

**DataChem Laboratories
Industrial Hygiene
Fee Schedule and
Guide**

October 2007

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**DCL-Cincinnati: 800-458-1493
DCL-Novato, CA: 800-280-8071**

Industrial Hygiene Analysis

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Asbestos Analysis

<u>Analysis</u>	<u>Method</u>	<u>TAT</u>	<u>Medium</u>	<u>Fee</u>	
				<u>Traditional</u> <u>Non-Rad Samples</u>	<u>NRC</u> <u>Licensable[‡]</u>
PCM:	NIOSH 7400	5 days	MCE filter	\$15	\$45
		Same Day	MCE Filter	\$30	\$60
PLM:	EPA/600/R-93/116	5 days	Bulk material	\$20	\$60
		RUSH*	Bulk material	\$40	\$100
Soils:	DCL SOP ENV004	10 days	Soils	\$100***	NA
		5 days***	Soils	\$200***	NA
Vermiculite:	EPA 600/R-04/004	10 days	Prep	\$75	NA
			PLM	\$125	NA
			TEM	\$125	NA
Point Count:	EPA/600/R-93/116	5 days	Bulk material**	\$50	\$80
		RUSH*	Bulk material**	\$100	\$120
Stratified Point Count:	ELAP 198.1	5 days	Bulk material**	\$25	\$70
		RUSH*	Bulk material**	\$50	\$110
Gravimetric Prep:	Ashing only		Bulk	\$15	\$25
		Ashing plus acid treatment	Bulk	\$35	\$55

Note: Roofing tar and window caulking require gravimetric prep before PLM analysis can be performed. Non-friable materials such as mastic, flexible tiles, paper or spongy material require gravimetric preparation for TEM analysis.

*RUSH analysis means 'as soon as possible'. Actual time may vary from a few hours to 2 days depending on sample matrix and current workload.

**Point counts are not applicable to floor tiles, mastic and roofing pitch materials.

***Fee based on sample preparation with analysis by PLM. If TEM confirmation of PLM analysis is requested by client, an additional \$50.00 for 10 day turnaround or \$100.00 for RUSH turnaround is required.

[‡]Note: All sample remainders and minimal contact waste from any radioactively contaminated samples will be returned to the client for disposal.

Free Release samples from an area requiring a Radioactive Materials License will be charged a Rad Scan Fee of \$25 per batch of samples received together.

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Asbestos Analysis (continued)

<u>Analysis</u>	<u>Method</u>	<u>TAT</u>	<u>Medium</u>	<u>Fee</u>	
				<u>Traditional Non-Rad Samples</u>	<u>NRC Licensable[‡]</u>
TEM					
Bulk	EPA/600/R-93/116	5 days	Bulk	\$40	\$80
		RUSH*	Bulk	\$80	\$120
Air	AHERA	5 days	MCE Filter	\$80	\$125
		Rush*	MCE Filter	\$160	\$200
Air	NIOSH 7402	5 days	MCE Filter	\$125	\$165
		RUSH*	MCE Filter	\$200	\$250
Water	EPA 100.1 or 100.2	1 week	Liquid	\$300	NA
		2 weeks	Liquid	\$200	NA
Dust:					
Microvac	ASTM D5755	5 days	MCE filter	\$125	NA
		Rush*	MCE Filter	\$200	NA
Wipes	ASTM D6480	5 days	Wipe	\$125	NA
		Rush*	Wipe	\$200	NA

*RUSH analysis means 'as soon as possible'. Actual time may vary from a few hours to 2 days depending on sample matrix and current workload.

[‡]Note: All sample remainders and minimal contact waste from any radioactively contaminated samples will be returned to the client for disposal.

Free Release samples from an area requiring a Radioactive Materials License will be charged a Rad Scan Fee of \$25 per batch of samples received together.

Aldehydes

<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee (\$)</u>
NIOSH 2539(individual)	GC/FID	XAD-2(treated)	50/15
NIOSH 2539(scan)	GC/FID	XAD-2(treated)	175
EPA TO-11(individual)	HPLC/UV	Silica Gel(treated)/OVM	80/25
EPA TO-11(scan)	HPLC/UV	Silica Gel(treated)/OVM	200

Analyte List: NIOSH 2539

Acetaldehyde	Acrolein	Butyraldehyde	Formaldehyde
Heptanal	Hexanal	Isovaleraldehyde	Propionaldehyde
Valeraldehyde			

Analyte List: TO-11

Acetaldehyde	Butyraldehyde	Benzaldehyde	Crotonaldehyde
2,4-Dimethylbenzaldehyde	Formaldehyde	Hexanal	Isovaleraldehyde
Propionaldehyde	Tolualdehyde	Valeraldehyde	

Fixed Gas Analysis

Analysis by GC-TCD, Fee: \$100/25, Screen for all listed compounds \$175

Carbon Dioxide Carbon Monoxide Nitrogen Oxygen

Tedlar bags should be analyzed within three days of collection
Other gases may also be analyzed — please call for a discussion and quote

Indoor Air Quality Analysis

<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee</u>
Volatile organics	TO 14/15	GC-MS	SS Canister/Tedlar bag	\$275

Fee includes Stainless Steel Canister and Sampling Regulator rental

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Inorganic Acids

<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee (\$)</u>
NIOSH 7903 (individual)	IC	Silica Gel Tube	50/15
NIOSH 7903 (scan)	IC	Silica Gel Tube	110

Analyte List:

Bromide ion (Br ⁻)	Chloride ion (Cl ⁻)	Fluoride ion (F ⁻)
Nitrate ion (NO ₃ ⁻)	Phosphate ion (PO ₃ ⁻)	Sulfate ion (SO ₄ ⁻)

Light Gas Analysis

Analysis by GC-FID, Fee: \$100/25

Alkanes: Methane, Ethane, Propane, Butane, Pentane and Hexane	Scan - \$200
Alkenes: Ethylene, Propylene, 1-Butene, 1-Pentene and 1-Hexene	Scan - \$175

Tedlar bags should be analyzed within three days of collection
Other gases may also be analyzed — please call for a discussion and quote

Metals Analysis

ICP Panel A: 30 Element Scan by ICP (NIOSH 7300)
Fee: \$115 per sample

Analyte List:

Aluminum	Chromium	Magnesium	Selenium	Titanium
Arsenic	Cobalt	Manganese	Silver	Tungsten
Barium	Copper	Molybdenum	Sodium	Vanadium
Beryllium	Iron	Nickel	Tellurium	Yttrium
Cadmium	Lead	Phosphorus	Thallium	Zinc
Calcium	Lithium	Platinum	Tin	Zirconium

ICP Panel B: Welding Fumes Elements Scan (NIOSH 7300)
Fee: \$95 per sample

Analyte List:

Cadmium	Chromium	Copper	Iron	Manganese
Nickel	Silver	Zinc		

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Passive Organic Vapor Monitors

<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee</u>
Ethylene Oxide	OSHA 50	GC-ECD	3M 3551*	\$100
Formaldehyde	OSHA 205	Colorimetric	3M 3721B*	\$40
Mercury	OSHA ID 140	CV-AA	SKC 520-02A/03	\$40
Organic Vapors	Various	GC-FID	3M 3500*	\$50/15
Formaldehyde	OSHA 1007	HPLC-UV	SKC 500-100*	\$80/20

*Passive Dosimeters available at cost

Scan of Organic Vapors

Analysis from standard IH Charcoal tubes by GC/FID. Fee: \$225 per sample

Acetone	Benzene	Butyl Acetate
Ethanol	Ethyl Benzene	Hexane
Isopropyl Alcohol	Methylene Chloride	MEK
MIBK	Perchloroethylene	Toluene
Trichloroethylene	1,1,1-Trichloroethane	Xylene

Industrial Hygiene Sampling Pumps Rental

EACH KIT INCLUDES:

- (1) 1-Personal Sampling Pump 5 to 3000 mL/min flow range
- (2) 1-Field Rotameter
- (3) 1-Low Flow adapter for sampling in the 5 to 500 mL/min range
- (4) 1-Sampling Tube Holder or Sampling Cassette Holder

RENTAL PRICE:

\$15 per day per pump**

Note: For large projects pump rental may be included at no additional Charge.
Please contact a DCL representative for further information.

**Additional fees will be applied for non-returned or damaged equipment.

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Stack and Environmental Air Analysis

DataChem Laboratories – Cincinnati performs many of the EPA Toxic Organic (TO) methods including methods:

- TO-4 – Organochlorine Pesticide & PCB (Quartz Fiber Filter/PUF)
- TO-5 – Aldehydes & Ketones (DNPH Impingers)
- TO-8 – Phenols/Cresols (0.1 N Sodium Hydroxide Impingers)
- TO-10 – Organochlorine Pesticides (Quartz Fiber Filter/PUF)
- TO-11A – Formaldehyde (DNPH coated Silica Gel)
- TO-13 – Polynuclear Aromatic Hydrocarbons (PUF/XAD-2/PUF)
- TO-14/15 – Volatile Organic Compounds (SUMMA™ Canisters)

DataChem Laboratories – Cincinnati also performs many of the analytical tests required for stack and source monitoring including:

- Method 5 – Particulate Emissions
- Method 6 – SO₂ Emissions (Barium-Thorin Titration)
- Method 7D – NO_x Emissions (Alkaline-Permanganate/Ion Chromatography)
- Method 8 – Sulfuric Acid & SO₂ Emissions
- Method 12 – Inorganic Lead
- Method 18 – Volatile Organics by Gas Chromatography
- Method 26/26A – Hydrogen Halides and Halides By Ion Chromatography
- Method 202 - Condensable Particulate Matter
- Method 308 - Methanol Emissions

Please contact your DataChem Laboratories representative for pricing or further information regarding these analyses.

Alphabetical Listing by Analyte

The following list contains many of the analytes and test methods performed at DataChem Laboratories. For further assistance with specialty analysis, please contact your DataChem Laboratories representative.

