 / 200	8 / 60	GC-FPD	**CF/CST** 225-9007 **C/HLD** 225-1
t-Butyl methyl ether (MTBE)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
t-Butyl methyl ether (MTBE)	Internal			13.6 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Butyl ziram	OSHA PV2065		180	1000	3	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
n-Butylamine	NIOSH 2012	– / 5	– / 15	– / 1000	– / 15	GC-FID	**ST** 226-53
Butylated hydroxytoluene	OSHA PV2108		100	1000	100 min	GC-FID	**ST** 226-57
1,3-Butylene glycol (glycols)	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
o-sec-Butylphenol	OSHA PV2128		20	200	1.6	HPLC-UV	**ST** 226-95
p-tert-Butylphenol	OSHA PV2085		20	200	100 min	GC-FID	**ST** 226-95
Butyltin trichloride	OSHA ID 217SG		240	1000	4	AA-GF	**ST** 226-30-16
p-tert-Butyltoluene	Internal			10.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
p-tert-Butyltoluene	Internal			10.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
p-tert-Butyltoluene (Hydrocarbons, Aromatic)	NIOSH 1501	10 / 20	1–29 / 1–29	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Butyraldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ⍰ *or* **ST** 226-119
Butyraldehyde (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Cadmium & compounds (as Cd)	NIOSH 7048	LFC	480 / 30	1000 / 2000	8 / 15	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Cadmium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	LFC	3–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Cadmium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	LFC	13–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Cadmium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		3–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Cadmium (Elements by ICP $HNO_3/HClO_4$ Ashing)	NIOSH 7300	LFC	13–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Cadmium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Cadmium dust (as Cd)	OSHA ID 121	0.2 mg/m³ / 0.5 mg/m³	960 / 30	2000 / 2000	8 / 15	AA	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Cadmium	OSHA 1006	0.2 mg/m³ / 0.5 mg/m³	480	2000	4	ICP-MS	**F/CST** 225-3-01 **C/HLD** 225-1
Cadmium	OSHA 5003	0.2 mg/m³ / 0.5 mg/m³	480	2000	4	ICP-MS	**F/CST** 225-3-01 **C/HLD** 225-1
Cadmium	OSHA ID125G	0.1 mg/m³ (fume) 0.2 mg/m³ (dust) / 0.3 mg/m³ (fume) 0.6 mg/m³ (dust)	480 / 30	2000 / 2000	4 / 15	ICP	**F/CST** 225-3-01 **C/HLD** 225-1
Cadmium dust (as Cd)	OSHA ID 206	0.2 mg/m³ / 0.5 mg/m³	960 / 30	2000 / 2000	8 / 15	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Cadmium fume (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	0.1 mg/m³ / 0.3 mg/m³ (C)	480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium & compounds (as Ca)	NIOSH 7020	varies	240	1000	4	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Calcium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	varies	5–200	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Calcium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		2–10000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium (Elements by ICP $HNO_3/HClO_4$ Ashing)	NIOSH 7300	varies	5–200	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium (see specific compounds)	NIOSH 7020	varies	varies	varies	varies	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium carbonate	OSHA ID 121	15 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Calcium carbonate (calcium)	NIOSH 7020	2 mg/m³	240	1000	4	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium carbonate (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Calcium carbonate (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Calcium carbonate	*see Particulates Not Otherwise Regulated, total and respirable*						
Calcium cyanamide	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Calcium hydroxide	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Calcium hydroxide (calcium)	NIOSH 7020	2 mg/m³	240	1000	4	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium hydroxide	*see Particulates Not Otherwise Regulated, total and respirable*						

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Calcium oxide	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Calcium oxide (calcium)	NIOSH 7020	2 mg/m³	240	1000	4	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium oxide (Elements by ICP HNO_3 Digestion)	NIOSH 7303	2 mg/m³	3–10000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Calcium silicate (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Calcium silicate (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Calcium sulfate (Particulates Not Otherwise Regulated, total and respirable)							
Camphor (Ketones II)	NIOSH 2553	2	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Camphor (Ketones II)	NIOSH 1301	2	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Caprolactam (dust and vapor)	OSHA PV2012	5 mg/m³	100	1000	100 min	HPLC-UV	**ST** 226-57 **TH** 224-29V
Capsaicin	NIOSH 5041		480 / 15	1000 / 1000	8 / 15	HPLC-FD	**FLT** 225-16 **CST** 225-32
Captan	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Captan	OSHA PV2093		60	1000	1	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Captan (Organonitrogen Pesticides)	NIOSH 5601	5 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Carbaryl	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Carbaryl (Organonitrogen Pesticides)	NIOSH 5601	5 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Carbaryl (Sevin)	NIOSH 5006	5 mg/m³	240	1000	4	VAS	**F/CST** 225-706 **C/HLD** 225-1
Carbaryl (Sevin)	OSHA 63	5 mg/m³	60	1000	1	HPLC-UV	**ST** 226-30-16 **TH** 224-29V
Carbendazim (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Carbitol	OSHA PV2013		10	200	50 min	GC-FID	**ST** 226-01-50_
Carbitol acetate	OSHA PV2013		10	200	50 min	GC-FID	**ST** 226-01-50_
Carbofuran	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Carbofuran (Organonitrogen Pesticides)	NIOSH 5601	0.1 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Carbon black	NIOSH 5000	3.5 mg/m³	360	1500	4	GR	**FLT** 225-5-37-P **SCN** 225-26 **CST** 225-3LF **C/HLD** 225-1
Carbon black	OSHA ID 196	3.5 mg/m³	960	2000	8	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Carbon dioxide	OSHA ID 172	5000 / 30000	2–5 / 2–5	10–50 / 300	4–8 / 15	GC-TCD	**SB** 253 Series *or* **SB** 263 Series
Carbon dioxide (by portable GC)	NIOSH 6603	5000 / 30000	varies / varies	20–100 / 20–100	varies / varies	P GC-TCD	**SB** 232 Series
Carbon disulfide	NIOSH 1600	1 / 10	10 / 3	20(50) / 200	8(3.3) / 15	GC-FPD	**ST** 226-01-50_ **DRT** 226-44

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Carbon monoxide	OSHA ID 210	50	2–5 / 2–5	10–50 / 1000	varies / varies	GC-DID	**SB** 252 Series *or* **SB** 253 Series *or* **SB** 262 Series *or* **SB** 263 Series
Carbon tetrachloride	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Carbon tetrachloride	Internal			0.59 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *with* **RR** 690-300
Carbon tetrachloride	Internal			14.1 mL/min	8 hrs–7 days	SE, GC	**PS** 690-105
Carbon tetrachloride (hydrocarbons, halogenated)	NIOSH 1003	– / 2 (1 hrs)	– / 15	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
Carbon, activated (Particulates Not Otherwise Regulated, total)							
3-Carene (terpenes)	NIOSH 1552		24	50	8	GC-FID	**ST** 226-01-50_
Catechol (pyrocatechol)	OSHA PV2014		100	1000	100 min	HPLC-UV	**ST** 226-57
Cell fragments (bioaerosols)			– / 15–150	– / 15000	– / 1–10 min	varies	**STC** 225-9820
CELLOSOLVE acetate	*see 2-ethoxyethyl acetate*						
CELLOSOLVE solvent (see 2-ethoxyethanol) (alcohols IV)	NIOSH 1403						
Cellulose (paper fiber) (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Cellulose (paper fiber) (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Cellulose	*see Particulates Not Otherwise Regulated, total and respirable*						
Cellulose insulation	NIOSH 7404		varies	1000	varies	SEM	**FLT/CL** 225-1604
Cerium	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chlordane	NIOSH 5510	0.5 mg/m³	150	1000	2.5	GC-ECD	**ST** 226-107 **CST** 225-2LF **C/HLD** 225-1 **FLT** 225-5 **SCN** 225-26
Chlordane	OSHA 67	0.5 mg/m³	480	1000	8	GC-ECD	**ST** 226-30-16 **TH** 224-29V
Chlordane (non-occupational exposure)	ASTM D 4947		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Chlordane (technical)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Chlorinated & organonitrogen herbicides	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
Chlorinated & organonitrogen herbicides (hand wash)	NIOSH 9200					GC-ECD	Ask Analyt-MTC
Chlorinated camphene (toxaphene)	NIOSH 5039	LFC	30 / 15	1000 / 1000	0.5 / 15	GC-ECD	**F/CST** 225-3-01 **C/HLD** 225-1
Chlorinated diphenyl ether (chlorinated diphenyl oxide)	NIOSH 5025	0.5 mg/m³	180	1000	3	GC-ECD	**F/CST** 225-3-01 **C/HLD** 225-1
Chlorinated diphenyl oxide	NIOSH 5025	0.5 mg/m³	90	1000	1.5	GC-ECD	**F/CST** 225-3-01 **C/HLD** 225-1
Chlorinated hydrocarbons (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Chlorinated terphenyl (60 % chlorine)	NIOSH 5014		720	1500	8	GC-ECD	**F/CST** 225-706 **C/HLD** 225-1
Chlorine	NIOSH 6011	0.5 / 1	90 / 15	1000 / 1000	1.5 / 15	IC	**CF/CST** 225-9006 **C/HLD** 225-1
Chlorine	OSHA ID 101	– / 1 (C)	240 / 15	1000 / 1000	4 / 15	ISE	**IMP** 225-36-2 **IT** 225-22

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Chlorine (prefiltered)	OSHA ID 101	– / 1 (C)	240 / 15	1000 / 1000	4 / 15	ISE	**IMP** 225-36-2 **CST** 225-3-23 **FLT** 225-17-21 **IT** 225-22 **SP** 225-2901
Chlorine dioxide	OSHA ID 202	0.1	120 / 7.5	500 / 500	4 / 15	IC-CD	**IMP** 225-36-2 **IT** 225-22
1-Chloro-1-nitropropane	NIOSH S211	20	12	200		GC-FID	**ST** ask Analyt-MTC
5-Chloro-2-methyl-4-isothiazolin-3-one (Kathon 886)	NON 55	0.75 mg/m³ / 0.23 mg/m³	50 / 7.5	200 / 500	4 / 15	HPLC-UV	**ST** 226-99
1-Chloro-4-(trifluoromethyl)benzene	NIOSH 1026		0.1–10.0	10–200	8	GC-FID	**ST** 226-01-50_
Chloroacetaldehyde	NIOSH 2015	– / 1	– / 3	– / 200	– / 15	GC-ECD	**ST** 226-15GWS
Chloroacetaldehyde	OSHA 76	– / 1 (C)	– / 2.5	– / 500	– / 5	GC-ECD	**ST** 226-15GWS
Chloroacetic acid	NIOSH 2008		48	100	8	IC-CD	**ST** 226-47-01
p-Chloroaniline	OSHA PV2109		6	100	1	HPLC-UV	**ST** 226-10
Chlorobenzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Chlorobenzene	Internal			14.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Chlorobenzene	Internal			14.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Chlorobenzene (monochlorobenzene) (hydrocarbons, halogenated)	NIOSH 1003		10	10–200	varies	GC-FID	**ST** 226-01-50_
4-Chlorobenzotrifluoride	NIOSH 1026		0.1–10.0	10–200	varies	GC-FID	**ST** 226-01-50_
p-Chlorobenzotrifluoride	NIOSH 1026		0.1–10.0	10–200	varies	GC-FID	**ST** 226-01-50_
Chlorobiphenyl	NIOSH 5503	0.001 mg/m³ (10 hrs)	48	100(200)	8(4)	GC-ECD	**FLT** 225-16 **ST** 226-39 **CST** 225-32
Chlorobromomethane (hydrocarbons, halogenated)	NIOSH 1003	200	60	10–200	8	GC-FID	**ST** 226-01-50_
Chlorodiphenyl (42 % Cl)	OSHA PV2089	– / 1	60	1000	1	GC-ECD	**ST** 226-30-16 **TH** 224-29V
Chlorodiphenyl (42 % Cl) (see polychlorinated biphenyls)	NIOSH 5503						
Chlorodiphenyl (54 % Cl)	OSHA PV2088	– / 0.5	60	1000	1	GC-ECD	**ST** 226-30-16 **TH** 224-29V
Chlorodiphenyl (54 % Cl) (see polychlorinated biphenyls)	NIOSH 5503						
Chloroethane (ethyl chloride)	NIOSH 2519		3	50	1	GC-FID	**ST** 226-09-50_
2-Chloroethanol (ethylene chlorohydrin)	NIOSH 2513	– / 1	10	20(50)	8(3.3)	GC-FID	**ST** 226-81A
Chloroform	Internal			13.0 mL/min	8 hrs–7 days	SE, GC	**PS** 690-105
Chloroform (trichloromethane)	OSHA 05	– / 50 (C)	10	200	50 min	GC-FID	**ST** 226-01-50_
Chloroform (trichloromethane) (hydrocarbons, halogenated)	NIOSH 1003	– / 2	– / 15	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
bis-Chloromethyl ether	OSHA 10		50	500	100 min	GC-ECD	**IMP** 225-36-2 **IT** 225-22
Chloromethyl methyl ether	NON 29		2.4 / 0.3	10 / 20	4 / 15	GC-ECD	**ST** ask Analyt-MTC
Chloromethyl methyl ether	OSHA 10		50	500	100 min	GC-ECD	**IMP** 225-36-2 **IT** 225-22
4-Chloronitrobenzene (nitrobenzenes)	NIOSH 2005	0.1 ppm	96	200	8	GC-FID	**ST** 226-10
p-Chlorophenol	NIOSH 2014		24	50	8	HPLC-UV	**ST** 226-10
Chloropicrin	NON 51	0.1	144	100	24	GC-MSD	**ST** 226-175
Chloropicrin	OSHA PV2103	0.1	3	200	15 min	GC-ECD	**ST** 226-93
beta-Chloroprene	NIOSH 1002	– / 1 (15 min)	– / 1.5	– / 100	– / 15	GC-FID	**ST** 226-01-50_
beta-Chloroprene	OSHA 112	25	6	50	2	GC-ECD	**ST** 226-111A

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Chlorothalonil	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Chlorotoluron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Chlorpropham (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16 **TH** 224-29V
Chlorpyrifos (Dursban)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Chlorpyrifos (Dursban)	OSHA 62		480	1000	8	GC-FPD	**ST** 226-30-16
Chlorpyrifos (Organophosphorus Pesticides)	NIOSH 5600	0.2 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Chromic acid & chromates (as CrO_3)	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8 / 15	IC-UV	**F/CST** 225-802 Ω **C/HLD** 225-1
Chromic acid & chromates (chromium hexavalent)	NIOSH 7600	1 µg/m³ (10 hrs)	240	1000	4	VAS	**F/CST** 225-803 **C/HLD** 225-1
Chromic acid & chromates (chromium hexavalent)	NIOSH 7604	1 µg/m³ (10 hrs)	960	2000	8	IC-CD	**F/CST** 225-803 **C/HLD** 225-1
Chromium & compounds (as Cr)	NIOSH 7024	0.5 mg/m³	10–1000	1000–3000	varies	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Chromium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.5 mg/m³	1–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Chromium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.5 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.5 mg/m³	8–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Chromium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.5 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Chromium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Chromium acetate	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium carbonate	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium metal & insoluble compounds	OSHA ID 121	1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium metal & insoluble compounds	OSHA ID 125G	1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Chromium phosphate	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium soluble salts (except hexavalent)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Chromium trioxide (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 **C/HLD** 225-1
Chromium, hexavalent	ASTM D 6832		varies	1000–5000	varies	IC	**F/CST** 225-802 *or* **F/CST** 225-1713 *or* **F/CST** 225-709 *or* **F/CST** 225-401
Chromium, hexavalent	NIOSH 7600	1 µg/m³ (10 hrs)	240	1000	4	VAS	**F/CST** 225-802 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Chromium, hexavalent	NIOSH 7604	1 µg/m³ (10 hrs)	240	1000	4	IC-CD	**F/CST** 225-802 **C/HLD** 225-1
Chromium, hexavalent	NIOSH 7605	0.001 mg/m³ (10 hrs)	1–400	1000–4000	varies	IC-PCD-UV	**F/CST** 225-802 **C/HLD** 225-1
Chromium, hexavalent	NIOSH 7703	0.001 mg/m³ (10 hrs)	10–1200	1000–4000	varies	P VAS	**F/CST** 225-802 **C/HLD** 225-1
Chromium, hexavalent	OSHA W4001	0.005 mg/m³ (C)				IC-UV	**FLT** 225-5-37 *or* **FLT** 225-1822
Chromium, hexavalent (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 Ω **C/HLD** 225-1
Chromium, hexavalent (in settled dust)	NIOSH 9101		bulk / bulk			CLR or VAS or IC	
Chrysene	OSHA 58	0.2 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Chrysene (1,2-benzophenanthrene; benzo[a] phenanthrene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Chrysene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Chrysene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515	LFC	480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Chrysene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506	LFC	480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Chrysotile (see asbestos fibers)	NIOSH 9000		bulk			XRD	
Chrysotile fibers (see asbestos fibers)	NIOSH 7400						
Coal dust (> 5 % SiO_2) (see silica, respirable crystalline)	OSHA ID 142 (v4)						
Coal tar naphtha (naphthas)	NIOSH 1550	100	3	20	2.5	GC-FID	**ST** 226-01-50_
Coal tar pitch volatiles	OSHA 58	0.2 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Cobalt	OSHA ID 213	0.1 mg/m³	480	2000	6	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Cobalt & compounds (as Co)	NIOSH 7027	0.05 mg/m³	960	2000	8	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Cobalt (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.05 mg/m³ (dust, fume)	1–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Cobalt (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.5 mg/m³ (dust, fume)	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Cobalt (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.5 mg/m³ (dust, fume)	3–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Cobalt (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.05 mg/m³ (dust, fume)	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Cobalt (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Cobalt acetate	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Cobalt carbonyl	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Cobalt hydrocarbonyl	OSHA ID 121	0.1 mg/m³ (as Co)	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Cobalt metal, dust & fume	OSHA ID 125G	0.1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Cobalt metal, dust & fume (as Co)	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Coke oven emissions	OSHA 58	0.15 mg/m³	960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Command (dimethazone)	OSHA PV2066		60	1000	1	GC-ECD	**ST** 226-30-16 **TH** 224-29V
Copper (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	1 mg/m³ (dust) 0.1 mg/m³ (fume)	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Copper (Elements by ICP HNO_3 Digestion)	NIOSH 7303	1 mg/m³ (dust) 0.1 mg/m³ (fume)	15–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Copper (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	1 mg/m³ (dust) 0.1 mg/m³ (fume)	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Copper (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Copper dust	NIOSH 7029	1 mg/m³	480	1000	8	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Copper dusts & mists	OSHA ID 125G	1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Copper dusts & mists (as Cu)	OSHA ID 121	1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Copper fume	NIOSH 7029	0.1 mg/m³	480	1000	8	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Copper fume	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Copper fume	OSHA ID 125G	0.1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Copper fume (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	0.1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Co-Ral (coumaphos)	OSHA PV2134		480	1000	8	GC-FPD	**ST** 226-30-16 **TH** 224-29V
Corn starch (Particulates Not Otherwise Regulated, respirable)							
Corundum (Al_2O_3)	*see alpha-alumina [total dust]*						
Corundum (emery) (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Corundum (emery) (particulates, total)	NIOSH 0500		120	2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
di-tert-butyl-p-Cresol	OSHA PV2108		100	1000	100 min	GC-FID	**ST** 226-57
Cresol (all isomers)	NIOSH 2546	10 mg/m³	24	100	4	GC-FID	**ST** 226-95
Cresol (all isomers)	OSHA 32	5	24	100	4	HPLC-UV	**ST** 226-95
Cresols	EPA TO-8		< 80 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Cristobalite (see silica, respirable crystalline)	OSHA ID 142 (v4)						
Cristobalite (silica, crystalline [respirable] by XRD)	NIOSH 7500	0.05 mg/m³	400–1000	2500	varies	XRD	**F/CST** 225-803 **C/HLD** 225-1 **CYC** 225-01-02
Cristobalite (silica, crystalline by IR)	NIOSH 7602	0.05 mg/m³	1000	2000–4000	varies	IR	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Crocidolite fibers (see asbestos fibers)	NIOSH 7400						
Crotonaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 *or* **ST** 226-119
Crotonaldehyde	NIOSH 3516	2	48	200	4	DPP	**IMP** 225-36-2 **IT** 225-22
Crotonaldehyde	OSHA 81	2	6	100	1	HPLC-UV	**CF/CST** 225-9019 **C/HLD** 225-1
Crotonaldehyde (Aldehydes, Screening)	NIOSH 2539	2	5	20	4	GC-FID & GC-MS	**ST** 226-118
Crufomate	OSHA PV2015		60	1000	1	GC-FPD	**ST** 226-30-16 **TH** 224-29V
Cryolite (fluorides)	NIOSH 7902	2.5 mg/m³	480	1000	8	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Cumene (isopropyl benzene)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Cumene (isopropyl benzene)	Internal			12.8 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Cumene (isopropyl benzene)	Internal			12.8 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Cumene (isopropyl benzene)	OSHA PV2137	50	24	200	2	GC-FID	**ST** 226-01-50_
Cumene (isopropyl benzene) (Hydrocarbons, Aromatic)	NIOSH 1501	50 (skin)	1–30	10–200	8(3.3)	GC-FID	**ST** 226-01-50_
Cupric carbonate as Cu (Elements by ICP HNO_3/ $HClO_4$ Ashing)	NIOSH 7300		960	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Cyanazine	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
Cyanide (as Cn)	OSHA ID 120	5 mg/m³	120	1000	2	ISE	**F/CST** 225-3-01 **IT** 225-22 **IMP** 225-36-2
Cyanides, aerosol & gas	NIOSH 7904	– / 5 mg/m³ (10 min)	120	500	4	ISE	**FLT** 225-17-32 Δ **IMP** 225-36-2 **C/HLD** 225-1 **CST** 225-2LF **IT** 225-22
Cyanogen	OSHA PV2104		12	200	1	GC-NPD	**ST** 226-117
Cyanuric acid	NIOSH 5030		480	1000	8	HPLC-UV	**F/CST** 225-802 **C/HLD** 225-1
Cyclohexane	Internal			15.6 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Cyclohexane	Internal			15.6 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Cyclohexane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	300	2.5–5	10–200	varies	GC-FID	**ST** 226-01-50_
Cyclohexanol (alcohols combined)	NIOSH 1405	50 (skin)	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Cyclohexanol (alcohols III)	NIOSH 1402	50	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Cyclohexanone	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Cyclohexanone	Internal			15.6 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Cyclohexanone	Internal			15.6 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Cyclohexanone	OSHA 01	50	10	20(50)	8(3.3)	GC-FID	**ST** 226-110
Cyclohexanone (Ketones I)	NIOSH 1300	25	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Cyclohexanone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Cyclohexene (hydrocarbons, BP 36–216 °C)	NIOSH 1500	300	5–7	10–200	varies	GC-FID	**ST** 226-01-50_
Cyclohexylamine	OSHA PV2016		20	200	100 min	GC-FID	**ST** 226-98
Cyclonite (RDX)	OSHA PV2135	1.5 mg/m³	120	1000		HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Cyhexatin	NIOSH 5504	0.1 mg/m³	500	1500		AA-GF	**F/CST** 225-709 **C/HLD** 225-1 **ST** 226-30
Cypermethrin	OSHA PV2063		60	1000	60 min	GC-ECD	**ST** 226-30-16 **TH** 224-29V

