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		Agency Standard	Vol. (liter)	Rate (ml/min)		Time													
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Abietic acid		OSHA CSI				200		2000		1.6		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Absidia species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Absidia species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Acenaphthene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT	225-1821	79	
Acenaphthene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35	
Acenaphthene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35	
Acenaphthylene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT	225-1821	79	
Acenaphthylene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35	
Acenaphthylene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35	
Acetaldehyde	●	ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120 ○	or	ST	226-119	37	
Acetaldehyde	●	NIOSH 2538		LFC		10		20		8		GC-FID	ST	226-27					
Acetaldehyde	●	NIOSH 3507		LFC		60		125		8		HPLC	IMP	225-36-2	59	IT	225-22	59	
Acetaldehyde	●	OSHA 68	1007	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				5		20		4		GC-MS	ST	226-330					
Acetic acid	●	NIOSH 1603		10	15	24		50		8		GC-FID	ST	226-01					
Acetic acid	●	OSHA ID 186SG		10		48		200		4		IC or GC-FID	ST	226-01					
Acetic acid	●	OSHA PV2119				48		200		4		IC or GC-FID	ST	226-01					
Acetic anhydride	●	NIOSH 3506			5	90		1000		1.5		VAS	IMP	225-36-2	59	IT	225-22	59	
Acetic anhydride	●	OSHA 102	1392	5		7.5	7.5	50	500	2.5	15	GC-NPD	CF/CST	225-9010 ††	61	C/HLD	225-1	87	
Acetic anhydride	●	OSHA 82	1391	5		0.75		50		15 min		GC-NPD	CF/CST	225-9009	61	C/HLD	225-1	87	
Acetoin		NIOSH 2558				1-10		10-200		varies		GC-FID	ST	NA SKC					
Acetoin (acetyl methyl carbinol)		OSHA 1012		0.05		9	3	50	200	3	15	GC-FID	ST	226-183					
Acetoin (acetyl methyl carbinol)		OSHA 1013		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	37	
Acetone		OSHA 69		1000		3		50		1		GC-FID	ST	NA SKC					
Acetone (ketones I)	●	NIOSH 1300		250		2	0.75	20	50	100 min	15	GC-FID	ST	226-01					
Acetone (ketones I)		NIOSH 2555				0.5-3		10-200		varies		GC-FID	ST	NA SKC					
Acetonitrile	●	NIOSH 1606		20		10		20(50)		8(3.3)		GC-FID	ST	226-09					
Acetophenone		OSHA PV2003				12		100		2		GC-FID	ST	226-35					
Acetyl methyl carbinol (acetoin)		NIOSH 2558				1-10		10-200		varies		GC-FID	ST	NA SKC					
2-Acetylaminofluorene		OSHA CSI				240		1000		4		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Acetylene		OSHA CSI										DET TB	DT	810-171					
Acetylene tetrabromide		OSHA CSI	1			96		200		8		GC-FID	ST	226-10					
Acetylene tetrabromide (1,1,2,2-tetrabromoethane)		NIOSH 2003				96		200		8		GC-FID	ST	226-10					
Acetylsalicylic acid		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Acid black 128		OSHA CSI				200		1000		3.3		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Acid blue 9		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Acid orange 74		OSHA CSI				200		1000		3.3		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Acid red 114		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Acid yellow 34		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Acid yellow 42		OSHA CSI				100		1000		100 min		HPLC-FD	F/CST	225-706	79	C/HLD	225-1	87	
Acid/base (skin)												CI	PCH TK	769-3006 769-1006	or	W	769-1036	or	
Acid/base (surface)												CI	W	769-1024	or	TK	769-1006	122	
Acids, inorganic (see specific compounds)		NIOSH 7903	1016			48		200		4		IC	ST	226-10-03					
Acremonium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Acremonium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Acridine		OSHA 58	1077	0.2 mg/m³		960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	F/CST C/HLD	225-7 225-1	79 87	CST	225-2LF	86	
Acrolein		NIOSH 2501		0.1	0.3	24	3	50	200	8	15	GC-NPD	ST	226-118					
Acrolein		OSHA 52		0.1		48	3	100	200	8	15	GC-NPD	ST	226-117					
Acrolein (aldehydes, screening)		NIOSH 2539		0.1	0.3	5		10		8		GC-FID & GC-MS	ST	226-118					
Acrylamide		OSHA 21		0.3 mg/m³		120		1000		2		GC-NPD	ST	226-10	35	FLT	225-16	79	
Acrylic acid		NON 10				48		100		8		GC	ST	226-70A					
Acrylic acid		OSHA 28				24		100		4		HPLC-UV	ST	226-30-08					
Acrylonitrile	●	NIOSH 1604	1266	1	10 (15 min)	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01					
Acrylonitrile	●	OSHA 37	1265	2	10	20	6	200	400	100 min	15	GC-NPD	ST	226-01					
Actinomyces, thermophilic		NIOSH 0800				varies		28,300		varies		varies	BI	225-9611	103				
Adipic acid		OSHA CSI				96		200		8		GC-FID	ST	226-30-16					
Adiponitrile		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01					
Aerobic bacteria (by GC-FAME)		NIOSH 0801				50-300		28,300		varies		GC-FID	BI	225-9611	103				
Alcohols (screening)		NIOSH 2549				5		20		4		GC-MS	ST	226-330					
Alcohols combined		NIOSH 1405		varies	varies	varies	varies	10-200	10-200	varies	varies	GC-FID	ST	226-01					
Alcohols I (see specific compounds)		NIOSH 1400		varies		varies		varies		varies		GC-FID	ST	226-01					
Alcohols II (see specific compounds)		NIOSH 1401		varies		varies		varies		8		GC-FID	ST	226-01					

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

Sampling Guide

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time						
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Alcohols III (see specific compounds)		NIOSH 1402		varies		varies		varies		8		GC-FID	ST	226-01	35	
Alcohols IV (see specific alcohol)		NIOSH 1403		varies		varies		varies		varies		GC-FID	ST	226-01	35	
Aldehydes (screening)	●	NIOSH 2539		varies		5		20		4		GC-FID & GC-MS	ST	226-118	37	
Aldehydes (screening)	●	NIOSH 2549				5		20		4		GC-MS	ST	226-330	39	
Aldehydes (see Environmental Sampling Guide)		EPA TO-5														
Aldicarb (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or ST	226-30-16 35
Aldicarb (Temik)		OSHA 74	1399			480		1000		8		GC-NPD	ST	226-30-16	35	
Aldrin		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42	
Aldrin		NIOSH 5502		0.25 mg/m³		240		500		8		GC-ECN	F/CST IT	225-709 225-22	79 IMP C/HLD	225-36-2 225-1 59 87
Aldrin		OSHA CSI		0.25 mg/m³		240		1000		4		GC-ECN	F/CST IT	225-709 225-22	79 IMP C/HLD	225-36-2 225-1 59 87
Aliphatic hydrocarbons (screening)		NIOSH 2549				5		20		4		GC-MS	ST	226-330	39	
Alkaline dusts		NIOSH 7401					30		2000		15	TITRA	FLT C/HLD	225-17-01 225-1	74 CST	225-3LF 86
Allethrin		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Allyl alcohol	●	OSHA CSI	2			10 3		20(50) 200		8(3.3) 15		GC-FID	ST	226-01	35	
Allyl alcohol	●	OSHA PV2140	2 (skin)			10		50		200 min		GC-FID	ST	226-01	35	
Allyl alcohol (alcohols combined)	●	NIOSH 1405	2 4 (skin)			1-10 1-10		10-200 10-200		varies varies		GC-FID	ST	226-01	35	
Allyl alcohol (alcohols III)	●	NIOSH 1402	2 4			10 3		20(50) 200		8(3.3) 15		GC-FID	ST	226-01	35	
Allyl chloride	●	NIOSH 1000	1 2			15		1000		15		GC-FID	ST	226-01	35	
Allyl chloride	●	OSHA 07	1126	1		10 3		20(50) 200		8(3.3) 15		GC-FID	ST	226-01	35	
Allyl glycidyl ether		NIOSH 2545		5 10		6 3		50 200		2 15		GC-FID	ST	226-35-03	36	
Allyl propyl disulfide		OSHA PV2086	2			10		20(50)		8(3.3)		GC-FPD	ST	226-110	37	
Allyl amine	●											HPLC-UV	PS	500-400	66	
Alternaria species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77 C/HLD	225-1 87
Alternaria species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Alumina (aluminum & compounds [total dust as Al])		NIOSH 7013		10 mg/m³		360		1000		6		AA-F	F/CST	225-3-01	77 C/HLD	225-1 87
Alumina (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	CYC FLT	225-01-02 225-8-01	95 C/HLD CST	225-1 225-3LF 86
Alumina (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 C/HLD	225-1 87
alpha-Alumina (respirable fraction)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	CYC CST	225-105 225-3LF	94 C/HLD	225-8-01 225-1 73 87
alpha-Alumina (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 C/HLD	225-1 87
Aluminum (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		10 mg/m³ (total dust)		5-100		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or F/CST	225-803 73
Aluminum (elements by ICP HNO₃ 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	77 C/HLD	225-1 87
Aluminum (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	10 mg/m³ (total dust) 5 mg/m³ (respirable fume)		5-100		1000-4000		varies		ICP-AES	F/CST	225-3-01	77 C/HLD	225-1 87
Aluminum (respirable fraction)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CST	225-8-01 225-3LF	73 C/HLD	225-105 225-1 94 87
Aluminum (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 C/HLD	225-1 87
Aluminum & compounds (total dust as Al)		NIOSH 7013		10 mg/m³		360		1000		6		AA-F	F/CST	225-3-01	77 C/HLD	225-1 87
Aluminum soluble salts		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77 C/HLD	225-1 87
Aluminum welding fumes		OSHA CSI				960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 C/HLD	225-1 87
Aluminum, pyro powders		OSHA CSI				960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 C/HLD	225-1 87
Alupent		OSHA CSI				720		2000		6		HPLC-UV	F/CST	225-709	79 C/HLD	225-1 87
Amiben		OSHA CSI				240		1000		4		HPLC-UV	F/CST	225-709	79 C/HLD	225-1 87
Amines		NIOSH 2002		varies		20		40		8		GC-FID or GC-NSD	ST	226-10	35	
Amines, aliphatic		NIOSH 2010		varies		24		50		8		GC-FID	ST	226-10	35	
Amines, aliphatic (skin)												CI	PCH TK	769-3005 769-1005	or W	769-1035 or 122
Amines, aliphatic (surface)												CI	W	769-1025	or TK	769-1005 122
Amines, aromatic (skin)												CI	PCH TK	769-3001 769-1001	or W	769-1031 or 122
Amines, aromatic (surface)												CI	W	769-1021	or TK	769-1001 122
2-Amino-2-methyl-1-propanol		OSHA CSI				9		100		90 min		GC-NPD	ST	226-10	35	
2-Amino-2-methyl-1-propanol		OSHA PV2145				10		100		100 min		HPLC-UV	ST	226-30-16	35	
4-Aminobiphenyl		OSHA 93	1233			100		1000		100 min		GC-ECD	CF/CST	225-9004	61 C/HLD	225-1 87
2-Aminoethanol		NIOSH 2007		3 6		10		20		8		GC-FID	ST	226-10-04	35	
2-Aminoethanol		NIOSH 3509		3 6		240		1000		4		IC	IMP	225-36-1	59 IT	225-22 59
2-Aminoethanol		OSHA PV2111		3		10 1.5		100 100		100 min 15		HPLC-UV	ST	226-30-18	35	
Aminoethanol compounds I (see specific compounds)		NIOSH 2007		varies		varies		varies		8		GC-FID	ST	226-10-04	35	
Aminoethanol compounds II (see specific compounds)		NIOSH 3509		varies		240		1000		4		IC	IMP	225-36-1	59 IT	225-22 59
Aminoethylethanolamine		OSHA PV2116				10		100				HPLC-UV	ST	226-30-18	35	
N-Aminoethylpiperazine		OSHA CSI				9		100		90 min		GC-NPD	ST	226-98	37	
p-Aminophenylarsonic acid (arsenic, organo-)		NIOSH 5022				960		2000		8		IC-AA	FLT C/HLD	225-17-01 225-1	74 CST	225-3LF 86

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				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
2-Aminopyridine		OSHA CSI		0.5		12		200		1		GC-FID	ST 226-35-02	35					
2-Aminopyridine		OSHA PV2143		0.5		240		1000		4		GC-NPD	CF/CST 225-9004	61	C/HLD 225-1	87			
3-Aminopyridine		OSHA PV2143				240		1000		4		GC-NPD	CF/CST 225-9004	61	C/HLD 225-1	87			
4-Aminopyridine		OSHA PV2143				240		1000		4		GC-NPD	CF/CST 225-9004	61	C/HLD 225-1	87			
Amitrole		OSHA PV2006				60		1000		1		HPLC-UV	IMP 225-36-1	59	IT 225-22	59			
Ammonia	●	NIOSH 6015		25	35	72	3	150	200	8	15	VAS	ST 226-10-06	35	F/CST 225-3-01**	77			
Ammonia	●	NON 41				18	5	75	500	4	10	CLR	ST 226-61	36					
Ammonia	●	OSHA ID 188	1008	50		24	7.5	100	500	4	15	IC-ECN	ST 226-29	35					
Ammonia (by IC)		NIOSH 6016		25	35	48	3	100	200	8	15	IC	ST 226-10-06	35	F/CST 225-3-01**	77			
Ammonium chloride (fume)		OSHA ID 188				960	30	2000	2000	8	15	IC-ECN	F/CST 225-3-01	77	C/HLD 225-1	87			
Ammonium hydroxide (see ammonia)																			
Ammonium metavanadate (see vanadium oxides)		NIOSH 7504																	
Ammonium nitrate		OSHA CSI				960		2000		8		GR	FLT CST 225-2LF	73	C/HLD 225-1	87			
Ammonium sulfamate (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	CYC FLT 225-105	94	C/HLD 225-1	87			
													FLT 225-8-01	73	CST 225-3LF	86			
Ammonium sulfamate (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST 225-8-01	73	C/HLD 225-1	87			
													CST 225-2LF	86					
Ammonium sulfamate (total dust)		OSHA ID 188		15 mg/m³		960		2000		8		GR & IC-ECN	F/CST 225-3-01	77	C/HLD 225-1	87			
n-Amyl acetate	●	OSHA 07		100		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
sec-Amyl acetate (2-pentyl acetate)	●	OSHA 07		125		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
n-Amyl acetate (esters I)	●	NIOSH 1450		100		1-10		10-200		varies		GC-FID	ST 226-01	35					
n-Amyl alcohol	●											GC-FID	PS 575-002	64					
t-Amyl methyl ether (methyl tert-amyl ether)	●											GC-FID	PS 575-001	64					
Amyl nitrite		OSHA CSI				8		50		2.5		HPLC-UV	ST 226-01	35					
Aniline	●	NIOSH 2017		LFC		24		200		2		GC-FID	CF/CST 225-9004	61	ST 226-15	35			
Aniline	●	OSHA PV2079		5		24		50		8		GC-FID	ST 226-98	37					
Aniline (amines, aromatic)	●	NIOSH 2002	1058	LFC		24		50		8		GC-FID or GC-NSD	ST 226-10	35					
o-Anisaldehyde		OSHA CSI				96		200		8		HPLC-UV	ST 226-30	35					
Anisidine		NIOSH 2514		0.5 mg/m³		240		1000		4		HPLC-UV	ST 226-30-05	35					
Anisidine (o- & p-isomers)		OSHA CSI		0.5 mg/m³		240		1000		4		HPLC-UV	ST 226-30-05	35					
Anthophyllite fibers (see asbestos fibers)		NIOSH 7400																	
Anthracene		OSHA 58	1075	0.2 mg/m³		960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD 225-7	79	CST 225-2LF	86			
													225-1	87					
Anthracene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF 226-131	43	FLT 225-1821	79			
Anthracene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD 225-1713	74	ST 226-30-04	35			
													225-1	87					
Anthracene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-UV	F/CST C/HLD 225-1713	74	ST 226-30-04	35			
													225-1	87					
Antimony (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.5 mg/m³		50-2000		1000-4000		varies		ICP-AES	F/CST C/HLD 225-3-01	or 87	F/CST 225-803	73			
Antimony (elements by ICP HNO₃ digestion)		NIOSH 7303		0.5 mg/m³		3-100,000		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Antimony (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.5 mg/m³		50-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87			
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	77	C/HLD 225-1	87			
Antimony & compounds (as Sb)		OSHA ID 121		0.5 mg/m³		960		2000		8		AA or AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Antimony & compounds (as Sb)		OSHA ID 125G		0.5 mg/m³		480		2000		4		ICP-AES	F/CST C/HLD 225-3-01	or 87	F/CST 225-3100	77			
ANTU (alphanaphthyl thiourea)		OSHA CSI		0.3 mg/m³		480		2000		4		HPLC-UV	FLT C/HLD 225-17-01	74	CST 225-2LF	86			
													225-1	87					
Apron		OSHA PV2102				60		1000		1		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87			
Aqua fortis (acids, inorganic)		NIOSH 7903	1016	2	4	48		200		4		IC	ST 226-10-03	35					
Aroclor		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42					
Aroclor		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36					
Aroclor 1242		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42					
Aroclor 1242 (42% Cl) (see polychlorobiphenyls)		NIOSH 5503																	
Aroclor 1254		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42					
Aroclor 1254 (54% Cl) (see polychlorobiphenyls)		NIOSH 5503																	
Aroclor 1260		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42					
Aromatic hydrocarbons (screening)		NIOSH 2549				5		20		4		GC-MS	ST 226-330	39					
Arsenic (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.002 mg/m³		5-2000		1000-4000		varies		ICP-AES	F/CST C/HLD 225-3-01	or 87	F/CST 225-803	73			
Arsenic (elements by ICP HNO₃ digestion)		NIOSH 7303		0.002 mg/m³		8-5,000,000		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Arsenic (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1040	0.002 mg/m³ (C)		5-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Arsenic (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414	124	TMP 225-2403	or			
													TMP 225-2415	124					
Arsenic (inorganic compounds as As)		OSHA ID 105		0.01 mg/m³		960		2000		8		AAS-HGA	F/CST 225-3-01	77	C/HLD 225-1	87			
Arsenic & compounds (as As)		NIOSH 7900		2 µg/m³ (15 min)		30		2000		15		AA-F	F/CST 225-3-01	77	C/HLD 225-1	87			
Arsenic trioxide as AS		NIOSH 7901		2 mg/m³ (15 min)		30		2000		15		AAS-GF	FLT C/HLD 225-5 ‡	76	CST 225-2LF	86			
													225-1	87					
Arsenic, inorganic (volatile compounds as As)		OSHA ID 105		0.01 mg/m³		960		2000		8		AAS-HGA	CF/CST 225-9001	61	C/HLD 225-1	87			
Arsenic, organo-		NIOSH 5022				960		2000		8		IC-AA	FLT C/HLD 225-17-01	74	CST 225-2LF	86			
													225-1	87					
Arsine		NIOSH 6001	1278	2 µg/m³ (15 min)		10	3	20	200	8	15	AAS-GF	ST 226-01	35					
Arylam (see carbaryl)																			