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Acetaldehyde	NIOSH 2538	GC-FID	XAD-2 tube	50
Acetaldehyde	OSHA 68	GC-NPD	XAD-2 tube	80
Acetic acid	NIOSH 1603	GC-FID	Charcoal tube	50
Acetic acid	OSHA ID118	IC	Impinger	50
Acetic acid	OSHA ID186SG	IC	Charcoal tube	60
Acetic anhydride	OSHA 82	GC-NPD	Glass fiber filter	100
Acetoin	NIOSH 2558	GC-FID	CMS	65/20
Acetone	NIOSH 1300	GC-FID	Charcoal tube	50/15
Acetone	OSHA 69	GC-FID	Anasorb tube	50
Acetonitrile	NIOSH 1606	GC-FID	Charcoal tube	50
Acetophenone	OSHA PV2003	GC-FID	Tenax tube	75
Acids (inorganic)	NIOSH 7903	IC	Silica gel tube	50/15
Acids (inorganic) SCAN	NIOSH 7903	IC	Silica gel tube	110
Acrolein	NIOSH 2501	GC-FID	XAD-2 tube (Treated)	50
Acrolein	OSHA 52	GC-NPD	XAD-2 tube (Treated)	100
Acrolein	NIOSH 2539	GC-FID	XAD-2 tube (Treated)	50/15
Acrylamide	OSHA 21	GC-NPD	Filter/Silica gel tube	100
Acrylic acid	OSHA 28	HPLC-UV	Anasorb tube (2)	80
Acrylonitrile	NIOSH 1604	GC-FID	Charcoal tube	50
Acrylonitrile	OSHA 37	GC-NPD	Charcoal tube	60
Alcohols Combined	NIOSH 1405	GC-FID	Charcoal tube	50/15
Aldehydes (screen-9 compounds)	NIOSH 2539	GC-FID	XAD-2 tube (Treated)	175
Aldehydes (screen 11 compounds)	EPA TO-11	HPLC-UV	Silica Gel (Treated)	200
Aldrin	NIOSH 5502	GC-ECD	Impinger	75/25
Aliphatic Aldehydes	NIOSH 2018	HPLC-UV	Silica Gel (Treated)	80/25
Alkaline dust	NIOSH 7401	TITRA	PTFE filter	60
Allyl alcohol	NIOSH 1402	GC-FID	Charcoal tube	50/15
Allyl chloride	NIOSH 1000	GC-FID	Charcoal tube	50
Allyl glycidyl ether	NIOSH 2545	GC-FID	Tenax tube	60
Aluminum	NIOSH 7300	ICP	MCE filter	30/10
Amines (aliphatic)	NIOSH 2010	GC-FID	Silica gel tube	100/50
Amines (aromatic)	NIOSH 2002	GC-FID	Silica gel tube	75/25
2-Aminoethanol	NIOSH 2007	GC-FID	Silica gel tube	100/25
2-Aminoethanol	OSHA PV2111	HPLC-UV	XAD-2 tube (treated)	125
2-Amino pyridine	NIOSH S158	GC-FID	Tenax tube	60
4-Aminobiphenyl	NIOSH 269	GC-FID	Silica gel tube	60
4-Aminobiphenyl	OSHA 93	GC-ECD	Treated glass filter	75/25
Ammonia	NIOSH 6016	IC	Silica gel tube (treated)	60
Ammonia	NIOSH 6015	VAS	Silica gel tube (treated)	40
Ammonia	OSHA ID 188	IC	Carbon bead (treated)	60
Ammonium chloride	OSHA ID 188	IC	MCE filter	60
Ammonium hydroxide (see Ammonia)				
N-Amyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Sec-Amyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Aniline	NIOSH 2002	GC-FID	Silica gel tube	75/25
Anisidine	NIOSH 2514	HPLC-UV	XAD-2 tube	80
Anthophyllite fibers (see Asbestos Section)				
Antimony	NIOSH 7300	ICP	MCE filter	30/10
Aqua fortis (nitric acid)	NIOSH 7903	IC	Silica gel	50/15
Arsenic	NIOSH 7300	ICP	MCE filter	30/10
Arsenic Trioxide	NIOSH 7901(mod)	ICP	MCE filter (Treated)	40
Arsine	NIOSH 6001 (mod)	ICP	Charcoal tube	40
Asbestos (see Asbestos Section)				
Asphalt fumes (coal tar volatiles)	OSHA 58	GR	Glass fiber filter	60

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Asphalt Fumes (Benzene Solubles)	NIOSH 5042	GR	PTFE	60
Barium	NIOSH 7300	ICP	MCE filter	30/10
Benz [a] anthracene (see PNA)				
Benz [a,h] anthracene(see PNA)				
Benzene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Benzene	OSHA 12	GC-FID	Charcoal tube	50
Benzene Soluble Fraction (Particulates)	NIOSH 5042	GR	PTFE filter	15
Benzene Soluble Fraction (Asphalt Fume)	NIOSH 5042	GR	PTFE filter	60
Benzene Soluble Fraction	OSHA 58	GR	Glass fiber filter	60
Benzidine	NIOSH 5509	HPLC-UV	Glass fiber filter	80/35
Benzidine	OSHA 65	GC-ECD	Treated filter	80/25
Benzidine dyes	NIOSH 5013	HPLC	PTFE filter	125/35
Benzo [a] pyrene (see PNA)				
Benzo [g,h,i] perylene (see PNA)				
Benzo [b] fluoranthene (see PNA)				
Benzo [k] fluoranthene (see PNA)				
Benzophenone	OSHA PV2130	GC-FID	Chromosorb 106	60
Benzoyl peroxide	NIOSH 5009	HPLC-UV	MCE filter	80
Benzyl alcohol	OSHA PV2009	GC-FID	XAD-7 tube	50
Benzyl chloride	NIOSH 1003	GC-FID	Charcoal tube	50/15
Beryllium	NIOSH 7300	ICP	MCE filter	30/10
Beryllium (compounds)	OSHA ID 125G	ICP	MCE filter	30/10
Biphenyl (Diphenyl)	NIOSH 2530	GC-FID	Tenax tube	60
Bisphenol A	NIOSH 333	HPLC	Glass fiber filter	125
Borates	OSHA ID 125G	ICP	MCE filter	30
Boric Acid	OSHA CSI	ICP	MCE filter	30
Boron	OSHA CSI	ICP	MCE filter	30
Bromine	NIOSH 6011	IC	Silver filter	60/25
Bromine	OSHA ID 108	IC	Impinger	50
Bromoethane	NIOSH 1011	GC-FID	Charcoal tube	50
Bromoform	NIOSH 1003	GC-FID	Charcoal tube	50/15
1- or 2- Bromopropane	NIOSH 1025	GC-FID	CT or CMS	50/15
Bromotrifluoromethane	NIOSH 1017	GC-FID	Charcoal tube	60
1,3-Butadiene	NIOSH 1024	GC-FID	Charcoal tube	75/15
1,3-Butadiene	OSHA 56	GC-FID	Charcoal tube	75/15
2-Butanone (MEK)	NIOSH 2500	GC-FID	Anasorb tube	50
2-Butanone (MEK)	OSHA 16	GC-FID	Silica gel tube	60
2-Butanone (MEK)	OSHA 84	GC-FID	Anasorb tube	50
2-Butanone (MEK)	OSHA 1004	GC-FID	CT or OVM	50/15
Butene	OSHA CSI	GC-FID	Charcoal tube (2)	70
2-Butoxyethanol	NIOSH 1403	GC-FID	Charcoal tube	50/15
2-Butoxyethanol	OSHA 83	GC-FID	Charcoal tube	50/15
n-Butyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
sec-Butyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
tert-Butyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Butyl acrylate	OSHA PV2011	GC-FID	XAD-2 tube	65
n-Butyl alcohol	NIOSH 1401	GC-FID	Charcoal tube	50/15
sec-Butyl alcohol	NIOSH 1401	GC-FID	Charcoal tube	50/15
tert-Butyl alcohol	NIOSH 1400	GC-FID	Charcoal tube	50/15
n-Butyl amine	NIOSH 2012	GC-FID	Silica gel tube (Treated)	75
Butyl benzyl phthalate	OSHA CSI	HPLC-UV	Glass fiber filter	125
Butyl cellosolve acetate	OSHA 83	GC-FID	Charcoal tube	50/15
Butyl cellosolve (see Butoxyethanol)				
n-Butyl glycidyl ether	NIOSH 1616	GC-FID	Charcoal tube	60

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tert-Butyl methyl ether	OSHA CSI	GC-FID	Charcoal tube	60
p-tert-Butyl toluene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Butylated hydroxytoluene (BHT)	NIOSH 226	GC-FID	Silica gel tube	60
Butyraldehyde (see Aldehydes)				
Butyric acid	OSHA CSI	GC-FID	Silica gel tube	75
Butyrolactone	OSHA CSI	GC-FID	Charcoal tube	75
Cadmium	NIOSH 7300	ICP	MCE filter	30/10
Calcium	NIOSH 7300	ICP	MCE filter	30/10
Calcium carbonate (see Dust, Total or Respirable)				
Calcium hydroxide (see Dust, Total or Respirable)				
Calcium oxide	NIOSH 7300	ICP	MCE filter	30/10
Calcium silicate (see Dust, Total or Respirable)				
Calcium sulfate (see Dust, Total or Respirable)				
Camphor	NIOSH 1301	GC-FID	Charcoal Tube	50/15
Carbaryl (Sevin)	NIOSH 5006	VAS	Glass fiber filter	80
Carbaryl (Sevin)	OSHA 63	HPLC-UV	OVS tube	95
Carbofuran (Furadan)	OSHA PV2127	HPLC-UV	OVS tube	80
Carbon black	NIOSH 5000	GR	PVC filter	15
Carbon tetrabromide	OSHA CSI	GC-ECD	XAD-4 tube	100
Carbon tetrachloride	NIOSH 1003	GC-FID	Charcoal tube	50/15
Carbonyl fluoride	OSHA CSI	IC	Impinger	60
Catechol (Pyrocatechol)	OSHA PV2014(mod)	HPLC	XAD-7 tube	80
Cellosolve acetate (see 2-Ethoxyethyl acetate)				
Cellulose (see Dust, Total or Respirable)				
Cesium	OSHA CSI	ICP	MCE filter	30/10
Chlordane	NIOSH 5510	GC-ECD	Chromosorb tube	75
Chlordane	OSHA 67	GC-ECD	OVS tube	75
Chloride (inorganic acids)	NIOSH 7903	IC	Silica gel tube	50/15
Chlorinated camphene	NIOSH 5039	GC-ECD	MCE filter	80
Chlorine	NIOSH 6011	IC	Silver filter	65/20
Chlorine	OSHA ID 101	IC	Impinger	50
Chlorine dioxide	OSHA ID 202	IC	Impinger	80
p-Chloroaniline	OSHA PV2109	HPLC-UV	Silica gel tube	125
Chlorobenzene	NIOSH 1003	GC-FID	Charcoal tube	50/15
p-Chlorobenzotrifluoride	NIOSH 1026	GC-FID	Charcoal tube	50
Chlorobromomethane	NIOSH 1003	GC-FID	Charcoal tube	50/15
Chlorodifluoromethane	OSHA CSI	GC-FID	Anasorb tube	50/15
Chlorodiphenyls (PCBs)	NIOSH 5503	GC-ECD	Florisil tube	50
2-Chloroethanol	NIOSH 2513	GC-FID	Charcoal tube	50
Chloroform	NIOSH 1003	GC-FID	Charcoal tube	50/15
Chloroform	OSHA 05	GC-FID	Charcoal tube	50
Chloroprene	NIOSH 1002	GC-FID	Charcoal tube	60
Chloropyrifos (Dursban)	NIOSH 5600 mod	GC-ECD	OVS	80/35
Chloropyrifos (Dursban)	OSHA 62 mod	GC-ECD	OVS	80/35
Chromium	NIOSH 7300	ICP	MCE filter	30/10
Chromium – Hexavalent (Welding & Grinding)				
	NIOSH7605/OSHA215	IC	PVC filter	80
Chromium – Hexavalent (Spray Paint)	OSHA 215	IC	PVC filter	125
Chromium – Hexavalent (Plating)	OSHA 215	IC	PVC filter	Please Call
Chromium insoluble	OSHA ID 125G	ICP	MCE filter	30/10
Chrysene (see PNA)				
Chrysotile (see Asbestos section)				
Coal tar naphtha	NIOSH 1550	GC-FID	Charcoal	50
Coal tar pitch volatiles	OSHA 58	GR	Glass Fiber filter	60