D

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
2,4-D (2,4-dichlorophenoxyacetic acid)	NIOSH 5001	10 mg/m³	180	1000	3	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
2,4-D (2-butoxyethyl ester)	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
2,4-D (2-butoxyethyl ester)	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
2,4-D acid	NIOSH 5602	10	480	1000	8	GC-ECD	**ST** 226-58
2,4-D, BE	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
2,4-D, EH	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
2,4-D, ME (2,4-dichlorophenoxyacetic acid)	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
2,4-D esters	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Dacthal	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
DBP (see dibutyl phthalate)	OSHA 104						
p,p-DDE	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
p,p-DDT	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
DDVP (dichlorvos)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Decabromodiphenyl oxide	NIOSH 2559		48–960	2000	varies	HPLC-UV	**FLT** 225-1822 **CST** 225-2LF **SP** 225-27
n-Decane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Decane	Internal			12.2 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
n-Decane	Internal			12.2 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Decane (hydrocarbons, BP 36–216 °C)	NIOSH 1500		2	10–50	varies	GC-FID	**ST** 226-01-50_
DEHP (see di-2-ethylhexyl phthalate)	OSHA 104						
Demeton	NIOSH 5514	0.1 mg/m³	480	1000	8	GC-FPD	**FLT** 225-5 **CST** 225-2LF **C/HLD** 225-1 **SCN** 225-26 **ST** 226-30-05
DEP (see diethyl phthalate)	OSHA 104						
Desflurane	OSHA 106		3	50	1	GC-FID	**ST** 226-81A
Di-(2-ethylhexyl) phthalate (DEHP)	NIOSH 5020		180	1000	3	GC-FID	**F/CST** 225-3-01 **C/HLD** 225-1
Di(ethyleneglycol) ethyl ether acrylate	OSHA PV2132	1 mg/m³	48	200	4	GC-FID	**ST** 226-110

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Diacetone alcohol (alcohols combined)	NIOSH 1405	50	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Diacetone alcohol (alcohols III)	NIOSH 1402	50	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Diacetyl	OSHA 1012	0.005 / 0.025	9 / 3	50 / 200	3 / 15	GC-ECD	**ST** 226-183
Diallyl disulfide	OSHA PV2086		10	20(50)	8(3.3)	GC-FPD	**ST** 226-110
1,2-Diaminoethane	NIOSH 2540		10	100	1.7	HPLC-UV	**ST** 226-30-18
o-Dianisidine	OSHA 71		100 / 15	1000 / 1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
o-Dianisidine dyes (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC-UV	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Diazinon	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Diazinon	OSHA 62		480	1000	8	GC-FPD	**ST** 226-30-16 **TH** 224-29V
Diazinon (Organophosphorus Pesticides)	NIOSH 5600	0.1 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Diazomethane	NIOSH 2515	0.2	10	200	50 min	GC-FID	**ST** 226-23
Dibenz(a,h)anthracene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Dibenz(a,h)anthracene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Dibenz(a,h)anthracene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Dibenz[a,h]anthracene (1,2,5,6-dibenzanthracene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Dibromodifluoromethane (difluorodibromomethane)	NIOSH 1012	100	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
1,2-Dibromoethane (ethylene dibromide)	NIOSH 1008	0.045 / 0.13	24 / 3	50 / 200	8 / 15	GC-ECD	**ST** 226-01-50_
2-Dibutyl aminoethanol (aminoethanol compounds I)	NIOSH 2007	2	10	20(50)	8(3.3)	GC-FID	**ST** 226-10-04
Dibutyl phosphate	NIOSH 5017	1 / 2	240	2000	2	GC-FPD	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Dibutyl phthalate	NIOSH 5020	5 mg/m³	100	1000	100 min	GC-FID	**F/CST** 225-3-01 **C/HLD** 225-1
Dibutyl phthalate (DBP)	OSHA 104	5 mg/m³	240	1000	4	GC-FID	**ST** 226-56
Dibutyltin bis (isooctyl mercaptoacetate) (organotin compounds as Sn)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-709
Dibutyltin dilaurate (as Sn)	OSHA ID 218SG		500	1000	500 min	AA	**F/CST** 225-3-01 **C/HLD** 225-1
Dibutyltin maleate (as Sn)	OSHA ID 224SG		200	1000	200 min	AA-GF	**F/CST** 225-3-01 **C/HLD** 225-1
2,2-Dichloro-1,1,1-trifluoroethane	NON 50		9	50	3	GC-FID	**ST** 226-09-50_
1,1-Dichloro-1-fluoroethane	OSHA 113		1	50	20 min	GC-FID	**ST** ask Analyt-MTC
1,1-Dichloro-1-nitroethane	NIOSH 1601	2	1.5–15	10–1000		GC-FID	**ST** 226-81A
1,2-Dichlorobenzene	Internal			12.5 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 **PS** 690-104
1,2-Dichlorobenzene	Internal			12.5 mL/min	8–24 hrs	SE, GC	**PS** 690-105
m-Dichlorobenzene	NIOSH 1003		– / 3	– / 10–200		GC-FID	**ST** 226-01-50_
o-Dichlorobenzene (hydrocarbons, halogenated)	NIOSH 1003	– / 50	– / 3	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
p-Dichlorobenzene (hydrocarbons, halogenated)	NIOSH 1003	1.7 (LOQ)	3	10–200	varies	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
3,3′-Dichlorobenzidine	OSHA 65		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Dichlorodifluoromethane	NIOSH 1018	1000	3	20	2.5	GC-FID	**ST** 226-01-50_ **ST** 226-09-50_
1,2-Dichloroethane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,2-Dichloroethane	Internal			14.2 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
1,2-Dichloroethane	Internal			14.2 mL/min	1–7 days	SE, GC	**PS** 690-105
1,1-Dichloroethane (Hydrocarbons, Halogenated)	NIOSH 1003	100	10	10–200	varies	GC-FID	**ST** 226-01-50_
Dichloroethyl ether	NIOSH 1004	5 / 10	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
1,2-Dichloroethylene (hydrocarbons, halogenated)	NIOSH 1003	200	3	10–200	varies	GC-FID	**ST** 226-01-50_
Dichlorofluoromethane	NIOSH 2516	10	3	20	2.5	GC-FID	**ST** 226-25
Dichloromethane (methylene chloride)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Dichloromethane (methylene chloride)	Internal			14.7 mL/min	8 hrs–3 days	SE, GC	**PS** 690-105
Dichloromethane (methylene chloride)	Internal			0.54 mL/min	1–7 days	SE, GC	**PS** 690-105 *with* **RR** 690-300
Dichloromethane	*see methylene chloride*						
Dichloromonofluoromethane (dichlorofluoromethane)	NIOSH 2516	10	3	20	2	GC-FID	**ST** 226-09-50_
2,4-Dichlorophenoxyacetic acid (2,4-D)	NIOSH 5001	10 mg/m³	180	1000	3	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
1,2-Dichloropropane (propylene dichloride)	Internal			14.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
1,2-Dichloropropane (propylene dichloride)	Internal			14.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,2-Dichloropropane (propylene dichloride)	NIOSH 1013	LFC	3	20	2.5	GC-ECN	**ST** 226-81A
cis-1,3-Dichloropropene	Internal			13.6 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
cis-1,3-Dichloropropene	Internal			13.6 mL/min	8–24 hrs	SE, GC	**PS** 690-105
trans-1,3-Dichloropropene	Internal			14.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
trans-1,3-Dichloropropene	Internal			14.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
2,2-Dichloropropionic acid	OSHA PV2017		10	200	50 min	HPLC-UV	**ST** 226-10
1,2-Dichlorotetrafluoroethane (dichlorodifluoromethane)	NIOSH 1018	1000	3	20	2.5	GC-FID	**ST** 226-01-50_ **ST** 226-09-50_
Dichlorotrifluoroethane	NON 50		9	50	3	GC-FID	**ST** 226-09-50_
Dichlorvos (DDVP)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Dichlorvos (DDVP)	OSHA 62	1 mg/m³	480	1000	8	GC-FPD	**ST** 226-30-16
Dicloran	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Dicofol	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Dicrotophos	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Dicrotophos (Bidrin)	OSHA PV2099		480	1000	8	GC-FPD	**ST** 226-30-16
Dicrotophos (Organophosphorus Pesticides)	NIOSH 5600	0.25 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Dicyclopentadiene	OSHA PV2098		10	100	100 min	GC-FID	**ST** 226-01-50_
Dieldrin	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Diesel emissions (see elemental carbon)	NIOSH 5040					TOA-FID	
Diesel exhaust particles (see elemental carbon)	NIOSH 5040					TOA-FID	
Diesel particulate matter	ASTM D 6877		varies	1000–4000	varies	EGA-TOS	**DPM** 225-317 *or* **F/CST** 225-401
Diesel particulate matter	MSHA 30CFR57	350 µg/m³ (total carbon)	varies	2000	varies	TOA-FID	**DPM** 225-317 **C/HLD** 225-1 **CYC** 225-105
Diesel particulate matter	MSHA 30CFR57	350 µg/m³ (total carbon)	varies	varies	varies	TOA-FID	**F/CST** 225-401 **C/HLD** 225-1 **CYC** 225-100
Diethanolamine	OSHA PV2018		10	100	100 min	HPLC-UV	**ST** 226-30-18
Diethanolamine (DEA) (Aminoethanol Compounds II)	NIOSH 3509	3	240	1000	4	IC	**IMP** 225-36-1 **IT** 225-22
Diethyl ether (ethyl ether)	NIOSH 1610		0.25–3	10–200	varies	GC-FID	**ST** 226-01-50_
Diethyl ketone (3-pentanone)	OSHA PV2136		10	100	100	GC-FID	**ST** ask Analyt-MTC
Diethyl phthalate (DEP)	OSHA 104		240	1000	4	GC-FID	**ST** 226-56
Diethylamine	OSHA 41	25	10 / 3	200 / 200	50 min / 15	HPLC	**ST** 226-96
Diethylamine (amines, aliphatic)	NIOSH 2010	10 / 25	24 / 3	50 / 200	8 / 15	GC-FID	**ST** 226-10
2-Diethylaminoethanol (aminoethanol compounds I)	NIOSH 2007	10	10	20(50)	8(3.3)	GC-FID	**ST** 226-10-04
Diethylene dioxide	*see dioxane*						
Diethylene ether	*see dioxane*						
Diethylene glycol (glycols)	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Diethylenetriamine	OSHA 60		10	100	100 min	HPLC-UV	**ST** 226-30-18
Difluorodibromomethane	NIOSH 1012	100	6	50	2	GC-FID	**ST** 226-01-50_
Diglycidyl ether of bisphenol A	OSHA 1018		240	1000	240 (min)	HPLC-UV/ PDA	**F/CST** 225-709 **C/HLD** 225-1
Dihexyl phthalate	OSHA PV2076		240	1000	4	GC-FID	**ST** 226-56
Dihydrocapsaicin	NIOSH 5041		480 / 15	1000 / 1000	8 / 15	HPLC-FD	**FLT** 225-16 **CST** 225-32
Diisobutyl ketone	Internal			10.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Diisobutyl ketone	Internal			10.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Diisobutyl ketone (Ketones I)	NIOSH 1300	25	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Diisobutyl ketone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Dimethazone	OSHA PV2066		60	1000	1	GC-ECD	**ST** 226-30-16
Dimethoate	OSHA PV2113		480	1000	8	GC-FPD	**ST** 226-30-16
Dimethoxymethane (methylal)	NIOSH 1611	1000	2	20	1.5	GC-FID	**ST** 226-01-50_
Dimethyl adipate	OSHA PV2019		20	200	100 min	GC-FID	**ST** 226-01-50_
Dimethyl arsenic acid (arsenic, organo-)	NIOSH 5022		960	2000	8	IC-AA	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Dimethyl disulfide	NON 42		12	1000	12 min	GC-FPD	**SB** 253-10 *or* **SB** 263-10 *or* **SB** 231-10
Dimethyl glutarate	OSHA PV2020		20	200	100 min	GC-FID	**ST** 226-01-50_
Dimethyl phthalate (DMP)	OSHA 104	5 mg/m³	240	1000	4	GC-FID	**ST** 226-56
Dimethyl succinate	OSHA PV2021		20	200	100 min	GC-FID	**ST** 226-01-50_
Dimethyl sulfate	NIOSH 2524	0.1 (8 hrs)	12	50	4	GC-ECN	**ST** 226-114
Dimethyl sulfate	OSHA PV2147	1	10	100	100 min	GC-FPD	**ST** 226-115

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Dimethyl sulfide	NON 42		12	1000	12 min	GC-FPD	**SB** 263-10 *or* **SB** 231-10
2,3-Dimethyl-2,3-dinitrobutane	NON 44	0.15 mg/m³ OEL	10	200	50 min	GC-ECD	**ST** 226-35-03
Dimethylacetamide	NIOSH 2004	10	80	1000	8	GC-FID	**ST** 226-10
Dimethylamine	NIOSH 2010	10	24	50	8	GC-FID	**ST** 226-10
Dimethylamine	OSHA 34	10	10	20	8	HPLC	**ST** 226-96
2-Dimethylamino ethanol	NIOSH 2561		10–24	20–100	varies	GC-FID	**ST** 226-94
1-Dimethylamino-2-propanol	NIOSH 2561		10–24	20–100	varies	GC-FID	**ST** 226-94
2,4-Dimethylaminobenzene (Amines, Aromatic)	NIOSH 2002	2	3–20	20–200	15 min–8 hrs	GC-FID or GC-NSD	**ST** 226-10
N,N-Dimethylaniline	OSHA PV2064	5	30	200	2.5	GC-FID	**ST** 226-98
N,N-Dimethylaniline (Amines, Aromatic)	NIOSH 2002	5 / 10	30 / 3	20–1000	8 / 15	GC-FID or GC-NSD	**ST** 226-10
2,5-Dimethylbenzaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
N,N-Dimethylethanolamine	NIOSH 2561		10–24	20–100	varies	GC-FID	**ST** 226-94
N,N-Dimethylformamide	NIOSH 2004	10	24	50	8	GC-FID	**ST** 226-10
N,N-Dimethylformamide	OSHA 66	10	9.6 / 3	20 / 200	8 / 15	GC-NPD	**ST** 226-01-50_
1,1-Dimethylhydrazine	NIOSH 3515	0.06 (120 min)	60	1000	1	VAS	**IMP** 225-36-2 **IT** 225-22
N,N-Dimethyl-p-toluidine (Amines, Aromatic)	NIOSH 2002		Not determined	20–1000	Not determined	GC-FID or GC-NSD	**ST** 226-10
Dimethyltin dichloride	NIOSH 5526	0.1 mg/m³	15–75	250–1000	0.25–5 hrs	GC-FPD	**ST** 226-30-16
Di-n-hexyl phthalate	OSHA PV2076		240	1000	4	GC-FID	**ST** 226-56
Dinitrotoluene (DNT)	OSHA 44	1.5 mg/m³	60	1000	1	GC-TEA	**ST** 226-56
Di-n-octyl phthalate (DNOP)	OSHA 104		240	1000	4	GC-FID	**ST** 226-56
n-Dioctyl phthalate (DNOP)	OSHA 104		240	1000	4	GC-FID	**ST** 226-56
Dioxane (diethylene dioxide)	NIOSH 1602	1 (30 min)	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Dioxin (including, PHDDs, PCDDs, PBDDs)	EPA TO-9A		325–400 m³	200–280 L/min	24 hrs	HRGC-HRMS	**PUF** 226-131 **FLT** 225-1808
Diphenyl	NIOSH 2530	0.2	30	100	5	GC-FID	**ST** 226-35-01
Diphenyl ether	OSHA PV2022	0.2	20	200	100 min	GC-FID	**ST** 226-95
Diphenylamine	OSHA 78		100	1000	100 min	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
Diphenylmethane-4,4′-diisocyanate (4,4-methylene bisphenyl isocyanate) (isocyanates)	NIOSH 5521	50 µg/m³ / 200 µg/m³ (10 min) C	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Dipropyl disulfide	OSHA PV2086		10	20(50)	8(3.3)	GC-FPD	**ST** 226-110
Dipropylene glycol methyl ether	OSHA 101	100	10	100	100 min	GC-FID	**ST** 226-01-50_
Dipropylene glycol methyl ether (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Dipropylene glycol monomethyl ether (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Direct black 38 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Direct blue 6 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Direct blue 8 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Direct brown 95 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Direct red 2 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Direct red 28 (dyes, benzidine)	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
Di-sec-octyl phthalate	*see di-[2-ethylhexyl] phthalate*						
Disulfoton	OSHA PV2105		480	1000	8	GC-FPD	**ST** 226-30-16
Disulfoton (Organophosphorus Pesticides)	NIOSH 5600	0.1 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Diuron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Diuron (Organonitrogen Pesticides)	NIOSH 5601	10 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Divinyl benzene	OSHA 89		12	50	4	GC-FID	**ST** 226-73
DMP (see dimethyl phthalate)	OSHA 104						
DNOP (see di-n-octyl phthalate)	OSHA 104						
DNT (dinitrotoluene)	OSHA 44	1.5 mg/m³	60	1000	1	GC-TEA	**ST** 226-56
n-Dodecane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Dursban (chlorpyrifos) (organophosphorus pesticides)	NIOSH 5600	0.2 mg/m³ / 0.6 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Dust (particulates, total)	NIOSH 0500		133	2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Dust, inorganic			– / 15–150	– / 15000	– / 1–10 min	varies	**STC** 225-9820
Dust, respirable	OSHA PV2121	5.0 mg/m³	varies	varies	varies	GR	**FLT** 225-803 **CYC** 225-105 **C/HLD** 225-1
Dust, respirable (particulates)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Dust, respirable (in workplace atmospheres)	ASTM D 4532		varies	2500	varies	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Dust, total	OSHA PV2121	15 mg/m³	720	1500	8	GR	**FLT** 225-802 **C/HLD** 225-1
Dust, total nuisance (particulates)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Dust, total, particulates not otherwise regulated	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Dyes, benzidine, o-tolidine, o-dianisidine	NIOSH 5013	LFC	150(@0.1 mg/m³)–500	1000–3000	varies	HPLC-UV	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Elemental carbon (diesel exhaust)	MSHA		varies	varies	varies	EGA-TOS	**DPM** 225-317 **CYC** 225-105
Elemental carbon (diesel exhaust)	NIOSH 5040		varies	varies	varies	TOA-FID	**F/CST** 225-401 **C/HLD** 225-1 **CYC** 225-100
Elements by Cellulosic Internal Capsule Sampler (see specific element)	NIOSH 7306	Varies	Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Elements by ICP Aqua Regia ashing (see specific element)	NIOSH 7301	varies	varies	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Elements by ICP HNO_3 digestion (see specific element)	NIOSH 7303	varies	varies	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Elements by ICP HNO_3/$HClO_4$ ashing (see specific element)	NIOSH 7300	varies	varies	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Elements on wipes (see specific element)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Emery (corundum) (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Emery (corundum) (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Endosulfan (thiodan)	OSHA PV2023		60	1000	1	GC-ECD	**ST** 226-30-16
Endotoxins (bacteria in air)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A ◊136
Endrin	NIOSH 5519	0.1 mg/m³	240	1000	4	GC-ECD	**CST** 225-2LF **SCN** 225-26 **C/HLD** 225-1 **FLT** 225-5 **ST** ask Analyt-MTC
Enflurane (ethrane)	OSHA 103		12	50	4	GC-FID	**ST** 226-81A
Enflurane (ethrane)	OSHA 29		10	20	8	GC-FID	**ST** 226-01-50_
Environmental tobacco smoke (nicotine & 3-ethenylpyridine)	NON 49		90–720	1500	1–8	GC-NSD	**ST** 226-170
Environmental tobacco smoke (respirable particles)	ASTM D 5955		varies	varies	varies	GR & HPLC-UV & HPLC-FD	**FLT** 225-17-32 **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Environmental tobacco smoke (solanesol, respirable particles)	ASTM D 6271		150–3600	2500	1–24	HPLC-UV	**FLT** 225-17-32 **CYC** 225-01-02 **CST** 225-3LF **C/HLD** 225-1
Epichlorohydrin	NIOSH 1010	LFC	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
EPN	NIOSH 5012	0.5 mg/m³	480	1000	8	GC-FPD	**F/CST** 225-709 **C/HLD** 225-1
1,2-Epoxypropane	*see propylene oxide*						
tris(2,3-epoxypropyl)isocyanurate	OSHA 1024		180	1000	3	GC-FID	**FLT** 225-7 **SP** 225-27 **CST** 225-2LF **C/HLD** 225-1
Esters I (see specific compounds)	NIOSH 1450	varies	1–10	varies	varies	GC-FID	**ST** 226-01-50_
Estradiol	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Estriol	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Estrone	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
1,2-Ethanediol (ethylene glycol) (glycols)	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
1,2-Ethanediol dinitrate	OSHA 43	– / 0.2 (C)	– / 15	– / 1000	– / 15	HPLC-TEA	**ST** 226-35-03
Ethanol (ethyl alcohol)	OSHA 5001	1000	12	50	4		**ST** 226-82
Ethanol (ethyl alcohol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethanol (ethyl alcohol)	Internal			20.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Ethanolamine	OSHA PV2111	3	10 / 1.5	100 / 100	100 min / 15	HPLC-UV	**ST** 226-30-18
3-Ethenylpyridine	NON 49		90–720	1500	1–8	GC-NSD	**ST** 226-170
3-Ethenylpyridine & nicotine	ASTM D 5075		90–2160	1500	1–24	GC-NPD	**ST** 226-93

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Ethion (Organophosphorus Pesticides)	NIOSH 5600	0.4 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Ethoprop (Organophosphorus Pesticides)	NIOSH 5600		240	1000	4	GC-FPD	**ST** 226-58
2-Ethoxyethanol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Ethoxyethanol (alcohols IV)	NIOSH 1403	0.5 (skin)	1–6	10–50	varies	GC-FID	**ST** 226-01-50_
2-Ethoxyethanol (CELLOSOLVE solvent) (alcohols IV)	NIOSH 1403	0.5 (skin)	1–6	10–50	varies	GC-FID	**ST** 226-01-50_
2-Ethoxyethyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Ethoxyethyl acetate (Esters I)	NIOSH 1450	0.5 (skin)	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Ethrane (enflurane)	OSHA 29		10	100	1.6	GC-FID	**ST** 226-01-50_
Ethyl 2-cyanoacrylate	OSHA 55		12	100	2	HPLC-UV	**ST** 226-98
Ethyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethyl acetate	Internal			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Ethyl acetate	Internal			13.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Ethyl acetate	NIOSH 1457	400	10	20	8	GC-FID	**ST** 226-01-50_
Ethyl acrylate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethyl acrylate	Internal			13.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Ethyl acrylate	Internal			13.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Ethyl acrylate	NON 54	5 / 15	10 / 3	20 / 200	8 / 15	GC-FID	**ST** 226-81A
Ethyl acrylate	OSHA 92	25	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-73
Ethyl acrylate (Esters I)	NIOSH 1450	4 (LOQ)	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Ethyl alcohol (ethanol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethyl alcohol (ethanol)	Internal			20.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Ethyl alcohol (ethanol)	OSHA 5001	1000	12	50	4	GC-FID	**ST** 226-82
Ethyl alcohol (ethanol) (Alcohols I)	NIOSH 1400	1000	1	50	20 min	GC-FID	**ST** 226-01-50_
Ethyl amyl ketone	NIOSH 1301	50	25	200	2	GC-FID	**ST** 226-01-50_
Ethyl benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethyl benzene	Internal			0.41 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
Ethyl benzene	Internal			12.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Ethyl benzene	Internal			12.9 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Ethyl benzene	OSHA 1002	100		13.83	8	GC-FID	**PS** 575-002
Ethyl benzene	OSHA 1002	100	12	50	4	GC-FID	**ST** 226-01-50_
Ethyl benzene (Hydrocarbons, Aromatic)	NIOSH 1501	100 / 125	1–24 / 1–24	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Ethyl bromide (bromoethane)	NIOSH 1011		4	20	3.3	GC-FID	**ST** 226-01-50_
Ethyl butyl ketone (3-heptanone) (Ketones II)	NIOSH 2553	50	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Ethyl butyl ketone (3-heptanone) (Ketones II)	NIOSH 1301	50	24	200	2	GC-FID	**ST** 226-01-50_
Ethyl chloride	NIOSH 2519		3	50	1	GC-FID	**ST** 226-25