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

Sampling Guide

www.skcltd.com for updates

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SAMPLING													
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	Agency Standard		Vol. (liter)		Rate (ml/min)		Time		Analytical Method	SKC Collecting Equipment & Page Number
				TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)		
Asbestos		OSHA ID 160	1301	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 225-321A or FLT/CL 225-326 or FLT/CL 225-327 or 77
Asbestos (bulk) by PLM		NIOSH 9002		1% (bulk)		bulk						PLM	
Asbestos (by TEM)		NIOSH 7402		0.1 fbr/cc/400L		960		2000		8		TEM	FLT/CL 225-327 77
Asbestos (chrysotile)		NIOSH 9000				bulk						XRD	
Asbestos (mass concentrations)		ASTM D 5756	1440			varies		2000		2 min (minimum)		TEM	MVC 225-322 125
Asbestos (structure number concentrations)		ASTM D 5755	1440			varies		2000		2 min (minimum)		TEM	MVC 225-322 125
Asbestos fibers		NIOSH 7400	1033	0.1 fbr/cc/400L		varies		varies		varies		PCM	FLT/CL 225-321 or FLT/CL 225-321A or FLT/CL 225-326 or FLT/CL 225-327 or 77
Aspartame		NIOSH 5031				480		1000		8		HPLC-UV	FLT C/HLD 225-17-01 74 CST 225-2LF 86
Aspergillus flavipes species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus flavipes species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus flavus species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus flavus species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus fumigatus species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus fumigatus species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus glaucus species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus glaucus species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus nidulans species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus nidulans species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus niger species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus niger species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus ochraceus (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus ochraceus (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aspergillus versicolor (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aspergillus versicolor (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Asphalt fume (benzene-soluble & total particulate)		NIOSH 5042			5 mg/m ³ (15 min) (C)	360	60	1000	4000	6	15	GR	FLT CST 225-27-07 74 SP 225-27 87
Asphalt fume particulate		ASTM D 6494				960		2000		8		GR	F/CST 225-1713 74 C/HLD 225-1 87
Asphalt fumes (petroleum)		OSHA 58	1078			960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD 225-7 79 CST 225-2LF 86
Atrazine		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF 226-92 42
Atrazine		NIOSH 5602	5			480		1000		8		GC-ECD	ST 226-58 36
Atrazine		OSHA CSI				240		1000		4		HPLC-UV	F/CST 225-706 79 C/HLD 225-1 87
Auramine		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-709 79 C/HLD 225-1 87
Aureobasidium pullulans (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aureobasidium pullulans (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Aureobasidium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87
Aureobasidium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103
Azelaic acid		NIOSH 5019				960		2000		8		GC-FID	F/CST 225-803 73 C/HLD 225-1 87
Azinphos-ethyl		OSHA CSI				480		1000		8		GC-FPD	ST 226-30-16 35
Azinphos-methyl		OSHA PV2087		0.2 mg/m ³		480		1000		8		GC-FPD	ST 226-30-16 35
Azinphos-methyl (organophosphorus pesticides)		NIOSH 5600		0.2 mg/m ³		240		1000		4		GC-FPD	ST 226-58 36
1,1'-Azobisformamide		OSHA CSI				90		1000		1.5		HPLC-UV	ST 226-30-16 35
Bacteria		NIOSH 0800				varies		28,300		varies		varies	BI 225-9611 103
Bacteria (by GC-FAME)		NIOSH 0801				50-300		28,300		varies		GC-FID	BI 225-9611 103
Bacteria (in air)		NON 48				62.5-375		12500 +		5-30		varies	BS 225-9595 105 VT 225-9598A 105
Barium (elements by ICP Aqua Regia ashing)		NIOSH 7301	¥	0.5 mg/m ³		50-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01 or C/HLD 225-1 87
Barium (elements by ICP HNO ₃ digestion)		NIOSH 7303				1-100,000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77 C/HLD 225-1 87
Barium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414 124 TMP 225-2415 124
Barium (insoluble compounds)		OSHA ID 121				960		2000		8		AA or AES	F/CST 225-3-01 77 C/HLD 225-1 87
Barium (soluble compounds)		NIOSH 7056		0.5 mg/m ³		960		2000		8		AA	F/CST 225-3-01 77 C/HLD 225-1 87
Barium (soluble compounds)		OSHA ID 121		0.5 mg/m ³		960		2000		8		AA or AES	F/CST 225-3-01 77 C/HLD 225-1 87
Barium chloride (barium, soluble compounds)		NIOSH 7056		0.5 mg/m ³		960		2000		8		AA	F/CST 225-3-01 77 C/HLD 225-1 87
Barium sulfate (respirable fraction)		OSHA ID 204	1216	5 mg/m ³		varies		varies		varies		GR & XRF	CYC 225-105 94 F/CST 225-3-01 77 C/HLD 225-1 87
Barium sulfate (total dust)		OSHA ID 121	1217	15 mg/m ³		960		2000		8		AA or AES	F/CST 225-802 73 C/HLD 225-1 87
Baygon (propoxur)		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF 226-92 42
Baygon (propoxur)		OSHA PV2007				48		100		8		HPLC-UV	ST 226-30-16 35
Bendiocarb		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF 226-92 42
Bendiocarb (Ficam)		OSHA PV2008				240		1000		4		HPLC-UV	ST 226-30-16 35
Benomyl (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST 226-58 or ST 226-30-16 35
Benomyl (respirable dust)		OSHA CSI		5 mg/m ³		varies		varies		varies		HPLC-UV	ST 226-30-16 35 CYC 225-105 94
Benomyl (total dust)		OSHA PV2107		15 mg/m ³		60		1000		1		HPLC-UV	ST 226-30-16 35
Bentonite (see dust, total & respirable nuisance)													
Benz(a)anthracene		OSHA CSI				960		2000		8		HPLC-UV	F/CST 225-709 79 C/HLD 225-1 87
Benz(a)anthracene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m ³ (max)		225 L/min		1-24		GC-MS	PUF 226-131 43 FLT 225-1821 79
Benz(a)anthracene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST 225-1713 74 ST 226-30-04 35
Benz(a)anthracene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST 225-1713 74 ST 226-30-04 35
Benzaldehyde	●	ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST 226-120 or ST 226-119 37

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/ STEL	TWA	CLG/ STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Benzaldehyde	●							14.1		8	15	HPLC-UV	PS	500-100	67				
Benzene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
Benzene	●	OSHA 1005	1749	1	5	12	0.75	50	50	4	15	GC-FID	ST	226-01	35				
Benzene		OSHA 1005	1749	1	5					8	15	GC-FID	PS	575-002	64				
Benzene	●	OSHA 12	1009	1	5	10	3	200	200	50 min	15	GC-FID	ST	226-01	35				
Benzene (by portable GC)		NIOSH 3700	1029	0.1	1 (15 min)	varies		20-5000		varies		P GC-PID	SB	232 Series	50				
Benzene (hydrocarbons, aromatic)	●	NIOSH 1501		0.1	1	5-30	5-30	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
alpha-Benzene hexachloride		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
beta-Benzene hexachloride		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
gamma-Benzene hexachloride		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Benzene-soluble & total particulate (asphalt fume)		NIOSH 5042			5 mg/m³ (15 min) (C)	360	60	1000	4000	6	15	GR	FLT CST	225-27-07 225-2LF	74 86	SP	225-27 87		
Benzene-soluble particulate matter		ASTM D 4600	1416			960		2000		8		GR	FLT CST	225-7 225-2LF	79 86	SP C/HLD	225-27 87		
1,2-Benzenedicarboxylic acid		OSHA CSI				240		1000		4		GC-FID	ST	226-56	36				
Benzidine		NIOSH 5509		LFC		96		200		8		HPLC-UV	FLT	225-16	79	CST	225-32 87		
Benzidine		OSHA 65	1239			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1 87		
Benzidine dyes (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT C/HLD	225-17A 225-1	74 87	CST	225-3LF 86		
Benzidine-based dyes		OSHA CSI				480		1000		8		HPLC-UV	FLT C/HLD	225-17-04 225-1	74 87	CST	225-3LF 86		
Benzo(a)pyrene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF PEM	226-131 761-200B	43 98	FLT	225-1821 79 225-1709 74		
Benzo(a)pyrene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515		0.1 mg/m³		480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(a)pyrene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(b)fluoranthene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF PEM	226-131 761-203B	43 98	FLT	225-1821 79 225-1709 74		
Benzo(b)fluoranthene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(b)fluoranthene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(e)pyrene		OSHA CSI				960		2000		8		HPLC-UV	F/CST	225-706	79	C/HLD	225-1 87		
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	43	FLT	225-1821 79		
Benzo(e)pyrene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(e)pyrene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
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	43	FLT	225-1821 79		
Benzo(g,h,i)perylene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(g,h,i)perylene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(k)fluoranthene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzo(k)fluoranthene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
Benzoalaphpyrene		OSHA 58		0.2 mg/m³		960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD	225-7 225-1	79 87	CST	225-2LF 86		
2,3-Benzofuran		OSHA CSI				96		200		8		HPLC-UV	ST	226-30	35				
Benzoic acid		OSHA CSI				24		100		4		GC-FID	ST	226-115	37				
Benzophenone		NON 39				480		1000		8		GC-FID	ST	226-56	36				
Benzophenone		OSHA PV2130		0.5 mg/m³		48		200		4		GC-FID	ST	226-110	37				
Benzophenonetetracarboxylic acid dianhydride		OSHA CSI				100		1000		100 min		HPLC	FLT C/HLD	225-17-04 225-1	74 87	CST	225-2LF 86		
Benzothiazole in asphalt fume		NIOSH 2550				480		1000		8		GC-SCD	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04 35		
2-Benzothiazolethiol		OSHA CSI				240		2000		2		HPLC-UV	F/CST	225-706	79	C/HLD	225-1 87		
Benzotrifluoride	●	OSHA ID 216SG				12		200		1		GC-FID	ST	226-35-03	36				
Benzotrifluoride (trifluoromethyl benzene, OXSOL 2000)	●				100							GC-FID	PS	575-001	or	PS	575-002 64		
Benzoyl chloride		OSHA CSI				90		1000		1.5		GC-ECD	IMP	225-36-1	59	IT	225-22 59		
Benzoyl peroxide		NIOSH 5009		5 mg/m³		90		1500		1		HPLC-UV	F/CST	225-3-01	77	C/HLD	225-1 87		
Benzyl acetate	●	OSHA PV2124				10		100		100 min		GC-FID	ST	226-73	36				
Benzyl alcohol		OSHA PV2009				24		100		4		GC-FID	ST	226-95	37				
Benzyl bromide		OSHA CSI										DET TB	DT	810-136L					
Benzyl chloride	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
Benzyl chloride	●	OSHA 07	1187	1		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Benzyl chloride (hydrocarbons, halogenated)	●	NIOSH 1003			1		10	10-200		varies		GC-FID	ST	226-01	35				
Beryllium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.0005 mg/m³		1250-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803 73		
Beryllium (elements by ICP HNO₃ digestion)		NIOSH 7303				35-25,000,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1 87		
Beryllium (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.0005 mg/m³		1250-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1 87		
Beryllium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403 or		

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

Sampling Guide

www.skcltd.com for updates

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www.skincnc.com for updates				SAMPLING ∞																
		Agency Standard	Vol. (liter)	Rate (ml/min)		Time														
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number							
Beryllium (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206		2 mg/m³	5 mg/m³ (C)	480	10	2000	2000	4	5	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87		
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 C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77		
Beryllium & compounds		OSHA ID 125G		2 µg/m³	5 µg/m³	480	60	2000	2000	4	15	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77		
Beryllium & compounds (as Be)		NIOSH 7102			0.5 µg/m³	960		2000		8		AA-GF	F/CST	225-3-01	77	C/HLD	225-1	87		
Betasan		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35					
BHC (alpha-, beta-, gamma-)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42					
Bioaerosol sampling		NIOSH 0800				varies		28,300		varies		varies	BI	225-9611	103					
Bioaerosols						15-150		15000		1-10 min		varies	STC	225-9820	81					
Bioaerosols		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊	225-9598A	105		
Biphenyl (diphenyl)		NIOSH 2530	0.2			10		20(50)		8(3.3)		GC-FID	ST	226-35-01	35					
Bipolaris species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87		
Bipolaris species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103					
4,4'-Bipyridine (vapor & aerosol)		NON 26				96	2	200	200	8	10	HPLC	ST C/HLD	226-30-05 225-1	35	F/CST	225-706	79		
Bis (tributyltin) oxide (tin, organic compounds [as Sn])		OSHA CSI				960		2000		8		AA-GF	F/CST	225-709	79	C/HLD	225-1	87		
Bismuth		OSHA CSI				960		2000		8		AA	F/CST	225-3-01	77	C/HLD	225-1	87		
Bismuth (elements by ICP HNO3 digestion)		NIOSH 7303				1-10,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87		
Bismuth telluride, Se-doped		OSHA ID 121		5 mg/m³		960		2000		8		AA or AES	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Bismuth telluride, undoped (respirable dust)		OSHA ID 121		5 mg/m³		varies		varies		varies		GR & AA or GR & AES	CYC FLT	225-105 225-8-01	94	C/HLD CST	225-3LF	86		
Bismuth telluride, undoped (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Bisphenol A		OSHA CSI				360		1500		4		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87		
Bladex		OSHA CSI				100		1000		100 min		HPLC-UV	IMP	225-36-1	59	IT	225-22	59		
Borates tetrasodium salts (anhydrous, decahydrate & pentahydrate)		OSHA ID 125G				480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77		
Boric acid (total dust)		OSHA CSI				960		2000		8		GR	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Boron (elements by ICP HNO3 digestion)		NIOSH 7303				1-3300		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87		
Boron (total dust)		OSHA CSI				960		2000		8		GR	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Boron carbide		NIOSH 7506				600		2500		4		XRD	F/CST CYC	225-803 225-01-02	73	C/HLD	225-1	87		
Boron oxide (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73	C/HLD CST	225-3LF	86		
Boron oxide (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Boron oxide (total dust)		OSHA CSI		15 mg/m³		480		2000		4		ICP-AES	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87		
Boron tribromide		OSHA CSI					5	1000		5		IC	IMP	225-36-2	59	IT	225-22	59		
Boron trifluoride		OSHA CSI		1 (C)			15	1000		15		ISE	IMP	225-36-2	59	IT	225-22	59		
Botran		OSHA CSI				400		1000		6.7		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87		
Bromacil		OSHA CSI				50		1000		50 min		HPLC-UV	IMP	225-36-1	59	IT	225-22	59		
Bromine		NIOSH 6011	1329	0.1	0.3	240	15	1000	1000	4	15	IC	CF/CST	225-9006	61	C/HLD	225-1	87		
Bromine		OSHA ID 108		0.1		120	7.5	500	500	4	15	IC	IMP	225-36-2	59	IT	225-22	59		
Bromine pentafluoride		OSHA CSI				48		200		4		IC	ST	226-10-03	35					
Bromoethane (ethyl bromide)	●	NIOSH 1011				4		20(50)		3.3(1.3)		GC-FID	ST	226-01	35					
Bromoform	●	OSHA 07	1127	0.5		10		20(50)		8(3.3)		GC-FID	ST	226-01	35					
Bromoform (hydrocarbons, halogenated)		NIOSH 1003		0.5 (skin)		10		10-200		varies		GC-FID	ST	226-01	35					
1-Bromopropane	●	NIOSH 1025				0.1-12		10-200		varies		GC-FID	ST	226-01	35					
1-Bromopropane	●	OSHA PV2061				12		100		2		GC-FID	ST	226-01	35					
2-Bromopropane		NIOSH 1025				0.1-12		10-200		varies		GC-FID	ST	226-01	35					
2-Bromopropane		OSHA PV2062				12		100		2		GC-FID	ST	226-01	35					
Bromotrifluoromethane (trifluorobromomethane)		NIOSH 1017	1000			0.3		20		15 min		GC-FID	ST	226-09	35	ST	226-01	35		
Bromoxynil		NIOSH 5010				240		1000		4		HPLC-UV	F/CST	225-1713	74	C/HLD	225-1	87		
Bromoxynil octanoate		NIOSH 5010				240		1000		4		HPLC-UV	F/CST	225-1713	74	C/HLD	225-1	87		
Bronkosol		OSHA CSI				480		1000		8		HPLC	F/CST	225-706	79	C/HLD	225-1	87		
Brucine		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87		
BTEX (hydrocarbons, aromatic. See benzene, toluene, ethylbenzene, & xylene)		NIOSH 1501		varies		varies		varies		varies		GC-FID	ST	226-01	35					
1,3-Butadiene	●	NIOSH 1024	1010	LFC		10		20		8		GC-FID	ST	226-37	36					
1,3-Butadiene	●	OSHA 56	1011	1	5	3		50		1		GC-FID	ST	226-73	36					
Butane		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35					
1,3-Butanediol		OSHA CSI				60		2000		30 min		GC-FID	ST	226-57	36					
1-Butanethiol (butyl mercaptan)		NIOSH 2525			0.5	1		50		15		GC-FPD	ST	226-109	37					
n-Butanol (alcohols combined)	●	NIOSH 1405		50 (skin)		2-10		10-200		varies		GC-FID	ST	226-01	35					
2-Butanone		OSHA 1004		200		12		50		4		GC-FID	ST	NA SKC						
2-Butanone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST	NA SKC						
2-Butanone (methyl ethyl ketone)	●	NIOSH 2500	1012	200	300	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-81A	36					
2-Butanone (methyl ethyl ketone)	●	OSHA 1004		200				16.88		8		GC-FID	PS	575-002	64					
2-Butanone (methyl ethyl ketone)	●	OSHA 16	1282	200		3	1.5	100	100	30 min	15	GC-FID	ST	226-10	35					