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Coal tar pitch volatiles(specific cmpds)	OSHA 58	HPLC	Glass Fiber filter	150
Cobalt	NIOSH 7300	ICP	MCE filter	30/10
Coke oven emissions	OSHA 58	GR	Glass Fiber filter	60
Copper	NIOSH 7300	ICP	MCE filter	30/10
Copper dust	OSHA ID121(mod)	ICP	MCE filter	30/10
Cotton dust (see Dust, Respirable or Total)				
p-Cresidine (see 5-Methyl-anisidine)				
Cresol (all isomers)	NIOSH 2546	GC-FID	XAD-7 tube	60
Cresol (all isomers)	OSHA 32	HPLC-UV	XAD-7 tube	80
Cristobalite (see Silica)				
Crocidolite fibers (see Asbestos section)				
Crotonaldehyde	OSHA 81	HPLC-UV	Glass fiber filter	125
Crotonaldehyde (see Aldehydes Section)				
Cumene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Cupric carbonate (as Cu)	NIOSH 7300	ICP	MCE filter	30/10
Cyanides	NIOSH 7904	SP IEL	PVC filter	50
Cyclohexane	NIOSH 1500	GC-FID	Charcoal tube	50/15
Cyclohexanol	NIOSH 1402	GC-FID	Charcoal tube	50/15
Cyclohexanone	NIOSH 1300	GC-FID	Charcoal tube	50/15
Cyclohexanone	OSHA 01	GC-FID	Chromosorb 106 tube	50
Cyclohexene	NIOSH 1500	GC-FID	Charcoal tube	50/15
1,3-Cyclopentadiene	NIOSH 2523	GC-FID	Chromosorb 104 Treated	60
2,4D (2,4-dichlorophenoxyacetate)	NIOSH 5001	HPLC-UV	Glass fiber filter	125/35
DDT	NIOSH S274	GC-ECD	Glass fiber filter	80
DDVP (see Dichlorvos)				
Decyl alcohol	OSHA CSI	GC-FID	Charcoal tube	65
Desflurane	OSHA 106	GC-ECD	Anasorb 747 tube	65
Di-(2-ethylhexyl) adipate	OSHA CSI	GC-FID	PTFE filter	70
Di-2-ethylhexylphthalate (DEHP)	NIOSH 5020	GC-FID	MCE filter	70/20
Diacetone alcohol (alcohols)	NIOSH 1402	GC-FID	Charcoal tube	50/15
Diacetyl	NIOSH 2557	GC-FID	CMS	65/20
o-Dianisidine	OSHA 71	GC-ECD	Treated filter	75
o-Dianisidine dyes (see Dyes, Benzidine)				
Diazinon	NIOSH 5600 mod	GC-ECD	OVS tube	80/35
Diazinon	OSHA 62 mod	GC-ECD	OVS tube	80/35
Diazomethane	NIOSH 2515	GC-FID	XAD-2 tube (Treated)	60
Diazonium salts (see dyes, benzidine)	NIOSH 5013	HPLC-UV	PTFE filter	125/35
Diborane	NIOSH 6006	ICP	Filter/Sorbent Tube	40
Dibromochloropropane (DBCP)	OSHA CSI	GC-ECD	CMS	80
1,2-Dibromoethane (EDB)	NIOSH 1008	GC-ECD	Charcoal tube	80
Dibutyl phosphate	NIOSH 5017 mod	GC-FID	PTFE filter	60
Dibutyl phthalate	NIOSH 5020	GC-FID	MCE filter	70/20
p-Dichlorobenzene	NIOSH 1003	GC-FID	Charcoal tube	50/15
3,3'-Dichlorobenzidine	NIOSH 5509	HPLC-UV	Glass fiber filter	80/35
3,3'-Dichlorobenzidine	OSHA 65	GC-ECD	Treated filter	80/25
Dichlorodifluoromethane	NIOSH 1018	GC-FID	Charcoal tube	60/20
1,1-Dichloroethane	NIOSH 1003	GC-FID	Charcoal tube	50/15
Dichloroethyl ether	NIOSH 1004	GC-FID	Charcoal tube	50
1,2-Dichloroethylene	NIOSH 1003	GC-FID	Charcoal tube	50/15
Dichlorofluoromethane	NIOSH 2516	GC-FID	Charcoal tube (2)	60
Dichloromethane (see Methylene chloride)				
1,1-Dichloro-1-nitroethane	NIOSH 1601	GC-FID	Petroleum charcoal tube	60
1,2-Dichloropropane	NIOSH 1013	GC-ECD	Petroleum charcoal tube	50
1,3-Dichloropropene	OSHA CSI	GC-FID	Charcoal tube	60

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
1,2-Dichlorotetrafluoroethane	NIOSH 1018	GC-FID	Charcoal tube	60/20
Dichlorvos (DDVP)	NIOSH 295(mod)	GC-ECD	XAD-2 tube	80
Dicyclopentadiene	OSHA PV2098	GC-FID	Charcoal tube	80
Dieldrin	NIOSH S283	GC-ECD	Glass fiber filter	75
Diesel Particulate Matter	NIOSH 5040	TOA	Quartz fiber filter	50
Diethylamine	NIOSH 2010	GC-FID	Silica gel tube	100/50
Diethylamine	OSHA 41	HPLC	XAD-7 tube (Treated)	125
2-Diethylaminoethanol	NIOSH 2007	GC-FID	Silica gel tube	100/50
Diethyl ether	NIOSH 1610	GC-FID	Charcoal tube	50
Diethyl phthalate	OSHA 104	GC-FID	OVS tube	70
Diethylene glycol monoethyl ether	OSHA CSI	GC-FID	Charcoal tube	50
Diethylenetriamine	NIOSH 2540	HPLC-UV	XAD-2 tube (Treated)	125/25
Diethylenetriamine	OSHA 60	HPLC-UV	XAD-2 tube (Treated)	125/25
Difluorodibromomethane	NIOSH 1012	GC-FID	Charcoal tube (2)	60
Diisobutyl ketone	NIOSH 1300	GC-FID	Charcoal tube	50/15
Diisopropylamine	NIOSH 2010	GC-FID	Silica gel tube	100/50
Dimethyl acetamide	NIOSH 2004	GC-FID	Silica gel tube	50
Dimethyl amine	NIOSH 2010	GC-FID	Silica gel tube	100/50
Dimethyl amine	OSHA 34	HPLC-UV	XAD-7 tube (Treated)	125
2-(Dimethylamino)ethanol	NIOSH 2561	GC-FID	XAD-7	100/20
1-(Dimethylamino-2-propanol	NIOSH 2561	GC-FID	XAD-7	100/20
N,N-Dimethyl aniline	NIOSH 2002	GC-FID	Silica gel tube	75/25
N,N Dimethyl formamide (DMF)	NIOSH 2004	GC-FID	Silica gel tube	50
1,1-Dimethyl hydrazine	NIOSH 3515	VAS	Impinger	50
N-Dimethyl-p-toluidine	NIOSH 2002	GC-FID	Silica gel tube	75/25
Dimethyl phthalate	OSHA 104	GC-FID	OVS (tenax) tube	70/20
Dinitrotoluene	OSHA 44 Mod	GC-ECD	OVS (tenax) tube	75/25
Diocetyl Phthalate (DNOP)	OSHA 104	GC-FID	Tenax OVS	70/20
Dioxane	NIOSH 1602	GC-FID	Charcoal tube	50/15
Diphenyl	NIOSH 2530	GC-FID	Tenax tube	60
Diphenyl amine	OSHA 78	HPLC-UV	Treated filter	125/35
Dipropylene glycol methyl ether	NIOSH 2554	GC-FID	Anasorb 747	50/15
Divinyl benzene	OSHA 89	GC-FID	Charcoal tube (Treated)	65/20
Dursban (Chlorpyrifos)	NIOSH 5600mod	GC-ECD	OVS	75
Dust, Respirable nuisance	NIOSH 0600	GR	PVC filter (preweighed)	15
Dust, Total nuisance	NIOSH 0500	GR	PVC filter (preweighed)	15
Dyes, Benzidine	NIOSH 5013	HPLC-UV	PTFE filter	125/35
Elemental Carbon (Diesel Particulates)	NIOSH 5040	TOA	Quartz Fiber Filter	50
Elements (30 element scan)	NIOSH 7300	ICP	MCE filter	115
Elements (specific)	NIOSH 7300	ICP	MCE filter	30/10
Endosulfan	OSHA PV2023	GC-ECD	OVS tube	80
Endrin	NIOSH 5519	GC-ECD	MCE filter	80
Enflurane (Ethrane)	OSHA 29	GC-FID	Charcoal tube	60
Epichlorohydrin	NIOSH 1010	GC-FID	Charcoal tube	50/15
1,2-Ethandiol (Ethylene glycol)	NIOSH 5523	GC-FID	XAD-7 OVS	60
Ethanolamine (2-Aminoethanol)	NIOSH 2007	GC-FID	Silica gel tube	100/25
2-Ethoxyethanol	NIOSH 1403	GC-FID	Charcoal tube	50/15
2-Ethoxyethanol	OSHA 79	GC-FID	Charcoal tube	50/15
2-Ethoxyethyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
2-Ethoxyethyl acetate	OSHA 79	GC-FID	Charcoal tube	50/15
Ethrane (Enflurane)	OSHA 29	GC-FID	Charcoal tube	60
Ethyl 2-cyanoacrylate	OSHA 55	HPLC-UV	XAD-7 tube (treated)	125/25
Ethyl acetate	NIOSH 1457	GC-FID	Charcoal tube	50
Ethyl acrylate	NIOSH 1450	GC-FID	Charcoal tube	50/15

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Ethyl alcohol	NIOSH 1400	GC-FID	Charcoal tube	50/15
Ethyl alcohol	OSHA 100	GC-FID	Anasorb 747 tube (2)	65
Ethyl amine	NIOSH S144	GC-FID	Silica gel tube	100/50
Ethyl amine	OSHA 36	HPLC-UV	XAD-7 tube (treated)	125
Ethyl benzene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Ethyl bromide	NIOSH 1011	GC-FID	Charcoal tube	50
Ethyl butyl ketone	NIOSH 1301	GC-FID	Charcoal tube	50/15
Ethyl cellosolve (see 2-Ethoxyethanol)				
Ethyl chloride	NIOSH 2519	GC-FID	Charcoal tube	60
Ethyl-3-ethoxypropionate	OSHA PV2025	GC-FID	Charcoal Tube	50
Ethyl ether	NIOSH 1610	GC-FID	Charcoal tube	50/15
Ethyl formate	NIOSH 1452	GC-FID	Charcoal tube	50
2-Ethyl hexanol	OSHA CSI	GC-FID	Charcoal tube	50
Ethyl hexyl acetate	OSHA CSI	GC-FID	Charcoal tube	50
2-Ethyl hexyl acrylate	OSHA PV2026	GC-FID	Silica gel tube	60
Ethyl Lactate	OSHA PV2081	GC-FID	Charcoal Tube	50
Ethyl methacrylate	NIOSH 2537	GC-FID	XAD-2	50/15
Ethyl silicate	NIOSH S264	GC-FID	XAD-2 tube	80
Ethylene (see Fixed Gas Analysis Section)				
Ethylene diamine	NIOSH 2540	HPLC-UV	XAD-2 tube (treated)	125/25
Ethylene diamine	OSHA 60	HPLC-UV	XAD-2 tube	125/25
Ethylene dibromide	NIOSH 1008	GC-ECD	Charcoal tube	80
Ethylene dibromide	OSHA 02	GC-ECD	Charcoal tube	80
Ethylene dichloride	NIOSH 1003	GF-FID	Charcoal tube	50/15
Ethylene dichloride	OSHA 03	GC-ECD	Charcoal tube	80
Ethylene glycol	NIOSH 5523	GC-FID	OVS tube	60/20
Ethylene glycol dinitrate	NIOSH 2507	GC-ECD	Tenax tube	80
Ethylene glycol dinitrate	OSHA 43	HPLC	Tenax tube	125/35
Ethylene glycol monohexyl ether	OSHA CSI	GC-FID	Charcoal tube	50
Ethylene oxide	NIOSH 1614	GC-ECD	Charcoal tube (treated)	100
Ethylene oxide	OSHA 50	GC-ECD	Charcoal tube	100
Ethylvinyl benzene	OHSA 89	GC-FID	Charcoal tube (treated)	50/15
Fibers (see specific Fibers or Asbestos)				
Flax dust (see Dust, Respirable or Total)				
Fluoranthene (see PNA)				
Fluorene (see PNA)				
Fluorides	NIOSH 7906	IC	Treated filter	120
Fluorine	OSHA CSI	IC	Impinger	50
Fluorotrichloromethane	NIOSH 1006	GC-FID	Charcoal tube	60
Formaldehyde	NIOSH 3500	VAS	Impinger	40
Formaldehyde	NIOSH 2541	GC-FID	XAD-2 tube (treated)	50
Formaldehyde	OSHA 52	GC-NPD	XAD-2 tube (treated)	100
Formaldehyde	NIOSH 2016	HPLC-UV	Silica Gel (treated)	80
Formaldehyde	OSHA ID 205	VAS	POVM (not included)	40
Formaldehyde on dust	NIOSH 5700	HPLC-UV	PVC filter	150
Formaldehyde (see Aldehyde screen)				
Formamide	OSHA CSI	GC-NPD	Silica gel tube	80
Formic acid	NIOSH 2011	IC	Filter/tube	60
Formic acid	OSHA ID 112	IC	Impinger	60
Freon-11 (see Trichlorofluoromethane)				
Furfural	NIOSH 2529	GC-FID	XAD-2 tube	60
Furfural	OSHA 72	GC-FID	Petroleum Charcoal tube	70
Furfuryl alcohol	NIOSH 2505	GC-FID	Porapak Q tube	50
Gasoline	NIOSH 1550 Mod	GC-FID	Charcoal tube	65