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Ethyl ether (ethyl ether)	NIOSH 1610		0.25–3	10–200	varies	GC-FID	**ST** 226-01-50_
Ethyl formate	NIOSH 1452	100	10	20	8	GC-FID	**ST** 226-01-50_
Ethyl lactate	OSHA PV2081		10	200	50 min	GC-FID	**ST** 226-01-50_
Ethyl mercaptan (mercaptans)	NIOSH 2542	– / 0.5 (15 min)	48 / 12	100 / 200	8 / 60	GC-FPD	**CF/CST** 225-9007 **C/HLD** 225-1
Ethyl methacrylate	Internal			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Ethyl methacrylate	Internal			13.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Ethyl methacrylate	NIOSH 2537		1–8	10–50	varies	GC-FID	**ST** 226-30-06
Ethyl methacrylate	OSHA PV2100		10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Ethyl O-(p-nitrophenyl) phenylphosphonothionate (EPN)	NIOSH 5012	0.5 mg/m³	480	1000	8	GC-FPD	**F/CST** 225-709 **C/HLD** 225-1
Ethyl parathion	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Ethyl silicate	NIOSH S-264	100	9	50	3	GC-FID	**ST** 226-30-04
2-Ethyl toluene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
3-Ethyl toluene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
4-Ethyl toluene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethyl vinyl benzene	OSHA 89		12	50	4	GC-FID	**ST** 226-73
Ethyl-3-ethoxypropionate	OSHA PV2025		10	100	100 min	GC-FID	**ST** 226-01-50_
Ethylamine	OSHA 36	10	10	200	50 min	HPLC-UV	**ST** 226-96
Ethylene chlorohydrin	NIOSH 2513	– / 1	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-81A
Ethylene dibromide (1,2-dibromoethane)	NIOSH 1008	0.045 / 0.13 (15 min)	10 / 3	20(50) / 200	8(3.3) / 15	GC-ECD	**ST** 226-01-50_
Ethylene dibromide (1,2-dibromoethane)	OSHA 02	20 / 30	10 / 1	20(50) / 200	8(3.3) / 5	GC-ECD	**ST** 226-01-50_
Ethylene dichloride	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Ethylene dichloride (1,2-dichloroethane)	OSHA 03	50 / 100	10 / 3	200 / 200	1 / 15	GC-ECD	**ST** 226-01GWS
Ethylene dichloride (1,2-dichloroethane) (hydrocarbons, halogenated)	NIOSH 1003	1 / 2	3 / 3	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Ethylene glycol (glycols)	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Ethylene glycol dinitrate	OSHA 43	– / 0.2 (C)	– / 15	– / 1000	– / 15	HPLC-TEA	**ST** 226-35-03
Ethylene glycol dinitrate (nitroglycerine)	NIOSH 2507	– / 0.1 mg/m³	– / 15	– / 1000	– / 15	GC-ECD	**ST** 226-35-03
Ethylene oxide	ASTM D 4413		6 / 3	100 / 200	1 / 15	GC-FID	**ST** 226-16
Ethylene oxide	ASTM D 5578		9.6 / 1.5	20 / 100	8 / 15	GC-ECD	**ST** 226-178
Ethylene oxide	NIOSH 1614	0.1 / 5 (10 min)	24 / 1.5	100 / 150	4 / 10	GC-ECD	**ST** 226-178
Ethylene oxide	OSHA 1010	1 / 5.0 EL	12 / 0.75	50 / 50	4 / 15	GC-ECD	**ST** 226-178
Ethylene oxide (by portable GC)	NIOSH 3702	0.1 / 5 (10 min)	varies / varies	20–4000 / varies	varies / varies	P GC-PID	**SB** 232 Series
Ethylene thiourea	NIOSH 5011	LFC	480	2000	4	VAS	**F/CST** 225-802 **C/HLD** 225-1
Ethylene thiourea	OSHA 95		480	2000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Ethylenediamine	NIOSH 2540	10	10	100	1.7	HPLC-UV	**ST** 226-30-18
Ethylenediamine	OSHA 60	10	10	100	100 min	HPLC-UV	**ST** 226-30-18

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Ethylenimine	NIOSH 3514		48	200	4	HPLC-UV	**IMP** 225-36-2 **IT** 225-22
2-Ethylhexyl acrylate	OSHA PV2026		12	100	2	GC-FID	**ST** 226-73
di-2-Ethylhexyl phthalate (DEHP)	OSHA 104	5 mg/m³	240	1000	4	GC-FID	**ST** 226-56
ETS (see environmental tobacco smoke)	NON 49						

F

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Fenamiphos (Organophosphorus Pesticides)	NIOSH 5600	0.1 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Fenvalerate	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Ferrovanadium dust	OSHA ID 125G	1 mg/m³	480 / 30	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Fibers (bioaerosols)			15–150	15000	1–10 min	varies	**STC** 225-9820
Fibers	*see specific compounds*						
Fibrous glass (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Fibrous glass (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Fibrous glass dust	OSHA ID 160	15 mg/m³ / 1 fbr/cc EL	60–300 / 48	500–2500 / 1600	120	PCM	**FLT/CL** 225-321
Fluometuron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Fluoranthene (benzo[jk]fluorene; 1,2-benzacenaphthene; Idryl) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Fluoranthene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Fluoranthene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Fluoranthene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Fluorene (o-biphenylenemethane; 2,2′-methylenebiphenyl; 9H-fluorene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Fluorene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Fluorene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Fluorene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Fluoride (particulate)	NIOSH 7906	2.5 mg/m³	960	2000	8	IC-CD	**CF/CST** 225-9031 **C/HLD** 225-1
Fluorides	ASTM D 4765		varies	2000	varies	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Fluorides (aerosol & gas by ISE)	NIOSH 7902	2.5 mg/m³ / 6 (HF)	480 / 22.5	1000 / 1500	8 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Fluorides (as F)	OSHA ID 110	2.5 mg/m³	90 / 22.5	1500 / 1500	1 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Fluorine	OSHA ID 110	0.1	480	1000		ISE	**IMP** 225-36-2 **IT** 225-22
Fluorotrichloromethane (trichlorofluoromethane)	NIOSH 1006	– / 1000	– / 5	– / 20	– / 240	GC-FID	**ST** 226-09-50_
Folpet	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Fonofos (Dyfonate)	OSHA PV2027		480	1000	8	GC-FPD	**ST** 226-30-16
Fonofos (Organophosphorus Pesticides)	NIOSH 5600	0.1 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Formaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
Formaldehyde	EPA IP-6A			100–1000 mL/min	5 min–24 hrs	HPLC-UV	**ST** 226-119 *or* **ST** 226-120
Formaldehyde	EPA IP-6C			20.4 mL/min	7 days	HPLC-UV	**PS** 500-100
Formaldehyde	EPA IP-6C			20.4 mL/min	1–7 days	HPLC-UV	**PS** 500-100
Formaldehyde	EPA IP-6C			28.6 mL/min	15 min–8 hrs	HPLC-UV	**PS** 500-100
Formaldehyde	EPA TO-11A			28.6 mL/min	15 min–8 hrs	HPLC-UV	**PS** 500-100
Formaldehyde	EPA TO-11A			20.4 mL/min	7 days	HPLC-UV	**PS** 500-100
Formaldehyde	EPA TO-11A			28.6 mL/min	15 min–24 hrs	HPLC-UV	**PS** 500-100
Formaldehyde	EPA TO-11A		varies	100–2000 mL/min	varies	HPLC-UV	**ST** 226-119 *or* **ST** 226-120
Formaldehyde	NIOSH 2016	0.016 / 0.1 (C)	1–<15 / 1–<15	30–500 / 30–500	varies / varies	HPLC-UV	**ST** 226-119 ▯
Formaldehyde	NIOSH 2541	0.016 / 0.1 (C)	24 / 1	100 / 100	4 / 10	GC-FID	**ST** 226-118
Formaldehyde	NIOSH 3500	0.016 / 0.1	96 / 15	200 / 1000	8 / 15	VAS	**IMP** 225-36-1 **FLT** 225-1709 ** **SCN** 225-26 **IT** 225-22 **CST** 225-2LF
Formaldehyde	OSHA 1007	0.75 / 2	13.8 / 0.43	29.77 / 29.77	4 / 15	HPLC-UV	**PS** 500-100
Formaldehyde	OSHA 52	0.75 / 2	24 / 3	100 / 200	4 / 15	GC-NPD	**ST** 226-117 *or* **ST** 226-54
Formaldehyde (Aldehydes, Screening)	NIOSH 2539	0.016 / 0.1	5	20	4	GC-FID & GC-MS	**ST** 226-118
Formaldehyde on dust (textile or wood)	NIOSH 5700	0.016 / 0.1	240	2000	4	HPLC-UV	**IOM** 225-70A **FLT** 225-5-25
Formetanate (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Formic acid	NIOSH 2011	5	24	200	2	IC-CD	**FLT** 225-1728A **ST** 226-10-03 **CST** 225-3-25LF **C/HLD** 225-1
Formic Acid	NON 61	5		17.7	see method	ICP-AES	**PS** 500-200
Freon 113	OSHA 113	1000	1	50	20 min	GC-FID	**ST** ask Analyt-MTC
Freon 123	NON 50		9	50	3	GC-FID	**ST** 226-09-50_
Freon 141b	OSHA 113	1000	1	50	20 min	GC-FID	**ST** ask Analyt-MTC
Fungi	NIOSH 0800		varies	28 300	varies	varies	**BI** 225-9611
Fungi (in air)			– / 15–150	– / 15 000	– / 1–10 min	varies	**STC** 225-9820
Fungi (in air) (BioSampler method)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A
Furans (including PHDFs, PCDFs, PBDFs)	EPA TO-9A			200–280 L/min	24 hrs	HRGC-HRMS	**PUF** 226-131 **FLT** 225-1808
Furfural	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Furfural	NIOSH 2529		5	20	4	GC-FID	**ST** 226-118

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Furfural	OSHA 72	5	180	1000	3	GC-FID	**ST** 226-81A
Furfural (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118
Furfuryl alcohol	NIOSH 2505	10 / 15	5	20	4	GC-FID	**ST** 226-115

G

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Gallium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–3300	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Gasoline	OSHA PV2028		10 / 1.5	20(50) / 100	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Glass, fibrous (see asbestos fibers)	NIOSH 7400						
Glutaraldehyde	NIOSH 2531	– / 0.2	– / 4	– / 200	– / 20	HPLC-UV	**ST** 226-118
Glutaraldehyde	NIOSH 2532	– / 0.2	– / 3	– / 200	– / 15	HPLC-UV	**ST** 226-119
Glutaraldehyde	NON 43		30 / 15	250 / 1000	2 / 15	GC-FID	**ST** 226-10
Glutaraldehyde	OSHA 64		– / 15	– / 1000	– / 15	HPLC-UV	**CF/CST** 225-9003 **C/HLD** 225-1
Glycerin mist (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Glycidol (2,3-epoxy-1-propanol)	NIOSH 1608	25	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Glycol chlorohydrin	*see ethylene chlorohydrin*						
Glycol ethers	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Glycols	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Glyphosate	OSHA PV2067		100	1000	100 min	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Gold	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Gold (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–3300	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Graphite (natural) (see Respirable dust)	OSHA ID 142 (v4)						
Graphite (synthetic) (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Graphite (synthetic) (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Grunerite fibers (see asbestos)	OSHA ID 160						
Gypsum (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Gypsum (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1

H

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Hafnium	OSHA ID 121	0.5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Halothane	OSHA 103		12	50	4	GC-FID	**ST** 226-81A
Halothane	OSHA 29		9	100	1.5	GC-FID	**ST** 226-01-50_
HDI	*see hexamethylene diisocyanate*						
Heptachlor	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Heptachlor	OSHA PV2029	0.5 mg/m³	60	1000	1	GC-ECD	**ST** 226-30-16
Heptachlor (non-occupational exposure)	ASTM D 4947		240–7200 / 250	1000–5000	4–24	GC-ECD	**PUF** 226-92
Heptachlor epoxide	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Heptanal (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118
n-Heptane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Heptane	Internal			13.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
n-Heptane	Internal			13.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
3-Heptanone (ethyl butyl ketone) (Ketones II)	NIOSH 2553	50	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
2-Heptanone (methyl n-amyl ketone) (Ketones II)	NIOSH 2553	100	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Hexachloro-1,3-cyclopentadiene	NIOSH 2518	0.01	24	50	8	GC-ECD	**ST** 226-116A
Hexachlorobenzene	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Hexachlorobutadiene	NIOSH 2543	0.02	48	100	8	GC-ECD	**ST** 226-30-04
Hexachlorocyclopentadiene	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-124
Hexachlorocyclopentadiene (hexachloro-1,3-cyclopentadiene)	NIOSH 2518	0.01	48	100	8	GC-ECD	**ST** 226-116A
Hexachloroethane (hydrocarbons, halogenated)	NIOSH 1003	1	10	10–200	varies	GC-FID	**ST** 226-01-50_
Hexamethylene diisocyanate	NIOSH 5522	35 µg/m³ / 140 µg/m³	360 / 20	1000 / 2000	6 / 10	HPLC-FD	**IMP** 225-36-1 **IT** 225-22
1,6-Hexamethylene diisocyanate	OSHA 5002		15	1000	15 min	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 **C/HLD** 225-1
1,6-Hexamethylene diisocyanate homopolymer	OSHA 5002		15	1000	15 min	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 **C/HLD** 225-1
Hexamethylene diisocyanate (gaseous)	ASTM D 6562		15	1000	15 min	HPLC-UV or HPLC-FD	**CF/CST** 225-9022 **C/HLD** 225-1
Hexamethylene diisocyanate (HDI) (isocyanates)	OR-OSHA 1010	0.02 / 0.02	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
Hexamethylene diisocyanate (isocyanates)	NIOSH 5521	35 µg/m³ / 140 µg/m³ (10 min) (C)	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
1,6-Hexamethylene diisocyanate (isocyanates, total)	NIOSH 5525	35 µg/m³ / 140 µg/m³ (10 min) (C)	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702
Hexamethylene diisocyanate (monomeric aerosol)	ASTM D 6561		15	1000	15 min	HPLC-UV	**CF/CST** 225-9022 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Hexamethylene diisocyanate (monomeric gaseous)	ASTM D 6561		15	1000	15 min	HPLC-UV	**CF/CST** 225-9022 **C/HLD** 225-1
Hexamethylene diisocyanate (oligomeric aerosol)	ASTM D 6561		15	1000	15 min	HPLC-UV	**CF/CST** 225-9022 **C/HLD** 225-1
Hexamethylene diisocyanate biuret (HDI-BT) (isocyanates)	OR-OSHA 1010	1.0 mg/m³ / 0.5 mg/m³	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
Hexamethylene diisocyanate isocyanurate (HDI-IC) (isocyanates)	OR-OSHA 1010	1.0 mg/m³ / 0.5 mg/m³	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
Hexamethylenetetramine	NON 52		15	1000	15 min	GC-NPD or GC-FID	**ST** 226-57
Hexanal	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 *or* **ST** 226-119
Hexanal (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118
n-Hexane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Hexane	Internal			14.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
n-Hexane	Internal			14.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Hexane	NIOSH 1500	50	4	200	20 (min)	GC-FID	**ST** 226-01-50_
n-Hexane	OSHA 5000	500	4.9	50	1.63	GC-FID	**ST** 226-01-50_
1,6-Hexanediol	NIOSH 1500		5 / 3	200 / 200		GC-FID	**ST** 226-01-50_
Hexanediol diacrylate	NON 39		480	1000	8	GC-FID	**ST** 226-56
1,6-Hexanediol diacrylate	OSHA PV2133	1 mg/m³	48	200	4	GC-FID	**ST** 226-110
2-Hexanone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
2-Hexanone (methyl butyl ketone) (Ketones I)	NIOSH 1300	1	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
2-Hexanone (methyl butyl ketone, MBK)	Internal			14.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
2-Hexanone (methyl butyl ketone, MBK)	Internal			14.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Hexavalent chromium	ASTM D 6832		varies	1000–5000	varies	IC	**F/CST** 225-802 *or* **F/CST** 225-1713 *or* **F/CST** 225-709 *or* **F/CST** 225-401
Hexavalent chromium	NIOSH 7600	1 µg/m³ (10 hrs)	240	1000	4	VAS	**F/CST** 225-802 **C/HLD** 225-1
Hexavalent chromium	NIOSH 7604	1 µg/m³ (10 hrs)	240	1000	4	IC-CD	**F/CST** 225-802 **C/HLD** 225-1
Hexavalent chromium	NIOSH 7605	0.001 mg/m³ (10 hrs)	1–400	1000–4000	varies	IC-PCD-UV	**F/CST** 225-802 **C/HLD** 225-1
Hexavalent chromium	NIOSH 7703	0.001 mg/m³ (10 hrs)	10–1200	1000–4000	varies	P VAS	**F/CST** 225-802 **C/HLD** 225-1
Hexavalent chromium	OSHA W4001	– / 0.005 mg/m³ (C)				IC-UV	**FLT** 225-5-37 *or* **FLT** 225-1822
Hexavalent chromium (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 **C/HLD** 225-1
Hexavalent chromium (in settled dust)	NIOSH 9101		bulk / bulk			CLR or VAS or IC	
Hexone	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Hexone	OSHA 1004	100		13.62	8	GC-FID	**PS** 575-002
Hexone	OSHA 1004	100	12	50	4	GC-FID	**ST** ask Analyt-MTC
Hexone (Ketones I)	NIOSH 2555	50	1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Hexone (methyl isobutyl ketone) (Ketones I)	NIOSH 1300	50 / 75	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
sec-Hexyl acetate	NIOSH 1450	50	10	200	50 (min)	GC-FID	**ST** 226-01-50_
Hexylene glycol	OSHA PV2101		– / 3	– / 200	– / 15	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
HMX	OSHA PV2032		480	1000	8	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Hydrazine	NIOSH 3503	– / 0.03 (120 min)	90	1000	1.5	VAS	**IMP** 225-36-2 **IT** 225-22
Hydrazine	NON 22		96	200	8	CLR	**ST** 226-42-02
Hydrazine	OSHA 108	1	240	1000	4	LC-UV	**CF/CST** 225-9012 **C/HLD** 225-1
Hydrazine	OSHA 20	1	20	100	3.3	HPLC-UV	**ST** 226-42-02
Hydrazoic acid	NON 25		– / 15	– / 1000	– / 15	HPLC-UV	**ST** 226-55
Hydrazoic acid	OSHA ID 211		– / 5	– / 1000	– / 5	IC-UV	**ST** 226-55 **CST** 225-2LF **C/HLD** 225-1 **FLT** 225-5-37-P
Hydrocarbons BP 36–216 °C (see specific compounds)	NIOSH 1500	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
Hydrocarbons, aromatic (see specific compounds)	NIOSH 1501	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
Hydrocarbons, halogenated (see specific compounds)	NIOSH 1003	varies	varies	varies	varies	GC-FID	**ST** 226-01-50_
Hydrofluoric acid (fluorides)	NIOSH 7906	3 / 6	960 / 30	2000 / 2000	8 / 15	IC-CD	**CF/CST** 225-9031 **C/HLD** 225-1
Hydrogen bromide	NIOSH 7907	– / 3	– / 30	– / 2000	– / 15	IC-CD	**CF/CST** 225-9032
Hydrogen bromide	OSHA ID 165SG	3	97 / 3	200 / 200	8 / 15	IC	**ST** 226-10-03
Hydrogen chloride	NIOSH 7907	– / 5	– / 30	– / 2000	– / 15	IC-CD	**CF/CST** 225-9032
Hydrogen chloride (hydrochloric acid)	OSHA ID 174SG	– / 5	– / 7.5	– / 500	– / 15	IC	**ST** 226-10-03
Hydrogen cyanide	NIOSH 6010	– / 4.7	– / 2–90	– / 50–200	– / varies	VAS	**ST** 226-210 **CST** 225-710
Hydrogen cyanide	NIOSH 6017	– / 4.7	– / 2–90	– / 50–200	– / varies	IC-ELCHM	**ST** 226-210 **CST** 225-710
Hydrogen cyanide	OSHA 1015	10		28.4	8 / 15	IC-ELCHM	**PS** 590-400
Hydrogen cyanide	OSHA ID 120	10	120 / 15	1000 / 1000	2 / 15	ISE	**CST** 225-3LF **IT** 225-22 **SP** 225-2902 **IMP** 225-36-2 **FLT** 225-5
Hydrogen cyanide (cyanides)	NIOSH 7904	– / 5 mg/m³ (10 min)	– / 15	– / 1000	– / 15	ISE	**FLT** 225-17-32 Δ **IMP** 225-36-2 **C/HLD** 225-1 **CST** 225-2LF **IT** 225-22
Hydrogen fluoride	NIOSH 7906	3 / 6	960 / 30	2000 / 2000	8 / 15	IC-CD	**CF/CST** 225-9031 **C/HLD** 225-1
Hydrogen fluoride (as F)	OSHA ID 110	3 / 6	90 / 22	1500 / 1500	1 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Hydrogen fluoride (fluorides)	NIOSH 7902	3 / 6	480 / 30	1000 / 2000	8 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Hydrogen peroxide	OSHA 1019	1.0 (1.4 mg/m³)	240 / 30	1000 / 2000	4 / 15	VAS	**CF/CST** 225-9030 **C/HLD** 225-1
Hydrogen sulfide	NIOSH 6013	– / 10 (10 min)	24 / 3	100 / 300	4 / 10	IC	**ST** ask Analyt-MTC
Hydrogen sulfide	NON 42		12	1000	12 min	GC-FPD	**SB** 231-10
Hydrogen sulfide	OSHA 1008	10 / 20	12 / 7.5	50 / 500	4 / 15	IC	**ST** 226-177
Hydroquinone	NIOSH 5004	– / 2 mg/m³ (15 min)	– / 30	– / 2000	– / 15	HPLC-UV	**F/CST** 225-3-01 **C/HLD** 225-1
Hydroquinone	OSHA PV2094	2 mg/m³	20	200	100 min	HPLC-UV	**ST** 226-98
4-Hydroxy-4-methyl-2-pentanone	*see diacetone alcohol*						
4-Hydroxy-4-methyl-2-pentanone (alcohols combined)	NIOSH 1405	50	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
2-Hydroxypropyl acrylate	OSHA PV2078		10	100	100 min	GC-FID	**ST** 226-73