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				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/ STEL	TWA	CLG/ STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
2-Butanone (methyl ethyl ketone)		OSHA 84		200		3	0.75	50	50	1	15	GC-FID	ST	NA SKC					
Butene		OSHA CSI				1		20		50 min		GC-FID	ST	226-01	35				
2-Butoxyethanol (alcohols IV)	●	NIOSH 1403	1275	5 (skin)		2-10		10-50		varies		GC-FID	ST	226-01	35				
2-Butoxyethanol (butyl CELLOSOLVE solvent)	●	OSHA 83		50		48		100		8		GC-FID	ST	226-01	35				
2-Butoxyethanol acetate (butyl CELLOSOLVE acetate)	●	OSHA 83				48		100		8		GC-FID	ST	226-01	35				
n-Butyl acetate	●	OSHA 07		150		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
n-Butyl acetate	●	OSHA 1009	1750	150		12	0.75	50	50	4	15	GC-FID	ST	226-01	35				
n-Butyl acetate	●	OSHA 1009	1750	150				13.07	13.07	8	15	GC-FID	PS	575-002	64				
sec-Butyl acetate	●	OSHA 07		200		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
sec-Butyl acetate	●	OSHA 1009	1750	200		12	0.75	50	50	4	15	GC-FID	ST	226-01	35				
sec-Butyl acetate	●	OSHA 1009	1750	200				12.74	12.74	8	15	GC-FID	PS	575-002	64				
t-Butyl acetate	●	OSHA 07		200		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
t-Butyl acetate	●	OSHA 1009	1750	200		12	0.75	50	50	4	15	GC-FID	ST	226-01	35				
t-Butyl acetate	●	OSHA 1009	1750	200				13.09	13.09	8	15	GC-FID	PS	575-002	64				
n-Butyl acetate (esters I)	●	NIOSH 1450	1272	150	200	1-10	1-10	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
sec-Butyl acetate (esters I)	●	NIOSH 1450		200		1-10		10-200		varies		GC-FID	ST	226-01	35				
t-Butyl acetate (esters I)	●	NIOSH 1450		200		1-10		10-200		varies		GC-FID	ST	226-01	35				
Butyl acrylate	●	OSHA PV2011				12		50		4		GC-FID	ST	226-73	36				
n-Butyl acrylate	●	NON 54		5	15	10	3	20	200	8	15	GC-FID	ST	226-81A	36				
n-Butyl alcohol	●	OSHA 07		100		10	1	20	200	8	5	GC-FID	ST	226-01	35				
sec-Butyl alcohol	●	OSHA 07		150		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
t-Butyl alcohol	●	OSHA 07		100		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
n-Butyl alcohol (alcohols combined)	●	NIOSH 1405		50 (skin)		2-10		10-200		varies		GC-FID	ST	226-01	35				
sec-Butyl alcohol (alcohols combined)	●	NIOSH 1405		100	150	2-10	2-10	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
t-Butyl alcohol (alcohols I)	●	NIOSH 1400		100	150	10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
n-Butyl alcohol (alcohols II)	●	NIOSH 1401			50	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
sec-Butyl alcohol (alcohols II)	●	NIOSH 1401		100	150	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Butyl benzyl phthalate		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-706	79	C/HLD 225-1	87		
Butyl butyrate		OSHA PV2090				10		200		50 min		GC-FID	ST	226-01	35				
Butyl carbitol		OSHA PV2095				10		200		50 min		GC-FID	ST	226-01	35				
Butyl carbitol acetate		OSHA PV2095				10		200		50 min		GC-FID	ST	226-01	35				
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)	1439	0.005 mg/m ³		960		2000		15		IC-UV	F/CST	225-802	73	C/HLD 225-1	87		
t-Butyl ethyl ether (ethyl tert-butyl ether)	●											GC-FID	PS	575-001	64				
n-Butyl glycidyl ether	●	NIOSH 1616			5.6 (15 min)		3		200		15	GC-FID	ST	226-01	35				
n-Butyl glycidyl ether	●	OSHA 07	1125	50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
t-Butyl glycidyl ether		OSHA CSI				10		200		50 min		GC-FID	ST	226-01	35				
Butyl isocyanate		OSHA CSI				15		50		5		HPLC-UV	ST	NA SKC					
n-Butyl lactate		OSHA PV2080				10		200		50 min		GC-FID	ST	226-01	35				
n-Butyl mercaptan		NIOSH 2525			0.5		1		50		15	GC-FPD	ST	226-109	37				
Butyl mercaptan (butanethiol)		OSHA CSI		10		1.5		25		1		GC-FPD	ST	226-109	37				
n-Butyl mercaptan (mercaptans)		NIOSH 2542	1330		0.5 (15 min)	48	12	100	200	8	60	GC-FPD	CF/CST	225-9007	61	C/HLD 225-1	87		
t-Butyl methyl ether	●	OSHA CSI				96		200		8		GC-FID	ST	226-37	36				
Butyl ziram		OSHA PV2065				180		1000		3		HPLC-UV	ST	226-30-16	35				
N-t-Butyl-2-benzothiazolesulfenamide		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-709	79	C/HLD 225-1	87		
Butylamine	●	OSHA CSI			5 (C)		5		1000		5	GC-FID	ST	226-53	36				
n-Butylamine	●	NIOSH 2012			5		15		1000		15	GC-FID	ST	226-53	36				
Butylated hydroxytoluene		OSHA PV2108				100		1000		100 min		GC-FID	ST	226-57	36				
sec-Butylbenzene		OSHA CSI				6		100		1		GC-FID	ST	226-01	35				
1,3-Butylene glycol (glycols)		NIOSH 5523	1404			60		1000		1		GC-FID	ST	226-57	36				
o-sec-Butylphenol		OSHA CSI				10		100		1.6		HPLC-UV	ST	226-95	37				
p-tert-Butylphenol		OSHA PV2085				20		200		100 min		GC-FID	ST	226-95	37				
Butyltin trichloride		OSHA ID 217SG				240		1000		4		AA-GF	ST	226-30-16	35				
p-tert-Butyltoluene	●	OSHA 07	1129	10		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
p-tert-Butyltoluene (hydrocarbons, aromatic)	●	NIOSH 1501		10	20	1-29	1-29	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
Butyraldehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120	or ST 226-119	37			
Butyraldehyde (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118	37				
Butyraldehyde	●							16.5		4	8	HPLC-UV	PS	500-100	67				
Butyric acid		OSHA CSI				18		100		3		GC-FID	ST	226-15	35				
beta-Butyrolactone		OSHA CSI				9.6		20		8		GC-FID	ST	226-01	35				
gamma-Butyrolactone	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Cadmium		OSHA ID 189	1456	5 µg/m ³		960		2000		8		AA	F/CST	225-3-01	77	C/HLD 225-1	87		
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	73			
Cadmium (elements by ICP HNO ₃ digestion)		NIOSH 7303				3-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD 225-1	87		
Cadmium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1280	LFC		13-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD 225-1	87		
Cadmium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W	225-2414	124	TMP 225-2403	or		
														225-2415	124				
Cadmium & compounds (as Cd)		NIOSH 7048	1467	LFC		480	30	1000	2000	8	15	AA-F	F/CST	225-3-01	77	C/HLD 225-1	87		
Cadmium dust (as Cd)		OSHA ID 121		0.2 mg/m ³ 0.5 mg/m ³		960	30	2000	2000	8	15	AA	F/CST	225-3-01	77	C/HLD 225-1	87		

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Cellulose (paper fiber) (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Cellulose (see dust, total or respirable nuisance)																			
Cellulose insulation		NIOSH 7404				varies		1000		varies		SEM	FLT/CL	225-1604	78				
Cerium		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cesium hydroxide		OSHA CSI				960		2000		8		AA	F/CST	225-3-01	77	C/HLD	225-1	87	
Chaetomium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Chaetomium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Chloramphenicol		OSHA CSI				60		1000		1		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Chlordane		NIOSH 5510		0.5 mg/m³		150		1000		2.5		GC-ECD	ST	226-107 225-2LF C/HLD 225-1	37 86 87	FLT SCN	225-5 225-26	76 87	
Chlordane		OSHA 67	1013	0.5 mg/m³		480		1000		8		GC-ECD	ST	226-30-16	35				
Chlordane (non-occupational exposure)		ASTM D 4947	1417			240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Chlordane (technical)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Chlorinated & organonitrogen herbicides		NIOSH 5602				480		1000		8		GC-ECD	ST	226-58	36				
Chlorinated & organonitrogen herbicides (hand wash)		NIOSH 9200										GC-ECD	NA SKC						
Chlorinated camphene (toxaphene)		NIOSH 5039		LFC		30	15	1000	1000	0.5	15	GC-ECD	F/CST	225-3-01	77	C/HLD	225-1	87	
Chlorinated diphenyl ether (chlorinated diphenyl oxide)		NIOSH 5025		0.5 mg/m³		180		1000		3		GC-ECD	F/CST	225-3-01	77	C/HLD	225-1	87	
Chlorinated diphenyl oxide		NIOSH 5025		0.5 mg/m³		90		1000		1.5		GC-ECD	F/CST	225-3-01	77	C/HLD	225-1	87	
Chlorinated hydrocarbons (screening)		NIOSH 2549				5	20			4		GC-MS	ST	226-330	39				
Chlorinated terphenyl (60% chlorine)		NIOSH 5014				720		1500		8		GC-ECD	F/CST	225-706	79	C/HLD	225-1	87	
Chlorine	●	NIOSH 6011	1332	0.5	1	90	15	1000	1000	1.5	15	IC	CF/CST	225-9006	61	C/HLD	225-1	87	
Chlorine	●	OSHA ID 101	1052		1 (C)	240	15	1000	1000	4	15	ISE	IMP	225-36-2	59	IT	225-22	59	
Chlorine (prefiltered)		OSHA ID 101	1289		1 (C)	240	15	1000	1000	4	15	ISE	IMP CST FLT	225-36-2 225-3-23** 225-2708**	59 86 74	IT SP	225-22 225-2901**	59 87	
Chlorine dioxide		OSHA ID 202	1462	0.1		120	7.5	500	500	4	15	IC-ECN	IMP	225-36-2	59	IT	225-22	59	
Chlorine trifluoride		OSHA CSI			0.1		15		1000		15	ISE	IMP	225-36-2	59	IT	225-22	59	
1-Chloro-1-nitropropane		OSHA CSI	20			12		50		4		GC-FID	ST	226-113	37				
1-Chloro-2-methyl benzene (o-chlorotoluene, OXSOL 10)	●				50							GC-FID	PS	575-001	or	PS	575-002	64	
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	37				
1-Chloro-4-(trifluoromethyl)benzene (parachlorobenzotrifluoride)	●	OSHA CSI				6		100		1		GC-FID	ST	226-01	35				
2-Chloro-6-trichloromethyl pyridine (respirable dust)		OSHA CSI		15 mg/m³		480		1000		8		HPLC-UV	ST	226-30-16	35	CYC	225-105	94	
2-Chloro-6-trichloromethyl pyridine (total dust)		OSHA CSI		5 mg/m³		varies		varies		varies		HPLC-UV	ST	226-30-16	35				
Chloroacetaldehyde		NIOSH 2015			1		3		200		15	GC-ECD	ST	226-15GWS	35				
Chloroacetaldehyde		OSHA 76			1 (C)		2.5		500		5	GC-ECD	ST	226-15GWS	35				
Chloroacetic acid		NIOSH 2008				48		100		8		IC-ECN	ST	226-47-01	36				
alpha-Chloroacetophenone (phenacylchloride)		OSHA CSI	0.05			12		200		1		HPLC-UV	ST	226-35-02	35				
Chloroacetyl chloride		OSHA CSI				10		50		3.3		HPLC-UV	ST	NA SKC					
o-Chloroaniline		OSHA CSI				5		20		4		HPLC-UV	ST	226-10	35				
p-Chloroaniline		OSHA PV2109				6		100		1		HPLC-UV	ST	226-10	35				
Chlorobenzene (monochlorobenzene)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Chlorobenzene (monochlorobenzene)	●	OSHA 07	1132	75		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Chlorobenzene (monochlorobenzene) (hydrocarbons, halogenated)	●	NIOSH 1003				10		10-200		varies		GC-FID	ST	226-01	35				
4-Chlorobenzotrifluoride	●	NIOSH 1026				0.1-10.0		10-200		varies		GC-FID	ST	226-01	35				
4-Chlorobenzotrifluoride	●	OSHA CSI				6		100		1		GC-FID	ST	226-01	35				
p-Chlorobenzotrifluoride	●	NIOSH 1026				0.1-10.0		10-200		varies		GC-FID	ST	226-01	35				
p-Chlorobenzotrifluoride	●	OSHA CSI				6		100		1		GC-FID	ST	226-01	35				
Chlorobiphenyl		NIOSH 5503		0.001 mg/m³ (10 hr)		48		100(200)		8(4)		GC-ECD	FLT ST	225-16 226-39	79 36	CST	225-32	87	
Chlorobromomethane	●	OSHA CSI		200		5		20		4		GC-FID	ST	226-01	35				
Chlorobromomethane (hydrocarbons, halogenated)	●	NIOSH 1003		200		5		10-200		varies		GC-FID	ST	226-01	35				
Chlorodifluoromethane		OSHA CSI				1		50		20 min		GC-FID	ST	NA SKC					
Chlorodiphenyl		OSHA CSI				60		1000		1		GC-ECD	ST	226-30-16	35				
Chlorodiphenyl (21% Cl) (see polychlorinated biphenyls)		OSHA CSI																	
Chlorodiphenyl (32% Cl) (see polychlorinated biphenyls)		OSHA CSI																	
Chlorodiphenyl (42% Cl)		OSHA PV2089			1	60		1000		1		GC-ECD	ST	226-30-16	35				
Chlorodiphenyl (42% Cl) (see polychlorinated biphenyls)		NIOSH 5503																	
Chlorodiphenyl (48% Cl) (see polychlorinated biphenyls)		OSHA CSI																	
Chlorodiphenyl (54% Cl)		OSHA PV2088			0.5	60		1000		1		GC-ECD	ST	226-30-16	35				
Chlorodiphenyl (54% Cl) (see polychlorinated biphenyls)		NIOSH 5503																	
Chlorodiphenyl (60% Cl) (see polychlorinated biphenyls)		OSHA CSI																	
Chlorodiphenyl (62% Cl) (see polychlorinated biphenyls)		OSHA CSI																	
Chloroethane (ethyl chloride)		NIOSH 2519				3		50		1		GC-FID	ST	226-09	35				
2-Chloroethanol (ethylene chlorohydrin)		NIOSH 2513			1	10		20(50)		8(3.3)		GC-FID	ST	226-81A	36				
Chloroform (trichloromethane)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Chloroform (trichloromethane)	●	OSHA 05	1062		50 (C)	10		200		50 min		GC-FID	ST	226-01	35				
Chloroform (trichloromethane) (hydrocarbons, halogenated)	●	NIOSH 1003	1269		2		15		10-200		varies	GC-FID	ST	226-01	35				
bis-Chloromethyl ether		OSHA 10				50		500		100 min		GC-ECD	IMP	225-36-2	59	IT	225-22	59	
Chloromethyl methyl ether		NON 29	1251			2.4	0.3	10	20	4	15	GC-ECD	ST	226-125	38				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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Agency Standard		Vol. (liter)		Rate (ml/min)		Time													
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Chloromethyl methyl ether		OSHA 10				50		500		100 min		GC-ECD	IMP	225-36-2	59	IT	225-22	59	
4-Chloronitrobenzene (nitrobenzenes)		NIOSH 2005		0.1 ppm		96		200		8		GC-FID	ST	226-10		35			
Chloropentafluoroethane		OSHA CSI				2.5		50		50 min		GC-FID	ST	226-01		35			
Chlorophene		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-35		35			
o-Chlorophenol		OSHA CSI				40		200		3.3		HPLC-UV	ST	226-10		35			
p-Chlorophenol		NIOSH 2014				24		50		8		HPLC-UV	ST	226-10		35			
Chloropicrin		NON 51		0.1		144		100		24		GC-MSD	ST	226-175		38			
Chloropicrin		OSHA PV2103		0.1		3		200		15 min		GC-ECD	ST	226-93		37			
beta-Chloroprene		NIOSH 1002			1 (15 min)		1.5		100		15	GC-FID	ST	226-01		35			
beta-Chloroprene		OSHA 07	1133	25		10		20(50)		8(3.3)		GC-FID	ST	226-01		35			
beta-Chloroprene		OSHA 112		25		6		50		2		GC-ECD	ST	226-111A		37			
o-Chlorostyrene	●	OSHA CSI				20	3	200	200	100 min	15	GC-FID	ST	226-01		35			
Chlorothalonil		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92		42			
Chlorothalonil		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
o-Chlorotoluene	●	OSHA CSI				20		200		100 min		GC-FID	ST	226-01		35			
Chlorotoluron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92		42			
Chlorotrifluoroethylene		OSHA CSI				10		200		50 min		GC-FID	ST	226-01		35			
Chlorpropham (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35	
Chlorpyrifos (Dursban)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92		42			
Chlorpyrifos (Dursban)		OSHA 62	1394			480		1000		8		GC-FPD	ST	226-30-16		35			
Chlorpyrifos (organophosphorus pesticides)		NIOSH 5600		0.2 mg/m³		240		1000		4		GC-FPD	ST	226-58		36			
Chromic acid & chromates (as CrO₃)		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8	15	IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87	
Chromic acid & chromates (chromium hexavalent)		NIOSH 7600		1 µg/m³ (10 hr)		240		1000		4		VAS	F/CST	225-803	73	C/HLD	225-1	87	
Chromic acid & chromates (chromium hexavalent)		NIOSH 7604		1 µg/m³ (10 hr)		960		2000		8		IC-ECN	F/CST	225-803	73	C/HLD	225-1	87	
Chromium & compounds (as Cr)		NIOSH 7024	1457	0.5 mg/m³		10 - 1000		1000 - 3000		varies		AA-F	F/CST	225-3-01	or	F/CST	225-8410	77	
												C/HLD	225-1	87					
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	225-803	73	
												C/HLD	225-1	87					
Chromium (elements by ICP HNO₃ digestion)		NIOSH 7303		0.5 mg/m³		8-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.5 mg/m³		5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W	225-2414	124	TMP	225-2403	or	
												TMP	225-2415	124					
Chromium acetate		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium carbonate		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium metal & insoluble compounds		OSHA ID 121	1043	1 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
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	77	
												C/HLD	225-1	87					
Chromium phosphate		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium soluble salts (except hexavalent)		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Chromium trioxide (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8		IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87	
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	79		
Chromium, hexavalent		NIOSH 7600	1032	1 µg/m³ (10 hr)		240		1000		4		VAS	F/CST	225-802	73	C/HLD	225-1	87	
Chromium, hexavalent		NIOSH 7604	1032	1 µg/m³ (10 hr)		240		1000		4		IC-ECN	F/CST	225-802	73	C/HLD	225-1	87	
Chromium, hexavalent		NIOSH 7605		0.001 mg/m³ (10 hr)		1-400		1000-4000		varies		IC-PCD-UV	F/CST	225-802	73	C/HLD	225-1	87	
Chromium, hexavalent		NIOSH 7703		0.001 mg/m³ (10 hr)		10-1200		1000-4000		varies		P VAS	F/CST	225-802	73	C/HLD	225-1	87	
Chromium, hexavalent		OSHA ID 103		0.005 mg/m³ (C)		960	30	2000	2000	8	15	DPP	F/CST	225-802	73	C/HLD	225-1	87	
Chromium, hexavalent		OSHA W4001		0.005 mg/m³ (C)								IC-UV	FLT	225-8-01-1	or	FLT	225-1822	79	
Chromium, hexavalent (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8		IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87	
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	79	CST	225-2LF	86	
												C/HLD	225-1	87					
Chrysene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT	225-1821	79	
Chrysene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515		LFC		480		2000		4		GC-FID	F/CST	225-1713	74	ST	226-30-04	35	
												C/HLD	225-1	87					
Chrysene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506		LFC		480		2000		4		HPLC-UV	F/CST	225-1713	74	ST	226-30-04	35	
												C/HLD	225-1	87					
Chrysosporium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Chrysosporium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611		103			
Chrysotile (see asbestos fibers)		NIOSH 9000				bulk						XRD							
Chrysotile fibers (see asbestos fibers)		NIOSH 7400																	
Cladosporium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Cladosporium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611		103			
Clopidol (respirable fraction)		OSHA CSI		5 mg/m³		varies		varies		varies		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
												CYC	225-105	94					
Clopidol (total dust)		OSHA CSI		15 mg/m³		120		1000		2		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Co-Ral (coumaphos)		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16		35			
Coal dust (< 5% SiO₂)		OSHA CSI		2.4 mg/m³ / (%SiO₂+2)		varies		varies		varies		GR	FLT	225-8-01	73	C/HLD	225-1	87	
												CYC	225-105	94	CST	225-3LF	86		