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Glass, Fibrous	NIOSH 7400	PCM	MCE filter	12
Glutaraldehyde	NIOSH 2532	HPLC-UV	Silica gel tube (treated)	80
Glutaraldehyde	OSHA 64	HPLC-UV	Treated filter	80
Glycerin mist (see Dust, Total or Respirable)				
Glycidol	NIOSH 1608	GC-FID	Charcoal tube	50
Glycols (various compounds)	NIOSH 5523	GC-FID	OVS tube	60/20
Glycol Ethers	NIOSH 2554	GC-FID	Anasorb 747	50/15
Gold	OSHA ID121	ICP	PVC filter	45
Grain dust (see Dust, Total or Respirable)				
Gypsum (see Dust Respirable or Total)				
Halothane	OSHA 29	GC-FID	Charcoal tube	60
Heptachlor	NIOSH S287	GC-ECD	Chromosorb 102 tube	80
Heptanal (see Aldehyde Screen)				
Heptane	NIOSH 1500	GC-FID	Charcoal tube	50/15
1-Heptene	OSHA CSI	GC-FID	Charcoal tube	60
Hexachloro-1,3-cyclopentadiene	NIOSH 2518	GC-ECD	Porapak Tube	80
Hexachlorobenzene (HCB)	OSHA CSI	GC-ECD	Glass fiber filter	80
Hexachlorobutadiene	NIOSH 2543	GC-ECD	XAD-2 tube	80
Hexachlorocyclopentadiene	NIOSH 2518	GC-ECD	Porapak T tube	80
Hexachloroethane	NIOSH 1003	GC-FID	Charcoal tube	50/15
Hexamethylene diisocyanate (HDI)	OSHA 42	HPLC-UV	Treated filter	80/25
Hexanal (see Aldehyde Screen)				
Hexane	NIOSH 1500	GC-FID	Charcoal tube	50/15
2-Hexanone (MIBK)	NIOSH 1300	GC-FID	Charcoal tube	50/15
Hexavalent chromium (see Chromium hexavalent)				
Hexone (see Methyl isobutyl ketone)				
Hexylene glycol	OSHA PV2101	GC-FID	Charcoal tube	60
HMDS(Hexamethyldisiloxane)	OSHA CSI	GC-FID	XAD-2	50
Hydrazine	NIOSH 3503	VAS	Impinger	60
Hydrazine	OSHA 20	HPLC-UV	Firebrick tube (Treated)	125
Hydrazine	OSHA 108	HPLC-UV	Treated GFF	80
Hydrazoic acid	OSHA ID 211(mod)	IC	Treated tube filter	80
Hydrobromic acid	NIOSH 7903	IC	Silica gel tube	50/15
Hydrocarbons (total as hexane)	NIOSH 1500	GC-FID	Charcoal tube	60
Hydrogen bromide	NIOSH 7903	IC	Silica gel tube	50/15
Hydrogen chloride	NIOSH 7903	IC	Silica gel tube	50/15
Hydrogen cyanide	NIOSH 7904	VAS	MCE filter	40
Hydrogen cyanide	NIOSH 6010	VAS	Soda lime tube	40
Hydrogen fluoride	NIOSH 7903	IC	Silica gel tube	50/15
Hydrogen peroxide	OSHA ID VI-6	CLR	Impinger	60
Hydrogen selenide	OSHA CSI	ICP	Impinger	40
Hydrogen sulfide	NIOSH 6013	IC	Orbo 34 tube	50
Hydrogenated terphenyls	OSHA CSI	GC-FID	PTFE filter	65
Hydroquinone	NIOSH 5004	HPLC-UV	MCE filter	80
Hydroquinone	OSHA PV2094	HPLC-UV	XAD-7 (treated)	80
Inorganic acids	NIOSH 7903	IC	Silica gel tube (Washed)	50/15
Iodine	NIOSH 6005	IC	Anasorb Tube	60
Iodine (Vapor)	OSHA ID 212	IC	Anasorb tube (Treated)	60
Iron	NIOSH 7300	ICP	MCE filter	30/10
Iron	OSHA ID 125G	ICP	MCE filter	30/10
Isoamyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Isoamyl alcohol	NIOSH 1402	GC-FID	Charcoal tube	50/15
Isobutyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Isobutyl alcohol	NIOSH 1401	GC-FID	Charcoal tube	50/15

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DCL-Novato, CA: 800-280-8071

<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Isobutyraldehyde (see Aldehydes)				
Isophorone	NIOSH 2508	GC-FID	Charcoal tube	60
Isophorone	NIOSH 2556	GC-FID	XAD-4	60
Isophorone diisocyanate	OSHA 42	HPLC-UV	Treated filter	80/25
Isopropyl acetate	NIOSH 1454	GC-FID	Charcoal tube	50
Isopropyl acetate	NIOSH 1460	GC-FID	Charcoal tube	50
Isopropyl alcohol	NIOSH 1400	GC-FID	Charcoal tube	50/15
Isopropyl amine	NIOSH 2010	GC-FID	Silica Gel tube	100/50
Isopropyl ether	NIOSH 1618	GC-FID	Charcoal tube	60
Isovaleraldehyde (see Aldehyde screen)				
Jet Fuel	OSHA CSI	GC-FID	Charcoal tube	60
Kerosene	NIOSH 1550	GC-FID	Charcoal tube	60
Ketones I	NIOSH 2555	GC-FID	CMS	50/15
Ketones II	NIOSH 2553	GC-FID	CMS	50/15
Lead	NIOSH 7300	ICP	MCE filter	30/10
Lead	OSHA ID 125G	ICP	MCE filter	30/10
Lead	NIOSH 9100	ICP	Ghost Wipe™	30/10
Limonene	OSHA PV2036	GC-FID	Charcoal tube	60
Lindane	NIOSH 5602	GC-ECD	OVS	80
Lithium	NIOSH 7300	ICP	MCE filter	30/10
Magnesium	NIOSH 7300	ICP	MCE filter	30/10
Magnesium oxide (as Mg)	OSHA ID 121 mod	ICP	MCE filter	30/10
Malathion (EPN)	NIOSH 5012	GC-ECD	Glass fiber filter	80/35
Malathion	NIOSH 5600 mod	GC-ECD	OVS tube	80/35
Malathion (EPN)	OSHA 62	GC-FPD	OVS tube	80/35
Maleic anhydride	NIOSH 3512	HPLC-UV	Impinger	80
Maleic anhydride	OSHA 25	HPLC-UV	XAD-2 tube (treated)	80
Maleic anhydride	OSHA 86	HPLC-UV	Treated filter	80
Manganese	NIOSH 7300	ICP	MCE filter	30/10
Manganese	OSHA ID121(mod)	ICP	MCE filter	30/10
Manganese	OSHA ID 125G	ICP	MCE filter	30/10
MIBK (2-Hexanone)	NIOSH 1300	GC-FID	Charcoal tube	50/15
MDA (see 4,4'-Methylene dianiline)				
MDI (methylene diphenyl diisocyanate)	OSHA 47	HPLC	Treated filter	80
MEK (see 2-Butanone)				
Mercury	NIOSH 6009	CVAA	Hopcalite tube	40
Mercury, inorganic	OSHA ID 145	CVAA	MCE filter	40
Mercury, vapor	OSHA ID 140	CVAA	Hopcalite tube	40
Metals scan (elemental scan)	NIOSH 7300	ICP	MCE filter	115
Methacrylic acid	OSHA PV2005	HPLC-UV	Anasorb 708 tube	125
Methane	DCL In House	GC-FID	Tedlar bag	100
Methanol (see Methyl alcohol)				
2-Methoxy-1-propanol	OSHA 99	GC-FID	Charcoal tube	50/15
2-Methoxy-1-propyl acetate	OSHA 99	GC-FID	Charcoal tube	50/15
1-Methoxy-2-propanol	OSHA 99	GC-FID	Charcoal tube	50/15
1-Methoxy-2-propyl acetate	OSHA 99	GC-FID	Charcoal tube	50/15
Methoxychlor	OSHA CSI	GC-ECD	OVS tube	75
2-Methoxyethanol (see Methyl cellosolve)				
Methoxyflurane	OSHA CSI	GC-FID	Charcoal tube (2)	60
4-Methoxyphenol	OSHA CSI	HPLC-UV	XAD-7 tube	125
Methyl acetate	NIOSH 1458	GC-FID	Charcoal tube	65
Methyl acrylate	NIOSH 1459	GC-FID	Charcoal tube	60
Methyl acrylate	NIOSH 2552	GC-FID	CMS	60
Methyl alcohol	NIOSH 2000	GC-FID	Silica gel tube	50