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
2-Imidazolidinethione (ethylene thiourea)	NIOSH 5011	LFC	480	1000	8	VAS	**F/CST** 225-803 **C/HLD** 225-1
Indeno[1,2,3-cd]pyrene (2,3-phenylenepyrene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Indeno(1,2,3-cd)pyrene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Indeno(1,2,3-cd)pyrene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Indeno(1,2,3-cd)pyrene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Indium	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Indium & compounds (as In)	OSHA ID 121	0.1 mg/m³	480–960	2000	4–8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Indium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.1 mg/m³	8–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Indium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		15–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Iodine	NIOSH 6005	– / 0.1	– / 15	– / 1000	– / 15	IC	**ST** 226-67
Iodine	NON 16		48	100	8	IC	**ST** 226-67
Iodine	OSHA ID 212	– / 0.1 (C)	– / 2.5	– / 500	– / 5	IC	**ST** 226-80
Iodine (particulates)	OSHA ID 212	– / 0.1	– / 2.5	– / 500	– / 5	IC	**ST** 226-142
Iodine (vapor)	OSHA ID 212	– / 0.1	– / 2.5	– / 500	– / 5	IC	**ST** 226-80
Iron	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Iron & compounds (as Fe)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Iron (bulk)	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Iron (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	5 mg/m³ (dust, fume) as Fe	2–500	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Iron (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	5 mg/m³ (dust, fume)	5–100	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Iron (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.5 mg/m³ (dust, fume)	1–5000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Iron (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	5 mg/m³ (dust, fume)	5–100	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Iron (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Iron oxide (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–5000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Iron oxide fume	OSHA ID 121	10 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Iron oxide fume	OSHA ID 125G	10 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Iron salts, soluble (as Fe)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Isoamyl acetate (Esters I)	NIOSH 1450	100	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Isoamyl alcohol (alcohols combined)	NIOSH 1405	100 / 125 (skin)	1–10 / 1–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Isoamyl alcohol (alcohols III)	NIOSH 1402	100 / 125	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Isobutanol (isobutyl alcohol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isobutyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isobutyl acetate	OSHA 1009	150		13.16 / 13.16	8 / 15	GC-FID	**PS** 575-002
Isobutyl acetate	OSHA 1009	150	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-01-50_
Isobutyl acetate (Esters I)	NIOSH 1450	150	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Isobutyl alcohol	OSHA 5001	200	12	4		GC-FID	**ST** 226-82
Isobutyl alcohol (alcohols combined)	NIOSH 1405	50	2–10	10–200	varies	GC-FID	**ST** 226-01-50_
Isobutyl alcohol (alcohols II)	NIOSH 1401	50	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Isobutyl alcohol (isobutanol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isobutyl isobutyrate	OSHA PV2090		10	200	50 min	GC-FID	**ST** 226-01-50_
Isobutyraldehyde (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118
Isocyanates (see specific isocyanate)	NIOSH 5521	varies	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Isocyanates (see specific isocyanate)	NIOSH 5522	varies / varies	360 / 20	1000 / 2000	6 / 10	HPLC-FD	**IMP** 225-36-1 **IT** 225-22
Isocyanates (see specific isocyanate)	OR-OSHA 1010	varies / varies	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
Isocyanates, total (see specific isocyanate)	NIOSH 5525	varies / varies	1–500 / 1–500	1000–2000 / 1000–2000	varies / varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
Isoflurane	OSHA 103		12	50	4	GC-FID	**ST** 226-81A
Isooctyl alcohol	OSHA PV2033	100	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Isophorone	NIOSH 2508	4	10	20(50)	8(3.3)	GC-FID	**ST** 226-81A
Isophorone	NIOSH 2556	4	2–25	10–100	varies	GC-FID	**ST** 226-93
Isophorone (3,5,5-trimethylcyclohex-2-enone)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isophorone (3,5,5-trimethylcyclohex-2-enone)	Internal			11.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Isophorone diisocyanate	OSHA 5002		60 / 15	1000 / 1000	1 / 15	HPLC-UV	**CF/CST** 225-9002 *or* **CF/CST** 225-9022 **C/HLD** 225-1
Isophorone diisocyanate (IPDI)	OR-OSHA 1010	0.02 / 0.02	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Isophorone diisocyanate (isocyanates, total)	NIOSH 5525	45 µg/m³ / 180 µg/m³ (10 min) C	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
Isopropanol (isopropyl alcohol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isopropanol (isopropyl alcohol)	Internal			18.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Isopropanol (isopropyl alcohol)	Internal			18.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Isopropyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isopropyl acetate	NIOSH 1454		9	50	3	GC-FID	**ST** 226-01-50_
Isopropyl acetate	NIOSH 1460		0.1–9	20–200	varies	GC-FID	**ST** 226-01-50_
Isopropyl alcohol	OSHA 5001	200	12	4		GC-FID	**ST** 226-82
Isopropyl alcohol (Alcohols I)	NIOSH 1400	400 / 500	3 / 3	20 / 200	2.5 / 15	GC-FID	**ST** 226-01-50_
Isopropyl alcohol (isopropanol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isopropyl alcohol (isopropanol)	Internal			18.4 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Isopropyl alcohol (isopropanol)	Internal			18.4 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Isopropyl amine	OSHA PV2126	5	20	100	200 min	HPLC	**ST** 226-30-18
N-Isopropyl aniline	OSHA 78		133	1000–2000	100 min	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
Isopropylbenzene (cumene)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Isopropyl Benzene (cumene)	Internal			12.8 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Isopropyl Benzene (cumene)	Internal			12.8 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Isopropyl ether	NIOSH 1618	500	0.1–3	10–50	varies	GC-FID	**ST** 226-01-50_
Isopropyl glycidyl ether	NIOSH 1620	– / 50 (15 min)	– / 3	– / 200	– / 15	GC-FID	**ST** 226-01-50_
Isovaleraldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ⍰ *or* **ST** 226-119
Isovaleraldehyde (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Kaolin (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Kaolin (particulates, total)	NIOSH 0500		120	2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Kathon 886 (kathon biocide)	NON 55		50 / 7.5	200 / 500	4 / 15	HPLC-UV	**ST** 226-99
Kepone	NIOSH 5508	1 µg/m³	480	1000	8	GC-ECD	**F/CST** 225-3-01 **IT** 225-22 **IMP** 225-36-1
Kerosene	OSHA PV2139		20	100	200 min	GC-FID	**ST** 226-01-50_
Kerosene (naphthas)	NIOSH 1550	100 mg/m³	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Ketones	EPA TO-5		< 80 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Ketones (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Ketones I (see specific compounds)	NIOSH 1300	varies	varies	10–200	varies	GC-FID	**ST** 226-01-50_
Ketones I (see specific compounds)	NIOSH 2555		varies	varies	varies	GC-FID	**ST** ask Analyt-MTC
Ketones II (see specific compounds)	NIOSH 1301	varies	varies	varies	8	GC-FID	**ST** 226-01-50_
Ketones II (see specific ketone)	NIOSH 2553	varies / varies	1–25 / 1–25	10–200 / 10–200	varies / varies	GC-FID	**ST** ask Analyt-MTC

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Lanthanum (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Lanthanum (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Lanthanum (Elements by ICP $HNO_3/HClO_4$ Ashing)	NIOSH 7300		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Lanthanum (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Lasso (aroclor)	OSHA PV2035		100	1000	100 min	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Lead	NIOSH 7082	< 0.1 mg/m³	720	1500	8	AAS-F	**F/CST** 225-3-01 **C/HLD** 225-1
Lead	NIOSH 7105	< 0.1 mg/m³	720	1500	8	AAS-GF	**F/CST** 225-3-01 **C/HLD** 225-1
Lead (by field portable XRF)	NIOSH 7702	< 0.1 mg/m³	960	2000	8	XRF	**F/CST** 225-3-01
Lead (by portable ultrasound extraction/ASV)	NIOSH 7701	0.05 mg/m³	20–1500	1000–4000	varies	P ASV	**F/CST** 225-3-01 **C/HLD** 225-1
Lead (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.05 mg/m³	4–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Lead (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.05 mg/m³	50–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Lead (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.5 mg/m³	35–100 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Lead (Elements by ICP $HNO_3/HClO_4$ Ashing)	NIOSH 7300	0.05 mg/m³	50–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Lead (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Lead (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206		480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Lead (in dust wipes)	NIOSH 9105					SPOT	**W** 550-001 *or* **W** 550-002
Lead (in surface dust)	ASTM E 1792		bulk			varies	**W** 225-2414
Lead (in surface dust)	OSHA ID 125G		wipe			ICP-AES	**W** 225-2414
Lead (in workplace air)	ASTM D 6785		varies	varies	varies	AAS-F	**IOM** 225-70A **FLT** 225-1930
Lead (on surfaces)	NIOSH 9100					AA-F or AA-GF or ICP	**W** 225-2414
Lead chromate (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 Ω **C/HLD** 225-1
Lead oxide (as lead)	NIOSH 7082	< 0.1 mg/m³	720	1500	8	AAS-F	**F/CST** 225-3-01 **C/HLD** 225-1
Lead oxide (as Pb)	NIOSH 7105	< 0.1 mg/m³	720	1500	8	AAS-GF	**F/CST** 225-3-01 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Lead oxide (by field portable XRF)	NIOSH 7702	< 0.1 mg/m³	960	2000	8	XRF	**F/CST** 225-3-01
Lead oxide (by portable ultrasound extraction/ASV)	NIOSH 7701	0.05 mg/m³	20–1500	1000–4000	varies	P ASV	**F/CST** 225-3-01 **C/HLD** 225-1
Lead sulfide (as Pb)	NIOSH 7505	< 0.1 mg/m³	750	2500	5	XRD	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Lead, inorganic fumes & dusts (as Pb)	OSHA ID 121	0.05 mg/m³	960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Lead, inorganic fumes & dusts (as Pb)	OSHA ID 125G	0.05 mg/m³	480 / 30	2000 / 15	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Lead, inorganic surface dusts (as Pb)	OSHA ID 121					AA or AES	**W** 225-24 *or* **W** 225-2414
Limestone (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Limestone	*see calcium carbonate*						
Limestone	*see Particulates Not Otherwise Regulated, total and respirable*						
Limonene	OSHA PV2036		10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Limonene (terpenes)	NIOSH 1552		24	50	8	GC-FID	**ST** 226-01-50_
Lindane (gamma-BHC)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Linuron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Lithium	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Lithium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Lithium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		100–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Lithium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300		100–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Lithium hydride (as Li)	OSHA ID 121	0.025 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Lithium hydroxide (alkaline dust)	NIOSH 7401		960	2000	8	TITRA	**F/CST** 225-1715 **C/HLD** 225-1
Lithium hydroxide (as Li)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1

M

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Magnesite (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Magnesite (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Magnesium	OSHA ID 121		960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Magnesium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		1–330	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Magnesium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	10 mg/m³ (fume, as oxide)	5–67	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Magnesium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		1–10000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Magnesium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	10 mg/m³ (fume, as oxide)	5–67	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Magnesium oxide (as Mg, elements by ICP)	NIOSH 7303	10	5–33000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Magnesium oxide fume (respirable dust)	OSHA ID 121	5 mg/m³	960	2000	8	GR & AA or GR & AES	**F/CST** 225-3-01 **CYC** 225-105 **C/HLD** 225-1
Magnesium oxide fume (total dust)	OSHA ID 121	15 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Malathion	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Malathion	OSHA 62	15 mg/m³	60	1000	1	GC-FPD	**ST** 226-30-16
Malathion (Organophosphorus Pesticides)	NIOSH 5600	10 mg/m³	60	1000	1	GC-FPD	**ST** 226-58
Maleic anhydride	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Maleic anhydride	NIOSH 3512	0.25	360	1000	6	HPLC-UV	**IMP** 225-36-2 **IT** 225-22
Maleic anhydride	OSHA 86	0.25	60	500	2	HPLC-UV	**CF/CST** 225-9021 †† **C/HLD** 225-1
Maneb	OSHA 107		500	2000	250	HPLC-UV	**F/CST** 225-3-01 **C/HLD** 225-1
Manganese & compounds (as Mn)	OSHA ID 121	– / 5 mg/m³ (C)	960 / 10	2000 / 2000	8 / 5	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Manganese & compounds (as Mn)	OSHA ID 125G	– / 5 mg/m³	– / 10	– / 2000	– / 5	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Manganese (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	1 mg/m³ / 3 mg/m³	1–1000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Manganese (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	1 mg/m³ / 3 mg/m³	5–200 / 5–200	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Manganese (Elements by ICP HNO_3 Digestion)	NIOSH 7303	1 mg/m³ / 3 mg/m³	0.05–10000 / 0.05–10000	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Manganese (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	1 mg/m³ / 3 mg/m³	5–200 / 5–200	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Manganese (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Manganese fume	OSHA ID 125G	– / 5 mg/m³	480 / 30	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Manganese fume (as Mn)	OSHA ID 121	– / 5 mg/m³ (C)	960 / 10	2000 / 2000	8 / 5	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Manganese in welding fume	NON 58	– / 5 mg/m³	varies	750	varies	GR	**FLT** 225-8050 **C/HLD** 225-6200 **CST** 225-6201
Manganese tetroxide (as Mn)	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Manganese tetroxide (as Mn)	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Marble (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Marble (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Marble	*see Particulates Not Otherwise Regulated, total and respirable*						
MDI (4,4-methylene bisphenyl isocyanate)	OSHA 47	50 µg/m³ / 200 µg/m³	– / 10	– / 1000	– / 10	HPLC-UV	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 **C/HLD** 225-1
MDI (4,4-methylenebis[phenyl isocyanate]) (isocyanates, total)	NIOSH 5525	50 µg/m³ / 200 µg/m³ (10 min) C	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
MDI (4,4′-methylenebisphenyl isocyanate) (isocyanates)	NIOSH 5521	50 µg/m³ / 200 µg/m³ (10 min) C	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
MEK	*see methyl ethyl ketone*						
Mercaptans (see specific compounds)	NIOSH 2542	– / 0.5 (15 min)	48 / 12	100 / 200	8 / 60	GC-FPD	**CF/CST** 225-9007 **C/HLD** 225-1
Mercury	NIOSH 6009	0.05 mg/m³	48	200	4	AA	**ST** 226-17-1A **F/CST** 225-3-01
Mercury (Rathje & Marcero)	NON 17		48	100	8	AA	**ST** 226-17-1A
Mercury (Rathje & Marcero)	NON 17		varies	1000–3000	varies	AA	**ST** 226-17-3A
Mercury (vapor)	OSHA ID 140	0.1 mg/m³	3–100	200	varies	AA	**ST** 226-17-1A **F/CST** 225-3-01
Mercury, Particulate (in Workplace Atmospheres, air samples)	OSHA ID 145	– / 0.01 mg/m³	– / 30	– / 2000	– / 15	AA	**F/CST** 225-3-01 **C/HLD** 225-1
Mercury, Particulate (in Workplace Atmospheres, wipe samples)	OSHA ID 145	– / 0.01 mg/m³				wipe	**SM TB** 225-24
Mesityl oxide (Ketones II)	NIOSH 2553	10	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Mesityl oxide (Ketones II)	NIOSH 1301	10	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Mesitylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Mestranol	OSHA PV2068		480	2000	4	HPLC	**F/CST** 225-802 **C/HLD** 225-1
Metal & metalloid particulates	OSHA ID 121	varies / varies	960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Metal & metalloid particulates	OSHA ID 125G	varies / varies	480 / 30	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Metal & metalloid particulates (bulk sample)	OSHA ID 125G	varies / varies	bulk / bulk			ICP-AES	**SM TB** 225-24
Metal removal fluid (aerosol)	ASTM D 7049		960	2000	8	GR	**FLT** 225-17-33 **C/HLD** 225-1 **CST** 225-2LF **SP** 225-27
Metal working fluids (aerosols)	ASTM D 7049		960	2000	8	GR	**FLT** 225-17-33 **C/HLD** 225-1 **CST** 225-2LF **SP** 225-27
Metals (ICP analysis of metal/metalloid particulates from solder operations) (bulk sample)	OSHA ID 206	varies / varies	bulk / bulk			ICP-AES	**SM TB** 225-24
Metals (in settled dust)	ASTM D 6966		wipe	wipe	wipe	varies	**W** 225-2414 **TMP** 225-2415
Metals in workplace atmospheres	ASTM D 4185		varies	2000	varies	AAS	**F/CST** 225-3-01 **C/HLD** 225-1
Metals, trace (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	varies / varies	varies / varies	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Metalworking fluids (thoracic particulates)	NIOSH 5524	0.4 mg/m³ (thoracic particulates)	2000	varies	varies	GR	**PPI** 225-381 **FLT** 225-17-33 **IS** 225-388 **SP** 225-27 *or* **SCN** 225-26
Metalworking fluids (total particulates)	NIOSH 5524	0.5 mg/m³ (total particulates)	1000 (min)	2000	varies	GR	**FLT** 225-17-33 **C/HLD** 225-1 **CST** 225-2LF **SP** 225-27
Methacrylic acid	OSHA PV2005	20	20	100	4	LC-UV	**ST** 226-30-08
Methacrylic acid	NON 60		24	100	4	HPLC-UV	**ST** 226-30-08
Methamidophos (Organophosphorus Pesticides)	NIOSH 5600		240	1000	4	GC-FPD	**ST** 226-58
Methanol (methyl alcohol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methanol (methyl alcohol)	NIOSH 2000	200 / 250	1(@200 ppm)–5 / 3	20 / 200	4 / 15	GC-FID	**ST** 226-51
Methidathion	OSHA PV2074		60	1000	1	GC-ECD	**ST** 226-58
Methiocarb (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Methomyl	OSHA PV2114		60	1000	1	HPLC-UV	**ST** 226-30-16
Methomyl (Organonitrogen Pesticides)	NIOSH 5601	2.5 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Methotrexate	OSHA PV2146		120	1000	2	HPLC-UV	**ST** 226-30-16
2-Methoxy-1-propanol	OSHA 99		10	100	100 min	GC-FID	**ST** 226-01-50_
2-Methoxy-1-propyl acetate	OSHA 99		10	100	100 min	GC-FID	**ST** 226-01-50_
1-Methoxy-2-propanol	OSHA 99		10	100	100 min	GC-FID	**ST** 226-01-50_
1-Methoxy-2-propanol (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
1-Methoxy-2-propyl acetate	OSHA 99		10	100	100 min	GC-FID	**ST** 226-01-50_
1-Methoxy-2-propyl acetate (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Methoxychlor	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Methoxychlor	OSHA PV2038	15 mg/m³	60	1000	1	GC-ECD	**ST** 226-30-16
2-Methoxyethanol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Methoxyethanol (methyl CELLOSOLVE solvent) (alcohols IV)	NIOSH 1403	0.1 (skin)	6–50	10–50	varies	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
2-Methoxyethyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Methoxyethyl acetate	OSHA 53	25	10	100	100 min	GC-FID	**ST** 226-01-50_
2-Methoxyphenol	OSHA PV2039		20	200	100 min	GC-FID	**ST** 226-95
3-Methoxyphenol	OSHA PV2039		20	200	100 min	GC-FID	**ST** 226-95
4-Methoxyphenol	OSHA PV2039		20	200	100 min	GC-FID	**ST** 226-95
Methoxypropanol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl acetate	NIOSH 1458	200 / 250	5 / 3	20 / 200	4 / 15	GC-FID	**ST** 226-01-50_
Methyl acrylate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl acrylate	Internal			15.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl acrylate	Internal			15.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl acrylate	NIOSH 1459	10	5	20	4	GC-FID	**ST** 226-01-50_
Methyl acrylate	NIOSH 2552	10	1–5	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Methyl acrylate	NON 54	5 / 15	10 / 3	20 / 200	8 / 15	GC-FID	**ST** 226-81A
Methyl acrylate	OSHA 92	10	12	50	4	GC-FID	**ST** 226-73
Methyl acrylonitrile	OSHA 37		20	200	100 min	GC-NPD	**ST** 226-01-50_
Methyl alcohol (methanol)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl alcohol (methanol)	NIOSH 2000	200 / 250	1(@200 ppm)–5 / 3	20 / 200	4 / 15	GC-FID	**ST** 226-51
Methyl alcohol (RH < 50 % @ 25 °C)	OSHA 5001	200	3	50	1	GC-FID	**ST** 226-82
Methyl alcohol (RH > 50 % @ 25 °C)	OSHA 5001	200	5	50	100 min	GC-FID	**ST** 226-82
Methyl amine	OSHA 40	10	10	20	8	HPLC-UV	**ST** 226-96
Methyl arsonic acid (arsenic, organo-)	NIOSH 5022		480	1000	8	IC-AA	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Methyl bromide	NIOSH 2520	LFC	1–5	10–100	varies	GC-AED	**ST** 226-82 **ST** 226-44-02
Methyl bromide	OSHA PV2040	– / 20	– / 3	– / 200	– / 15	GC-FID	**ST** 226-82
Methyl butyl ketone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Methyl butyl ketone (MBK, 2-hexanone)	Internal			14.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl butyl ketone (MBK, 2-hexanone)	Internal			14.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl butyl ketone (MBK, 2-hexanone) (Ketones I)	NIOSH 1300	1	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Methyl CELLOSOLVE acetate (2-methoxyethyl acetate)	NIOSH 1451	0.1	12	50	4	GC-FID	**ST** 226-01-50_
Methyl CELLOSOLVE solvent (2-methoxyethanol) (alcohols IV)	NIOSH 1403	0.1 (skin)	6–50	10–50	varies	GC-FID	**ST** 226-01-50_
Methyl chloride	NIOSH 1001	LFC	– / 0.5	– / 100	– / 5	GC-FID	**ST** 226-09-50_ **ST** 226-01-50_
Methyl chloroform (1,1,1-Trichloroethane)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl chloroform (1,1,1-Trichloroethane)	Internal			14.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl chloroform (1,1,1-trichloroethane)	OSHA 14	350	3 / 3	20 / 200	2.5 / 15	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Methyl chloroform (1,1,1-trichloroethane) (hydrocarbons, halogenated)	NIOSH 1003	– / 350	– / 3	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
Methyl cyclohexane	Internal			14.2 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl cyclohexane	Internal			14.2 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl cyclohexane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	400	4	10–200	varies	GC-FID	**ST** 226-01-50_
Methyl ethyl ketone	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl ethyl ketone	Internal			16.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl ethyl ketone	Internal			16.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl ethyl ketone	OSHA 1004	200	12	50	4	GC-FID	**ST** ask Analyt-MTC
Methyl ethyl ketone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Methyl ethyl ketone (MEK)	*see 2-butanone*						
Methyl ethyl ketone (MEK) (see 2-butanone)	NIOSH 2500	200 / 300	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-81A
Methyl ethyl ketone (MEK, 2-butanone)	OSHA 1004	200		16.88	8	GC-FID	**PS** 575-002
Methyl ethyl ketone peroxide	NIOSH 3508	– / 0.2 (15 min)	– / 120	– / 1000	– / 120	VAS	**IMP** 225-36-1 **IT** 225-22
Methyl ethyl ketone peroxide	OSHA 77		– / 15	– / 1000	– / 15	HPLC-UV	**ST** 226-93
Methyl formate	OSHA PV2041	100	3	50	1	GC-FID	**ST** 226-83
Methyl iodide	NIOSH 1014	2	48	100	8	GC-FID	**ST** 226-01-50_
Methyl isoamyl acetate (Esters I)	NIOSH 1450	50	1–10	10–200	varies	GC-FID	**ST** 226-01-50_
Methyl isoamyl ketone	OSHA PV2042	100	24	50	8	GC-FID	**ST** 226-01-50_
Methyl isobutyl carbinol (methyl amyl alcohol) (alcohols combined)	NIOSH 1405	25 / 40 (skin)	1–10 / 1–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Methyl isobutyl carbinol (methyl amyl alcohol) (Alcohols III)	NIOSH 1402	25 / 40	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Methyl isobutyl ketone	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl isobutyl ketone	Internal			13.5 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl isobutyl ketone	Internal			13.5 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl isobutyl ketone	OSHA 1004	100	12	50	4	GC-FID	**ST** ask Analyt-MTC
Methyl isobutyl ketone (hexone)	OSHA 1004	100		13.62	8	GC-FID	**PS** 575-002
Methyl isobutyl ketone (hexone) (Ketones I)	NIOSH 1300	50 / 75	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Methyl isobutyl ketone (Ketones I)	NIOSH 2555	50	1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Methyl isocyanate (MIC)	OSHA 54	0.02	15	50	5	HPLC-FD	**ST** ask Analyt-MTC
Methyl mercaptan	NIOSH 2542	– / 0.5 (15 min)	48 / 12	100 / 200	8 / 60	GC-FPD	**CF/CST** 225-9007 **C/HLD** 225-1
Methyl mercaptan	NON 42		12	1000	12 min	GC-FPD	**SB** 231-10
Methyl mercaptan	OSHA 26	– / 10	20	200	100 min	GC-FPD	**CF/CST** 225-9007 **C/HLD** 225-1
Methyl methacrylate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl methacrylate	Internal			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Methyl methacrylate	Internal			13.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Methyl methacrylate	NIOSH 2537	100	1–8	10–50	varies	GC-FID	**ST** 226-30-06
Methyl methacrylate	NON 54	50 / 75	10 / 3	20 / 200	8 / 15	GC-FID	**ST** 226-81A
Methyl methacrylate	OSHA 94	100	3	50	1	GC-FID	**ST** 226-73