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Coal dust (> 5% SiO ₂)		OSHA ID 142		(10 mg/m ³)/ (%SiO ₂ +2)		varies		varies		varies		GR & XRD	F/CST CYC	225-803 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Coal tar naphtha (naphthas)		NIOSH 1550		100		3		20		2.5		GC-FID	ST	226-01	35				
Coal tar pitch volatiles		OSHA 58	1076	0.2 mg/m ³		960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD	225-7 225-1	79 87	CST	225-2LF	86	
Cobalt		OSHA ID 213		0.1 mg/m ³		480		2000		6		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.5 mg/m ³ (dust, fume)		25-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73	
Cobalt (elements by ICP HNO ₃ digestion)		NIOSH 7303		0.5 mg/m ³ (dust, fume)		3-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	0.05 mg/m ³ (dust, fume)		25-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt (elements on wipes)		NIOSH 9102			wipe							ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Cobalt & compounds (as Co)		NIOSH 7027		0.05 mg/m ³		960		2000		8		AA-F	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt acetate		OSHA ID 125G				480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Cobalt carbonyl		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt hydrocarbonyl		OSHA ID 121	1193	0.1 mg/m ³ (as Co)		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Cobalt metal, dust & fume		OSHA ID 125G		0.1 mg/m ³		480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Cobalt metal, dust & fume (as Co)		OSHA ID 121	1210	0.1 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Coke oven emissions		OSHA 58		0.15 mg/m ³		960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD	225-7 225-1	79 87	CST	225-2LF	86	
Command (dimethazone)		OSHA PV2066				60		1000		1		GC-ECD	ST	226-30-16	35				
Copper (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		1 mg/m ³ (dust) 0.1 mg/m ³ (fume)		5-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73	
Copper (elements by ICP HNO ₃ digestion)		NIOSH 7303		1 mg/m ³ (dust) 0.1 mg/m ³ (fume)		15-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	1 mg/m ³ (dust) 0.1 mg/m ³ (fume)		5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper (elements on wipes)		NIOSH 9102			wipe							ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Copper dust		NIOSH 7029		1 mg/m ³		480		1000		8		AA-F	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper dusts & mists		OSHA ID 125G		1 mg/m ³		480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Copper dusts & mists (as Cu)		OSHA ID 121	1205	1 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper fume		NIOSH 7029		0.1 mg/m ³		480		1000		8		AA-F	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper fume		OSHA ID 121	1206	0.1 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Copper fume		OSHA ID 125G		0.1 mg/m ³		480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Copper fume (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206		0.1 mg/m ³		480		2000		4		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Corn starch (see dust, respirable nuisance)																			
Coronene		OSHA CSI				960		2000		8		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Corundum (Al ₂ O ₃) (see alpha-alumina [total dust])																			
Corundum (emery) (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Corundum (emery) (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Corynebacterium species (bacteria)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Cotton dust (raw)		OSHA CSI		1 mg/m ³		2664		7.4		6		GR	FLT CST	225-8-01 225-3LF	73 86	VERT. ELUTRIATOR (NA SKC) and			
Cotton Dust (raw)		OSHA CSI		1 mg/m ³		960		2		8		GR	FLT PPI PPI	225-8-01-1 225-381 ♠ 225-386 ♠	73 96	SP and IS	225-27 225-388	with or	
Coumarin		OSHA CSI				96		200		8		HPLC-UV	ST	226-30-04	35				
Crag herbicide (respirable dust)		OSHA CSI		5 mg/m ³		varies		varies		varies		CLR	F/CST CYC	225-803 225-105	73 94	C/HLD	225-1	87	
Crag herbicide (total dust)		OSHA CSI		15 mg/m ³		90		1500		1		CLR	F/CST	225-3-01	77	C/HLD	225-1	87	
p-Cresidine (see 5-methyl-o-anisidine)		OSHA CSI																	
di-tert-butyl-p-Cresol		OSHA PV2108				100		1000		100 min		GC-FID	ST	226-57	36				
Cresol (all isomers)		NIOSH 2546		10 mg/m ³		24		100		4		GC-FID	ST	226-95	37				
Cresol (all isomers)		OSHA 32		5 mg/m ³		24		100		4		HPLC-UV	ST	226-95	37				
Cresols (see Environmental Sampling Guide)		EPA TO-8																	
Cresyll acid (see cresol, all isomers)		OSHA CSI																	
Cristobalite		OSHA ID 142				varies		varies		varies		GR & XRD	F/CST CYC	225-803 225-105	73 94	C/HLD	225-1	87	
Cristobalite (silica, crystalline [respirable] by XRD)		NIOSH 7500	1370	0.05 mg/m ³		400-1000		2500		varies		XRD	F/CST C/HLD	225-803 225-1	73 87	CYC	225-01-02	95	
Cristobalite (silica, crystalline by IR)		NIOSH 7602		0.05 mg/m ³		400-800		2500		varies		IR	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1	87	
Cristobalite (silica, crystalline by VAS)		NIOSH 7601	1041	0.05 mg/m ³		400-800		2500		varies		VAS	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1	87	
Crocidolite fibers (see asbestos fibers)		NIOSH 7400																	

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time						
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Crotonaldehyde	●	ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST 226-120 ○ or ST 226-119	37		
Crotonaldehyde	●	NIOSH 3516	2			48		200		4		DPP	IMP 225-36-2	59	IT	225-22
Crotonaldehyde	●	OSHA 81	2			6		100		1		HPLC-UV	CF/CST 225-9019	61	C/HLD	225-1
Crotonaldehyde (aldehydes, screening)	●	NIOSH 2539	2			5		20		4		GC-FID & GC-MS	ST 226-118	37		
Cruformate		OSHA PV2015				60		1000		1		GC-FPD	ST 226-30-16	35		
Cryolite (fluorides)		NIOSH 7902		2.5 mg/m³		480		1000		8		ISE	CF/CST 225-9001	61	C/HLD	225-1
Cumene (isopropyl benzene)	●	OSHA 07	1065	50		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cumene (isopropyl benzene)	●	OSHA PV2137		50		24		200		2		GC-FID	ST 226-01	35		
Cumene (isopropyl benzene) (hydrocarbons, aromatic)	●	NIOSH 1501		50 (skin)		1-30		10-200		8(3.3)		GC-FID	ST 226-01	35		
Cumene hydroperoxide		OSHA CSI				120		1000		2		HPLC-UV	IMP 225-36-1	59	IT	225-22
Cunninghamella species (fungi, molds, spores)		OSHA CSI				120		1000		2	varies	F/CST	225-3-01	77	C/HLD	225-1
Cunninghamella species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min	varies	BI	225-9611	103		
Cupric carbonate as Cu (elements by ICP HNO₃/ HClO₄ ashing)		NIOSH 7300	1455			960		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD	225-1
Curvularia species (fungi, molds, spores)		OSHA CSI				120		1000		2	varies	F/CST	225-3-01	77	C/HLD	225-1
Curvularia species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min	varies	BI	225-9611	103		
Cyanamide		OSHA CSI				10		100		100 min		HPLC-UV	ST 226-30-18	35		
Cyanazine		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
Cyanide (as Cn)		OSHA ID 120		5 mg/m³		120		1000		2		ISE	F/CST IT 225-22	77	IMP	225-36-2
Cyanides, aerosol & gas		NIOSH 7904			5 mg/m³ (10 min)	120		500		4		ISE	FLT IMP C/HLD 225-1	74	CST	225-2LF
Cyanogen		OSHA PV2104				12		200		1		GC-NPD	ST 226-117	37		
Cyanogen chloride		OSHA CSI				1		200		5		GC-NPD	ST 226-117	37		
Cyanuric acid		NIOSH 5030				480		1000		8		HPLC-UV	F/CST 225-802	73	C/HLD	225-1
Cyclohexane	●	OSHA 07	1134	300		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cyclohexane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500	1268	300		2.5-5		10-200		varies		GC-FID	ST 226-01	35		
Cyclohexanol	●	OSHA 07	1135	50		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cyclohexanol (alcohols combined)	●	NIOSH 1405		50 (skin)		1-10		10-200		varies		GC-FID	ST 226-01	35		
Cyclohexanol (alcohols III)	●	NIOSH 1402		50		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cyclohexanone	●	OSHA 01	1073	50		10		20(50)		8(3.3)		GC-FID	ST 226-110	37		
Cyclohexanone (ketones I)	●	NIOSH 1300		25		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cyclohexanone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST NA SKC			
Cyclohexene	●	OSHA 07	1124	300		10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Cyclohexene (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		300		5-7		10-200		varies		GC-FID	ST 226-01	35		
N-Cyclohexyl-2-benzothiazolesulfenamide		OSHA CSI				480		2000		4		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
Cyclohexylamine		OSHA PV2016				20		200		100 min		GC-FID	ST 226-98	37		
Cyclonite (RDX)		OSHA CSI		1.5 mg/m³ (skin)		120		1000		2		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
Cyclopentane		OSHA CSI				5		200		25 min		GC-FID	ST 226-01	35		
Cyhexatin		OSHA ID 197SG				480		2000		4		AA-GF	F/CST C/HLD 225-1	79	ST	226-30
Cypermethrin		OSHA PV2063				60		1000		60 min		GC-ECD	ST 226-30-16	35		
2,4-D (2-butoxyethyl ester)		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
2,4-D (2-butoxyethyl ester)		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
2,4-D (2,4-dichlorophenoxyacetic acid)		NIOSH 5001		10 mg/m³		180		1000		3		HPLC-UV	F/CST 225-706	79	C/HLD	225-1
2,4-D (2,4-dichlorophenoxyacetic acid)		OSHA CSI		10 mg/m³		180		3000		1		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
D & C red #19		OSHA CSI				240		1000		4		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
2,4-D acid		NIOSH 5602	10			480		1000		8		GC-ECD	ST 226-58	36		
2,4-D, BE		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
2,4-D, EH		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
2,4-D, ME (2,4-dichlorophenoxyacetic acid)		NIOSH 5602				480		1000		8		GC-ECD	ST 226-58	36		
Dacthal		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42		
DAP (diallyl phthalate)		OSHA CSI				60		1000		1		GC-FID	ST 226-30-16	35		
DBP (see dibutyl phthalate)		OSHA 104														
p,p-DDE		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42		
DDT		OSHA CSI		1 mg/m³		90		1500		1		GC-ECD	F/CST 225-709	79	C/HLD	225-1
p,p-DDT		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42		
DDVP (dichlorvos)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42		
Decaborane		OSHA CSI		0.05		480	30	2000	2000	4	15	ICP	F/CST 225-3-01	77	C/HLD	225-1
Decabromodiphenyl oxide		NIOSH 2559				48-960		2000		varies		HPLC-UV	FLT 225-1822	79	SP	225-27
Decabromodiphenyl oxide		OSHA CSI				200		1000		3		GC-ECD	F/CST 225-709	79	C/HLD	225-1
n-Decane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500				2		10-50		varies		GC-FID	ST 226-01	35		
Decyl alcohol	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
DEHP (see di-2-ethylhexyl phthalate)		OSHA 104														
Dehydroabietic acid		OSHA CSI				180		2000		1.5		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
Dehydroisandrosterone		OSHA CSI				240		1000		4		HPLC-UV	F/CST 225-709	79	C/HLD	225-1
Demeton		NIOSH 5514		0.1 mg/m³		480		1000		8		GC-FPD	FLT CST C/HLD 225-1	76	SCN	225-26
Demeton (Systox)		OSHA CSI		0.1 mg/m³		480		1000		8		GC-FPD	ST 226-30-16	35		
Demosan		OSHA CSI				960		2000		8		GC-ECD	F/CST 225-709	79	C/HLD	225-1