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Methyl alcohol	OSHA 91	GC-FID	Anasorb 747 (2)	60
Methyl amine	NIOSH 277	GC-FID	Silica gel tube	100/20
Methyl amine	OSHA 40	HPLC	XAD-7 tube (treated)	125
Methyl bromide	OSHA PV2040	GC-FID	Pet. Charcoal tube	60
Methyl butyl ketone	NIOSH 1300	GC-FID	Charcoal tube	50/15
Methyl cellosolve (2-methoxyethanol)	NIOSH 1403	GC-FID	Charcoal tube	50/15
Methyl cellosolve (2-methoxyethanol)	OSHA 79	GC-FID	Charcoal tube	50/15
Methyl cellosolve acetate	NIOSH 1451	GC-FID	Charcoal tube	50
Methyl cellosolve acetate	OSHA 79	GC-FID	Charcoal tube	50/15
Methyl chloride	NIOSH 1001	GC-FID	Charcoal tube	60
Methyl chloroform (see 1,1,1-Trichloroethane)				
Methyl cyclohexane	NIOSH 1500	GC-FID	Charcoal tube	50/15
Methyl cyclohexanone	NIOSH 2521	GC-FID	Porapak-Q tube	50
Methyl ethyl ketone (see 2-Butanone)				
Methyl iodide	NIOSH 1014	GC-FID	Charcoal tube	60
Methyl isoamyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
Methyl isoamyl ketone	OSHA PV2042	GC-FID	Charcoal tube	50/15
Methyl isobutyl carbinol	NIOSH 1402	GC-FID	Charcoal tube	50/15
Methyl isobutyl ketone (Hexone)	NIOSH 1300	GC-FID	Charcoal tube	50/15
Methyl isocyanate	OSHA 54	HPLC-UV	XAD-7 tube	80
Methyl isothiocyanate	OSHA CSI	GC-FID	Charcoal tube	65
Methyl methacrylate	NIOSH 2537	GC-FID	XAD-2 tube	50/15
Methyl methacrylate	OSHA 94	GC-FID	Charcoal tube (treated)	50
Methyl n-amyl ketone (2-Heptanone)	NIOSH 1301	GC-FID	Charcoal tube	50/15
5-Methyl o-anisidine	OSHA CSI	HPLC-UV	XAD-2 tube	160
Methyl parathion	NIOSH 5600 (mod)	GC-ECD	OVS tube	80/35
2-Methyl pentane	OSHA CSI	GC-FID	Charcoal tube	60/15
3-Methyl pentane	OSHA CSI	GC-FID	Charcoal tube	60/15
Methyl silicate	OSHA CSI	GC-FID	XAD-2 tube	60/15
α -Methyl styrene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Methyl-2-cyanoacrylate (MCA)	OSHA 55	HPLC-UV	XAD-7 tube (treated)	125/25
1-Methyl-2-pyrrolidinone	OSHA PV2043	GC-FID	Charcoal tube	50
5-Methyl-3-heptanone	NIOSH 1301	GC-FID	Charcoal tube	50/15
Methyl-tert-butylether (MTBE)	NIOSH 1615	GC-FID	Charcoal tube (2)	50
4,4-Methylene diphenylisocyanate (see MDI)				
Methylene chloride	NIOSH 1005	GC-FID	Charcoal tube (2)	50
Methylene chloride	OSHA 59	GC-FID	Charcoal tube	50
Methylene chloride	OSHA 80	GC-FID	Anasorb CMS tube	50
4,4'-Methylene dianiline (MDA)	NIOSH 5029	HPLC-UV	Treated filter	120
4,4'-Methylene dianiline (MDA)	OSHA 57	GC-ECD	Treated filter	120
n-Methyl-2-pyrrolidinone	NIOSH 1302	GC-FID	Charcoal Tube	50
Mineral oil mist	NIOSH 5026	IR	MCE filter	60
Mineral spirits	NIOSH 1550	GC-FID	Charcoal tube	60
Mineral wool fiber (see Dust Respirable, Dust Total, or asbestos)				
Molybdenum	NIOSH 7300	ICP	MCE filter	30/10
Molybdenum	OSHA ID 125G	ICP	MCE filter	30/10
Monoethanol amine (2-Aminoethanol)	NIOSH 2007	GC-FID	Silica gel tube	75/25
Monomethyl hydrazine	NIOSH 3510	VAS	Impinger	60
Monomethyl hydrazine	OSHA 20	HPLC-UV	Firebrick tube (treated)	125
Naphtha (coal tar)	NIOSH 1550	GC-FID	Charcoal tube	60
Naphthalene	OSHA 35	GC-FID	Chromosorb 106 tube	50
Naphthas (see specific compounds)				
Nickel	NIOSH 7300	ICP	MCE filter	30/10
Nickel (compounds as Ni)	OSHA ID 125G	ICP	MCE filter	30/10

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Nickel carbonyl	NIOSH 6007	ICP	Special sorbent tube	40
Nicotine	NIOSH 2544 mod	GC-FID	XAD-2 tube	65
Nitric acid	NIOSH 7903	IC	Silica gel tube	50/15
Nitric acid	OSHA ID 165SG	IC	Silica gel tube	50/15
Nitric Oxide	NIOSH 6014	VAS	TEA tube/Oxidizer	60
Nitric Oxide/Nitrogen Dioxide	NIOSH 6014	VAS	TEA tube/oxidizer	120
Nitric Oxide	OSHA ID 190	VAS	TEA tube	60
p-Nitroaniline	NIOSH 5033	HPLC-UV	MCE filter	125
Nitrobenzene	NIOSH 2005	GC-FID	Silica gel tube	50
Nitroethane	NIOSH 2526	GC-FID	XAD-2 tube (2)	60
Nitrogen Dioxide	NIOSH 6014	VAS	TEA tube	60
Nitrogen Dioxide	OSHA ID182	VAS	TEA tube	60
Nitroglycerin	NIOSH 2507	GC-ECD	Tenax tube	80
Nitroglycerin	OSHA 43	HPLC-UV	Tenax tube	125/35
Nitromethane	NIOSH 2527	GC-FID	Chromosorb 106 tube	60
p-Nitrophenol	OSHA CSI	HPLC-UV	Impinger	80
Nitrotoluene	OSHA CSI	GC-FID	Silica gel tube	75
Nonane	OSHA CSI	GC-FID	Charcoal tube	60
Nuisance dust (see Dust Respirable or Total)				
n-Octane	NIOSH 1500	GC-FID	Charcoal tube	50/15
Oil mist (Mineral)	NIOSH 5026	IR	PVC filter	60
Organophosphorus pesticides	NIOSH 5600 (mod)	GC-ECD	OVS tube	call
Oxalic acid	OSHA CSI	IC	Glass Fiber filter	60
Ozone	OSHA ID 214	IC	Treated filter	70
PAH (see PNA)				
Paraffin wax fume	OSHA PV2047	GC-FID	Glass fiber filter	50
Paraquat	NIOSH 5003	HPLC-UV	PTFE filter	80
Particulates (see Dust, Respirable or Total)				
PCBs	NIOSH 5503	GC-ECD	GFF/Florasil tube	75
PCBs	NIOSH 5503	GC-ECD	Wipe	75
Pentachlorobenzene	NIOSH 5517	GC-ECD	Filter/tube	75/35
Pentachloroethane	NIOSH 2517	GC-ECD	Porapak tube	60
Pentachlorophenol	NIOSH 5512	HPLC-UV	Impinger	80
Pentachlorophenol	OSHA 39	HPLC-UV	XAD-7 tube	125
n-Pentane	NIOSH 1500	GC-FID	Charcoal tube	50/15
2-Pentanone	NIOSH 1300	GC-FID	Charcoal tube	50/15
1-Pentene	OSHA CSI	GC-FID	Charcoal tube	65
Perchloroethylene (see Tetrachloroethylene)				
Perlite (see Dust, Respirable or Total)				
Petroleum distillate	NIOSH 1550	GC-FID	Charcoal tube	60
Petroleum ether (Benzin)	NIOSH 1550	GC-FID	Charcoal tube	60
Petroleum naphtha	NIOSH 1550	GC-FID	Charcoal tube	60
Phenol	NIOSH 2546	GC-FID	XAD-7 tube	60
Phenol	OSHA 32	HPLC-UV	XAD-7 tube	80
Phenyl ether	NIOSH 1617	GC-FID	Charcoal tube	60
Phenyl ether -biphenyl mix	NIOSH 2013	GC-FID	Silica gel tube	80
Phenyl hydrazine	NIOSH 3518	VAS	Impinger	50
Phenylene diamine	OSHA 87	HPLC-UV	Treated filter	125
Phosphine	OSHA 1003	ICP	Treated Filter	50
Phosphoric acid	NIOSH 7903	IC	Silica gel tube	50/15
Phosphoric acid	OSHA ID 111	IC	MCE filter	50
Phosphoric acid	OSHA ID 165SG	IC	Silica gel tube	50
Phosphorus	NIOSH 7300	ICP	MCE filter	30/10
Phthalic anhydride	OSHA 90	HPLC-UV	Glass fiber filter	125

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
α-Pinene	OSHA CSI	GC-FID	Charcoal tube	60
Plaster (see Dust, Respirable or Total)				
Platinum	NIOSH 7300	ICP	MCE filter	30/10
PNA (individual)	NIOSH 5506	HPLC-UV	Filter/tube	80/35
PNA (Screen)	NIOSH 5506	HPLC-UV	Filter/Tube	220
PNA (individual)	NIOSH 5515	GC-FID	Filter/ Tube	80/35
PNA (Screen)	NIOSH 5515	GC-FID	Filter/Tube	220
PNA (5 compounds)	OSHA 58	HPLC	Glass fiber filter	150
Polychlorinated biphenyls (PCBs)	NIOSH 5503	GC-ECD	Florisil tube/GFF	50
Polynuclear aromatic hydrocarbons (see PNA)				
Portland cement (see Dust, Respirable or Total)				
Potassium	NIOSH 7300	ICP	MCE filter	30/10
Propane (see Light Gas Section)				
Propionaldehyde (see Aldehydes Section)				
Propionic acid	OSHA CSI	GC-FID	Charcoal tube	65
n-Propyl acetate	NIOSH 1450	GC-FID	Charcoal tube	50/15
n-Propyl alcohol	NIOSH 1401	GC-FID	Charcoal tube	50/15
Propylene dichloride	OSHA 7	GC-FID	Charcoal tube	50
1,2-Propylene glycol dinitrate	OSHA 43	HPLC-UV	Tenax tube	125/35
Propylene Glycol	NIOSH 5523	GC-FID	OVS tube	60/20
Propylene glycol monomethyl ether	OSHA 99	GC-FID	Charcoal tube	50/15
Propylene glycol monomethyl ether acetate	OSHA 99	GC-FID	Charcoal tube	50/15
Propylene amine	OSHA CSI	HPLC-UV	Impinger	80
Propylene oxide	NIOSH 1612	GC-FID	Charcoal tube	60
Pyrene (see PNA)				
Pyrethrum	NIOSH 5008	HPLC-UV	Glass fiber filter	80
Pyrethrum	OSHA 70	GC-ECD	OVS tube	80
Pyridine	NIOSH 1613	GC-FID	Charcoal tube	50
Quartz (see Silica, crystalline)				
Quinone	NIOSH S181	HPLC	XAD-2 tube	160
Ribavirin	NIOSH 5027	HPLC-UV	Glass fiber filter	125
Rouge (see Dust, Respirable or Total)				
Rubidium	OSHA CSI	ICP	Impinger	30/10
Selenium	NIOSH 7300	ICP	MCE filter	30/10
Sevin (Carbaryl)	OSHA 63	HPLC-UV	OVS	125
Silica, crystalline (Quartz)	NIOSH 7500	XRD	PVC filter	50
Silica, crystalline (Quartz, Cristobalite, Tridymite)	NIOSH 7500	XRD	PVC Filter	70
Silica, crystalline (3 analytes)	NIOSH 7500	XRD	Bulk	120
Silver	NIOSH 7300	ICP	MCE filter	30/10
Soapstone (see Dust, Respirable or Total)				
Sodium azide	OSHA ID 211(mod)	IC	Filter/ tube	80
Solder fume (see Elemental scan)				
Starch (see Dust, Respirable or Total)				
Stibine	NIOSH 6008 (mod)	ICP	Silica Gel (treated)	50
Stoddard solvent	NIOSH 1550	GC-FID	Charcoal tube	60
Stoddard solvent	OSHA 48	GC-FID	Charcoal tube	60
Strontium	OSHA CSI	ICP	MCE filter	30/10
Strychnine	NIOSH 5016	HPLC	Glass fiber filter	125
Styrene (phenylethylene)	NIOSH 1501	GC-FID	Charcoal tube	50/15
Styrene (phenylethylene)	OSHA 09	GC-FID	Charcoal tube (treated)	50
Sucrose (see Dust, Respirable or Total)				
Sulfur Dioxide	OSHA ID 104	IC	Impinger	60
Sulfur Dioxide	OSHA ID 200	IC	Anasorb tube(treated)	60