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Methyl n-amyl ketone (2-heptanone) (Ketones II)	NIOSH 2553	100	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Methyl parathion	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Methyl parathion	OSHA PV2112		480	1000	8	GC-FPD	**ST** 226-30-16
Methyl parathion (Organophosphorus Pesticides)	NIOSH 5600	0.2 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Methyl propyl ketone (2-pentanone)	NIOSH 1300	150	10	200	50 (min) / 15	GC-FID	**ST** 226-01-50_
Methyl propyl ketone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
alpha-Methyl styrene	Internal			12.6 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
alpha-Methyl styrene	Internal			12.6 mL/min	8–24 hrs	SE, GC	**PS** 690-105
alpha-Methyl styrene (Hydrocarbons, Aromatic)	NIOSH 1501	50 / 100	1–30 / 1–30	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
beta-Methyl styrene (Hydrocarbons, Aromatic)	NIOSH 1501	50 / 100	1–30 / 1–30	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Methyl styrene (vinyl toluene)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
17-a-Methyl testosterone	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Methyl-2-cyanoacrylate	OSHA 55		12	100	2	HPLC-UV	**ST** 226-98
1-Methyl-2-ethyl benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1-Methyl-2-pyrrolidinone	OSHA PV2043		10	200	50 min	GC-FID	**ST** 226-01-50_
N-Methyl-2-pyrrolidinone	NIOSH 1302		96	200	8	GC-NPD, FID	**ST** 226-01-50_
N-Methyl-2-pyrrolidinone	OSHA PV2043		10	200	50 min	GC-FID	**ST** 226-01-50_
1-Methyl-3-ethyl benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
5-Methyl-3-heptanone (Ketones II)	NIOSH 2553	25	1–25	10–200	varies	GC-FID	**ST** ask Analyt-MTC
5-Methyl-3-heptanone (ketones II)	NIOSH 1301	25	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
1-Methyl-4-ethyl benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
2-Methyl-4-isothiazolin-3-one (Kathon 886)	NON 55	1.5 mg/m³ / 4.5 mg/m³	50 / 7.5	200 / 500	4 / 15	HPLC-UV	**ST** 226-99
Methylal (dimethoxymethane)	NIOSH 1611	1000	1.8	20	1.5	GC-FID	**ST** 226-01-50_
Methylal	*see dimethoxymethane*						
Methylcyclohexanol	NIOSH 1404	50	12	25	8	GC-FID	**ST** 226-01-50_
Methylcyclohexanone	NIOSH 2521	50 / 75	3	50	1	GC-FID	**ST** 226-115
4,4-Methylene bisphenyl isocyanate (MDI)	OSHA 5002	– / 200 µg/m³	– / 15	– / 1000	– / 15	HPLC-UV	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 **C/HLD** 225-1
4,4-Methylene bisphenyl isocyanate (MDI) (isocyanates)	NIOSH 5521	50 µg/m³ / 200 µg/m³ (10 min) C	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
4,4-Methylene bisphenyl isocyanate (MDI) (isocyanates)	OR-OSHA 1010	0.02 / 0.005	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
Methylene chloride	NIOSH 1005	LFC	2 / 1.5	20 / 100	1.6 / 15	GC-FID	**ST** 226-01-50_
Methylene chloride	OSHA 80	25 / 125	3 / 0.25	50 / 50	1 / 5	GC-FID	**ST** ask Analyt-MTC
Methylene chloride (dichloromethane)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methylene chloride (dichloromethane)	Internal			0.54 mL/min	1–7 days	SE, GC	**PS** 690-105 *with* **RR** 690-300

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Methylene chloride (dichloromethane)	Internal			14.7 mL/min	8 hrs–3 days	SE, GC	**PS** 690-105
4,4-Methylene diphenyl isocyanate (MDI)	NIOSH 5522	50 µg/m³ / 200 µg/m³ (10 min) C	360 / 20	1000 / 2000	6 / 10	HPLC-FD	**IMP** 225-36-1 **IT** 225-22
4,4′-Methylenebis(2-chloroaniline) (MOCA)	OSHA 71		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Methylene-bis-(4-cyclohexylisocyanate)	OSHA 5002		– / 15	– / 1000	– / 15	HPLC-UV	**CF/CST** 225-9013 *or* **CF/CST** 225-9022⍰ **C/HLD** 225-1
Methylene-bis-(4-cyclohexylisocyanate) (isocyanates, total)	NIOSH 5525	– / 110 µg/m³ (10 min) C	– / 1–500	– / 1000–2000	– / varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
4,4-Methylenebisphenyl isocyanate (MDI) (isocyanates, total)	NIOSH 5525	50 µg/m³ / 200 µg/m³ (10 min) C	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
4,4′-Methylenedianiline (MDA)	NIOSH 5029	LFC	480	1000	8	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
4,4′-Methylenedianiline (MDA)	OSHA 57		100	1000	100	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Methyl-n-amyl ketone (2-heptanone) (Ketones II)	NIOSH 1301	100	1–25	10–200	8	GC-FID	**ST** 226-01-50_
Methylphenols	EPA TO-8		< 80 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Methyl-t-butyl-ether (MTBE)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Methyl-t-butyl-ether (MTBE)	Internal			13.6 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Methyl-tert-butyl ether	NIOSH 1615		96	200	8	GC-FID	**ST** 226-37
Methyltetrahydrophthalic anhydride	NON 28		200 / 20	40 / 1000	8 / 20	GC-FID	**ST** 226-30
Methyltin dichloride	NIOSH 5526	0.1 mg/m³	15–75	250–1000	0.2–5 / 60	GC-FPD	**ST** 226-30-16
Metolachlor	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Metolachlor	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
Metribuzin	OSHA PV2044		240	1000	4	GC-FPD	**ST** 226-30-16
Mevinphos (phosdrin) (Organophosphorus Pesticides)	NIOSH 5600	0.01	240	1000	4	GC-FPD	**ST** 226-58
Mexacarbate	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
MIBK	*see methyl isobutyl ketone*						
MIC (methyl isocyanate)	OSHA 54	0.02	15	50	5	HPLC-FD	**ST** ask Analyt-MTC
Mica (see Respirable dust)	OSHA ID 142 (v4)						
Mineral spirits (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	3 / 1	20 / 200	2.5 / 5	GC-FID	**ST** 226-01-50_
Methyl tin mercaptide (MTM)	OSHA ID 219SG	0.1 mg/m³	150	1000	150 mins	AA, GF	**IMP** 225-36-1 **TH** 225-20-01
Mineral wool fiber (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Mineral wool fiber (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Mirex	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Mold spores (in air)			– / 15–150	– / 15000	– / 1–10 min	varies	**STC** 225-9820

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Molybdenum (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		1–330	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Molybdenum (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	5 mg/m³ (soluble) 10 mg/m³ (insoluble)	5–67	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Molybdenum (Elements by ICP HNO_3 Digestion)	NIOSH 7303	5 mg/m³ (soluble) 10 mg/m³ (insoluble)	0.5–10 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Molybdenum (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	5 mg/m³ (soluble) 10 mg/m³ (insoluble)	6–67	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Molybdenum (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Molybdenum insolubles (as Mo)	OSHA ID 125G	15 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Molybdenum insolubles (as Mo) (respirable fraction)	OSHA ID 121	15 mg/m³ (total dust)	960	2000	8	GR & AA or GR & AES	**F/CST** 225-3-01 **CYC** 225-105 **C/HLD** 225-1
Molybdenum solubles (as Mo)	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Monochloroacetic acid (chloroacetic acid)	NIOSH 2008		48	100	8	IC-CD	**ST** 226-47-01
Monochlorotoluene (1-chloro-2-methyl benzene; OXSOL 10)	Internal			13.0 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Monochlorotoluene (1-chloro-2-methyl benzene; OXSOL 10)	Internal			13.0 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Monocrotophos (Azodrin)	OSHA PV2045		480	1000	8	GC-FPD	**ST** 226-30-16
Monocrotophos (Organophosphorus Pesticides)	NIOSH 5600	0.25 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Monoethanolamine (2-aminoethanol)	NIOSH 3509	3 / 6	240	1000	4	IC	**IMP** 225-36-1 **IT** 225-22
Monoethanolamine	*see 2-aminoethanol*						
Monomethyl aniline	NIOSH 3511	0.5	100	1000	100 min	GC-FID	**IMP** 225-36-2 **IT** 225-22
Monomethyl hydrazine	NIOSH 3510	– / 0.04 (120 min)	– / 15	– / 1000	– / 15	VAS	**IMP** 225-36-2 **IT** 225-22
Monomethyl hydrazine	OSHA 20	– / 0.2	– / 4.5	– / 300	– / 15	HPLC-UV	**ST** 226-42-02
Monuron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Morpholine	OSHA PV2123	20	10	100	100 min	GC-FID	**ST** 226-98
Mycobacteria	NIOSH 0801		50–300	28 300	varies	GC-FID	**BI** 225-9611
Mycobacterium tuberculosis (airborne)	NIOSH 0900		1920	4000	8	PCR	**FLT** 225-17-32 **CST** 225-3LF **SP** 225-27 **C/HLD** 225-1
Mycotoxins (fungi in air)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A

N

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Naphtha (coal tar)	NIOSH 1550	100	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Naphtha (coal tar)	OSHA 48	100	3	200	15 min	GC-FID	**ST** 226-01-50_
Naphthalene	OSHA 35	10	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-110
Naphthalene (Naphthene, naphthalin) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Naphthalene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Naphthalene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Naphthalene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506	10 / 15	480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
1,5-Naphthalene diisocyanate	OSHA PV2046		60	1000	1	HPLC-UV-FD	**CF/CST** 225-9013 **C/HLD** 225-1
1,5-Naphthalene diisocyanate (isocyanates, total)	NIOSH 5525	40 µg/m³ / 70 µg/m³ (10 min) C	1–500 / 1–500	1000–2000 / 1000–2000	varies / varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
Naphthas (see specific compounds)	NIOSH 1550	varies	varies	varies	8	GC-FID	**ST** 226-01-50_
alpha-Naphthylamine	OSHA 93		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
beta-Naphthylamine	OSHA 93		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
Naphthylamines (alpha- & beta-)	NIOSH 5518		96	200	8	GC-FID	**FLT** 225-16 **ST** 226-51 **CST** 225-32
Naphthylene diisocyanate (NDI) (isocyanates)	NIOSH 5521	40 µg/m³ / 70 µg/m³ (10 min) C	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Naphthylthiourea	*see ANTU*						
Nickel (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.015 mg/m³	2–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Nickel (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.015 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Nickel (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.012 mg/m³	1–50000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Nickel (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.15 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Nickel (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Nickel (metal & insoluble compounds as Ni)	OSHA ID 125G	1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Nickel (metal, soluble, & insoluble compounds as Ni)	OSHA ID 121	1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Nickel (soluble compounds as Ni)	OSHA ID 121	1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Nickel (soluble compounds as Ni)	OSHA ID 125G	1 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Nickel carbonyl	NIOSH 6007	0.001	72	150	8	AA-GF	**ST** ask Analyt-MTC **F/CST** 225-3-01
Nicotine	NIOSH 2544	0.5 mg/m³	360	1000	6	GC-NPD	**ST** 226-30-04
Nicotine	NIOSH 2551	0.5 mg/m³	480	1000	8	GC-NPD	**ST** 226-93
Nicotine	NON 19		120	1000	2	GC	**ST** 226-93
Nicotine	NON 49		90–720	1500	1–8	GC-NSD	**ST** 226-170
Nicotine & 3-ethenylpyridine	ASTM D 5075		varies	1500	varies	GC-NPD	**ST** 226-93
Niobium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.012 mg/m³	0.1–3300	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Nitric acid	NIOSH 7907	2 / 4	600 / 30	2000 / 2000	5 / 15	IC-CD	**CF/CST** 225-9032 **C/HLD** 225-1
Nitric acid	OSHA ID 165SG	2	96 / 7.5	200 / 500	8 / 15	IC	**ST** 226-10-03
Nitric oxide	NON 59	25	3–24	100	4	IC	**ST** 226-40A
p-Nitroaniline	NIOSH 5033	3 mg/m³	240	1000	4	HPLC-UV	**F/CST** 225-3-01 **C/HLD** 225-1
Nitrobenzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Nitrobenzene	NIOSH 2005	1	48	100	8	GC-FID	**ST** 226-10
Nitrobenzene	NIOSH 2017	1	24	200	2	GC-FID	**CF/CST** 225-9004 **ST** 226-15
p-Nitrochlorobenzene (nitrobenzenes)	NIOSH 2005	0.1	96	200	8	GC-FID	**ST** 226-10
Nitrochloroform	NON 51	0.1	144	100	24	GC-MSD	**ST** 226-175
Nitrochloromethane	NON 51	0.1	144	100	24	GC-MSD	**ST** 226-175
4-Nitrodiphenyl	OSHA PV2082		240	500	8	GC-FID	**ST** 226-30-16
Nitroethane	NIOSH 2526	100	2.4	20	2	GC-FID	**ST** 226-3002A
Nitrofurazone	OSHA PV2069		240	1000	4	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Nitrogen dioxide	NIOSH 6014	– / 1 (NO_2)	1.5–6	25–200	varies	VAS	**ST** 226-40-02
Nitrogen dioxide	OSHA ID 182	– / 5 (C)	– / 3	– / 200	– / 15	IC	**ST** 226-40-02
Nitroglycerin	NIOSH 2507	– / 0.1 mg/m³	– / 3	– / 200	– / 15	GC-ECD	**ST** 226-35-03
Nitroglycerin	OSHA 43	– / 0.1 mg/m³	– / 15	– / 1000	– / 15	HPLC	**ST** 226-35-03
Nitromethane	NIOSH 2527		2.4	20	2	GC-NSD	**ST** 226-111A
1-Nitropropane	OSHA 46	25	3	100	30 min	GC-FID	**ST** 226-93
2-Nitropropane	NIOSH 2528	LFC	2	20	1.5	GC-FID	**ST** 226-110
2-Nitropropane	OSHA 46	25	3	100	30 min	GC-FID	**ST** 226-93
1-Nitropyrene in diesel particulates	NIOSH 2560		480–960	1000–2000	varies	GC-NCD	**FLT** 225-7 **SP** 225-27
N-Nitrosodiethanolamine	OSHA 31		480	2000	4	GC-TEA	**F/CST** 225-706 **C/HLD** 225-1
N-Nitrosodiphenylamine	OSHA 23		240	1000	4	HPLC-UV	**IMP** 225-36-2 **IT** 225-22
m-Nitrotoluene (nitroaromatic compounds)	NIOSH 2005	2 ppm	96	200	8	GC-FID	**ST** 226-10
o-Nitrotoluene (nitroaromatic compounds)	NIOSH 2005	2 ppm	96	200	8	GC-FID	**ST** 226-10
p-Nitrotoluene (nitroaromatic compounds)	NIOSH 2005	2 ppm	96	200	8	GC-FID	**ST** 226-10
Nitrotoluene (nitrobenzenes)	NIOSH 2005	2 ppm	96	200	8	GC-FID	**ST** 226-10
Nitrous oxide	NIOSH 6600	25	3	100–4000	varies	P IR	**SB** 231-05

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
trans-Nonachlor	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Nonane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Nonane	Internal			10.6 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Nonane	Internal			10.6 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Nonane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	200	4	10–200	varies	GC-FID	**ST** 226-01-50_
Nonpolar organic compounds	NON 38	varies	varies		varies	GC	**PUF** 226-129
Norethindrone	OSHA PV2070		480	2000	4	HPLC-UV	**F/CST** 225-802 **C/HLD** 225-1
Nuisance dust (Particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Nuisance dust	*see dust, respirable nuisance*						

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
n-Octane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Octane	Internal			12.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
n-Octane	Internal			12.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Octane	OSHA 5000	500	12	50	4	GC-FID	**ST** 226-01-50_
n-Octane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	75 / 385	4 / 4	0–200 / 0–200	varies / varies	GC-FID	**ST** 226-01-50_
1-Octanethiol	NIOSH 2510	– / 0.5 (15 min)	– / 3	– / 200	– / 15	GC-FPDS	**ST** 226-35-03
Octanol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Octyl alcohol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
di-n-Octyl phthalate (DNOP)	OSHA 104		240	1000	4	GC-FID	**ST** 226-56
Oil mist (mineral)	NIOSH 5026	5 mg/m³ / 10 mg/m³	480 / 30	1000 / 2000	8 / 15	IR	**F/CST** 225-3-01 *or* **F/CST** 225-802 **C/HLD** 225-1
Oil mist (mineral)	OSHA ID 178SG	5 mg/m³	960	2000	8	GR & IR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Oil mist (total aerosol)	NON 46	5 mg/m³	varies	2000	varies	GR	**IOM** 225-70A **FLT** 225-5-25
Oil mist (vegetable)	*see Particulates Not Otherwise Regulated, total and respirable*						
Organic vapors (charcoal tube method)	ASTM D 3686		varies / varies	varies / varies	varies / varies	GC	**ST** 226-01-50_
Organic vapors (diffusive sampler method)	ASTM D 4597		varies / varies	varies / varies	varies / varies	GC	**PS** 575-001 *or* **PS** 575-002
Organonitrogen pesticides (see specific compounds)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Organophosphorus pesticides (see specific compounds)	NIOSH 5600	varies	varies	varies	8	GC-FPD	**ST** 226-58
Organotin compounds as Sn (see specific compounds)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-709

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Organotin compounds as Sn (see specific compounds)	NIOSH 5526	0.1 mg/m³	15–75	250–1000	0.25–5	GC-FPD	**ST** 226-30-16
Oxalic acid	OSHA PV2115	1 mg/m³	100	1000	100 min	IC	**FLT** 225-701 **C/HLD** 225-1 **CST** 225-3LF
Oxamyl (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Oxychlordane	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Ozone	OSHA ID 214	0.1	90–120 / 22.5	250–500 / 1500	180 min at 500 mL/min 480 min at 250 mL/min	IC	**CF/CST** 225-9014