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time							
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number				
DEP (see diethyl phthalate)		OSHA 104															
Desflurane	●	OSHA 106	1760			3		50		1		GC-FID	ST	226-81A	36		
Di-(2-ethylhexyl) adipate		OSHA CSI				180		1000		3		GC-FID	FLT C/HLD	225-17-04 225-1	74 87	CST 225-3LF 86	
Di-(2-ethylhexyl) phthalate		OSHA CSI		5 mg/m³		60	15	1000	1000	1	15	GC-FID	ST	226-30-16	35		
Di-(2-ethylhexyl) phthalate (DEHP)		NIOSH 5020				180		1000		3		GC-FID	F/CST	225-3-01	77	C/HLD 225-1 87	
Di-n-hexyl phthalate		OSHA PV2076				240		1000		4		GC-FID	ST	226-56	36		
Di-n-octyl phthalate (DNOP)		OSHA 104				240		1000		4		GC-FID	ST	226-56	36		
Di-n-octyl-phthalate (DNOP)		OSHA CSI				90		1000		1.5		GC-ECD	ST	226-56	36		
Di-sec-octyl phthalate (see di-[2-ethylhexyl] phthalate)																	
Di(ethyleneglycol) ethyl ether acrylate		OSHA PV2132		1 mg/m³		48		200		4		GC-FID	ST	226-110	37		
Diacetone alcohol	●	OSHA 07	1123	50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
Diacetone alcohol (alcohols combined)	●	NIOSH 1405		50		1-10		10-200		varies		GC-FID	ST	226-01	35		
Diacetone alcohol (alcohols III)	●	NIOSH 1402		50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
Diacetyl		NIOSH 2557				6		100		1		GC	ST	NA SKC			
Diacetyl		OSHA 1012		0.05		9	3	50	200	3	15	GC-FID	ST	226-183	38		
Diacetyl		OSHA 1013		0.05		9	3	50	200	3	15	GC-FID	ST	226-183	38		
Diallyl disulfide		OSHA PV2086				10		20(50)		8(3.3)		GC-FPD	ST	226-110	37		
Diallyl phthalate		OSHA CSI				60		1000		1		GC-FID	ST	226-30-16	35		
1,2-Diaminoethane		NIOSH 2540				10		100		1.7		HPLC-UV	ST	226-30-18	35		
o-Dianisidine		OSHA 71	1235			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87	
o-Dianisidine dyes (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC-UV	FLT C/HLD	225-17A 225-1	74 87	CST 225-3LF 86	
o-Dianisidine-based dyes		OSHA CSI				480		1000		8		HPLC-UV	FLT C/HLD	225-17-04 225-1	74 87	CST 225-3LF 86	
Diazinon		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF	226-92	42		
Diazinon		OSHA 62	1396			480		1000		8		GC-FPD	ST	226-30-16	35		
Diazinon (organophosphorus pesticides)		NIOSH 5600		0.1 mg/m³		240		1000		4		GC-FPD	ST	226-58	36		
Diazomethane		NIOSH 2515		0.2		10		200		50 min		GC-FID	ST	226-23	35		
Diazomethane		OSHA CSI		0.2		10		200		50 min		GC-FID	ST	226-23	35		
Dibenz(a,h)anthracene		OSHA CSI				960		2000		8		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87	
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	43	FLT 225-1821 79	
Dibenz(a,h)anthracene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST 226-30-04 35	
Dibenz(a,h)anthracene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 87	ST 226-30-04 35	
Diborane		NIOSH 6006		0.1		120		1000		2		PES	ST CST	226-151 225-32	38 87	FLT NA SKC and	
Dibrom		OSHA CSI		3 mg/m³		60		1000		1		GC-FPD	ST	226-30-16	35		
1,2-Dibromo-3-chloropropane (DBCP)		OSHA CSI		1 ppb		10		20(50)		8(3.3)		GC-ECD	ST	226-81A	36		
Dibromodifluoromethane (difluorodibromomethane)		NIOSH 1012		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
1,2-Dibromoethane (ethylene dibromide)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
1,2-Dibromoethane (ethylene dibromide)	●	NIOSH 1008		0.045	0.13	24	3	50	200	8	15	GC-ECD	ST	226-01	35		
Dibutyl amine		OSHA CSI				120		1000		2		GC-NPD	IMP	225-36-2	59	IT 225-22 59	
2-Dibutyl aminoethanol (aminoethanol compounds I)		NIOSH 2007		2		10		20(50)		8(3.3)		GC-FID	ST	226-10-04	35		
Dibutyl phosphate		NIOSH 5017		1	2	240		2000		2		GC-FPD	FLT C/HLD	225-17-01 225-1	74 87	CST 225-2LF 86	
Dibutyl phthalate		NIOSH 5020		5 mg/m³		100		1000		100 min		GC-FID	F/CST	225-3-01	77	C/HLD 225-1 87	
Dibutyl phthalate (DBP)		OSHA 104		5 mg/m³		240		1000		4		GC-FID	ST	226-56	36		
Dibutyltin bis (isooctyl mercaptoacetate) (organotin compounds as Sn)		NIOSH 5504		0.1 mg/m³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35 87	F/CST 225-709 79	
Dibutyltin dilaurate (as Sn)		OSHA ID 218SG				500		1000		500 min		AA	F/CST	225-3-01	77	C/HLD 225-1 87	
Dibutyltin maleate (as Sn)		OSHA ID 224SG				200		1000		200 min		AA-GF	F/CST	225-3-01	77	C/HLD 225-1 87	
Dicamba		OSHA CSI				200		1000		3.3		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87	
Dicamba sodium salt		OSHA CSI				200		1000		3.3		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87	
1,1-Dichloro-1-fluoroethane		OSHA 113				1		50		20 min		GC-FID	ST	NA SKC			
1,1-Dichloro-1-nitroethane		NIOSH 1601		2		10		20(50)		8(3.3)		GC-FID	ST	226-81A	36		
1,1-Dichloro-1-nitroethane		OSHA 07			10		15	1000			15	GC-FID	ST	226-81A	36		
1,1-Dichloro-1-nitroethane		OSHA CSI			10	10		20		8		GC-FID	ST	226-81A	36		
2,2-Dichloro-1,1,1-trifluoroethane		NON 50				9		50		3		GC-FID	ST	226-09	35		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane		OSHA CSI				9		50		3		GC-FID	ST	226-01	35		
1,3-Dichloro-1,1,2,2,3-pentafluoropropane		OSHA CSI				9		50		3		GC-FID	ST	226-01	35		
Dichloroacetylene		OSHA CSI					1	200			5	GC-FID	ST	226-01	35		
3,4-Dichloroaniline		OSHA CSI				100		1000		1.5		HPLC	F/CST	225-803	73	C/HLD 225-1 87	
m-Dichlorobenzene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
m-Dichlorobenzene	●	OSHA CSI				10		200		50 min		GC-FID	ST	226-01	35		
o-Dichlorobenzene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
o-Dichlorobenzene	●	OSHA 07	1122		50 (C)		3	200			15	GC-FID	ST	226-01	35		
p-Dichlorobenzene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
p-Dichlorobenzene	●	OSHA 07	1121	75		3	0.75	20	50	2.5	15	GC-FID	ST	226-01	35		
o-Dichlorobenzene (hydrocarbons, halogenated)	●	NIOSH 1003			50		3	10-200			varies	GC-FID	ST	226-01	35		
p-Dichlorobenzene (hydrocarbons, halogenated)	●	NIOSH 1003			1.7 (LOQ)	3		10-200		varies		GC-FID	ST	226-01	35		
3,3'-Dichlorobenzidine		OSHA 65	1238			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87	

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time							
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number				
Dichlorodifluoroethane		OSHA CSI				3		100		30 min		GC-FID	ST	226-01	35		
Dichlorodifluoromethane		NIOSH 1018		1000		3		20		2.5		GC-FID	ST	226-01	35	ST 226-09 35	
1,2-Dichloroethane (ethylene dichloride)	●	OSHA 07	1119	50	100	10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
1,1-Dichloroethane (ethylidene chloride)		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
1,1-Dichloroethane (ethylidene chloride)		OSHA 07		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
1,1-Dichloroethane (hydrocarbons, halogenated)		NIOSH 1003	1267	100		10		10-200		varies		GC-FID	ST	226-01	35		
Dichloroethyl ether	●	NIOSH 1004		5	10	10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
Dichloroethyl ether	●	OSHA 07			15	10	15	20	1000	8	15	GC-FID	ST	226-01	35		
1,2-Dichloroethylene	●	OSHA 07	1118	200		3		20		2.5		GC-FID	ST	226-01	35		
cis-1,2-Dichloroethylene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
1,2-Dichloroethylene (hydrocarbons, halogenated)	●	NIOSH 1003		200		3		10-200		varies		GC-FID	ST	226-01	35		
trans-1,2-Dichloroethylene	●											DT		810-174D			
Dichlorofluoromethane		NIOSH 2516		10		3		20		2.5		GC-FID	ST	226-25	35		
Dichloromethane	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
Dichloromethane (see methylene chloride)	●																
Dichloromonoethane (dichlorofluoromethane)		NIOSH 2516		10		3		20		2		GC-FID	ST	226-09	35		
Dichloromonoethane (dichlorofluoromethane)		OSHA CSI		1000		3		20		2.5		GC-FID	ST	226-09	35		
2,4-Dichlorophenoxyacetic acid (2,4-D)		NIOSH 5001		10 mg/m³		180		1000		3		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87	
1,2-Dichloropropane (propylene dichloride)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
1,2-Dichloropropane (propylene dichloride)	●	NIOSH 1013	LFC			3		20		2.5		GC-ECN	ST	226-81A	36		
1,3-Dichloropropene		OSHA CSI				5		200		25 min		GC-FID	ST	226-01	35		
cis-1,3-Dichloropropene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
trans-1,3-Dichloropropene		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series	
3,4-Dichloropropionanilide		OSHA CSI										W	FLT	225-7	79		
2,2-Dichloropropionic acid		OSHA PV2017				10		200		50 min		HPLC-UV	ST	226-10	35		
Dichlorotetrafluoroethane		OSHA CSI				3		50		1		GC-FID	ST	226-09	35	ST 226-01 35	
1,1-Dichlorotetrafluoroethane		OSHA CSI				2		50		40 min		GC-FID	ST	226-01	35	ST 226-09 35	
1,2-Dichlorotetrafluoroethane (dichlorodifluoromethane)		NIOSH 1018		1000		3		20		2.5		GC-FID	ST	226-01	35	ST 226-09 35	
Dichlorotrifluoroethane		NON 50				9		50		3		GC-FID	ST	226-09	35		
Dichlorvos (DDVP)		ASTM D 4861				240-7200		1000- 5000		4-24		GC-ECD	PUF	226-92	42		
Dichlorvos (DDVP)		OSHA 62	1395	1 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35		
Dicloran		ASTM D 4861				240-7200		1000- 5000		4-24		GC-ECD	PUF	226-92	42		
Dicofol		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Dicofol		OSHA CSI										W	SM TB	225-24	124		
Dicrotophos		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42		
Dicrotophos (Bidrin)		OSHA PV2099				480		1000		8		GC-FPD	ST	226-30-16	35		
Dicrotophos (organophosphorus pesticides)		NIOSH 5600		0.25 mg/m³		240		1000		4		GC-FPD	ST	226-58	36		
Dicyclopentadiene	●	OSHA PV2098				10		100		100 min		GC-FID	ST	226-01	35		
Dicyclopentadienyl iron (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT	225-8-01	73	C/HLD 225-1 87	
												CST		225-3LF	86		
Dicyclopentadienyl iron (total dust)		OSHA CSI		15 mg/m³		960		2000		8		AA	F/CST	225-3-01	77	C/HLD 225-1 87	
Dieldrin		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Dieldrin		OSHA CSI		0.25 mg/m³		180		1500		2		GC-ECD	F/CST	225-709	79	C/HLD 225-1 87	
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 84	
Diesel particulate matter		MSHA 30CFR57		350 µg/m³ (total carbon)		varies		2000		varies		TOA-FID	DPM	225-317	84	CYC 225-105 85	
												C/HLD		225-1	87		
Diesel particulate matter		MSHA 30CFR57		350 µg/m³ (total carbon)		varies		varies		varies		TOA-FID	F/CST	225-401	84	CYC 225-100 94	
												C/HLD		225-1	87		
Diethanolamine		OSHA PV2018				10		100		100 min		HPLC-UV	ST	226-30-18	35		
Diethanolamine (DEA) (aminoethanol compounds II)		NIOSH 3509	1006	3		240		1000		4		IC	IMP	225-36-1	59	IT 225-22 59	
Diethyl ether (ethyl ether)	●	NIOSH 1610				0.25-3		10-200		varies		GC-FID	ST	226-01	35		
Diethyl ketone (3-pentanone)		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	NA SKC			
Diethyl phthalate (DEP)		OSHA 104				240		1000		4		GC-FID	ST	226-56	36		
Diethyl sulfate		OSHA CSI				15		1000		15 min		GC-FID	ST	226-10	35		
Diethylamine	●	OSHA 41	1697	25		10	3	200	200	50 min	15	HPLC	ST	226-96	37		
Diethylamine (amines, aliphatic)	●	NIOSH 2010		10	25	24	3	50	200	8	15	GC-FID	ST	226-10	35		
2-Diethylaminoethanol		OSHA CSI		10		24		200		2		GC-FID	ST	226-10-04	35		
2-Diethylaminoethanol (aminoethanol compounds I)		NIOSH 2007		10		10		20(50)		8(3.3)		GC-FID	ST	226-10-04	35		
Diethylaminopropylamine (DEP)		OSHA CSI				100		1000		100 min		GC-NPD	IMP	225-36-1	59	IT 225-22 59	
Diethylene dioxide (see dioxane)																	
Diethylene ether (see dioxane)																	
Diethylene glycol (glycols)		NIOSH 5523	1387			60		1000		1		GC-FID	ST	226-57	36		
Diethylene glycol methyl ether		OSHA CSI				10		100		100 min		GC-FID	ST	226-01	35		
Diethylene glycol monobutyl ether acetate		OSHA CSI				9.6		100		1.6		GC-FID	ST	226-01	35		
Diethylene glycol monoethyl ether		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
Diethylenetriamine		OSHA 60	1285			10		100		100 min		HPLC-UV	ST	226-30-18	35		
Difluorodibromomethane		NIOSH 1012		100		6		50		2		GC-FID	ST	226-01	35		
Difluorodibromomethane		OSHA 07		100		10		20		8		GC-FID	ST	226-01	35		
Diglycidyl ether of bisphenol A		OSHA CSI				240		1000		4		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87	