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<u>Analyte</u>	<u>Method</u>	<u>Instrumentation</u>	<u>Medium</u>	<u>Fee \$</u>
Sulfur Dioxide/total sulfates	NIOSH 6004	IC	Treated filter	50/50
Sulfuric Acid	NIOSH 7903	IC	Silica gel tube	50/15
Sulfuric Acid	OSHA ID 113	IC	MCE filter	50/15
Sulfuric Acid	OSHA ID 165SG	IC	Silica gel tube	50/15
2,4,5-T	NIOSH 5001	HPLC-UV	Glass fiber filter	125/35
Talc (see Dust, Respirable or Total)				
TDI (see Toluene-2,4-Diisocyanate)				
Tellurium	NIOSH 7300	ICP	MCE filter	30/10
1,1,2,2-Tetrabromoethane	NIOSH 2003	GC-FID	Silica gel tube	65
1,1,2,2-Tetrachloro-1,2-Difluoroethane	NIOSH 1016	GC-FID	Charcoal tube	60/20
1,1,1,2-Tetrachloro-2,2-Difluoroethane	NIOSH 1016	GC-FID	Charcoal tube	60/20
1,2,4,5-Tetrachlorobenzene	NIOSH 5517	GC-ECD	Filter tube	75/35
1,1,2,2-Tetrachloroethane	NIOSH 1019	GC-FID	Petroleum charcoal tube	60
Tetrachloroethylene	NIOSH 1003	GC-FID	Charcoal tube	50/15
Tetrachlorophenol	OSHA 45	HPLC-UV	XAD-7 tube (2)	125
Tetraethyl lead	OSHA 121 (mod)	GC-FID	Charcoal tube	100
Tetrahydrofuran	NIOSH 1609	GC-FID	Charcoal tube	50/15
Thallium	NIOSH 7300	ICP	MCE filter	30/10
Thioglycolic acid	OSHA CSI	HPLC-UV	Impinger	80
Thiram	NIOSH 5005	HPLC-UV	PTFE filter	80
Tin	NIOSH 7300	ICP	MCE filter	30/10
Titanium	NIOSH 7300	ICP	MCE filter	30/10
o-Tolidine	OSHA 71	GC-ECD	Treated filter	75
o-Tolidine based dyes	NIOSH 5013	HPLC-UV	PTFE filter	125/35
Toluene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Toluene-2,4-diisocyanate (TDI)	OSHA 42	HPLC-UV	Treated filter	80/25
Toluene-2,6-diisocyanate (TDI)	OSHA 42	HPLC-LC	Treated filter	80/25
2,4-Toluenediamine	NIOSH 5516	HPLC-UV	Impinger	125/25
2,4-Toluenediamine	OSHA 65	GC-ECD	Treated filter	80/25
2,6-Toluenediamine	NIOSH 5516	HPLC-UV	Impinger	125/25
2,6-Toluenediamine	OSHA 65	GC-ECD	Treated filter	80/25
m,o,p-Toluidine	OSHA 73	GC-ECD	Treated filter	80/30
o-Toluidine	NIOSH 2002	GC-FID	Silica gel tube	75/25
Total hydrocarbons (as hexane)	NIOSH 1550	GC-FID	Charcoal tube	60
Toxaphene (Chlorinated camphene)	NIOSH 5039	GC-ECD	MCE filter	80
Tremolite fibers (see Asbestos Analysis Section)				
Tributyl phosphate	NIOSH 5034(mod)	GC-FID	MCE filter	60
1,1,2-Trichloro-1,2,2-trifluoroethane	NIOSH 1020	GC-FID	Charcoal tube	50
1,2,4-Trichlorobenzene	NIOSH 5517	GC-ECD	Filter/ tube	75/35
1,1,2-Trichloroethane	NIOSH 1003	GC-FID	Charcoal tube	50/15
1,1,2-Trichloroethane	OSHA 11	GC-FID	Charcoal tube	50
1,1,1-Trichloroethane	NIOSH 1003	GC-FID	Charcoal tube	50/15
Trichloroethylene	NIOSH 1022	GC-FID	Charcoal tube	50/15
Trichlorofluoromethane	NIOSH 1006	GC-FID	Charcoal tube	60
2,4,5-Trichlorophenoxy acetic acid	NIOSH 5001	HPLC-UV	Glass Fiber Filter	125/35
1,2,3-Trichloropropane	NIOSH 1003	GC-FID	Charcoal tube	50/15
Triethanolamine	OSHA CSI	GC-FID	Glass Fiber Filter	100
Triethyl amine	NIOSH 2010	GC-FID	Silica gel tube	100/50
Triethyl amine	OSHA PV2060	GC-FID	XAD-7 (treated)	100
Triethylene tetramine	NIOSH 2540	HPLC-UV	XAD-2 tube (treated)	125/25
Triethylene tetramine	OSHA 60	HPLC-UV	XAD-2 tube (treated)	125/25
Trifluorobromomethane	NIOSH 1017	GC-FID	Charcoal tube	60
Trimethylbenzene	NIOSH 1501 (mod)	GC-FID	Charcoal tube	50/15
Trinitrotoluene (TNT)	OSHA 44 (mod)	GC-ECD	OVS (Tenax tube)	75/25

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Triorthocresyl phosphate	NIOSH 5037	GC-FID	MCE filter	75
Triphenyl phosphate	NIOSH 5038	GC-FID	MCE filter	75
Tungsten	NIOSH 7300	ICP	MCE filter	30/10
Tungsten (sol & insol)	OSHA ID 213	ICP	MCE filter	95
Turpentine	NIOSH 1551	GC-FID	Charcoal tube	60
Uranium	NIOSH 7300	ICP	MCE filter	40
Valeraldehyde	NIOSH 2536	GC-FID	XAD-2 tube (treated)	60/20
n-Valeraldehyde	OSHA 85	HPLC-UV	Treated filter	125
Valeraldehyde (see Aldehyde screen)				
Vanadium	OSHA ID 125G	ICP	MCE filter	30/10
Vanadium	NIOSH 7300	ICP	MCE filter	30/10
Vinyl acetate	NIOSH 1453	GC-FID	Carbon sieve tube	50
Vinyl acetate	OSHA 51	GC-FID	Carbon sieve tube	50
Vinyl bromide	NIOSH 1009	GC-FID	Charcoal tube	50
Vinyl bromide	OSHA 08	GC-FID	Charcoal tube	50
Vinyl chloride	NIOSH 1007	GC-FID	Charcoal tube (2)	50
Vinyl chloride	OSHA 75	GC-FID	Anasorb CMS tube	60
Vinyl Pyrrolidinone	OSHA PV2106	GC-FID	Charcoal tube	60
Vinylidene chloride	NIOSH 1015	GC-FID	Charcoal tube	60
Vinylidene chloride	OSHA 19	GC-FID	Charcoal tube	60
VM&P naphtha	NIOSH 1550	GC-FID	Charcoal tube	60
VM&P naphtha	OSHA 48	GC-FID	Charcoal tube	60
Volatile organic compounds (see Indoor Air Quality Analyses Section)				
Welding fumes (elemental scan)	NIOSH 7300	ICP	MCE filter	95
Wollastonite (see Dust, Respirable or Total)				
Wood dust (see Dust, Respirable or Total)				
Xylene	NIOSH 1501	GC-FID	Charcoal tube	50/15
Yttrium	NIOSH 7300	ICP	MCE filter	30/10
Zinc	NIOSH 7300	ICP	MCE filter	30/10
Zinc	OSHA ID 125	ICP	MCE filter	30/10

NIOSH 4th Edition Methods

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<u>NIOSH Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
0500	Particulates, total	GR	PVC filter (preweighed)
0600	Particulates, respirable	GR	PVC filter (preweighed)
1000	Allyl chloride	GC-FID	Charcoal tube
1001	Methyl chloride	GC-FID	Charcoal tube
1002	Chloroprene	GC-FID	Charcoal tube
1003	Halogenated hydrocarbons	GC-FID	Charcoal tube
1004	Dichloroethyl ether	GC-FID	Charcoal tube
1005	Methylene chloride	GC-FID	Charcoal tube (2)
1006	Fluorotrichloromethane	GC-FID	Charcoal tube
1007	Vinyl chloride	GC-FID	Charcoal tube (2)
1008	Ethylene dibromide	GC-ECD	Charcoal tube
1009	Vinyl bromide	GC-FID	Charcoal tube
1010	Epichlorohydrin	GC-FID	Charcoal tube
1011	Ethyl bromide	GC-FID	Charcoal tube
1012	Difluorodibromomethane	GC-FID	Charcoal tube
1013	Propylene dichloride	GC-FID	Petroleum Charcoal tube
1014	Methyl iodide	GC-FID	Charcoal tube
1015	Vinylidene chloride	GC-FID	Charcoal tube
1016	Tetrachlorodifluoroethane	GC-FID	Charcoal tube
1017	Bromotrifluoromethane	GC-FID	Charcoal tube
1018	Dichlorodifluoromethane	GC-FID	Charcoal tube
1019	1,1,2,2-Tetrachloroethane	GC-FID	Petroleum Charcoal tube
1020	1,1,2-Trichloro-1,2,2-Trifluoroethane	GC-FID	Charcoal tube
1022	Trichloroethylene	GC-FID	Charcoal tube
1024	1,3-Butadiene	GC-FID	Charcoal tube
1025	1- & 2- Bromopropane	CG-FID	CT or OVM
1300	Ketones I	GC-FID	Charcoal tube
1301	Ketones II	GC-FID	Charcoal tube
1302	n-Methyl-2-pyrrolidinone	GC-FID	Charcoal tube
1400	Alcohols I	GC-FID	Charcoal tube
1401	Alcohols II	GC-FID	Charcoal tube
1402	Alcohols III	GC-FID	Charcoal tube
1403	Alcohols IV	GC-FID	Charcoal tube
1404	Methylcyclohexanol	GC-FID	Charcoal tube
1405	Alcohols Combines	GC-FID	Charcoal tube
1450	Esters I	GC-FID	Charcoal tube
1451	Methyl cellosolve acetate	GC-FID	Charcoal tube
1452	Ethyl formate	GC-FID	Charcoal tube
1453	Vinyl acetate	GC-FID	Carbon sieve tube
1454	Isopropyl acetate	GC-FID	Charcoal tube
1458	Methyl acetate	GC-FID	Charcoal tube
1459	Methyl acrylate	GC-FID	Charcoal tube
1460	Isopropyl Acetate	GC-FID	Charcoal Tube
1500	Hydrocarbons	GC-FID	Charcoal tube
1501	Aromatic hydrocarbons	GC-FID	Charcoal tube
1550	Naphtha	GC-FID	Charcoal tube
1551	Turpentine	GC-FID	Charcoal tube
1552	Turpenes	GC-FID	Charcoal tube
1600	Carbon disulfide	GC-FPD	Charcoal/dry tube
1601	1,1-Dichloro-1-nitroethane	GC-FID	Petroleum Charcoal tube
1602	Dioxane	GC-FID	Charcoal tube