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
PAHs (Polynuclear Aromatic Hydrocarbons by GC, see specific compounds)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
PAHs (Polynuclear Aromatic Hydrocarbons by GC-MS, see specific compounds)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
PAHs (Polynuclear Aromatic Hydrocarbons by HPLC, see specific compounds)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Palladium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		0.1–3300	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Paper fiber (cellulose) (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Paper fiber (cellulose) (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Paraffin wax fume	OSHA PV2047		100	1000	100 min	GC-FID	**F/CST** 225-706 **C/HLD** 225-1
Paraquat	NIOSH 5003	0.1 mg/m³	480	1000	8	HPLC-UV	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Parathion	OSHA 62	0.1 mg/m³	480	1000	8	GC-FPD	**ST** 226-30-16
Parathion (Organophosphorus Pesticides)	NIOSH 5600	0.05 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Particulates not otherwise regulated (total dust)	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**FLT** 225-802 **C/HLD** 225-1
Particulates not otherwise regulated, respirable	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Particulates not otherwise regulated, respirable fraction	OSHA PV2121	5 mg/m³	varies	varies	varies	GR	**FLT** 225-803 **CYC** 225-105 **C/HLD** 225-1
Particulates, inorganic (bioaerosols)			– / 15–150	– / 15000	– / 1–10 min	varies	**STC** 225-9820
Particulates, respirable	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Particulates, total (see specific compounds)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Particulates, total (see specific compounds)	NIOSH 0501		120	2000	1	GR	**AC** 225-8516GLA **CST** 225-2LF **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
PCBs (42 % Cl) (see polychlorobiphenyls)	NIOSH 5503						
PCBs (54 % Cl) (see polychlorobiphenyls)	NIOSH 5503						
PCBs (polychlorinated biphenyls)	EPA TO-4A			200–280 L/min	24 hrs	varies	**PUF** 226-131 **FLT** 225-1808
Pentachlorobenzene	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Pentachlorobenzene (polychlorobenzenes)	NIOSH 5517		3–12	10–200	varies	GC-ECD	**FLT** ask Analyt-MTC †† **ST** 226-30-04 **CST** ask Analyt-MTC ††
Pentachlorophenol	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Pentachlorophenol	NIOSH 5512	0.5 mg/m³	480	1000	8	HPLC-UV	**CST** 225-3LF **IMP** 225-36-2 **FLT** 225-5 **SCN** 225-26 **IT** 225-22
Pentachlorophenol	OSHA 39	0.5 mg/m³	48	200	4	HPLC-UV	**ST** 226-97
Pentaerythritol (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Pentaerythritol (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Pentamidine isethionate	NIOSH 5032		960	2000	8	HPLC-FD	**CST** 225-4 **C/HLD** 225-1 **FLT** 225-5-37-P
n-Pentane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Pentane	Internal			14.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
n-Pentane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	120 / 610	4 / 4	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
2,3-Pentanedione	OSHA 1016	0.5	10 / 3	50 / 200	200 (min) / 15	GC-FID	**ST** 226-183
2-Pentanone (Ketones I)	NIOSH 2555		1–10	10–200	varies	GC-FID	**ST** ask Analyt-MTC
2-Pentanone (methyl propyl ketone)	NIOSH 1300	150	10	200	50 (min) / 15	GC-FID	**ST** 226-01-50_
2-Pentanone (methyl propyl ketone) (Ketones I)	NIOSH 1300	150	10	20(50)	8(3.3)	GC-FID	**ST** 226-01-50_
Peracetic acid and Hydrogen peroxide	NON 57		– / 15	– / 1000 π	– / 15	MAS/HPLC-UV	**CF/CST** 225-9030 **ST** 226-193-UC *or* **ST** 226-199-UC
Peracetic acid	OSHA PV2321	– / 0.4	– / 15	– / 1000	– / 15	GC-FID	**CF/CST** 225-9037 **IMP** ask Analyt-MTC
Perchloric acid	OSHA ID 115SG		120	500	4	CLR	**IMP** 225-36-2 **IT** 225-22
Perchloroethylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Perchloroethylene	Indoor			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Perchloroethylene	Internal			0.55 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
Perchloroethylene	Internal			13.1 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Perchloroethylene (tetrachloroethylene)	OSHA 1001	100 / 200 (C)		13.06	8 / 5	GC-FID	**PS** 575-002
Perchloroethylene (tetrachloroethylene)	OSHA 1001	100 / 200 (C)	12 / 0.75	50 / 50	4 / 5	GC-FID	**ST** 226-01-50_
Perchloroethylene (tetrachloroethylene) (hydrocarbons, halogenated)	NIOSH 1003	LFC	3	10–200	varies	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Perchloroethylene (tetrachloroethylene) (portable GC)	NIOSH 3704	LFC	1	20–5000	varies	P GC	**SB** 232-01 *or* **SB** 249-01-PP *with* **PT** ask Analyt-MTC *with* **SBLK** ask Analyt-MTC
Perlite (< 1 % Quartz)	*see Particulates Not Otherwise Regulated, total and respirable*						
cis-Permethrin	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
trans-Permethrin	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Peroxyacetic acid (peracetic acid) & Hydrogen peroxide	NON 57		– / 15	– / 1000 π	– / 15	MAS/HPLC-UV	**CF/CST** 225-9030 **ST** 226-193-UC *or* **ST** 226-199-UC
Pesticides	EPA IP-8			1–5 L/min	4–24 hrs	GC-ECD	**PUF** 226-92 *or* **PUF** 226-124
Pesticides	EPA TO-10A			1–5 L/min	4–24 hrs	GC-ECD	**PUF** 226-92 *or* **PUF** 226-124
Pesticides, carbamate	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Pesticides, organochlorine	ASTM D 4861		240–7200	1000–5000	4–24	varies	**PUF** 226-92 *or* **PUF** 226-124
Pesticides, organochlorine	EPA TO-4A			200–280 L/min	24 hrs	varies	**PUF** 226-131 **FLT** 225-1808
Pesticides, organonitrogen (see specific compounds)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Pesticides, organophosphorus	ASTM D 4861		240–7200	1000–5000	4–24	varies	**PUF** 226-92 *or* **PUF** 226-124
Pesticides, pyrethrin	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Pesticides, triazine	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV or GC-ECD	**PUF** 226-92
Petroleum distillate (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	3.6 / 1.5	20 / 100	3 / 15	GC-FID	**ST** 226-01-50_
Petroleum distillate fractions (PDF)	OSHA 48	500	3	200	15 min	GC-FID	**ST** 226-01-50_
Petroleum ether (benzin) (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	3 / 1.5	20(50) / 100	2.5(1) / 15	GC-FID	**ST** 226-01-50_
Petroleum naphtha (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	3 / 1.5	20(50) / 100	2.5(1) / 15	GC-FID	**ST** 226-01-50_
Phenanthrene	OSHA 58		960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Phenanthrene (Phenanthracene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Phenanthrene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Phenanthrene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Phenanthrene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Phenol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Phenol	EPA TO-8		< 80 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Phenol	OSHA 32	5	24	100	4	HPLC-UV	**ST** 226-95
Phenol (cresols)	NIOSH 2546	5 / 15.6 (15 min)	24 / 3	100 / 200	4 / 15	GC-FID	**ST** 226-95
Phenolics (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Phenothiazine	OSHA PV2048		100	1000	1	GC-NPD	**F/CST** 225-706 **C/HLD** 225-1
Phenyl ether	NIOSH 1617	1	48	100	8	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Phenyl ether	OSHA PV2022	1	20	200	100 min	GC-FID	**ST** 226-95
Phenyl ether-biphenyl mix	NIOSH 2013	1	24	50	8	GC-FID	**ST** 226-10
Phenyl glycidyl ether	NIOSH 1619	– / 1 (15 min)	– / 80	– / 1000	– / 80	GC-FID	**ST** 226-01-50_
Phenyl hydrazine	NIOSH 3518	– / 0.14 (120 min)	– / 120	– / 1000	– / 120	VAS	**IMP** 225-36-2 **IT** 225-22
Phenyl mercaptan	OSHA PV2075		20	200	100 min	GC-FID	**CF/CST** 225-9007 **C/HLD** 225-1
N-Phenyl-1-naphthylamine	OSHA 96		240	2000	4	HPLC-FD	**FLT** 225-703 ‡ **C/HLD** 225-1 **CST** 225-3-23
N-Phenyl-2-naphthylamine	OSHA 96		240	1000	4	HPLC-FD	**FLT** 225-703 ‡ **C/HLD** 225-1 **CST** 225-3-23
m-Phenylenediamine	OSHA 87		100	1000	100 min	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
o-Phenylenediamine	OSHA 87		100	1000	100 min	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
p-Phenylenediamine	OSHA 87	0.1 mg/m³	100	1000	100 min	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
o-Phenylphenol	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Phorate	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Phorate (Organophosphorus Pesticides)	NIOSH 5600	0.05 mg/m³ / 0.2 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Phosdrin (mevinphos) (Organophosphorus Pesticides)	NIOSH 5600	0.01 / 0.03	120 / 15	1000 / 1000	2 / 15	GC-FPD	**ST** 226-58
Phosgene	EPA TO-6		< 50 L	100–1000 mL/min		HPLC-UV	**IMP** 225-36-1 **IT** 225-22
Phosgene	OSHA 61	0.1	240	1000	4	GC-NPD	**ST** 226-117
Phosgene & chloroformates	NON 40		24	50	8	GC-FPD	**ST** 226-153
Phosphine	NIOSH 6002	0.3 / 1	12 / 3	100 / 200	8 / 15	UV-VIS	**ST** 226-165A ††
Phosphine	OSHA 1003	0.3	240 / 30	1000 / 2000	4 / 15	ICP-AES	**CF/CST** 225-9018 †† **C/HLD** 225-1
Phosphoric acid	NIOSH 7908	1 mg/m³ / 3 mg/m³	960 / 30	2000 / 2000	8 / 15	IC-CD	**CF/CST** 225-9033 **C/HLD** 225-1
Phosphoric acid	OSHA ID 111	1 mg/m³	960 / 30	2000 / 2000	8 / 15	IC	**F/CST** 225-3-01 **C/HLD** 225-1
Phosphoric acid	OSHA ID 165SG	1 mg/m³	960 / 30	2000 / 2000	8 / 15	IC	**ST** 226-10-03
Phosphorous (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.1 mg/m³	250–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Phosphorus	NIOSH 7905	0.1 mg/m³	12	200	1	GC-FPD	**ST** 226-35-03
Phosphorus (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.1 mg/m³	9–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Phosphorus (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.1 mg/m³	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Phosphorus (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.1 mg/m³	25–200	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Phosphorus (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Phosphorus pentasulfide	OSHA ID 128SG	1 mg/m³	960 / 30	2000 / 2000	8 / 15	IC	**F/CST** 225-802 **C/HLD** 225-1
Phosphorus pentoxide	OSHA ID 111		480	1000	8	IC	**F/CST** 225-3-01 **C/HLD** 225-1
Phosphorus trichloride	NIOSH 6402	0.2 / 0.5	24	200	2	VAS	**IMP** 225-36-2 **IT** 225-22
Phthalates	*see specific compounds*						
Phthalic anhydride	OSHA 90	2	75	1000	1.25	HPLC-UV	**CF/CST** 225-9034 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Picloram (tordon) (total dust)	OSHA PV2049	15 mg/m³	60	1000	1	GR	**F/CST** 225-803 **C/HLD** 225-1
Picloram (tordon) (respirable dust)	OSHA PV2049	5 mg/m³	varies	varies	varies	GR	**FLT** 225-706 **CYC** 225-105 **C/HLD** 225-1
alpha-Pinene	Internal			11.3 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
alpha-Pinene	Internal			11.3 mL/min	8–24 hrs	SE, GC	**PS** 690-105
alpha-Pinene (terpenes)	NIOSH 1552		24	50	8	GC-FID	**ST** 226-01-50_
beta-Pinene (terpenes)	NIOSH 1552		24	50	8	GC-FID	**ST** 226-01-50_
Piperonyl butoxide	OSHA PV2110		30	1000	30 min	HPLC-UV	**ST** 226-30-16
Pirimiphos methyl	OSHA PV2071		120	1000	2	GC-ECD	**ST** 226-30-16
Plaster of Paris (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Plaster of Paris (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Platinum	OSHA ID 130SG		90	1000	1.5	AA	**F/CST** 225-3-01 **C/HLD** 225-1
Platinum (Elements by ICP HNO_3 Digestion)	NIOSH 7303		200–25 000 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Platinum (as Pt), metal	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Platinum (as Pt), soluble salts	OSHA ID 121	2 µg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
PM2.5	EPA IP-10A			9 L/min	24 hrs	GR	**CI** 225-370 **FLT** 225-1709 **FLT** 225-17-21
PM2.5	EPA IP-10A			10 L/min	24 hrs	GR	**PEM** 761-203B **FLT** 225-1709
PNAs (Polynuclear Aromatic Hydrocarbons by GC, see specific compounds)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
PNAs by HPLC (see specific compounds)	NIOSH 5506		480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
PNAs selected	OSHA 58		960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Pollen (in air)			– / 15–150	– / 15 000	– / 1–10 min	varies	**STC** 225-9820
Pollen (in air)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A ◊136
Polychlorinated biphenyls	ASTM D 4861		240–7200	1000–5000	4–24	varies	**PUF** 226-92 *or* **PUF** 226-124
Polychlorinated biphenyls	NIOSH 5503	0.001 mg/m³ (10 hrs)	48	100(200)	8(4)	GC-ECD	**FLT** 225-16 **ST** 226-39 **CST** 225-32
Polychlorobenzenes (see specific compounds)	NIOSH 5517	varies	varies	varies	8	GC-ECD	**FLT** ask Analyt-MTC †† **CST** ask Analyt-MTC †† **ST** 226-30-04 **C/HLD** 225-1
Polychlorobiphenyls (42 % Cl)	NIOSH 5503	0.001 mg/m³ (10 hrs)	1 L(@0.5 mg/m³)–200 50	varies	varies	GC-ECD	**FLT** 225-16 **ST** 226-39 **CST** 225-32
Polychlorobiphenyls (54 % Cl)	NIOSH 5503	0.001 mg/m³ (10 hrs)	1 L(@0.5 mg/m³)–200 50	varies	varies	GC-ECD	**FLT** 225-16 **ST** 226-39 **CST** 225-32

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Polycyclic aromatic compounds (PACs), total	NIOSH 5800		960 / 30	2000 / 2000	8 / 15	FLUOR	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Polycyclic aromatic hydrocarbons (PAHs)	EPA IP-7		30 000 L	20 L/min		GC-FID, -MS, HPLC	**PUF** 226-131 **FLT** 225-1808
Polycyclic aromatic hydrocarbons (PAHs)	EPA TO-13A			220 L/min	24 hrs	GC-MS	**PUF** 226-131 **FLT** 225-1808
Polynuclear aromatic hydrocarbons (polynuclear aromatic hydrocarbons by GC, see specific compounds)	NIOSH 5515	varies	480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Polynuclear aromatic hydrocarbons (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209	varies	350 m³ (max)	225 L/min	4–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Polynuclear aromatic hydrocarbons by HPLC (see specific compounds)	NIOSH 5506	varies	480	2000	4	HPLC-UV	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Portland cement (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Portland cement (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Portland cement (respirable dust) (see respirable dust)	OSHA ID 142 (v4)						
Portland cement (total dust)	OSHA ID 207	15 mg/m³	240	1000	4	XRD	**F/CST** 225-803 **C/HLD** 225-1
Potassium & compounds	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Potassium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Potassium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Potassium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Potassium chromate (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 **C/HLD** 225-1
Potassium cyanide (cyanides)	NIOSH 7904	– / 5 mg/m³ (10 min)	– / 15	– / 1000	– / 15	ISE	**FLT** 225-17-32 Δ **IMP** 225-36-2 **C/HLD** 225-1 **CST** 225-2LF **IT** 225-22
Potassium hydroxide (alkaline dust)	NIOSH 7401		960	2000	8	TITRA	**F/CST** 225-1715 **C/HLD** 225-1
Potassium hydroxide (as K)	OSHA ID 121		– / 10	– / 2000	– / 5	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Progesterone	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Propane	OSHA PV2077	1000	5	100	50 min	GC-FID	**ST** ask Analyt-MTC
1,2,3-Propanetriol trinitrate	OSHA 43		15	1000	15 min	HPLC-UV	**ST** 226-35-03
n-Propanol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Propargyl alcohol	OSHA 97		6	50	2	GC-ECD	**ST** 226-178
Propazine	ASTM D 4861		240–7200	1000–5000	4–24	GC-NPD	**PUF** 226-92
Propham (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Propionaldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 *or* **ST** 226-119
Propionaldehyde (Aldehydes, Screening)	NIOSH 2539		5	20	4	GC-FID & GC-MS	**ST** 226-118
Propionic acid	OSHA PV2293		18	2000	90 min	IC	**ST** 226-15
Propionitrile	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Propoxur (Baygon)	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Propoxur (Baygon)	OSHA PV2007		60	1000	1	HPLC-UV	**ST** 226-30-16
Propoxur (Organonitrogen Pesticides)	NIOSH 5601	0.5 mg/m³	240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
n-Propyl acetate	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Propyl acetate (Esters I)	NIOSH 1450	200 / 250	1–10 / 1–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
Propyl alcohol	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Propyl alcohol	OSHA 5001	200	12	4		GC-FID	**ST** 226-82
n-Propyl alcohol (alcohols combined)	NIOSH 1405	200 / 250 (skin)	1–10 / 1–10	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
n-Propyl alcohol (alcohols II)	NIOSH 1401	200 / 250	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
n-Propyl benzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Propylene dichloride (1,2-dichloro propane)	NIOSH 1013	LFC	3	20	2.5	GC-ECN	**ST** 226-81A
Propylene glycol	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Propylene glycol	OSHA PV2051		60 / 15	1000 / 1000	1 / 15	GC-FID	**ST** 226-57
Propylene glycol monomethyl ether (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Propylene glycol monomethyl ether acetate (glycol ethers)	NIOSH 2554		3–25	100–200	varies	GC-FID	**ST** 226-81A
Propylene oxide (1, 2-epoxypropane)	NIOSH 1612	LFC	5	20	4.2	GC-FID	**ST** 226-01-50_
Propylene oxide (1, 2-epoxypropane)	OSHA 88	100	5 / 5	100 / 1000	50 min / 5	GC-FID	**ST** 226-81A
Pyrene	OSHA 58		960	2000	8	GR & HPLC-FD, or GR & HPLC-UV	**FLT** 225-7 **C/HLD** 225-1 **CST** 225-2LF
Pyrene (benzo[def]phenanthrene) (Polynuclear Aromatic Hydrocarbons by GC-MS-SIM)	NIOSH 5528	0.1 mg/m³ (cyclohexane soluble fraction)	1–480	1000	1 min–8 hrs	GC-MS-SIM	**ST** 226-57
Pyrene (Polynuclear Aromatic Hydrocarbons by GC-MS)	ASTM D 6209		350 m³ (max)	225 L/min	1–24	GC-MS	**PUF** 226-131 **FLT** 225-1808
Pyrene (Polynuclear Aromatic Hydrocarbons by GC)	NIOSH 5515		480	2000	4	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Pyrene (Polynuclear Aromatic Hydrocarbons by HPLC)	NIOSH 5506		480	2000	4	HPLC-FD	**F/CST** 225-1713 **C/HLD** 225-1 **ST** 226-30-04
Pyrethrin pesticides (see specific compounds)	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Pyrethrum	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Pyrethrum	NIOSH 5008	5 mg/m³	100	1000	2	HPLC-UV	**F/CST** 225-709 **SP** 225-27 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Pyrethrum	OSHA 70	5 mg/m³	60	1000	1	GC-ECD	**ST** 226-30-16
Pyridine	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Pyridine	NIOSH 1613	5	48	100	8	GC-FID	**ST** 226-01-50_
Pyridine	OSHA PV2295	5	10	100	100 min	GC-FID	**ST** 226-95

Q

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Quartz (respirable) in coal dust, (silica in coal mine dust)	NIOSH 7603	0.05 mg/m³	300–1000	2000–4000	varies	IR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-309
Quartz (see silica, respirable crystalline)	OSHA ID 142 (v4)						
Quartz (silica, crystalline [respirable]) by XRD	NIOSH 7500	0.05 mg/m³	400–1000	2500	varies	XRD	**F/CST** 225-803 **C/HLD** 225-1 **CYC** 225-01-02
Quartz (silica, crystalline by IR)	NIOSH 7602	0.05 mg/m³	1000	2000–4000	varies	IR	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1

R

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Radon progeny (on dust, in mines)	NON 56		5	2000	5 min	DRI	**FLT** 225-702 **CST** 225-1107
Resmethrin	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Resmethrin	OSHA PV2052		60	1000	1	HPLC-UV	**ST** 226-30-16
Resorcinol	NIOSH 5701	10	120	500	4	GC-FID	**ST** 226-57
Respirable Dust using Aluminum Cyclone	OSHA ID 142 (v4)	50 µg/m³	1200	2500	8	GR & XRD	**FLT** 225-5-37-P **C/HLD** 225-1 **CST** 225-3050LF **CYC** 225-01-02
Respirable Dust using GS-3 Cyclone	OSHA ID 142 (v4)	50 µg/m³	1320	2750	8	GR & XRD	**FLT** 225-5-37-P **C/HLD** 225-1 **CST** 225-3050LF **CYC** 225-100
Respirable Dust using PPI Samplers	OSHA ID 142 (v4)	50 µg/m³	960	2000	8	GR & XRD	**FLT** 225-5-37-P **PPI** 225-385
Rhodamine B	OSHA PV2072		240	1000	4	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Ribavirin	NIOSH 5027		480	1000	8	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Ronnel	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
Ronnel	OSHA PV2054	15 mg/m³	60	1000	1	GC-FPD	**ST** 226-30-16
Ronnel (Organophosphorus Pesticides)	NIOSH 5600	10 mg/m³	60	1000	1	GC-FPD	**ST** 226-58
Rotenone	NIOSH 5007	5 mg/m³	120	1000	2	HPLC-UV	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-4

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Rouge (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Rouge (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Rubber solvent (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	10 / 1.5	20(50) / 100	8(3.3) / 15	GC-FID	**ST** 226-01-50_

S

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Safrotin	OSHA PV2050		60	1000	1	GC-ECD	**F/CST** 225-709 **C/HLD** 225-1
Scopolamine methyl nitrate	OSHA PV2144		120	1000	2	HPLC-UV	**F/CST** 225-709 *or* **F/CST** 225-706 **C/HLD** 225-1
Selenium	OSHA ID 121	0.2 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Selenium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.2 mg/m³	2–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Selenium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.2 mg/m³	13–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Selenium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.2 mg/m³	8–250 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Selenium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.2 mg/m³	13–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Selenium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Sevin	*see carbaryl*						
Silica (quartz) in coal dust (quartz in coal mine dust by IR)	NIOSH 7603	0.05 mg/m³	300–1000	2000–4000	varies	IR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Silica, amorphous (respirable)	NIOSH 7501	6 mg/m³	50–400	2500	varies	XRD	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Silica, crystalline (respirable) by XRD	NIOSH 7500	0.05 mg/m³	400–1000	2500	varies	XRD	**F/CST** 225-803 **C/HLD** 225-1 **CYC** 225-01-02
Silica, crystalline by IR	NIOSH 7602	0.05 mg/m³	1000	2000–4000	varies	IR	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Silica, fused (see silica, respirable crystalline)	OSHA ID 142 (v4)						
Silica, respirable crystalline (as quartz, cristobalite, tridymite) using Aluminum Cyclone	OSHA ID 142 (v4)	50 µg/m³	1200	2500	8	XRD	**FLT** 225-5-37-P **C/HLD** 225-1 **CST** 225-3050LF **CYC** 225-01-02
Silica, respirable crystalline (as quartz, cristobalite, tridymite) using GS-3 Cyclone	OSHA ID 142 (v4)	50 µg/m³	1320	2750	8	XRD	**FLT** 225-5-37-P **C/HLD** 225-1 **CST** 225-3050LF **CYC** 225-100
Silica, respirable crystalline (as quartz, cristobalite, tridymite) using PPI Samplers	OSHA ID 142 (v4)	50 µg/m³	960	2000	8	XRD	**FLT** 225-5-37-P **PPI** 225-385
Silicon (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Silicon (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Silicon carbide (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Silicon carbide (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Silver (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.01 mg/m³	6–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Silver (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		250–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Silver (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.01 mg/m³ (metal, soluble)	250–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Silver (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Silver, metal & soluble compounds (as Ag)	OSHA ID 121	0.01 mg/m³	960	2000	8	AA or AES	**F/CST** 225-508 *or* **F/CST** 225-802 *or* **F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Silver, metal & soluble compounds (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	0.01 mg/m³	960	2000	8	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Simazine	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Simazine	NIOSH 5602		480	1000	8	GC-ECD	**ST** 226-58
Sodium azide	OSHA ID 211		– / 5	– / 1000	– / 5	IC-UV	**ST** 226-55 **CST** 225-2LF **C/HLD** 225-1 **FLT** 225-5-37-P
Sodium bisulfite	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Sodium fluoride (fluorides)	NIOSH 7902	2.5 mg/m³	480 / 30	1000 / 2000	8 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Sodium fluoride (fluorides)	NIOSH 7906	2.5 mg/m³	960 / 30	2000 / 2000	8 / 15	IC-CD	**CF/CST** 225-9031 **C/HLD** 225-1
Sodium hexafluoroaluminate (fluorides)	NIOSH 7902	2.5 mg/m³	480 / 30	1000 / 2000	8 / 15	ISE	**CF/CST** 225-9001 **C/HLD** 225-1
Sodium hexafluoroaluminate (fluorides)	NIOSH 7906	2.5 mg/m³	960	2000	8	IC-CD	**CF/CST** 225-9031 **C/HLD** 225-1
Sodium hydroxide	OSHA ID 121	2 mg/m³	960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Sodium hydroxide (alkaline dust)	NIOSH 7401	– / 2 mg/m³ (15 min)	360	1500	4	TITRA	**F/CST** 225-1715 **C/HLD** 225-1
Sodium metabisulfite	OSHA ID 121	5 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Sodium polyacrylate	*see super absorbent polymer*						
Solanesol (environmental tobacco smoke, respirable particles)	ASTM D 6271		150–3600	2500	1–24	HPLC-UV	**FLT** 225-17-32 **CYC** 225-01-02 **CST** 225-3LF **C/HLD** 225-1
Solder fume (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206		480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Soot (see elemental carbon)	NIOSH 5040					TOA-FID	
Spores (bacterial, fungal) (in air)			– / 15–150	– / 15000	– / 1–10 min	varies	**STC** 225-9820
Spores (bacterial, fungal) (in air)	NON 48		62.5–375	12500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A
Starch (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Starch (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Starch	*see Particulates Not Otherwise Regulated, total and respirable*						
Stoddard solvent	OSHA 48	500	3	200	15 min	GC-FID	**ST** 226-01-50_
Stoddard solvent (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	10 / 1.5	20(50) / 100	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Strontium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Strontium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		10–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Strontium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		300–100 000 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Strontium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.5 mg/m³	10–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Strontium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Strychnine	NIOSH 5016	0.15 mg/m³ (10 hrs)	180	1500	2	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Styrene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Styrene	Internal			13.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Styrene	Internal			13.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Styrene (phenylethylene)	NON 54		10 / 3	20 / 200	8 / 15	GC-FID	**ST** 226-81A
Styrene (phenylethylene)	OSHA 1014	100 / 200 (C)		13.55 / 13.55	8 / 15	HPLC-UV	**PS** 575-006
Styrene (phenylethylene)	OSHA 89	100 / 200 (C)	12 / 0.75	50 / 50	4 / 15	GC-FID	**ST** 226-73
Styrene (phenylethylene) (Hydrocarbons, Aromatic)	NIOSH 1501	50 / 100	1–14 / 1–14	10–1000 / 10–1000	varies / varies	GC-FID	**ST** 226-01-50_
Sucrose (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Sucrose (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Sulfur	*see Particulates Not Otherwise Regulated, total and respirable*						
Sulfur dioxide	NIOSH 6004	2 / 5	180 / 15	1000 / 1000	3 / 15	IC	**CF/CST** 225-9005 **C/HLD** 225-1
Sulfur dioxide	OSHA 1011	5 ppm	12 / 7.5	50 / 500	4 / 15	IC	**CF/CST** 225-9005
Sulfur hexafluoride by portable GC	NIOSH 6602	1000	varies	20–100	varies	P GC-ECD	**SB** 232-03 *or* **SB** 231-03
Sulfur tetrafluoride	OSHA ID 110		– / 5	– / 1000	– / 5	ISE	**IMP** 225-36-2 **IT** 225-22
Sulfuric acid	NIOSH 7908	1 mg/m³	960	2000	8	IC-CD	**CF/CST** 225-9033 **C/HLD** 225-1
Sulfuric acid	NIOSH 7908	0.2 mg/m³ ∑	960	2000	8	IC	**PPI** 225-381 **IS** 225-388 **FLT** 225-1827 **SP** 225-27
Sulfuric acid	OSHA ID 113	1 mg/m³	480	2000	4	IC	**F/CST** 225-3-01 **C/HLD** 225-1
Sulfuric acid	OSHA ID 113	0.2 mg/m³ ∑	480	2000	4	IC	**PPI** 225-381 **IS** 225-388 **FLT** 225-5 **SP** 225-27
Sulfuric acid	OSHA ID 165SG	1 mg/m³	96	200	8	IC	**ST** 226-10-03
Sulfuric acid mist	ASTM D 4856		40	1000	40 min	IC	**F/CST** 225-3-01 **C/HLD** 225-1
Sulfuryl fluoride	NIOSH 6012	5 / 10	1.3–10	50–100	varies	IC-CD	**ST** 226-16