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References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Diglycolamine		OSHA CSI				20		100		3		GC-NPD	IMP 225-36-1	59	IT 225-22	59			
Diglyme		OSHA CSI				20		200		100 min		GC-FID	ST 226-01	35					
Dihexyl phthalate		OSHA PV2076				240		1000		4		GC-FID	ST 226-56	36					
Dihydrocapsaicin		NIOSH 5041				480	15	1000	1000	8	15	HPLC-FD	FLT 225-16	79	CST 225-32	87			
Diisobutyl ketone	●	OSHA 07	1116	50		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
Diisobutyl ketone (ketones I)	●	NIOSH 1300		25		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
Diisobutyl ketone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST NA SKC						
Diisocyanates		OSHA 42	1458			240	15	1000	1000	4	15	HPLC-UV or HPLC-FD	CF/CST 225-9002 or 225-1	87	CF/CST 225-9013	61			
Diisopropylamine		OSHA CSI	5			120		1000		2		GC-FID	IMP 225-36-1	59	IT 225-22	59			
Dimethazone		OSHA PV2066				60		1000		1		GC-ECD	ST 226-30-16	35					
Dimethoate		OSHA PV2113				480		1000		8		GC-FPD	ST 226-30-16	35					
2,5-Dimethoxyaniline		OSHA CSI				17		50		5.7		HPLC-UV	ST 226-30-04	35					
Dimethoxymethane (methylal)	●	NIOSH 1611		1000		2		20		1.5		GC-FID	ST 226-01	35					
Dimethoxymethane (methylal)	●	OSHA 07	1115	1000		2		20		1.5		GC-FID	ST 226-01	35					
Dimethyl adipate		OSHA PV2019				20		200		100 min		GC-FID	ST 226-01	35					
Dimethyl arsenic acid (arsenic, organo-)		NIOSH 5022				960		2000		8		IC-AA	FLT 225-17-01 or 225-1	74	CST 225-2LF	86			
Dimethyl disulfide		NON 42	1413			12		1000		12 min		GC-FPD	SB 253-10	or SB 263-10	52				
Dimethyl disulfide		OSHA CSI				6		100		1		GC-FID	ST 226-01	35					
Dimethyl glutarate		OSHA PV2020				20		200		100 min		GC-FID	ST 226-01	35					
Dimethyl phthalate (DMP)		OSHA 104		5 mg/m³		240		1000		4		GC-FID	ST 226-56	36					
Dimethyl succinate		OSHA PV2021				20		200		100 min		GC-FID	ST 226-01	35					
Dimethyl sulfate		NIOSH 2524	1284	0.1 (8 hrs.)		12		50		4		GC-ECD	ST 226-114	37					
Dimethyl sulfate		OSHA PV2147		1		10		100		100 min		GC-FPD	ST 226-115	37					
Dimethyl sulfide		NON 42	1413			12		1000		12 min		GC-FPD	SB 263-10	52					
Dimethyl sulfide		OSHA CSI				5		20		4		GC-FPD	ST 226-01	35					
Dimethyl sulfoxide		OSHA CSI				10		100		100 min		GC-FID	ST 226-01	35					
Dimethyl-1,2-dibromo-2,2-dichloroethyl phosphate		OSHA CSI		3 mg/m³		60		1000		1		GC-FPD	ST 226-30-16	35					
2,3-Dimethyl-2,3-dinitrobutane		NON 44		0.15 mg/m³ OEL		10		200		50 min		GC-ECD	ST 226-35-03	36					
N,N-Dimethyl-p-toluidine (amines, aromatic)		NIOSH 2002	1055			96		200		8		GC-FID or GC-NSD	ST 226-10	35					
Dimethylacetamide		NIOSH 2004	1695	10		48		100		8		GC-FID	ST 226-10	35					
Dimethylacetamide		OSHA CSI		10		60		1000		1		GC-FID	ST 226-10	35					
Dimethylamine	●	NIOSH 2010		10		24		50		8		GC-FID	ST 226-10	35					
Dimethylamine	●	OSHA 34	1696	10		10		20		8		HPLC	ST 226-96	37					
2-Dimethylamino ethanol		NIOSH 2561				10-24		20-100		varies		GC-FID	ST 226-94	37					
1-Dimethylamino-2-propanol		NIOSH 2561				10-24		20-100		varies		GC-FID	ST 226-94	37					
4-Dimethylaminoazobenzene		OSHA CSI				60		1000		1		HPLC-UV	F/CST 225-706 or 225-36-1	79	C/HLD 225-1	87			
Dimethylaminobenzene		OSHA CSI		5		24		50		8		GC-FID	ST 226-10	35					
2,4-Dimethylaminobenzene (amines, aromatic)		NIOSH 2002		2		24		50		8		GC-FID or GC-NSD	ST 226-10	35					
N,N-Dimethylaniline	●	OSHA 07		5		10	3	20(50)	200	8(3.3)	15	GC-FID	ST 226-01	35					
N,N-Dimethylaniline	●	OSHA PV2064		5		30		200		2.5		GC-FID	ST 226-98	37					
N,N-Dimethylaniline (amines, aromatic)	●	NIOSH 2002	1054	5	10	24	3	50	200	8	15	GC-FID or GC-NSD	ST 226-10	35					
2,5-Dimethylbenzaldehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST 226-120	or ST 226-119	37				
trans-1,4-Dimethylcyclohexane	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
trans-1,2-Dimethylcyclohexane	●											GC-FID	PS 575-001	64					
N,N-Dimethylethanolamine		NIOSH 2561				10-24		20-100		varies		GC-FID	ST 226-94	37					
N,N-Dimethylethanolamine		OSHA CSI				24		50		8		GC-FID	ST 226-10-04	35					
N,N-Dimethylethylamine		OSHA PV2096				40		100		40 min		GC-NPD	ST 226-18	35					
N,N-Dimethylformamide	●	NIOSH 2004		10		24		50		8		GC-FID	ST 226-10	35					
N,N-Dimethylformamide	●	OSHA 66	1271	10		9.6	3	20	200	8	15	GC-NPD	ST 226-01	35					
1,1-Dimethylhydrazine		NIOSH 3515		0.06 (120 min)		60		1000		1		VAS	IMP 225-36-2	59	IT 225-22	59			
1,1-Dimethylhydrazine		OSHA CSI		0.5		96		200		8		CLR	IMP 225-36-2	59	IT 225-22	59			
Dimethyltin dichloride		NIOSH 5526		0.1 mg/m³		60	60	250	1000	4	60	GC-FPD	ST 226-30-16	35					
Dinitolmide		OSHA CSI				240		1000		4		HPLC	F/CST 225-706	79	C/HLD 225-1	87			
Dinitro-o-cresol		OSHA CSI		0.2 mg/m³		180		1500		2		HPLC-UV	F/CST 225-3-01 or 225-22	77	IMP 225-36-1	59			
4,6-Dinitro-o-sec-butyl phenol		OSHA CSI				24		50		8		HPLC-UV	ST 226-95	37					
Dinitrobenzene (all isomers)		OSHA CSI		1 mg/m³		60		1000		1		HPLC-UV	ST 226-30-16	35					
2-(2,4-Dinitrophenoxy)ethanol		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST 226-10	35					
Dinitrotoluene (DNT)		OSHA 44		1.5 mg/m³		60		1000		1		GC-TEA	ST 226-56	36					
n-Dioctyl phthalate (DNOP)		OSHA 104				240		1000		4		GC-FID	ST 226-56	36					
Dioxane (diethylene dioxide)	●	NIOSH 1602		1 (30 min)		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
Dioxane (diethylene dioxide)	●	OSHA 07	1114	100		10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
Dioxathion (Delnav)		OSHA CSI				480		1000		8		GC-FPD	ST 226-30-16	35					
Dioxins (including PHDDs, PCDDs, PBDDs) (see Environmental Sampling Guide)		EPA TO-9A																	
Diphenyl		NIOSH 2530		0.2		30		100		5		GC-FID	ST 226-35-01	35					
Diphenyl ether		OSHA PV2022		0.2		20		200		100 min		GC-FID	ST 226-95	37					

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		Agency Standard		Vol. (liter)		Rate (ml/min)		Time								
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
p,p-Diphenyl methane diisocyanate (MDI) (see methylene bisphenyl isocyanate)		OSHA 47														
2-Diphenylacetyl-1,3-indandione		OSHA CSI				480		2000		4		HPLC-UV	F/CST 225-706	79	C/HLD 225-1	87
Diphenylamine		OSHA 78	1229			100		1000		100 min		HPLC-UV	CF/CST 225-9004	61	C/HLD 225-1	87
5,5-Diphenylhydantoin		OSHA CSI				60		1000		1		HPLC-UV	FLT 225-7 ‡	79	CST 225-3LF	86
												C/HLD 225-1		87		
Diphenylmethane-4,4'-diisocyanate (4,4-methylene bisphenyl isocyanate) (isocyanates)		NIOSH 5521	1001	50 µg/m³	200 µg/m³ (10 min) C	480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP 225-36-1	59	IT 225-22	59
Dipropyl disulfide		OSHA PV2086				10		20(50)		8(3.3)		GC-FPD	ST 226-110	37		
Dipropyl ketone		OSHA CSI				10		20		8		GC-FID	ST NA SKC			
Dipropylene glycol methyl ether	●	OSHA 07	1113	100		10	3	20(50)	200	8(3.3)	15	GC-FID	ST 226-01	35		
Dipropylene glycol methyl ether	●	OSHA 101		100		10		100		100 min		GC-FID	ST 226-01	35		
Dipropylene glycol methyl ether (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST 226-81A	36		
Dipropylene glycol monomethyl ether (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST 226-81A	36		
Diquat		OSHA CSI				120		1000		2		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct black 38		OSHA CSI				100		1000		100 min		HPLC	F/CST 225-706	79	C/HLD 225-1	87
Direct black 38 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct blue		OSHA CSI				60		1000		1		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct blue 2		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct blue 6		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct blue 6 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct blue 8 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct blue 98		OSHA CSI				180		1000		3		HPLC-UV	F/CST 225-706	79	C/HLD 225-1	87
Direct brown 31		OSHA CSI				180		1000		3		HPLC-UV	F/CST 225-706	79	C/HLD 225-1	87
Direct brown 95		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct brown 95 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct red 2		OSHA CSI				120		1000		2		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Direct red 2 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct red 28 (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Direct red 81		OSHA CSI				100		1000		100		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Disperse yellow 3		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Disulfiram (tetraethylthiuram disulfide)		OSHA CSI				120		1000		2		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87
Disulfoton		OSHA PV2105				480		1000		8		GC-FPD	ST 226-30-16	35		
Disulfoton (organophosphorus pesticides)		NIOSH 5600		0.1 mg/m³		240		1000		4		GC-FPD	ST 226-58	36		
Disyston		OSHA CSI				480		1000		8		GC-FPD	ST 226-30-16	35		
2,2'-Dithiobis(benzothiazole)		OSHA CSI				480		2000		4		HPLC-UV	F/CST 225-706	79	C/HLD 225-1	87
Diuron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF 226-92	42		
Diuron (organonitrogen pesticides)		NIOSH 5601		10 mg/m³		240		1000		4		HPLC-UV	ST 226-58	or ST	226-30-16	35
Divinyl benzene		OSHA 89				12		50		4		GC-FID	ST 226-73	36		
Divinyl sulfide		OSHA CSI				2.5		20		2		GC	ST 226-01	35		
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	36		
Dodecyl alcohol (lauryl alcohol)	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-01	35		
Dodine		OSHA CSI				240		1000		2		HPLC-UV	ST 226-30	35		
Dursban (chlorpyrifos)(organophosphorus pesticides)		NIOSH 5600		0.2 mg/m³ 0.6 mg/m³		240		1000		4		GC-FPD	ST 226-58	36		
Dust, inorganic						15-150		15000		1-10 min		varies	STC 225-9820	81		
Dust, respirable (in workplace atmospheres)		ASTM D 4532	1418			varies		2500		varies		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CYC 225-01-02	95	CST 225-3LF	86	
Dust, respirable nuisance		OSHA CSI		5.0 mg/m³		varies		varies		varies		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CYC 225-105	94	CST 225-3LF	86	
Dust, respirable nuisance (particulates)		NIOSH 0600	1038			375		2500		2.5		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CYC 225-01-02	95	CST 225-3LF	86	
Dust, total nuisance		OSHA CSI		15 mg/m³		720		1500		8		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CST 225-2LF	86			
Dust, total nuisance (particulates)		NIOSH 0500	1035			120		2000		1		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CST 225-2LF	86			
Dust, total, particulates not otherwise regulated		NIOSH 0500	1035			120		2000		1		GR	FLT 225-8-01	73	C/HLD 225-1	87
												CST 225-2LF	86			
Dyes, benzidine, o-tolidine, o-dianisidine		NIOSH 5013		LFC		480		1000		8		HPLC-UV	FLT 225-17A	74	CST 225-3LF	86
												C/HLD 225-1		87		
Dyfonate		OSHA CSI				480		1000		8		GC-FPD	ST 226-30-16	35		
Elemental carbon (diesel exhaust)		MSHA				varies		varies		varies		EGA-TOS	DPM 225-317	84	CYC 225-105	85
Elemental carbon (diesel exhaust)		NIOSH 5040				varies		varies		varies		TOA-FID	F/CST 225-401	79	CYC 225-100	84
												C/HLD 225-1		87		
Elements by ICP Aqua Regia ashing (see specific element)		NIOSH 7301 ‡		varies		varies		1000-4000		varies		ICP-AES	F/CST 225-3-01	or 87	F/CST 225-803	73
												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	77	C/HLD 225-1	87
Elements by ICP HNO ₃ /HClO ₄ ashing (see specific element)		NIOSH 7300	1455	varies		varies		1000-4000		varies		ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87
Elements on wipes (see specific element)		NIOSH 9102				wipe						ICP-AES	W 225-2414	124	TMP 225-2403	or 225-2415 124

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates									
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time											
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number								
Elements qualitative		OSHA ID 204				480		2000		8		XRF	F/CST	225-3-01	77	C/HLD	225-1	87			
Emery (corundum) (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86			
Emery (corundum) (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87			
Emery (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86			
Emery (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87			
Endosulfan (Thiodan)		OSHA PV2023				60		1000		1		GC-ECD	ST	226-30-16	35						
Endotoxins (bacteria in air)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊	225-9598A	105			
Endrin		NIOSH 5519		0.1 mg/m³		240		1000		4		GC-ECD	CST SCN C/HLD	225-2LF 225-26 225-1	86 87 87	FLT ST	225-5 226-104	76 37			
Enflurane (ethrane)	●	OSHA 103	1348			12		50		4		GC-FID	ST	226-81A	36						
Enflurane (ethrane)	●	OSHA 29				10		20		8		GC-FID	ST	226-01	35						
Environmental tobacco smoke (nicotine & 3-ethenylpyridine)		NON 49				90-720		1500		1-8		GC-NSD	ST	226-170	38						
Environmental tobacco smoke (respirable particles)		ASTM D 5955	1419			varies		varies		varies		GR & HPLC-UV & HPLC-FD	FLT CYC	225-2705 225-01-02	74 95	C/HLD CST	225-1 225-3LF	87 86			
Environmental tobacco smoke (solanesol, respirable particles)		ASTM D 6271				150-3600		2500		1-24		HPLC-UV	FLT CYC	225-2705 225-01-02	74 95	CST C/HLD	225-3LF 225-1	86 87			
Epichlorohydrin	●	NIOSH 1010		LFC		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35						
Epichlorohydrin	●	OSHA 07	1112	5		20		100		3.3		GC-FID	ST	226-01	35						
Epicoocum species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87			
Epicoocum species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103						
EPN		NIOSH 5012		0.5 mg/m³		480		1000		8		GC-FPD	F/CST	225-709	79	C/HLD	225-1	87			
EPN		OSHA CSI		0.5 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35						
1,2-Epoxyethylbenzene		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-35	35						
1,2-Epoxypropane (see propylene oxide)	●																				
2,4,D-Esters		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42						
Esters I (see specific compounds)		NIOSH 1450		varies		1-10		varies		varies		GC-FID	ST	226-01	35						
Estradiol		OSHA PV2001				240		1000		4		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87			
Estril		OSHA PV2001				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87			
Estrone		OSHA PV2001				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87			
1,2-Ethanediol (ethylene glycol) (glycols)		NIOSH 5523	1401			24		100		4		GC-FID	ST	226-57	36						
1,2-Ethanediol dinitrate		OSHA 43			0.2 (C)		15		1000		15	HPLC-TEA	ST	226-35-03	36						
2-(2-methoxyethoxy)Ethanol		OSHA CSI				6		100		1		GC-FID	ST	226-01	35						
Ethanalamine		OSHA PV2111	3			10	1.5	100	100	100 min	15	HPLC-UV	ST	226-30-18	35						
3-Ethenylpyridine		NON 49				90-720		1500		1-8		GC-NSD	ST	226-170	38						
3-Ethenylpyridine & nicotine		ASTM D 5075	1427			90-2160		1500		1-24		GC-NPD	ST	226-93	37						
Ethion (nialate)		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35						
Ethion (organophosphorus pesticides)		NIOSH 5600		0.4 mg/m³		240		1000		4		GC-FPD	ST	226-58	36						
Ethoprop (organophosphorus pesticides)		NIOSH 5600				240		1000		4		GC-FPD	ST	226-58	36						
1-Ethoxy-2-propanol		OSHA CSI				48		100		8		GC-FID	ST	226-01	35						
2-Ethoxyethanol (alcohols IV)	●	NIOSH 1403	1273	0.5 (skin)		1-6		10-50		varies		GC-FID	ST	226-01	35						
2-Ethoxyethanol (CELLOSOLVE solvent)	●	OSHA 79	1277	200		48	15	100	1000	8	15	GC-FID	ST	226-01	35						
2-Ethoxyethanol (CELLOSOLVE solvent) (alcohols IV)	●	NIOSH 1403	1273	0.5 (skin)		1-6		10-50		varies		GC-FID	ST	226-01	35						
2-Ethoxyethyl acetate (CELLOSOLVE acetate)	●	OSHA 79	1277	100		48	15	100	1000	8	15	GC-FID	ST	226-01	35						
2-Ethoxyethyl acetate (esters I)	●	NIOSH 1450		0.5 (skin)		1-10		10-200		varies		GC-FID	ST	226-01	35						
Ethrane (enflurane)	●	OSHA 29				10		100		1.6		GC-FID	ST	226-01	35						
Ethyl 2-cyanoacrylate		OSHA 55				12		100		2		HPLC-UV	ST	226-98	37						
Ethyl acetate	●	NIOSH 1457		400		10		20		8		GC-FID	ST	226-01	35						
Ethyl acetate	●	OSHA 07	1111	400		5		20		4		GC-FID	ST	226-01	35						
Ethyl acrylate	●	NON 54		5	15	10	3	20	200	8	15	GC-FID	ST	226-81A	36						
Ethyl acrylate	●	OSHA 92		25		12	0.75	50	50	4	15	GC-FID	ST	226-73	36						
Ethyl acrylate (esters I)	●	NIOSH 1450		4 (LOQ)		1-10		10-200		varies		GC-FID	ST	226-01	35						
Ethyl alcohol (ethanol)	●	OSHA 07	1109	1000		1		50		20 min		GC-FID	ST	226-01	35						
Ethyl alcohol (ethanol)	●	OSHA 100	1283	1000		12		50		4		GC-FID	ST	226-82	37						
Ethyl alcohol (ethanol) (alcohols I)	●	NIOSH 1400		1000		1		50		20 min		GC-FID	ST	226-01	35						
Ethyl amyl ketone	●	OSHA 07	1158	25		10		20(50)		8(3.3)		GC-FID	ST	226-01	35						
Ethyl benzene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series					
Ethyl benzene	●	OSHA 07	1108	100		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35						
Ethyl benzene	●	OSHA 1002	1746	100		12		50		4		GC-FID	ST	226-01	35						
Ethyl benzene		OSHA 1002	1746	100				13.83		8		GC-FID	PS	575-002	64						
Ethyl benzene (hydrocarbons, aromatic)	●	NIOSH 1501	1053	100	125	1-24	1-24	10-200	10-200	varies	varies	GC-FID	ST	226-01	35						
Ethyl bromide (bromoethane)	●	NIOSH 1011				4		20		3.3		GC-FID	ST	226-01	35						
Ethyl bromide (bromoethane)	●	OSHA 07	1107	200		5	3	20	200	4	15	GC-FID	ST	226-01	35						
Ethyl butyl ketone (3-heptanone)	●	OSHA 07	1106	50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35						
Ethyl butyl ketone (3-heptanone) (ketones II)		NIOSH 2553		50		1-25		10-200		varies		GC-FID	ST	NA SKC							
Ethyl butyl ketone (3-heptanone) (ketones II)	●	NIOSH 1301		50		24		200		2		GC-FID	ST	226-01	35						
Ethyl CELLOSOLVE solvent (2-ethoxyethanol)	●											GC-FID	PS	575-001	64						
Ethyl chloride		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series					
Ethyl chloride		NIOSH 2519				3		50		1		GC-FID	ST	226-25	35						
Ethyl chloride		OSHA 07		1000		3		50		1		GC-FID	ST	226-01	35						