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<u>NIOSH Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
1603	Acetic acid	GC-FID	Charcoal tube
1604	Acrylonitrile	GC-FID	Charcoal tube
1606	Acetonitrile	GC-FID	Charcoal tube
1608	Glycidol	GC-FID	Charcoal tube
1609	Tetrahydrofuran	GC-FID	Charcoal tube
1610	Ethyl ether	GC-FID	Charcoal tube
1611	Methylal	GC-FID	Charcoal tube
1612	Propylene oxide	GC-FID	Charcoal tube
1613	Pyridine	GC-FID	Charcoal tube
1614	Ethylene oxide	GC-ECD	Charcoal tube
1615	Methyl tert-Butyl ether	GC-FID	Charcoal tube (2)
1616	n-Butyl glycidyl ether	GC-FID	Charcoal tube
1617	Phenyl ether	GC-FID	Charcoal tube
1618	Isopropyl ether	GC-FID	Charcoal tube
1619	Phenyl glycidyl ether	GC-FID	Charcoal tube
1620	Isopropyl glycidyl ether	GC-FID	Charcoal tube
2000	Methanol	GC-FID	Silica gel tube
2002	Amines, aromatic	GC-FID	Silica gel tube
2003	1,1,2,2-Tetrabromoethane	GC-FID	Silica gel tube
2004	Dimethyl acetamide	GC-FID	Silica gel tube
2005	Nitrobenzene	GC-FID	Silica gel tube
2007	Aminoethanol compounds 1	GC-FID	Silica gel tube
2008	Chloroacetic acid	IC	Silica gel tube
2010	Amines, aliphatic	GC-FID	Silica gel tube
2011	Formic acid	IC	Filter/tube
2012	n-Butylamine	GC-FID	Silica gel tube (treated)
2013	Phenyl ether & Diphenyl	GC-FID	Silica gel tube
2014	p-Chlorophenol	HPLC-UV	Silica gel tube
2015	Chloroacetaldehyde	GC-ECD	Silica gel tube
2016	Formaldehyde	HPLC-UV	Silica gel tube (treated)
2017	Aniline, o-Toluidene, Nitrobenzene	GC-FID	GFF/Silica Gel (treated)
2018	Aliphatic Aldehydes	HPLC-UV	Silica gel tube (treated)
2500	Methyl Ethyl Ketone (2-Butanone)	GC-FID	Anasorb tube
2501	Acrolein	GC-NPD	XAD-2 tube
2505	Furfuryl alcohol	GC-FID	Porapak-Q tube
2507	Nitroglycerin/EGDN	GC-ECD	Tenax tube
2508	Isophorone	GC-FID	Petroleum Charcoal tube
2510	1-Octanethiol	GC-FPD	Tenax tube
2514	Anisidine	HPLC-UV	XAD-2 tube
2515	Diazomethane	GC-FID	XAD-2 tube
2516	Dichlorofluoromethane	GC-FID	Charcoal tube (2)
2517	Pentachloroethane	GC-ECD	Porapak tube
2518	Hexachloro-1,3-cyclopentadiene	GC-ECD	Porapak-T tube
2519	Ethyl chloride	GC-FID	Charcoal tube
2521	Methyl cyclohexanone	GC-FID	Porapak-Q tube
2523	1 3-Cyclopentadiene	GC-FID	Chromosorb 104 tube
2526	Nitroethane	GC-FID	XAD-2 tube
2527	Nitromethane	GC-FID	Chromosorb 106 tube
2528	2-Nitropropane	GC-FID	Chromosorb 106 tube
2529	Furfural	GC-FID	XAD-2 tube (treated)
2530	Diphenyl (Biphenyl)	GC-FID	Tenax tube
2532	Glutaraldehyde	HPLC-UV	Silica gel tube (treated)

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<u>NIOSH Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
2533	Tetraethyl lead	GC-PID	XAD-2 tube
2534	Tetramethyl lead	GC-PID	XAD-2 tube
2536	Valeraldehyde	GC-FID	XAD-2 tube (treated)
2537	Methyl & Ethyl methacrylate	GC-FID	XAD-2 tube
2538	Acetaldehyde	GC-FID	XAD-2 tube (treated)
2539	Aldehyde, screen	GC-FID	XAD-2 tube (treated)
2540	Ethylenediamine	HPLC-UV	XAD-2 tube (treated)
2541	Formaldehyde	GC-FID	XAD-2 tube (treated)
2543	Hexachlorobutadiene	GC-ECD	XAD-2 tube
2544	Nicotine	GC-NPD	XAD-2 tube
2545	Allyl glycidyl ether	GC-FID	Tenax tube
2546	Cresols & Phenol	GC-FID	XAD-7 tube
2549	Volatile Screen	GC-MS	Thermal Desorption tube
2551	Nicotine	GC-NPD	XAD-4 tube
2552	Methyl Acrylate	GC-FID	CMS
2553	Ketones II	GC-FID	CMS
2554	Glycol Ethers	GC-FID	Anasorb 747
2555	Ketones I	GC-FID	CMS
2556	Isophorone	GC-FID	XAD-4
2557	Diacetyl	GC-FID	CMS
2558	Acetoin	GC-FID	CMS
2559	Decabromodiphenyl Oxide	HPLC-UV	Quartz filter
2561	2-(Dimethylamino)ethanol	GC-FID	XAD-7
2561	1-Dimethylamino-2-propanol	GC-FID	XAD-7
2562	1,1,2,2-Tetrachloroethane	GC-FID	CMS
3500	Formaldehyde	VAS	Impinger
3512	Maleic anhydride	HPLC-UV	Impinger
4000	Toluene	GC-FID	Passive badge
5000	Carbon black	GR	PVC filter
5001	2,4-D & 2,4,5-T	HPLC-UV	Glass fiber filter
5002	Warfarin	HPLC-UV	PTFE filter
5003	Paraquat	HPLC-UV	PTFE filter
5004	Hydroquinone	HPLC-UV	MCE filter
5005	Thiram	HPLC-UV	PTFE filter
5007	Rotenone	HPLC-UV	PTFE filter
5008	Pyrethrum	HPLC-UV	Glass fiber filter
5009	Benzoyl peroxide	HPLC-UV	MCE filter
5010	Bromoxynil	HPLC-UV	PTFE filter
5011	Ethylene thiourea	VAS	PVC filter
5012	EPN	GC-FPD	Glass fiber filter
5013	Dyes	HPLC-UV	PTFE filter
5014	Chlorinated terphenyl	GC-ECD	Glass fiber filter
5016	Strychnine	HPLC-UV	Glass fiber filter
5017	Dibutyl phosphate	GC-FPD	PTFE filter
5020	Dibutyl phthalate	GC-FID	MCE filter
5021	o-Terphenyl	GC-FID	PTFE filter
5025	Chlorinated diphenyl ether	GC-ECD	MCE filter
5026	Oil mist, mineral	IR	PVC filter
5027	Ribavarin	HPLC-UV	Glass fiber filter
5029	4,4'-Methylenedianiline (MDA)	HPLC-UV	Treated filter
5030	Cyanuric acid	HPLC-UV	PVC filter
5031	Aspartame	HPLC-UV	PTFE filter

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<u>NIOSH Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
5033	p-Nitroaniline	HPLC	MCE filter
5034	Tributyl phosphate	GC-FPD	MCE filter
5035	Super absorbent polymer	ICP	PVC filter
5037	Triorthocresyl phosphate	GC-FPD	MCE filter
5038	Triphenyl phosphate	GC-FPD	MCE filter
5039	Chlorinated camphene	GC-ECD	MCE filter
5040	Elemental Carbon (Diesel Particulates)	TOA	Quartz filter
5041	Capsaicin & Dihydrocapsaicin	HPLC-FL	Glass fiber filter
5042	Asphalt Fumes	Grav	PTFE (pre-weighed)
5043	p-Toluenesulfonic Acid	HPLC-UV	Glass fiber filter
5044	Estrogenic Compounds	HLPC-UV	PTFE filter
5502	Aldrin & Lindane	GC-ECD	Impinger
5503	Polychlorinated biphenyls	GC-ECD	GFF/Florisol tube
5506	Polynuclear aromatic hydrocarbons	HPLC	PTFE Filter/XAD-2 tube
5509	Benzidine & 3,3'-Dichlorobenzidine	HPLC-UV	Glass fiber filter
5510	Chlordane	GC-ECD	Chromosorb tube
5512	Pentachlorophenol	HPLC-UV	Impinger
5514	Demeton	GC-FID	MCE filter
5515	Polynuclear aromatic hydrocarbons	GC-FID	PTFE Filter/XAD-2 tube
5516	Toluenediamines	HPLC-UV	Impinger
5517	Polychlorobenzenes	GC-ECD	Filter/tube
5518	n-Naphthylamines	GC-FID	Filter/tube
5519	Endrin	GC-ECD	MCE filter
5523	Glycols	GC-FID	OVS tube
5600	Organophosphorous pesticides	GC-FPD	OVS tube
5601	Organonitrogen pesticides	HPLC-UV	OVS tube
5602	Chlorinated & Organonitrogen Herbicides	GC-ECD	OVS tube
5700	Formaldehyde on dust	HPLC-UV	PVC filter
5701	Resorcinol	GC-FID	OVS tube
6001	Arsine	ICP	Charcoal tube
6004	Sulfur dioxide/Sulfate	IC	Treated filter
6005	Iodine	IC	Charcoal tube
6006	Diborane	ICP	PTFE filter
6007	Nickel carbonyl	GF-AA	Special sorbent tube
6008	Stibine	ICP	Silica gel tube
6009	Mercury	CV AA	Hopcalite tube
6010	Hydrogen cyanide	VAS	Sodalime tube
6011	Chlorine & Bromine	IC	Silver filter
6012	Sulfuryl fluoride	IC	Charcoal tube
6013	Hydrogen sulfide	IC	Orbo 34 tube
6014	Nitric oxide & Nitrogen dioxide	VAS	TEA tube
6015	Ammonia	VAS	Silica gel tube (treated)
6016	Ammonia	IC	Silica gel tube (treated)
7013	Aluminum compounds	AA	MCE filter
7020	Calcium	AA	MCE filter
7024	Chromium	AA	MCE filter
7027	Cobalt	AA	MCE filter
7029	Copper	AA	MCE filter
7030	Zinc compounds (as Zn)	AA	MCE filter
7048	Cadmium	AA	MCE filter
7056	Barium (soluble compounds)	AA	MCE filter

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<u>Fourth Edition NIOSH Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
7074	Tungsten (soluble & insoluble)	AA	MCE filter
7082	Lead	AA	MCE filter
7101	Vanadium	ICP	MCE filter
7102	Beryllium	AA	MCE filter
7105	Lead	GFAA	MCE filter
7200	Welding Fume (see 7300)		
7300	Elements	ICP	MCE filter
7303	Elements (Hot Block Prep)	ICP	MCE filter
7400	Asbestos	Microscopy	MCE filter
7401	Alkaline dust	TITR	PTFE filter
7402	Asbestos	TEM	MCE filter
7500	Silica, Crystalline	XRD	PVC filter
7600	Hexavalent chromium	VAS	PVC filter
7605	Hexavalent chromium	IC	PVC Filter
7900	Arsenic	AA	MCE filter
7901	Arsenic trioxide	GF-AA	Treated filter
7903	Inorganic acids	IC	Silica gel tube
7904	Cyanides, Particulate and Gaseous	VAS	Impinger
7905	Phosphorus	GC-FPD	XAD-2 tube
7906	Fluorides – Gaseous & Particulate	IC	Treated filter
9000	Asbestos Chrysotile	XRD	PVC filter
9002	Asbestos bulk	PLM	
9102	Elements – Wipe	ICP	Ghost Wipe