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Sulprofos	OSHA PV2037		240	1000	4	GC-FPD	**ST** 226-30-16
Sulprofos (Organophosphorus Pesticides)	NIOSH 5600	1 mg/m³	240	1000	4	GC-FPD	**ST** 226-58
Super absorbent polymers	NIOSH 5035		960	2000	8	ICP-AES or AA	**F/CST** 225-802 **C/HLD** 225-1
Systox	*see demeton*						

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Talc (containing asbestos) (see asbestos)	OSHA ID 160						
Talc (respirable, no asbestos)	OSHA PV2121	20 mppcf	varies	varies	varies	GR	**CYC** 225-105 **C/HLD** 225-1 **F/CST** 225-803
2,4-TDI (toluene diisocyanate)	ASTM D 5932		15	1000	15	HPLC-UV-FD	**CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,4-TDI (toluene diisocyanate)	NIOSH 5522	LFC	360 / 20	1000 / 2000	6 / 10	HPLC-FD	**IMP** 225-36-1 **IT** 225-22
2,6-TDI (toluene diisocyanate)	ASTM D 5932		15	1000	15	HPLC-UV-FD	**CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,6-TDI (toluene diisocyanate)	NIOSH 5522	LFC	360 / 20	1000 / 2000	6 / 10	HPLC-FD	**IMP** 225-36-1 **IT** 225-22
2,4-TDI (Toluene diisocyanate) (isocyanates)	OR-OSHA 1010	0.02 / 0.005	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
2,6-TDI (Toluene diisocyanate) (isocyanates)	OR-OSHA 1010	0.02 / 0.005	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
2, 4-TDI (toluene diisocyanate) (isocyanates, total)	NIOSH 5525	LFC	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
2, 6-TDI (toluene diisocyanate) (isocyanates, total)	NIOSH 5525	LFC	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
Tellurium	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tellurium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		7–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Tellurium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.1 mg/m³	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Tellurium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.1 mg/m³	125–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tellurium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.1 mg/m³	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tellurium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Temephos (respirable dust)	OSHA PV2056	5 mg/m³	varies	varies	varies	GC-FPD	**F/CST** 225-706 **C/HLD** 225-1
Temephos (total dust)	OSHA PV2056	15 mg/m³	60	1000		HPLC-UV	**F/CST** 225-802 **C/HLD** 225-1
Terbufos (Organophosphorus Pesticides)	NIOSH 5600		240	1000	4	GC-FPD	**ST** 226-58
Terbuthiuron	ASTM D 4861		240–7200	1000–5000	4–24	HPLC-UV	**PUF** 226-92
Terpenes (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Terpenes (see specific compounds)	NIOSH 1552		2–30	10–200	varies	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
o-Terphenyl	NIOSH 5021	– / 0.5	– / 2–30	1000–3000	– / 15	GC-FID	**F/CST** 225-1713 **C/HLD** 225-1
Testosterone	OSHA PV2001		240	1000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
1,1,2,2-Tetrabromoethane	NIOSH 2003		50–100	200–1000	varies	GC-FID	**ST** 226-10
Tetrabutyltin (organotin compounds as Sn)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-709
1,1,2,2-Tetrachloro-1,2-difluoroethane	NIOSH 1016	500	0.5 L (@500 ppm)–2	10–35	varies	GC-FID	**ST** 226-01-50_
1,1,1,2-Tetrachloro-2,2-difluoroethane	NIOSH 1016	500	0.5 L (@500 ppm)–2	10–35	varies	GC-FID	**ST** 226-01-50_
1,2,3,4-Tetrachlorobenzene	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-124
1,2,4,5-Tetrachlorobenzene (polychlorobenzenes)	NIOSH 5517		3–12	10–200	varies	GC-ECD	**FLT** ask Analyt-MTC †† **ST** 226-30-04 **C/HLD** 225-1 **CST** ask Analyt-MTC ††
1,1,1,2-Tetrachloroethane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,1,2,2-Tetrachloroethane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,1,2,2-Tetrachloroethane	Internal			11.8 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
1,1,2,2-Tetrachloroethane	Internal			11.8 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,1,2,2-Tetrachloroethane	NIOSH 1019	1	3–30	10–200	varies	GC-FID	**ST** 226-81A
1,1,2,2-Tetrachloroethane	NIOSH 2562	1	3–30	10–200	varies	GC-FID	**ST** ask Analyt-MTC
Tetrachloroethylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Tetrachloroethylene	Indoor			13.1 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Tetrachloroethylene	Internal			0.55 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
Tetrachloroethylene	Internal			13.1 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Tetrachloroethylene (hydrocarbons, halogenated)	NIOSH 1003	25 / 100 (C)	3	10–200	15 min–5 hrs	GC-FID	**ST** 226-01-50_
Tetrachloroethylene (perchloroethylene)	OSHA 1001	100 / 200 (C)		13.06	8 / 5	GC-FID	**PS** 575-002
Tetrachloroethylene (perchloroethylene)	OSHA 1001	100 / 200 (C)	12 / 0.25	50 / 50	4 / 5	GC-FID	**ST** 226-01-50_
Tetrachloroethylene (perchloroethylene) (portable GC)	NIOSH 3704	LFC	1	20–5000	varies	P GC	**SB** 232-01 *or* **SB** 249-01-PP *with* **PT** ask Analyt-MTC *with* **SBLK** ask Analyt-MTC
2,3,4,6-Tetrachlorophenol	OSHA 45		48	200	4	HPLC-UV	**ST** 226-97
Tetraethyl lead (as Pb)	NIOSH 2533	0.075 mg/m³	30–200	10–1000		GC-PID	**ST** 226-30-04
Tetraethyl pyrophosphate	NIOSH 2504	0.05 mg/m³	20 (@0.05 mg/m³)–49	10–200	varies	GC-FPD	**ST** ask Analyt-MTC
Tetraethyl tin	OSHA 110	0.1 mg/m³	48 / 3	200 / 200	4 / 15	GC-FID	**ST** 226-95
Tetraethylene glycol	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Tetrahydrofuran	Internal			17.7 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Tetrahydrofuran	Internal			17.7 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Tetrahydrofuran	NIOSH 1609	200 / 250	1–9	10–200	varies / 15	GC-FID	**ST** 226-01-50_

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Tetrahydrofurfuryl acrylate	OSHA PV2131		48	200	4	GC-FID	**ST** 226-110
Tetrakis(hydroxymethyl)phosphonium chloride	NIOSH 5046		1–480	1000–1700	varies	HPLC-UV	**CF/CST** 225-9003
Tetramethyl lead (as Pb)	NIOSH 2534	0.075 mg/m³	15–100	10–200		GC-PID	**ST** 226-30-06
Tetramethyl thiouram disulfide	*see thiram*						
Tetramethyl thiourea	NIOSH 3505		50 (@0.3 mg/m³) to 250	200–1000	varies	VAS	**IMP** 225-36-1 **IT** 225-22
Tetramethyl tin	OSHA PV2057	0.1 mg/m³	20	200	100 min	GC-FID	**ST** 226-01-50_
Tetranitromethane	NIOSH 3513	1	20–250	500–1000	varies	GC-NPD	**IMP** 225-36-1 **IT** 225-22
Tetrasodium pyrophosphate	NIOSH 0500	5 mg/m³	7–133	1000–2000	varies	GR & IC	**FLT** 225-8204A **C/HLD** 225-1
Tetrasodium pyrophosphate	OSHA ID 121		960	2000	8	AA or AES	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Thallium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	0.1 mg/m³ (skin, soluble)	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Thallium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.1 mg/m³ (skin)	7–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Thallium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	0.1 mg/m³ (skin, soluble)	35–500 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Thallium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	0.1 mg/m³ (skin, soluble)	25–2000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Thallium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Thallium (soluble compounds) (as Tl)	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Thiobencarb (Organonitrogen Pesticides)	NIOSH 5601		240	1000	4	HPLC-UV	**ST** 226-58 *or* **ST** 226-30-16
Thiophanate-methyl	OSHA PV2058		240	1000	4	HPLC-UV	**F/CST** 225-709 **C/HLD** 225-1
Thiophanate-methyl in air	NIOSH 5606		20–480	100–1000	varies	HPLC-UV	**ST** 226-58
Thiourea	OSHA PV2059		480	2000	4	HPLC-UV	**F/CST** 225-706 **C/HLD** 225-1
Thiram	NIOSH 5005	5 mg/m³	10–400	1000–4000	varies	HPLC-UV	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Tin (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	2 mg/m³	1–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Tin (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	2 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Tin (Elements by ICP HNO_3 Digestion)	NIOSH 7303	2 mg/m³	1–25000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tin (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	2 mg/m³	5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tin (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	2 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tin (inorganic compounds, except oxides) (as Sn)	OSHA ID 121	2 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tin (organic compounds) (as Sn) (organotin compounds)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-706
Tin oxide ((Stannous Oxide) as Sn)	OSHA ID 121	0.1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Titanium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306		Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Titanium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Titanium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		0.1–10 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Titanium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300		5–100	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Titanium dioxide (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Titanium dioxide (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Titanium dioxide (total dust)	OSHA PV2121	15 mg/m³	480–960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
TNT (2,4,6-trinitrotoluene)	OSHA 44	1.5 mg/m³	60	1000	1	GC-TEA-EAP	**ST** 226-56
o-Tolidine	OSHA 71		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
o-Tolidine dyes (dyes, benzidine)	NIOSH 5013	LFC	150 (@0.1 mg/m³)–500	1000–3000	varies	HPLC-UV	**FLT** 225-17P **C/HLD** 225-1 **CST** 225-3LF
m-Tolualdehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
o-Tolualdehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
p-Tolualdehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 ▯ *or* **ST** 226-119
Toluene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Toluene	Internal			14.5 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
Toluene	Internal			0.63 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
Toluene	Internal			14.5 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
Toluene	OSHA 111	200 / 300 (C)	12 / 0.5	50 / 50	4 / 10	GC-FID	**ST** 226-81A **ST** 226-01-50_
Toluene (Hydrocarbons, Aromatic)	NIOSH 1501	100 / 150	1–8 / 1–8	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
2,4-Toluene diisocyanate	ASTM D 5836		15	1000	15	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 **C/HLD** 225-1
2,4-Toluene diisocyanate	ASTM D 5932		15	1000	15	HPLC-UV-FD	**CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,4-Toluene diisocyanate	OSHA 5002	– / 0.02 (C)	240 / 15	1000 / 1000	4 / 15	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,6-Toluene diisocyanate	ASTM D 5836		15	1000	15	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 **C/HLD** 225-1
2,6-Toluene diisocyanate	ASTM D 5932		15	1000	15	HPLC-UV-FD	**CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,6-Toluene diisocyanate	OSHA 5002		240	1000	4	HPLC-UV or HPLC-FD	**CF/CST** 225-9002 *or* **CF/CST** 225-9013 *or* **CF/CST** 225-9022 ▯ **C/HLD** 225-1
2,4-Toluene diisocyanate (isocyanates)	NIOSH 5521	LFC	480 / 10	1000 / 1000	8 / 10	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22
2,4-Toluene diisocyanate (isocyanates)	OR-OSHA 1010	0.02 / 0.005	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
2,6-Toluene diisocyanate (isocyanates)	NIOSH 5521	LFC	480	1000	8	HPLC-ELCHM & HPLC-UV	**IMP** 225-36-1 **IT** 225-22

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
2,6-Toluene diisocyanate (isocyanates)	OR-OSHA 1010	0.02 / 0.005	45 / 5	1000 / 1000	45 min / 5	HPLC	**IMP** 225-36-1 **IT** 225-22
2,4-Toluene diisocyanate (isocyanates, total)	NIOSH 5525	LFC	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
2,6-Toluene diisocyanate (isocyanates, total)	NIOSH 5525	LFC	1–500	1000–2000	varies	HPLC-UV	**FLT** 225-7 ‡ **CST** 225-4 **SP** 225-27 *or* **IOM** 225-76A **FLT** 225-702 ‡
p-Toluene sulfonic acid	NIOSH 5043		10–1000	1000–3000	varies / 15	HPLC-UV	**FLT** 225-16 **CST** 225-32
Toluene-2,4-diamine	OSHA 65		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
2,4-Toluenediamine	NIOSH 5516	LFC	30 (@10 µg/m³)–500	1000	varies	HPLC-UV	**IMP** 225-36-1 **IT** 225-22
2,4-Toluenediamine	OSHA 65		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
2,6-Toluenediamine	NIOSH 5516	LFC	30 (@10 µg/m³)–500	1000	varies	HPLC-UV	**IMP** 225-36-1 **IT** 225-22
2,6-Toluenediamine	OSHA 65		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
m-Toluidine	OSHA 73		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
o-Toluidine	NIOSH 2017	LFC	5–50	200	25 min–4 hrs	GC-FID	**CF/CST** 225-9004 **ST** 226-15
o-Toluidine	OSHA 73	5	100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
p-Toluidine	OSHA 73		100	1000	100 min	GC-ECD	**CF/CST** 225-9004 **C/HLD** 225-1
o-Toluidine (Amines, Aromatic)	NIOSH 2002	LFC	10–150	20–1000	10 min–8 hrs	GC-FID or GC-NSD	**ST** 226-10
Toxaphene	*see chlorinated camphene*						
Tremolite (see asbestos fibers)	NIOSH 7400						
Tremolite fibers (see asbestos)	OSHA ID 160						
Triazine pesticides	ASTM D 4861		960	2000	8	GC-ECD	**PUF** 226-92
Tributyl phosphate	NIOSH 5034	0.2	2 (@0.5 ppm)–100	1000–3000	varies	GC-FPD	**F/CST** 225-3-01 **C/HLD** 225-1
Tributyltin benzoate (tin, organic compounds [as Sn])	OSHA ID 222SG		200	2000	100 min	AA-GF	**F/CST** 225-803 **C/HLD** 225-1
Tributyltin chloride (organotin compounds as Sn)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-709
Tributyltin fluoride (tin, organic compounds [as Sn])	OSHA ID 223SG		200	2000	100 min	AA-GF	**F/CST** 225-803 **C/HLD** 225-1
Tributyltin neodecanoate	*see tin, organic compounds*						
1,1,2-Trichloro-1,2,2-trifluoroethane	OSHA 113	1000	1	50	20 min	GC-FID	**ST** ask Analyt-MTC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NIOSH 1020	1000 / 1250	0.1 (@1000 / ppm)–3	10–50	varies / 15	GC-FID	**ST** 226-01-50_
Trichloroacetic acid	OSHA PV2017		10	200	50	HPLC-UV	**ST** 226-10
1,2,3-Trichlorobenzene	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-124
1,2,3-Trichlorobenzene	OSHA in house file		12	200		GC-ECD	**F/CST** ask Analyt-MTC **C/HLD** 225-1 **ST** 226-30-04
1,2,4-Trichlorobenzene (polychlorobenzenes)	NIOSH 5517	– / 5	3–12	10–200	varies / 15	GC-ECD	**FLT** ask Analyt-MTC †† **ST** 226-30-04 **C/HLD** 225-1 **CST** ask Analyt-MTC ††

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
1,1,2-Trichloroethane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,1,2-Trichloroethane	Internal			12.5 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,1,2-Trichloroethane	OSHA 11	10	10	200	50	GC-FID	**ST** 226-01-50_
1,1,2-Trichloroethane (hydrocarbons, halogenated)	NIOSH 1003	10 (skin)	10	10–200	varies	GC-FID	**ST** 226-01-50_
1,1,1-Trichloroethane (methyl chloroform)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,1,1-Trichloroethane (methyl chloroform)	Internal			14.1 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,1,1-Trichloroethane (methyl chloroform) (hydrocarbons, halogenated)	NIOSH 1003	– / 350	– / 3	– / 10–200	– / varies	GC-FID	**ST** 226-01-50_
Trichloroethylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
Trichloroethylene	Internal			14.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103
Trichloroethylene	Internal			14.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
Trichloroethylene	Internal			0.596 mL/min	24 hrs–7 days	SE, GC	**PS** 690-105 *with* **RR** 690-300
Trichloroethylene	NIOSH 1022	25 / 2 (1 hrs)	1 (@100 ppm)–30	10–200	varies	GC-FID	**ST** 226-01-50_
Trichloroethylene	OSHA 1001	100 / 200 (C)		14.24	8 / 5	GC-FID	**PS** 575-002
Trichloroethylene	OSHA 1001	100 / 200 (C)	12 / 0.75	50 / 50	4 / 5	GC-FID	**ST** 226-01-50_
Trichloroethylene (hydrocarbons, halogenated)	NIOSH 1003		10	10–200	varies	GC-FID	**ST** 226-01-50_
Trichloroethylene by portable GC	NIOSH 3701	25 / 2 (1 hrs)	varies / varies	20–50 / varies	varies / varies	P GC-PID	**SB** 232 Series
Trichlorofluoromethane (fluorotrichloromethane)	NIOSH 1006	1000	– / 0.3–7	10–50	varies	GC-FID	**ST** 226-09-50_
Trichloronitromethane	NON 51	0.1	144	100	24	GC-MSD	**ST** 226-175
2,4,5-Trichlorophenol	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
2,4,5-Trichlorophenoxyacetic acid	*see 2,4,5-T*						
1,2,3-Trichloropropane	Internal			11.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
1,2,3-Trichloropropane	Internal			11.9 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,2,3-Trichloropropane (hydrocarbons, halogenated)	NIOSH 1003	10 (skin)	0.6–60	10–200	varies	GC-FID	**ST** 226-01-50_
Tricyclohexyltin hydroxide (organotin compounds as Sn)	NIOSH 5504	0.1 mg/m³	480	1000	8	HPLC & AA-GF	**ST** 226-30 **C/HLD** 225-1 **F/CST** 225-709
Tridymite (see silica, respirable crystalline)	OSHA ID 142 (v4)						
Tridymite (Silica, Crystalline (respirable) by XRD)	NIOSH 7500	0.05 mg/m³	400–1000	2500	varies	XRD	**F/CST** 225-803 **C/HLD** 225-1 **CYC** 225-01-02
Tridymite (Silica, Crystalline by IR)	NIOSH 7602	0.05 mg/m³	400–1000 (total dust < 4 mg)	2000–4000	varies	IR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-309
Triethanolamine (TEA)	OSHA PV2141		100	1000	100	GC-FID	**F/CST** 225-709 **C/HLD** 225-1
Triethanolamine (TEA) (Aminoethanol Compounds II)	NIOSH 3509		240	1000	4	IC	**IMP** 225-36-1 **IT** 225-22
Triethylamine	OSHA PV2060	25	10–20ψ	100–200	100 min	GC-FID	**ST** 226-98
Triethylene glycol	NIOSH 5523		5–60	500–2000	varies	GC-FID	**ST** 226-57
Triethylenetetramine (TETA)	OSHA 60		10	100	100 min	HPLC-UV	**ST** 226-30-18

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Trifluorobromomethane	NIOSH 1017	1000	0.1 (1000 ppm)–1	10–50	2–100 min	GC-FID	**ST** 226-01-50_ **ST** 226-09-50_
Trifluoromonobromomethane (trifluorobromomethane)	NIOSH 1017	1000	0.1 (1000 ppm)–1	10–50	2–100 min	GC-FID	**ST** 226-01-50_ **ST** 226-09-50_
Trifluralin	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92
1,3,5-triglycidyl isocyanurate (TGIC)	OSHA 1024		180	1000	3	GC-FID	**FLT** 225-7 **SP** 225-27 **CST** 225-2LF **C/HLD** 225-1
1,3,5-triglycidyl-s-triazinetrione	OSHA 1024		180	1000	3	GC-FID	**FLT** 225-7 **SP** 225-27 **CST** 225-2LF **C/HLD** 225-1
Trimellitic anhydride (TMA)	NIOSH 5036	0.005 (10 hrs)	400	1500–2000	3.3–4.4 hrs	GC-FID	**F/CST** 225-802 **C/HLD** 225-1
Trimellitic anhydride (TMA)	OSHA 98		480	2000	4	HPLC-UV	**CF/CST** 225-9010 **C/HLD** 225-1
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	OSHA PV2002		10	100	100 min	GC-FID	**ST** 226-110
Trimethylamine	OSHA PV2060		10–20 ψ	100–200	100 min	GC-FID	**ST** 226-98
1,2,3-Trimethylbenzene	OSHA 1020	25	2.78	11.6	4 / 15	GC-FID	**PS** 575-002
1,2,3-Trimethylbenzene	OSHA 1020	25	12	50	4	GC-FID	**ST** 226-01-50_
1,2,4-Trimethylbenzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,2,4-Trimethylbenzene	Internal			13.0 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
1,2,4-Trimethylbenzene	Internal			13.0 mL/min	8–24 hrs	SE, GC	**PS** 690-105
1,2,4-Trimethylbenzene	OSHA 1020	25	2.81	11.7	4 / 15	GC-FID	**PS** 575-002
1,2,4-Trimethylbenzene	OSHA 1020	25	12	50	4	GC-FID	**ST** 226-01-50_
1,3,5-Trimethylbenzene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
1,3,5-Trimethylbenzene (mesitylene)	OSHA 1020	25	2.9	12.1	4 / 15	GC-FID	**PS** 575-002
1,3,5-Trimethylbenzene (mesitylene)	OSHA 1020	25	12	50	4	GC-FID	**ST** 226-01-50_
Trimethylbenzene	OSHA 5000	25	12	50	4	GC-FID	**ST** 226-01-50_
3,5,5-Trimethylcyclohex-2-enone (isophorone)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
3,5,5-Trimethylcyclohex-2-enone (isophorone)	Internal			11.3 mL/min	0.25–5 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-104
Trimethyltin dichloride	NIOSH 5526	0.1 mg/m³	15–75	250–1000	4 / 60	GC-FPD	**ST** 226-30-16
2,4,7-Trinitrofluoren-9-one	NIOSH 5018		100 (2 µg/m³)–500	1000–3000	varies	HPLC-UV	**FLT** 225-17-04 **C/HLD** 225-1 **CST** 225-3LF
2,4,6-Trinitrotoluene (TNT)	OSHA 44	1.5 mg/m³	60	1000	1	GC-TEA-EAP	**ST** 226-56
Triorthocresyl phosphate	NIOSH 5037	0.1 mg/m³	2 (0.1 mg/m³)–100	1000–3000	varies	GC-FPD	**F/CST** 225-3-01 **C/HLD** 225-1
Triphenyl phosphate	NIOSH 5038	3 mg/m³	10 (3 mg/m³)–400	1000–3000	varies	GC-FPD	**F/CST** 225-3-01 **C/HLD** 225-1
Triphenyl tin chloride (as Sn)	NIOSH 5527	0.1 mg/m³ (skin)	100–2000	1000–4000	varies	HPLC & ICP-AES	**FLT** 225-5-37-P **C/HLD** 225-1
Triphenyltin hydroxide {tin, organic compounds (as Sn)}	OSHA ID 225SG	0.1 mg/m³	200	2000	100 min	AA-GF	**F/CST** 225-709 **C/HLD** 225-1
Tripropylene glycol diacrylate (TPGDA)	NON 39		480	1000	8	GC-FID	**ST** 226-56