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References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time						
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Ethyl ether (diethyl ether)	●	OSHA 07	1105	400		3	3	20	200	2.5	15	GC-FID	ST	226-01	35	
Ethyl ether (ethyl ether)	●	NIOSH 1610				0.25-3		10-200		varies		GC-FID	ST	226-01	35	
Ethyl formate	●	NIOSH 1452		100		10	20	20		8		GC-FID	ST	226-01	35	
Ethyl formate	●	OSHA 07	1104	100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35	
Ethyl lactate		OSHA PV2081				10		200		50 min		GC-FID	ST	226-01	35	
Ethyl mercaptan		OSHA CSI			10 (C)		120		1000		120	GC-FPD	CF/CST	225-9007	61	C/HLD 225-1 87
Ethyl mercaptan (mercaptans)		NIOSH 2542	1330		0.5 (15 min)	48	12	100	200	8	60	GC-FPD	CF/CST	225-9007	61	C/HLD 225-1 87
Ethyl methacrylate	●	NIOSH 2537				1-8		10-50		varies		GC-FID	ST	226-30-06	35	
Ethyl methacrylate	●	OSHA PV2100				10		20(50)		8(3.3)		GC-FID	ST	226-01	35	
Ethyl O-(p-nitrophenyl) phenylphosphonothionate (EPN)		NIOSH 5012		0.5 mg/m³		480		1000		8		GC-FPD	F/CST	225-709	79	C/HLD 225-1 87
Ethyl parathion		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF	226-92	42	
Ethyl propionate	●	OSHA CSI				10		20(50)		8(3.3)		GC	ST	226-01	35	
Ethyl silicate		OSHA CSI		100		9		50		3		GC-FID	ST	226-30-04	35	
Ethyl tert-butyl ether (tert-butyl ethyl ether)	●											GC-FID	PS	575-001	64	
Ethyl vinyl benzene		OSHA 89				12		50		4		GC-FID	ST	226-73	36	
Ethyl-3-ethoxypropionate		OSHA PV2025				10		100		100 min		GC-FID	ST	226-01	35	
Ethylamine		OSHA 36	10			10		200		50 min		HPLC-UV	ST	226-96	37	
Ethylene	●	OSHA CSI										DET TB	DT	800-28051 or 800-01331	or DT	810-172 or 810-172L
Ethylene chlorohydrin		NIOSH 2513		1		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-81A	36	
Ethylene chlorohydrin		OSHA 07	1159	5		20		40		8		GC-FID	ST	226-81A	36	
Ethylene dibromide (1,2-dibromoethane)	●	NIOSH 1008		0.045	0.13(15min)	10	3	20(50)	200	8(3.3)	15	GC-ECD	ST	226-01	35	
Ethylene dibromide (1,2-dibromoethane)	●	OSHA 02	1072	20	30	10	1	20(50)	200	8(3.3)	5	GC-ECD	ST	226-01	35	
Ethylene dichloride (1,2-dichloroethane)	●	OSHA 03	1063	50	100	10	3	200	200	1	15	GC-ECD	ST	226-01GWS	35	
Ethylene dichloride (1,2-dichloroethane) (hydrocarbons, halogenated)	●	NIOSH 1003		1	2	3	3	10-200	10-200	varies	varies	GC-FID	ST	226-01	35	
Ethylene glycol (glycols)		NIOSH 5523	1401			60		1000		1		GC-FID	ST	226-57	36	
Ethylene glycol dinitrate		OSHA 43			0.2 (C)		15		1000		15	HPLC-TEA	ST	226-35-03	36	
Ethylene glycol dinitrate (nitroglycerine)		NIOSH 2507			0.1 mg/m³		15		1000		15	GC-ECD	ST	226-35-03	36	
Ethylene glycol isopropyl ether (isopropyl CELLOSOLVE solvent)		OSHA CSI				9		100		1.5		GC-FID	ST	226-01	35	
Ethylene glycol monohexyl ether	●	OSHA CSI				10		200		50 min		GC-FID	ST	226-01	35	
Ethylene oxide	●	ASTM D 4413				6	3	100	200	1	15	GC-FID	ST	226-16	or ST	226-36 36
Ethylene oxide	●	ASTM D 5578				9.6	1.5	20	100	8	15	GC-ECD	ST	226-178	38	
Ethylene oxide	●	NIOSH 1614		0.1	5 (10 min)	24	1.5	100	150	4	10	GC-ECD	ST	226-178	38	
Ethylene oxide	●	OSHA 1010	1751	1	5.0 EL	12	0.75	50	50	4	15	GC-ECD	ST	226-178	38	
Ethylene oxide (by portable GC)		NIOSH 3702	1031	0.1	5 (10 min)	varies	varies	20-4000	varies	varies	varies	P GC-PID	SB	232 Series	50	
Ethylene oxide (Qazi-Ketcham)		NON 14				10		20(50)		8(3.3)		GC	ST	226-36	36	
Ethylene thiourea		NIOSH 5011		LFC		480		2000		4		VAS	F/CST	225-802	73	C/HLD 225-1 87
Ethylene thiourea		OSHA 95				480		2000		4		HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87
Ethylenediamine		NIOSH 2540		10		10		100		1.7		HPLC-UV	ST	226-30-18	35	
Ethylenediamine		OSHA 60	1287	10		10		100		100 min		HPLC-UV	ST	226-30-18	35	
Ethylenimine		NIOSH 3514				48		200		4		HPLC-UV	IMP	225-36-2	59	IT 225-22 59
2-Ethylhexanol	●	OSHA CSI				48		200		4		GC-FID	ST	226-01	35	
Ethylhexyl acetate	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35	
2-Ethylhexyl acrylate		OSHA PV2026				12		100		2		GC-FID	ST	226-73	36	
di-2-Ethylhexyl phthalate (DEHP)		OSHA 104		5 mg/m³		240		1000		4		GC-FID	ST	226-56	36	
N-Ethylmorpholine		OSHA CSI		20		10		20(50)		8(3.3)		GC-FID	ST	226-10	35	
ETS (see environmental tobacco smoke)		NON 49														
Exserohilum species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Exserohilum species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Fenamiphos		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35	
Fenamiphos (organophosphorus pesticides)		NIOSH 5600		0.1 mg/m³		240		1000		4		GC-FPD	ST	226-58	36	
Fenarimol		OSHA CSI				30		1000		30 min		HPLC-UV	ST	226-30-16	35	
Fensulfthion (Dansanit)		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35	
Fenthion		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35	
Fenvalerate		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Ferbam		OSHA CSI		15 mg/m³		480		1000		8		HPLC-UV	ST	226-30-16	35	
Ferric chloride (see iron salts, soluble as Fe)		OSHA ID 121										ICP-AES	F/CST	225-3-01	or 87	F/CST 225-3100 77
Ferrovandium dust		OSHA ID 125G	1218	1 mg/m³		480	30	2000	2000	4	15	ICP-AES	F/CST	225-3-01	or 87	F/CST 225-3100 77
Fibers (bioaerosols)						15-150		15000		1-10 min		varies	STC	225-9820	81	
Fibers (see specific compounds)																
Fibrous glass (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT	225-8-01	73	C/HLD 225-1 87
Fibrous glass (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	CYC	225-01-02	95	CST 225-3LF 86
Fibrous glass (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT	225-8-01	73	C/HLD 225-1 87
Fibrous glass (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	CST	225-2LF	86	
Fibrous glass dust		OSHA CSI		15 mg/m³		960		2000		8		GR	F/CST	225-8204	73	C/HLD 225-1 87
Flax dust (see dust, total & respirable nuisance)		OSHA CSI														
Fluoboric acid		OSHA CSI				120		1000		2		ISE	IMP	225-36-2	59	IT 225-22 59
Fluometuron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Fluoranthene		OSHA CSI				960		2000		8		HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87
Fluoranthene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT 225-1821 79
Fluoranthene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST	225-1713	74	ST 226-30-04 35

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates									
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time											
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number								
Fluoranthene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74 ST	226-30-04 35					
Fluorene		OSHA CSI				960		2000		8		HPLC-UV	F/CST	225-709	79 C/HLD	225-1 87					
Fluorene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43 FLT	225-1821 79					
Fluorene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 ST	226-30-04 35					
Fluorene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 ST	226-30-04 35					
Fluorides		ASTM D 4765	1421			varies		2000		varies		ISE	CF/CST	225-9001	61 C/HLD	225-1 87					
Fluorides (aerosol & gas by ISE)		NIOSH 7902	1226	2.5 mg/m³	6 (HF)	480	22.5	1000	1500	8	15	ISE	CF/CST	225-9001	61 C/HLD	225-1 87					
Fluorides (as F)		OSHA ID 110	1227	2.5 mg/m³		90	22.5	1500	1500	1	15	ISE	CF/CST	225-9001	61 C/HLD	225-1 87					
Fluorine		OSHA CSI		0.1		480		1000		8		ISE	IMP	225-36-2	59 IT	225-22 59					
Fluorotrichloromethane (trichlorofluoromethane)		NIOSH 1006			1000		5		20		240	GC-FID	ST	226-09		35					
5-Fluorouracil		OSHA CSI				180		1000		3		HPLC-UV	ST	226-30-16		35					
Folpet		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92		42					
Fonofos (dyfonate)		OSHA PV2027				480		1000		8		GC-FPD	ST	226-30-16		35					
Fonofos (organophosphorus pesticides)		NIOSH 5600		0.1 mg/m³		240		1000		4		GC-FPD	ST	226-58		36					
Formaldehyde	●	ASTM D 5197	1442			varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120 or	ST	226-119 37					
Formaldehyde	●	NIOSH 2016	1761	0.016	0.1 (C)	1<-15	1<-15	30-500	30-500	varies	varies	HPLC-UV	ST	226-119	37						
Formaldehyde	●	NIOSH 2541	1015	0.016	0.1 (C)	24	1	100	100	4	10	GC-FID	ST	226-118		37					
Formaldehyde	●	NIOSH 3500		0.016	0.1	96	15	200	1000	8	15	VAS	IMP	225-36-1	59 IT	225-22 59					
												FLT	225-1709	74 CST	225-2LF	86					
												SCN	225-26	87							
Formaldehyde	●	OSHA 1007		0.75	2	13.8	0.43	28.6	28.6	8	15	HPLC-UV	PS	500-100		67					
Formaldehyde	●	OSHA 52	1020	0.75	2	24	3	100	200	4	15	GC-NPD	ST	226-117	or	ST 226-54 36					
Formaldehyde (aldehydes, screening)	●	NIOSH 2539		0.016	0.1	5		20		4		GC-FID & GC-MS	ST	226-118		37					
Formaldehyde (see Environmental Sampling Guide)		EPA IP-11A																			
Formaldehyde (see Environmental Sampling Guide)		EPA IP-6A																			
Formaldehyde (see Environmental Sampling Guide)		EPA IP-6C																			
Formaldehyde on dust (textile or wood)		NIOSH 5700		0.016	0.1	240		2000		4		HPLC-UV	IOM	225-70A	92 FLT	225-5-25 73					
Formamide		OSHA CSI				10	1.5	100	100	100 min		GC-NPD	ST	226-10		35					
Formetanate (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST 226-30-16 35					
Formic acid	●	NIOSH 2011		5		24		200		2		IC-ECN	FLT	225-2708	74 CST	225-3-25LF 86					
												ST	226-10-03	35 C/HLD	225-1	87					
Formic acid	●	OSHA ID 186SG		5		48		100		8		IC	ST	226-09		35					
Freon 11		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK 228 Series					
Freon 113		OSHA 113		1000		1		50		20 min		GC-FID	ST	NA SKC							
Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane)		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK 228 Series					
Freon 114		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK 228 Series					
Freon 12		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK 228 Series					
Freon 123		NON 50				9		50		3		GC-FID	ST	226-09		35					
Freon 141b		OSHA 113		1000		1		50		20 min		GC-FID	ST	NA SKC							
Fumarin		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-706	79 C/HLD	225-1 87					
Fungi		NIOSH 0800				varies		28,300		varies		varies	BI	225-9611		103					
Fungi (in air)						15-150		15000		1-10 min		varies	STC	225-9820		81					
Fungi (in air) (BioSampler method)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105 VT	225-9598A 105					
Furans (including PHDFs, PCDFs, PBDFs) (see Environmental Sampling Guide)		EPA TO-9A																			
Furfural	●	NIOSH 2529				5		20		4		GC-FID	ST	226-118		37					
Furfural	●	OSHA 72		5		180		1000		3		GC-FID	ST	226-81A		36					
Furfural (aldehydes, screening)	●	NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118		37					
Furfuryl alcohol		NIOSH 2505		10	15	5		20		4		GC-FID	ST	226-115		37					
Fusarium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77 C/HLD	225-1 87					
Fusarium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611		103					
Gallium		OSHA CSI				960		2000		8		GR	FLT	225-8-01	73 C/HLD	225-1 87					
													CST	225-2LF		86					
Gallium (elements by ICP HNO ₃ digestion)		NIOSH 7303				1-3300		1000-4000		varies		ICP-AES	F/CST	225-3-01	77 C/HLD	225-1 87					
Gasoline		OSHA PV2028				10	1.5	20(50)	100	8(3.3)	15	GC-FID	ST	226-01		35					
Gentian violet		OSHA CSI				180		1000		3		HPLC-UV	FLT C/HLD	225-7 ‡ 225-1	79 CST	225-2LF 86					
Germanium oxide		OSHA CSI				960		2000		8		AA-GF	F/CST	225-3-01	77 C/HLD	225-1 87					
Glass, fibrous (see asbestos fibers)		NIOSH 7400																			
Glass, fibrous dust		OSHA CSI				960		2000		8		GR	FLT	225-8-01	73 C/HLD	225-1 87					
													CST	225-2LF		86					
Glucocladium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77 C/HLD	225-1 87					
Glucocladium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611		103					
Glutaraldehyde	●	NIOSH 2532	1346		0.2		3		200		15	HPLC-UV	ST	226-119		37					
Glutaraldehyde	●	NON 43				30	15	250	1000	2	15	GC-FID	ST	226-10		35					
Glutaraldehyde	●	OSHA 64	1241				15		1000		15	HPLC-UV	CF/CST	225-9003	61 C/HLD	225-1 87					
Glycerin mist (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT	225-8-01	73 C/HLD	225-1 87					
													CYC	225-01-02	95 CST	225-3LF 86					
Glycerin mist (respirable)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT	225-8-01	73 C/HLD	225-1 87					
													CYC	225-105	94 CST	225-3LF 86					
Glycerin mist (total dust)		OSHA CSI		15 mg/m³		96		2000		8		GR	FLT	225-8-01	73 C/HLD	225-1 87					
													CST	225-3LF		86					
Glycidol (2,3-epoxy-1-propanol)	●	NIOSH 1608		25		10		20(50)		8(3.3)		GC-FID	ST	226-01		35					