OSHA Analytical Methods

<u>OSHA Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
01	Cyclohexanone	GC-FID	Chromosorb 106 tube
02	Ethylene dibromide	GC-ECD	Charcoal tube
03	Ethylene dichloride	GC-ECD	Charcoal tube
04	Vinyl chloride (see OSHA 75)	GC-FID	Charcoal tube
05	Chloroform	GC-FID	Charcoal tube
06	Dimethylnitrosamine	GC-TEA	Florisil tube
07	Organic vapors	GC-FID	Charcoal tube
08	Vinyl bromide	GC-FID	Charcoal tube
09	Styrene	GC-FID	Charcoal tube
10	Chloromethyl methyl ether (CMME)	GC-ECD	Impinger
11	1,1,2-Trichloroethane	GC-FID	Charcoal tube
12	Benzene	GC-FID	Charcoal tube
13	Diethylnitrosamine	GC-TEA	Florisil tube (2)
14	1,1,1-Trichloroethane	GC-FID	Charcoal tube
15	2-Nitropropane	GC-FID	Chromosorb
16	2-Butanone	GC-FID	Silica gel tube
17	N-Nitrosomorpholine	GC-TEA	Florisil tube
18	Diisocyanates 2,4-TDI & MDI	HPLC	Impinger
19	Vinylidene chloride	GC-FID	Charcoal tube
20	Hydrazine	HPLC-UV	Firebrick tube (treated)
21	Acrylamide	GC-NPD	Silica gel tube
22	Diphenylamine	HPLC	Impinger
23	N-Nitrosodiphenylamine	HPLC-UV	Impinger
24	Methylenebis-o-chloroaniline (MOCA)	HPLC	Impinger
25	Maleic anhydride	HPLC-UV	XAD-2 tube (treated)
26	Methyl Mercaptan	GC-FPD	Glass fiber filter
27	Volatile Nitrosamines	GC-TEA	Special sorbent
28	Acrylic acid	HPLC-UV	XAD-8 tube
29	Enflurane & Halothane	GC-FID	Charcoal tube
30	Ethylene oxide	GC-ECD	Charcoal tube
31	N-Nitrosodiethanolamine I	GC-TEA	Glass fiber filter
32	Phenol & Cresol	HPLC-UV	XAD-7 tube
33	MDI & TDI	GC-TEA	Dry tube
34	Dimethylamine	HPLC	XAD-7 tube
35	Naphthalene	GC-FID	Chromosorb 106
36	Ethylamine	HPLC	XAD-7 tube (treated)
37	Acrylonitrile	GC-NPD	Charcoal tube
38	Volatile Nitrosamines II	GC-TEA	Special sorbent
39	Pentachlorophenol	HPLC-UV	XAD-7 tube
40	Methyl amine	HPLC	XAD7 tube (treated)
41	Diethyl amine	HPLC	XAD-7 tube (treated)
42	HDI, 2,4-TDI, 2,6-TDI	HPLC-UV	Treated filter
43	EDGN & Nitroglycerin	HPLC-UV	Tenax tube
44 (mod)	2,4-DNT, 2,4,6-TNT	GC-ECD	OVS Tenax tube
45	2,3,5,6-Tetrachlorophenol	HPLC-UV	XAD-7 tube (2)
46	1-Nitropropane	GC-FID	XAD-4 tube
47	Methylene bisphenyl isocyanate (MDI)	HPLC-UV	Treated filter
48	Petroleum distillate fractions	GC-FID	Charcoal tube
49	Ethylene oxide	GC-ECD	Passive badge
50	Ethylene oxide	GC-ECD	Charcoal tube (treated)
51	Vinyl acetate	GC-FID	Carbon sieve tube
52	Acrolein & formaldehyde	GC-NPD	XAD-2 tube (treated)

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<u>OSHA Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
53	Methyl cellosolve	GC-FID	Charcoal tube
54	Methyl isocyanate	HPLC-UV	XAD-7 tube
55	MCA & ECA	HPLC-UV	XAD-7 tube
56	1,3-Butadiene	GC-FID	Charcoal tube
57	4,4'-Methylenedianiline	GC-ECD	Treated filter
58 (mod)	Coal tar pitch volatiles	GR	GFF
58	Coal tar pitch volatiles (5 PNA's)	HPLC	GFF
59	Methylene chloride	GC-FID	Charcoal tube
60	Ethylene diamine (DETA & TETA)	HPLC-UV	XAD-2 tube (treated)
61	Phosgene	GC-NPD	XAD-2 tube
62	Chlorpyrifos, Diazinon, Malathion	GC-FPD	OVS tube
63	Carbaryl (Sevin)	HPLC-UV	OVS tube
64	Glutaraldehyde	HPLC-UV	Treated filter
65	Benzidine, 2,4-Toluenediamine	GC-ECD	Treated filter
66	N,N-Dimethylformamide	GC-NPD	Charcoal tube
67	Chlordane	GC-ECD	OVS tube
68	Acetaldehyde	GC-NPD	XAD-2 tube (treated)
69	Acetone	GC-FID	Anasorb tube
70	Pyrethrum	GC-ECD	OVS tube
71	MOCA, o-Dianisidine, o-Tolidine	GC-ECD	Treated filter
72	Furfural	GC-FID	Petroleum Charcoal tube
73	o,m,p-Toluidine	GC-ECD	Treated filter
74	Aldicarb	GC-NPD	OVS tube
75	Vinyl chloride	GC-FID	Anasorb CMS tube
76	Chloroacetaldehyde	GC-ECD	Silica gel tube
77	Methyl ethyl ketone peroxide	HPLC-UV	XAD-4 tube
78	Diphenylamine Isopropylaniline	HPLC-UV	Treated filter
79	2-Methoxyethanol, 2-Ethoxyethanol	GC-FID	Charcoal Tube
80	Methylene chloride	GC-FID	Anasorb CMS tube
81	Crotonaldehyde	HPLC	Glass fiber filter
82	Acetic anhydride	GC-NPD	Glass fiber filter
83	Butyl cellosolve	GC-FID	Charcoal tube
84	2-Butanone	GC-FID	Anasorb tube
85	Valeraldehyde	HPLC-UV	Treated filter
86	Maleic anhydride	HPLC-UV	Treated filter
87	o,m,p-Phenylenediamine	HPLC-UV	Treated filter
88	Propylene oxide	GC-FID	Anasorb 747 tube
89	Divinyl benzene Styrene	GC-FID	Charcoal tube (treated)
90	Phthalic anhydride	HPLC-UV	Treated filter
91	Methyl alcohol	GC-FID	Anasorb 747 tube (2)
92	Ethyl acrylate	GC-FID	Charcoal tube
93	4-Aminodiphenyl, 1-Naphthylamine	GC-ECD	Treated filter
94	Methyl methacrylate	GC-FID	Charcoal tube (treated)
95	Ethylene thiourea	HPLC-UV	Glass fiber filter
96	Phenyl- α -Naphthylamine	HPLC	Treated filter
97	Propargyl alcohol	GC-ECD	Petroleum Charcoal tube
98	Trimellitic anhydride (TMA)	HPLC-UV	Treated filter
99	1-Methoxy-2-Propanol	GC-FID	Charcoal tube
100	Ethyl alcohol	GC-FID	Anasorb 747 tube
104	Phthalates	GC-FID	OVS (Tenax) tube
105	m&p-Xylene diamine	HPLC-UV	Treated filter
106	Desflurane	GC-FID	Anasorb 747 tube
107	Maneb & Zineb	HPLC-UV	MCE filter

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<u>OSHA Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
108	Hydrazine	HPLC-UV	Treated GFF
ID 101	Chlorine	SP IEL	Impinger
ID 102	Formaldehyde	POL	Impinger
ID 103	Hexavalent chromium	POL	PVC filter
ID 104	Sulfur dioxide	IC	Impinger
ID 105	Arsenic	GF-AA	MCE filter
ID 107	Sulfur dioxide	IC	Charcoal tube (treated)
ID 108	Bromine	IC	Impinger
ID 109	Nitrogen dioxide/ Nitric oxide	POL	TEA tube
ID 110	Fluoride	SP IEL	Treated filter
ID 111	Phosphoric acid	IC	MCE filter
ID 112	Formic acid	IC	Impinger
ID 113	Sulfuric acid	IC	MCE filter
ID 115 SG	Perchloric acid	CLR	Impinger
ID 118	Acetic acid	IC	Impinger
ID 120	Cyanide	SP IEL	PVC filter
ID 121	Metals	AA	MCE filter
ID 124	Hydrogen peroxide	CLR	Impinger
ID 125	Metals	ICP	MCE filter
ID 126	Hydrogen peroxide	POL	Impinger
ID 127	Nitric acid	IC	Impinger
ID 128	Oil mist	Fluorescence	PVC filter
ID 140	Mercury vapor	CV AA	Hopcalite tube
ID 141	Hydrogen sulfide	POL	Silver membrane filter
ID 142	Quartz & Cristobalite	XRD	PVC filter
ID 143	Zinc oxide	XRD	PVC filter
ID 145	Mercury, particulate	CV AA	MCE filter
ID 160	Asbestos	PCM	MCE filter
ID 164	Ammonia	SP IEL	Impinger
ID 165/SG	Acid mist	IC	Silica gel tube (treated)
ID 166	Nitrous oxide	IR	Passive monitor
ID 170	Uranium, soluble	ICP	MCE filter
ID 172	Carbon dioxide	GC-TCD	Tedlar bag
ID 177	Iodine	IC	Anasorb tube
ID 178S	Mineral oil mist	IR	PVC filter
ID 180	Phosphine	IC	Silica gel tube (treated)
ID 182	Nitrogen dioxide	VAS	TEA tube
ID 185	Vanadium Pentoxide	XRD	PVC filter
ID 186	Acetic & formic acid	IC	Charcoal tube
ID 188	Ammonia	IC	Carbon tube
ID 189	Cadmium	GF-AA	MCE filter
ID 190	Nitric oxide	VAS	TEA tube
ID 191	Asbestos	PLM	
ID 196	Carbon black	GR	PVC filter
ID 200	Sulfur dioxide	IC	Anasorb tube
ID 202	Chlorine dioxide	IC	Impinger
ID 204	Qualitative X-Ray fluorescence	XRF	Wipes
ID 205	Formaldehyde	CLR	Passive badge
ID 206	Solder metals	ICP	MCE filter
ID 207	Portland cement	XRD	PVC filter
ID 209	Carbon monoxide	DET	Detector tube
ID 210	Carbon monoxide	GC-TCD	Tedlar bag
ID 211 (mod)	Sodium Azide & Hydrozoic acid	HPLC-UV	Filter/tube

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<u>OSHA Method</u>	<u>Analyte</u>	<u>Instrumentation</u>	<u>Sample Media</u>
ID 212	Iodine	IC	Anasorb tube
ID 213	Tungsten (sol. & insol.)	ICP	MCE filter
ID 215	Hexavalent Chromium	IC	PVC Filter
ID214	Ozone	IC	Treated filter
ID 1003	Phosphine	ICP	Treated filter