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Tuberculosis (mycobacterium tuberculosis), airborne	NIOSH 0900		1920	4000	8	PCR	**FLT** 225-17-32 **CST** 225-3LF **SP** 225-27 **C/HLD** 225-1
Tungsten & compounds (insoluble) (as W)	OSHA ID 213		480 / 30	2000 / 2000	4 / 15	ICP	**F/CST** 225-3-01 **C/HLD** 225-1
Tungsten & compounds (soluble) (as W)	OSHA ID 213		480 / 30	2000 / 2000	4 / 15	ICP	**F/CST** 225-3-01 **C/HLD** 225-1
Tungsten (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	5 mg/m³ / 10 mg/m³	Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Tungsten (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	5 mg/m³ / 10 mg/m³	50–1000 / 50–1000	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Tungsten (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	5 mg/m³ / 10 mg/m³	5–1000 / 5–1000	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Tungsten insoluble	NIOSH 7074	5 mg/m³ / 10 mg/m³	200 (1 mg/m³)–1000	1000–4000	varies	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Tungsten soluble	NIOSH 7074	1 mg/m³ / 3 mg/m³	200 (1 mg/m³)–1000	1000–4000	varies	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Turpentine	NIOSH 1551	100	1 (100 ppm)–10	10–200	varies	GC-FID	**ST** 226-01-50_

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Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
n-Undecane	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
n-Undecane (hydrocarbons, BP 36–216 °C)	NIOSH 1500	2	2	10–50	varies	GC-FID	**ST** 226-01-50_
Uranium (soluble compounds)	OSHA ID 170SG	0.05 mg/m³	240	2000	2	POL	**F/CST** 225-803 **C/HLD** 225-1
Urea pesticides	ASTM D 4861		240–7200	1000–5000	4–24	GC-ECD	**PUF** 226-92

V

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
n-Valeraldehyde	ASTM D 5197		varies	500–1200	5 min–24 hrs	HPLC-UV	**ST** 226-120 *or* **ST** 226-119
n-Valeraldehyde	NIOSH 2536	50	0.5 (50 ppm)–10	10–40	varies	GC-FID	**ST** 226-118
n-Valeraldehyde	OSHA 85		3	50	1	HPLC-UV	**CF/CST** 225-9020 **C/HLD** 225-1
n-Valeraldehyde (Aldehydes, Screening)	NIOSH 2539	50	5	20	4	GC-FID & GC-MS	**ST** 226-118
Vanadium (Elements by ICP HNO_3 Digestion)	NIOSH 7303	– / 0.05 mg/m³	– / 2.5–500 000	– / 1000–4000	– / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Vanadium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	– / 0.05 mg/m³	– / 5–2000	– / 1000–4000	– / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Vanadium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	0.05 mg/m³ C (as pentoxide)	Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Vanadium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	– / 0.05 mg/m³	– / 5–2000	– / 1000–4000	– / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Vanadium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Vanadium fume (as V_2O_5)	OSHA ID 125G	0.05 mg/m³ / 0.1	480 / 20	2000 / 1000	4 / 20	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Vanadium oxides	NIOSH 7504	– / 0.05 mg/m³ (15 min)	200–1000	2.2 (HD cyclone) 1.7 (nylon cyclone)	varies	XRD	**F/CST** 225-803 **CYC** 225-01-02 **C/HLD** 225-1
Vanadium pentoxide (V_2O_5) (see vanadium oxides)	NIOSH 7504						
Vanadium pentoxide (fume)	OSHA PV2121	0.1 mg/m³ (fume)	960	2000	8	GR	**F/CST** 225-803 **C/HLD** 225-1
Vanadium pentoxide (respirable dust)	OSHA PV2121	0.5 mg/m³ (respirable dust)	960	2000	8	GR	**F/CST** 225-803 **CYC** 225-105 **C/HLD** 225-1
Vanadium respirable dust (as V_2O_5)	OSHA ID 125G	– / 0.5 mg/m³	– / varies	– / varies	– / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1 **CYC** 225-105
Vanadium trioxide (see vanadium oxides)	NIOSH 7504						
Vermiculite	*see Particulates Not Otherwise Regulated, total and respirable*						
Vinyl acetate	OSHA 51		24 / 3	100 / 200	4 / 15	GC-FID	**ST** ask Analyt-MTC
Vinyl bromide	NIOSH 1009	LFC	2–10	10–200	varies	GC-FID	**ST** 226-09-50_
Vinyl bromide	OSHA 08	1 / 5	5	200	2.5	GC-FID	**ST** 226-01-50_
Vinyl chloride	ASTM D 4766		24	100 or 50	4 or 8	GC-FID	**ST** 226-16
Vinyl chloride	NIOSH 1007	LFC	5	50	1.6	GC-FID	**ST** 226-01-50_
Vinyl cyclohexene dioxide	OSHA PV2083		10	200	50	GC-FID	**ST** 226-30
Vinyl toluene	OSHA 89	100	12 / 0.75	50	4	GC-FID	**ST** 226-01-50_
Vinyl toluene (methyl styrene)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
N-Vinyl-2-pyrrolidinone	OSHA PV2106		10	200	50 min	GC-FID	**ST** 226-01-50_
Vinylidene chloride	NIOSH 1015	LFC	2.5–7	10–200	varies	GC-FID	**ST** 226-01-50_
Vinylidene chloride	OSHA 19		3 / 3	200 / 200	15 min / 15	GC-FID	**ST** 226-01-50_
Viruses (in air)	NON 48		62.5–375	12 500 +	5–30	varies	**BS** 225-9595 **VT** 225-9598A
VM&P naphtha	OSHA 48		3 / 3	20 / 200	2.5 / 15	GC-FID	**ST** 226-01-50_
VM&P naphtha (naphthas)	NIOSH 1550	350 mg/m³ / 1800 mg/m³	10 / 3	20(50) / 200	8(3.3) / 15	GC-FID	**ST** 226-01-50_
Volatile organic compounds (screening)	NIOSH 2549		1–6	10–50	varies	TD, GC-MS	**ST** 226-330
Volatile organic compounds (VOCs) (sample bag)	EPA 0040			250–1000 mL/min	1–2 hrs	GC-MS	**VAC** 231-939 *or* **VAC** 231-940 *with* **SB** 232-939 *or* **SB** 232-01
Volatile organic compounds (VOCs) (thermal desorption tube)	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
VOST (volatile organic sampling train)	EPA 0031		20	1 L/min	20 min	TD, GC-MS	**ST** 226-134 £ **ST** ask Analyt-MTC ††

W

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Warfarin	NIOSH 5002	0.1 mg/m³	200 (at 0.1 mg/m³)–1000	1–4 L/min	1–8 hrs	HPLC-UV	**FLT** 225-17-01 **C/HLD** 225-1 **CST** 225-2LF
Welding fumes (total particulate)	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Wood alcohol (methanol)	NIOSH 2000	200 / 250	1 (at 200 ppm) to 5 / 3	20 / 200	4 / 15	GC-FID	**ST** 226-51
Wood dust	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
Wood dust, hardwood	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
Wood dust, softwood	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
Wood spirit (methanol)	NIOSH 2000	200 / 250	1 (at 200 ppm) to 5 / 3	20 / 200	4 / 15	GC-FID	**ST** 226-51

X

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
m-Xylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
m-Xylene	Internal			0.61 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
m-Xylene	Internal			12.5 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
m-Xylene	Internal			12.5 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
m-Xylene	OSHA 1002	100		13.82	8	GC-FID	**PS** 575-002
o-Xylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
o-Xylene	Internal			0.61 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
o-Xylene	Internal			11.9 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
o-Xylene	Internal			11.9 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105
o-Xylene	OSHA 1002	100		14.24	8	GC-FID	**PS** 575-002
p-Xylene	EPA TO-17		1 L & 4 L	16.7 mL/min & 66.7 mL/min	1	TD, GC	**ST** 226-300 Series **CPC** 224-26-CPC **TH** 224-26-02
p-Xylene	Internal			12.8 mL/min	8–24 hrs	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104
p-Xylene	Internal			0.61 mL/min	24 hrs–7 days	TD, GC	**PS** 690-101 *or* **PS** 690-103 *or* **PS** 690-104 *with* **RR** 690-300
p-Xylene	Internal			12.8 mL/min	8 hrs–30 days	SE, GC	**PS** 690-105

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
p-Xylene	OSHA 1002	100		13.94	8	GC-FID	**PS** 575-002
m-Xylene (Hydrocarbons, Aromatic)	NIOSH 1501	100	2–23	10–200	varies	GC-FID	**ST** 226-01-50_
o-Xylene (Hydrocarbons, Aromatic)	NIOSH 1501	100 / 150	2–23 / 2–23	10–200 / 10–200	varies / varies	GC-FID	**ST** 226-01-50_
p-Xylene (Hydrocarbons, Aromatic)	NIOSH 1501	100	2–23	10–200	varies	GC-FID	**ST** 226-01-50_
Xylene (o-, m-, & p-isomers)	OSHA 1002	100	12	50	4	GC-FID	**ST** 226-01-50_
m-Xylenediamine (mXDA)	OSHA 105		100 / 15	– / 1000	1.6 hrs / 15	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
p-Xylenediamine (pXDA)	OSHA 105		100 / 15	– / 1000	1.6 hrs / 15	HPLC-UV	**CF/CST** 225-9004 **C/HLD** 225-1
2,4-Xylidine (Amines, Aromatic)	NIOSH 2002	2	3–20	20–200	15 min–8 hrs	GC-FID or GC-NSD	**ST** 226-10

Y

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Yttrium	OSHA ID 121	1 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Yttrium (Elements by ICP HNO_3 Digestion)	NIOSH 7303		0.1–50 000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Yttrium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	1 mg/m³	1–2000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Yttrium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Yttrium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300		5–1000	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Yttrium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415

Z

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Zinc	OSHA ID 121		960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc	OSHA ID 125G		480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Zinc & compounds (as Zn)	NIOSH 7030	5 mg/m³ (ZnO) / 15 mg/m³ (ZnO)	240 / 30	1000 / 2000	4 / 15	AA-F	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	5 mg/m³ / 15 mg/m³ C (dust) 10 mg/m³ (fume)	Varies	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Zinc (Elements by ICP Aqua Regia Ashing)	NIOSH 7301		5–200	1000–4000	varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 ¥ **C/HLD** 225-1
Zinc (Elements by ICP HNO_3 Digestion)	NIOSH 7303	5 mg/m³ (ZnO) / 15 mg/m³ (ZnO)	0.5–10 000 / 0.5–10 000	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	5 mg/m³ (ZnO) / 10 mg/m³ (ZnO)	5–200 / 5–200	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-8408 **C/HLD** 225-1
Zinc (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Zinc bromide	*see Particulates Not Otherwise Regulated, total and respirable*						
Zinc chloride fume	OSHA ID 121	1 mg/m³	960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc chloride fume	OSHA ID 125G	1 mg/m³	480 / 30	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Zinc chromate (Cr(VI))	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	8	IC-UV	**F/CST** 225-802 Ω **C/HLD** 225-1
Zinc chromates (as CrO_3)	OSHA ID 215 (V2)	0.005 mg/m³	960	2000	– / 15	IC-UV	**F/CST** 225-802 Ω **C/HLD** 225-1
Zinc dibutyldithiocarbamate	OSHA PV2065		180	1000	3	HPLC-UV	**ST** 226-30-16
Zinc oxide	NIOSH 7502	5 mg/m³ / 15 mg/m³ (15 min)	240 / 30	1000 / 2000	4 / 15	XRD	**FLT** 225-17-32 **CST** 225-3-23
Zinc oxide (Elements by ICP HNO_3 Digestion)	NIOSH 7303	5 mg/m³ / 15 mg/m³	0.5–10 000 / 0.5–10 000	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc oxide (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Zinc oxide (particulates, total)	NIOSH 0500		120	2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Zinc oxide dust (respirable dust)	OSHA PV2121	5 mg/m³	varies	varies	varies	GR	**F/CST** 225-803 **CYC** 225-105 **C/HLD** 225-1
Zinc oxide dust (total dust)	OSHA PV2121	15 mg/m³	960	2000	4–8	GR	**F/CST** 225-802 **C/HLD** 225-1
Zinc oxide fume	OSHA ID 121	5 mg/m³	960 / 30	2000 / 2000	8 / 15	AA or AES	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Zinc oxide fume	OSHA ID 125G	5 mg/m³	480 / 30	2000 / 2000	4 / 15	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Zinc oxide fume	OSHA ID 143	5 mg/m³	960 / 30	2000 / 2000	8 / 15	XRD	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Zinc oxide fume (ICP analysis of metal/metalloid particulates from solder operations)	OSHA ID 206	5 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc stearate (particulates, respirable)	NIOSH 0600		375	2500	2.5	GR	**FLT** 225-5-37-P **CYC** 225-01-02 **C/HLD** 225-1 **CST** 225-3LF
Zinc stearate (particulates, total)	NIOSH 0500		133	1000–2000	1	GR	**FLT** 225-5-37-P **CST** 225-2LF **C/HLD** 225-1
Zinc stearate (respirable dust)	OSHA PV2121	5 mg/m³	varies	varies	varies	GR	**F/CST** 225-803 **CYC** 225-105 **C/HLD** 225-1
Zinc stearate (total dust)	OSHA ID 121	15 mg/m³	960	2000	8	AA or AES	**F/CST** 225-3-01 **C/HLD** 225-1
Zinc stearate (total dust)	OSHA ID 125G	15 mg/m³	480	2000	4	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-3100 *or* **F/CST** 225-803 *or* **F/CST** 225-8215 **C/HLD** 225-1
Zineb	OSHA 107		500	2000	250 min	HPLC-UV	**F/CST** 225-3-01 **C/HLD** 225-1
Zirconium (Elements by Cellulosic Internal Capsule Sampler)	NIOSH 7306	5 mg/m³ / 10 mg/m³	1–1000	1000–4000	varies	ICP-AES	**SC** 225-8517 **C/HLD** 225-1
Zirconium (Elements by ICP Aqua Regia Ashing)	NIOSH 7301	5 mg/m³ / 10 mg/m³	5–200 / 5–200	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1

Chemical	Method	Standard (ppm unless stated) TWA / C·STEL	Volume (L) TWA / C·STEL	Flow (mL/min) TWA / C·STEL	Time TWA (h) / C·STEL (min)	Analysis	Order code
Zirconium (Elements by ICP HNO_3/$HClO_4$ Ashing)	NIOSH 7300	5 mg/m³ / 10 mg/m³	5–200 / 5–200	1000–4000 / 1000–4000	varies / varies	ICP-AES	**F/CST** 225-3-01 *or* **F/CST** 225-803 **C/HLD** 225-1
Zirconium (Elements on Wipes)	NIOSH 9102		wipe			ICP-AES	**W** 225-2414 **TMP** 225-2415
Zirconium compounds (as Zr)	OSHA ID 121	5 mg/m³	960 / 30	2000 / 2000	8 / 15	AA or AES	**F/CST** 225-803 **C/HLD** 225-1

CHAPTER 2

References

The method collections behind the tables, and the non-agency methods cited in the Method column as NON followed by a number.

Agency methods

Cited as	Source
NIOSH nnnn	NIOSH Manual of Analytical Methods, 5th edition
OSHA nnnn, OSHA ID nnn, OSHA PVnnnn	OSHA Analytical Methods Manual, published 1985, with updates through 2023. Organic methods are cited by number only, inorganic methods by number with the prefix ID; PV marks a provisional method.
EPA TO-nn, IO-n, IP-nn	EPA Compendium of Methods: Toxic Organic (TO), January 1997; Inorganic (IO), February 1997; Indoor Air (IP), April 1990
ASTM D nnnn	ASTM International, Annual Book of Standards, Section 11 – Water and Environmental Technology, Volume 11.03 Occupational Health and Safety; Protective Clothing
MDHS nn	Methods for the Determination of Hazardous Substances, a series published by the UK Health and Safety Executive (HSE) on measuring personal exposure to airborne contaminants

Non-agency methods

The numbering follows the SKC sampling guides; numbers not listed are not in use.

NON	Analyte	Publication
10	Acrylic acid	Proprietary method; ask Analyt-MTC
14	Ethylene oxide	Am. Ind. Hyg. Assoc. J., Vol. 38 (1977), pp. 635–647
16	Iodine	Am. Ind. Hyg. Assoc. J., Vol. 42 (1981), pp. 187–190
17	Mercury	Am. Ind. Hyg. Assoc. J., Vol. 37 (1976), pp. 311–314
19	Nicotine	Journal of the Association of Analytical Chemists, Vol. 72 (1989), No. 6, pp. 1002–1006
21	Vinyl acetate	Am. Ind. Hyg. Assoc. J., Vol. 43 (1982), pp. 137–142
22	Hydrazine	Am. Ind. Hyg. Assoc. J., Vol. 41 (1980), pp. 879–900
25	Hydrazoic acid	Am. Ind. Hyg. Assoc. J., Vol. 52 (1991), pp. 14–19
26	4,4'-Bipyridine vapor	Am. Ind. Hyg. Assoc. J., Vol. 54 (1993), pp. 440–445
28	Methyltetrahydrophthalic anhydride	Ann. Occup. Hyg., Vol. 36 (1992), pp. 189–197
29	Chloromethyl methyl ether	Am. Ind. Hyg. Assoc. J., Vol. 42 (1981), pp. 47–55
38	Nonpolar organic compounds	Analytical Chemistry, Vol. 63 (1 July 1991), No. 13, pp. 1228–1232
39	Multifunctional acrylates	Appl. Occup. Environ. Hyg., Vol. 9 (December 1994), pp. 977–983
40	Chloroformates and phosgene	Am. Ind. Hyg. Assoc. J., Vol. 47 (December 1986), pp. 742–746
41	Ammonia	Union Carbide Health, Safety and Environmental Technology, South Charleston, WV, Method 38C-1P7-TSSc, 1992
42	Sulfur gas	NCASI Technical Bulletin 656, December 1993
43	Glutaraldehyde	Union Carbide 38C-4Q5-TSGE, December 1997
44	2,3-Dimethyl-2,3-dinitrobutane vapor	Am. Ind. Hyg. Assoc. J., Vol. 59 (1998), pp. 388–392
46	Oil mist aerosol	Am. Ind. Hyg. Assoc. J., Vol. 57 (December 1996), pp. 1149–1152
48	Bioaerosols	Field Guide for the Determination of Biological Contaminants in Environmental Samples, AIHA Publications, Fairfax, VA, 1996

NON	Analyte	Publication
49	Environmental tobacco smoke (nicotine and 3-ethenylpyridine)	Ogden, M. W., et al.: compilation of published articles on alkaloids and nicotine in ETS and a comparison of diffusive and active sampling of airborne nicotine and 3-EP, 1992–1999
50	2,2-Dichloro-1,1,1-trifluoroethane	Am. Ind. Hyg. Assoc. J., Vol. 63 (November/December 2002), pp. 715–720
51	Trichloronitromethane	California Air Resources Board, October 2002
52	Hexamethylenetetramine	Ontario Ministry of Labour method, AIHce 2005
54	Acrylates, acrylonitriles and styrene	Saunders, H.: Methyl acrylate, acrylonitrile, ethyl acrylate, n-butyl acrylate, methyl methacrylate, n-butyl methacrylate and styrene using Anasorb 747 sorbent tubes. Rohm and Haas Corporate Industrial Hygiene Laboratory, Method IH9402
55	Kathon 886 biocide (2-methyl-4-isothiazolin-3-one and 5-chloro-2-methyl-4-isothiazolin-3-one)	Sobczak, S. S., Rohm and Haas Corporate Industrial Hygiene Laboratory, Method IH9901, 2001
56	Radon progeny (on dust, in mines)	U.S. Department of Labor, Mine Safety and Health Administration: MSHA Handbook No. PH06-IV-1(1), Metal and Non-metal Mine Safety and Health, MSHA Handbook Series, October 2006
57	Peracetic (peroxyacetic) acid / hydrogen peroxide	Ann. Occup. Hyg., Vol. 48 (2004), No. 8, pp. 715–721
58	Manganese fume	Ann. Occup. Hyg., Vol. 53 (2009), No. 2, pp. 99–116
59	Nitric oxide	A new oxidizer tube for sampling nitric oxide and nitrogen dioxide in air: a modified OSHA ID-190 and NIOSH 6014 method using a new sampling train with different sampling parameters and calculations. SKC Inc., 2018; ask Analyt-MTC
60	Acrylic acid and methacrylic acid	Partial validation of the 226-30-08 sorbent tube for acrylic and methacrylic acid. SKC Inc., 2020; ask Analyt-MTC
61	Acetic acid and formic acid	Validation of passive samplers (UMEx 200) for monitoring acetic and formic acid in museum environments. Heritage Science 9, 19 (2021)
62	1,3-Butadiene and benzene	Evaluation of two types of diffusive samplers and adsorbents for measuring 1,3-butadiene and benzene in air. Atmospheric Environment 39 (2005), pp. 4101–4110

CHAPTER 3

Ordering information

Order from Analyt-MTC with the order codes; they are the SKC catalogue numbers in the tables. Where a row reads **ask Analyt-MTC**, contact Analyt-MTC. Ask Analyt-MTC as well about media marked †† and about the non-agency methods (p. 83) NON 10, 59 and 60.

CHAPTER 4

Contacts

Contact

ANALYT-MTC Messtechnik GmbH

German Headquarters

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French Subsidiary

175 Avenue d'Alsace, 68000 Colmar
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+33 3 89 41 47 78

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Before you contact Analyt-MTC

Have the following at hand so that Analyt-MTC can help you quickly:

- the chemical and the method number (for example NIOSH 1500);
- the catalogue numbers from the method row;
- the number of samples and the date you need the media.

ANALYT-MTC Messtechnik GmbH

Sales, service and calibration

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