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		Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number				
Glycidol (2,3-epoxy-1-propanol)	●	OSHA 07	1157	50		48		100(200)		8(4)		GC-FID	ST	226-01	35		
Glycol chlorohydrin (see ethylene chlorohydrin)																	
Glycol ethers		NIOSH 2554				3-25		100-200		varies		GC-FID	ST	226-81A	36		
Glycols		NIOSH 5523	1402			60		1000		1		GC-FID	ST	226-57	36		
Glyphosate		OSHA PV2067				100		1000		100 min		HPLC-UV	F/CST	225-706	79	C/HLD	225-1 87
Gold		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1 87
Gold (elements by ICP HNO ₃ digestion)		NIOSH 7303				1-3300		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1 87
Grain dust (oats, wheat, barley)		OSHA CSI		10 mg/m ³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1 87
Graphite (natural) (respirable dust)		OSHA ID 142		15 mppcf		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF 86
Graphite (synthetic) (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF 86
Graphite (synthetic) (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1 87
Graphite (synthetic) (respirable dust)		OSHA CSI		5 mg/m ³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 85	C/HLD CST	225-1 225-3LF 86
Graphite (synthetic) (total dust)		OSHA CSI		15 mg/m ³		960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1 87
Graphium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1 87
Graphium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103		
Grunerite fibers (see asbestos)		OSHA ID 160															
Gypsum (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF 86
Gypsum (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1 87
Hafnium		OSHA ID 121		0.5 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1 87
Halothane		OSHA 103	1347			12		50		4		GC-FID	ST	226-81A	36		
Halothane		OSHA 29				9		100		1.5		GC-FID	ST	226-01	35		
Haloxon		OSHA CSI										W	W	225-2401A	124		
HDI (see hexamethylene diisocyanate)																	
Heptachlor		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Heptachlor		OSHA PV2029		0.5 mg/m ³		60		1000		1		GC-ECD	ST	226-30-16	35		
Heptachlor (non-occupational exposure)		ASTM D 4947	1417			240-7200 250		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Heptachlor epoxide		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Heptanal (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118	37		
n-Heptane	●	OSHA 07	1156	500		5	3	20	200	4	15	GC-FID	ST	226-01	35		
4-Heptanone (dipropyl ketone)	●												PS	575-002	64		
3-Heptanone (ethyl butyl ketone) (ketones II)		NIOSH 2553		50		1-25		10-200		varies		GC-FID	ST	NA SKC			
2-Heptanone (methyl n-amyyl ketone) (ketones II)		NIOSH 2553		100		1-25		10-200		varies		GC-FID	ST	NA SKC			
1-Heptene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35		
Hexachloro-1,3-cyclopentadiene		NIOSH 2518		0.01		24		50		8		GC-ECD	ST	226-116	37		
Hexachlorobenzene		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42		
Hexachlorobenzene		OSHA CSI				480		2000		4		GC-ECD	F/CST	225-706	79	C/HLD	225-1 87
Hexachlorobutadiene		NIOSH 2543		0.02		48		100		8		GC-ECD	ST	226-30-04	35		
Hexachlorocyclopentadiene		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-124	42		
Hexachlorocyclopentadiene (hexachloro-1,3-cyclopentadiene)		NIOSH 2518		0.01		48		100		8		GC-ECD	ST	226-116	37		
Hexachloroethane	●	OSHA 07	1155	1		30		100		5		GC-FID	ST	226-01	35		
Hexachloroethane (hydrocarbons, halogenated)	●	NIOSH 1003		1		10		10-200		varies		GC-FID	ST	226-01	35		
Hexachloronaphthalene		OSHA CSI		0.2 mg/m ³		30		1000		30 min		GC-ECD	F/CST	225-3-01	77	C/HLD	225-1 87
Hexamethylene diisocyanate		NIOSH 5522		35 µg/m ³	140 µg/m ³	360	20	1000	2000	6	10	HPLC-FD	IMP	225-36-1	59	IT	225-22 59
1,6-Hexamethylene diisocyanate		OSHA 42	1458			15		1000		15 min		HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9002 225-1	or 87	CF/CST	225-9013 61
Hexamethylene diisocyanate (gaseous)		ASTM D 6562				15		1000		15 min		HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9023 225-1	or 87	CF/CST	225-9022 61
Hexamethylene diisocyanate (HDI) (isocyanates)		OR-OSHA 1010		0.02	0.02	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22 59
1,6-Hexamethylene diisocyanate (isocyanates, total)		NIOSH 5525		35 µg/m ³	140 µg/m ³ (10 min) (C)	1-500		1000-2000		varies		HPLC-UV	FLT SP	225-7 ‡ 225-27	79 or 79	CST IOM	225-4 225-76A 92
Hexamethylene diisocyanate (isocyanates)		NIOSH 5521		35 µg/m ³	140 µg/m ³ (10 min) (C)	480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT	225-22 59
Hexamethylene diisocyanate (monomeric aerosol)		ASTM D 6561				15		1000		15 min		HPLC-UV	CF/CST C/HLD	225-9023 225-1	or 87	CF/CST	225-9022 61
Hexamethylene diisocyanate (monomeric gaseous)		ASTM D 6561				15		1000		15 min		HPLC-UV	CF/CST C/HLD	225-9023 225-1	or 87	CF/CST	225-9022 61
Hexamethylene diisocyanate (oligomeric aerosol)		ASTM D 6561				15		1000		15 min		HPLC-UV	CF/CST C/HLD	225-9023 225-1	or 87	CF/CST	225-9022 61
Hexamethylene diisocyanate biuret		OSHA PV2030				15		1000		15 min		HPLC-UV	FLT C/HLD	225-7 ‡ 225-1	79 87	CST	225-3LF 86
Hexamethylene diisocyanate biuret (HDI-BT) (isocyanates)		OR-OSHA 1010		1.0 mg/m ³	0.5 mg/m ³	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22 59
Hexamethylene diisocyanate isocyanurate (HDI-IC) (isocyanates)		OR-OSHA 1010		1.0 mg/m ³	0.5 mg/m ³	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22 59
Hexamethylenediamine		OSHA CSI				12		100		2		HPLC-UV	ST	226-30-18	35		
Hexamethylenetetramine		NON 52				15		1000		15 min		GC-NPD or GC-FID	ST	226-57	36		

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Hexamethylenetetramine		OSHA CSI				15		1000		15 min		GC-NPD	F/CST 225-3-01 77 IMP 225-36-1 59						
Hexanal		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST 226-120 59 or ST 226-119 37						
Hexanal (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST 226-118 37						
n-Hexane	●	OSHA 07	1154	500		5		20		4		GC-FID	ST 226-01 35						
Hexane (isomers other than n-hexane)		OSHA CSI				4	3	20	200	3.3	15	GC-FID	ST 226-01 35						
1,6-Hexanediol		OSHA CSI				6		100		1		GC-FID	ST 226-09 35						
Hexanediol diacrylate		NON 39				480		1000		8		GC-FID	ST 226-56 36						
1,6-Hexanediol diacrylate		OSHA CSI				10		20(50)		8(3.3)		HPLC	ST 226-95 37						
1,6-Hexanediol diacrylate		OSHA PV2133		1 mg/m³		48		200		4		GC-FID	ST 226-110 37						
2-Hexanone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST NA SKC						
2-Hexanone (methyl butyl ketone)	●	OSHA 07	1153	100		10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
2-Hexanone (methyl butyl ketone) (ketones I)	●	NIOSH 1300		1		10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
Hexavalent chromium		ASTM D 6832				varies		1000-5000		varies		IC	F/CST 225-802 or F/CST 225-709 79		F/CST 225-1713 or F/CST 225-401 79				
Hexavalent chromium		NIOSH 7600	1032	1 µg/m³ (10 hr)		240		1000		4		VAS	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium		NIOSH 7604	1032	1 µg/m³ (10 hr)		240		1000		4		IC-ECN	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium		NIOSH 7605		0.001 mg/m³ (10 hr)		1-400		1000-4000		varies		IC-PCD-UV	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium		NIOSH 7703		0.001 mg/m³ (10 hr)		10-1200		1000-4000		varies		P VAS	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium		OSHA ID 103		0.005 mg/m³ (C)		960	30	2000	2000	8	15	DPP	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium		OSHA W4001		0.005 mg/m³ (C)								IC-UV	FLT 225-8-01-1 or FLT 225-1822 79						
Hexavalent chromium (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8		IC-UV	F/CST 225-802 73 C/HLD 225-1 87						
Hexavalent chromium (in settled dust)		NIOSH 9101				bulk	bulk					CLR or VAS or IC							
Hexone		OSHA 1004		100				13.62		8		GC-FID	PS 575-002 64						
Hexone		OSHA 1004		100		12		50		4		GC-FID	ST NA SKC						
Hexone (ketones I)		NIOSH 2555		50		1-10		10-200		varies		GC-FID	ST NA SKC						
Hexone (methyl isobutyl ketone)	●	OSHA 07		100		10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
Hexone (methyl isobutyl ketone) (ketones I)	●	NIOSH 1300		50	75	10	3	20(50)	200	8(3.3)	15	GC-FID	ST 226-01 35						
n-Hexyl acetate	●	OSHA CSI				6		200		30 min		GC-FID	ST 226-01 35						
sec-Hexyl acetate	●	OSHA 07	1152	50		10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
Hexyl alcohol	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
Hexyl carbitol		OSHA CSI				6		200		30 min		GC-FID	ST 226-01 35						
Hexylene glycol	●	OSHA PV2101					3		200		15	GC-FID	ST 226-01 35						
HMX		OSHA PV2032				480		1000		8		HPLC-UV	F/CST 225-709 79 C/HLD 225-1 87						
HydramethylNON		OSHA CSI				90		1000		1.5		HPLC-UV	F/CST 225-3-01 77 C/HLD 225-1 87						
Hydrazine	●	NIOSH 3503		0.03 (120 min)		90		1000		1.5		VAS	IMP 225-36-2 59 IT 225-22 59						
Hydrazine	●	NON 22				96		200		8		CLR	ST 226-42-02 36						
Hydrazine	●	OSHA 108		1		240		1000		4		IC-UV	CF/CST 225-9012 61 C/HLD 225-1 87						
Hydrazine	●	OSHA 20	1281	1		20		100		3.3		HPLC-UV	ST 226-42-02 36						
Hydrazine (skin)												CI	PCH 769-3004 or W 769-1034 122						
Hydrazine (surface)												CI	W 769-1024 122						
Hydrazoic acid		NON 25				15		1000		15		HPLC-UV	ST 226-55 36						
Hydrazoic acid		OSHA ID 211				5		1000		5		IC-UV	ST 226-55 36 C/HLD 225-1 87		FLT 225-8-01 73 SPC 225-23 87				
Hydrobromic acid (acids, inorganic)		NIOSH 7903	1016	3		48	4.5	200	300	4	15	IC	ST 226-10-03 35						
Hydrocarbons BP 36 to 216 C (see specific compounds)		NIOSH 1500		varies		varies		varies		varies		GC-FID	ST 226-01 35						
Hydrocarbons, aromatic (see specific compounds)		NIOSH 1501	1453	varies		varies		varies		varies		GC-FID	ST 226-01 35						
Hydrocarbons, halogenated (see specific compounds)		NIOSH 1003	1454	varies		varies		varies		varies		GC-FID	ST 226-01 35						
Hydrochloric acid	●											DT	800-33111						
Hydrocyanic acid	●											DT	800-33221						
Hydrofluoric acid (fluorides)		NIOSH 7906		3	6	480	15	1000	1000	8	15	IC-ECN	CF/CST 225-9001 61 C/HLD 225-1 87						
Hydrogen		OSHA CSI										DET TB	DT 810-30						
Hydrogen bromide		OSHA ID 165SG		3		97	3	200	200	8	15	IC	ST 226-10-03 35						
Hydrogen bromide (acids, inorganic)		NIOSH 7903	1016	3		48	4.5	200	300	4	15	IC	ST 226-10-03 35						
Hydrogen chloride (hydrochloric acid)	●	OSHA ID 174SG		5			7.5		500		15	IC	ST 226-10-03 35						
Hydrogen chloride (hydrochloric acid) (acids, inorganic)	●	NIOSH 7903	1016	5		48	4.5	200	300	4	15	IC	ST 226-10-03 35						
Hydrogen cyanide	●	NIOSH 6010		4.7			2-90		50-200		varies	VAS	ST 226-28 35						
Hydrogen cyanide		OSHA 1015		10				28.4		8	15	IC-ELCM	PS 590-400 69						
Hydrogen cyanide	●	OSHA ID 120		10		120	15	1000	1000	2	15	ISE	CST 225-3LF 86 IMP 225-22 59 FLT 225-5 76						
Hydrogen cyanide (cyanides)	●	NIOSH 7904		5 mg/m³ (10 min)		15		1000		15		ISE	FLT 225-2705 Δ 74 IMP 225-36-2 59 C/HLD 225-1 87		CST 225-2LF 86 IT 225-22 59				
Hydrogen fluoride	●	NIOSH 7906		3	6	480	15	1000	1000	8	15	IC-ECN	CF/CST 225-9001 61 C/HLD 225-1 87						
Hydrogen fluoride (acids, inorganic)	●	NIOSH 7903	1016	3	6	48	4.5	200	300	4	15	IC	ST 226-10-03 35						
Hydrogen fluoride (as F)	●	OSHA ID 110		3		90	22	1500	1500	1	15	ISE	CF/CST 225-9001 61 C/HLD 225-1 87						
Hydrogen fluoride (fluorides)	●	NIOSH 7902		3	6	480	30	1000	2000	8	15	ISE	CF/CST 225-9001 61 C/HLD 225-1 87						
Hydrogen fluoride (fluorides)	●	NIOSH 7906		2.5 mg/m³		480		1000		8		IC-ECN	CF/CST 225-9001 61 C/HLD 225-1 87						
Hydrogen peroxide (90%)	●	OSHA ID 126SG	1005	1		100		1000		100 min		DPP	IMP 225-36-2 59 IT 225-22 59						
Hydrogen selenide (as Se)		OSHA CSI		0.05		480		1000		8		AA	IMP 225-36-2 59 IT 225-22 59						
Hydrogen sulfide	●	NIOSH 6013		10 (10 min)		24	3	100	300	4	10	IC	ST NA SKC						

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Hydrogen sulfide	●	NON 42	1414			12		1000		12 min		GC-FPD	SB	231-10	51				
Hydrogen sulfide	●	OSHA 1008		10	20	12	7.5	50	500	4	15	IC	ST	226-177	38				
Hydrogenated terphenyls		OSHA CSI				30		1000		30		GC-FID	FLT C/HLD	225-17-04	74	CST	225-2LF	86	
Hydroquinone		NIOSH 5004			2 mg/m³ (15 min)		30		2000		15	HPLC-UV	F/CST	225-3-01	77	C/HLD	225-1	87	
Hydroquinone		OSHA PV2094			2 mg/m³	20		200		100 min		HPLC-UV	ST	226-98	37				
2-Hydroxy-4-methoxyacetophenone		OSHA CSI				10		200		50 min		HPLC-UV	ST	226-30	35				
4-Hydroxy-4-methyl-2-pentanone (see diacetone alcohol)																			
4-Hydroxy-4-methyl-2-petanone (alcohols combined)		NIOSH 1405		50		1-10		10-200		varies		GC-FID	ST	226-01	35				
m-Hydroxyacetophenone		OSHA CSI				10		200		50 min		HPLC-UV	ST	226-30-04	35				
m-Hydroxybenzoic acid		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-3-01	77	C/HLD	225-1	87	
4-Hydroxycoumarin		OSHA CSI				10		200		50 min		HPLC-UV	ST	226-30-04	35				
Hydroxyethyl acrylate		OSHA CSI				12		200		2		GC-FID	ST	226-15GWS	35				
2-Hydroxyethyl methacrylate		OSHA CSI				10		200		50 min		GC-FID	ST	226-01	35				
2-Hydroxypropyl acrylate		OSHA PV2078				10		100		100 min		GC-FID	ST	226-73	36				
2-Imidazolidinethione (ethylene thiourea)		NIOSH 5011	LFC			480		1000		8		VAS	F/CST	225-803	73	C/HLD	225-1	87	
Indene		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-110	37				
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	43	FLT	225-1821	79	
Indeno(1,2,3-cd)pyrene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713	74	ST	226-30-04	35	
Indeno(1,2,3-cd)pyrene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713	74	ST	226-30-04	35	
Indium		OSHA ID 121		0.1 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Indium (elements by ICP HNO₃ digestion)		NIOSH 7303				15-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Indium & compounds (as In)		OSHA CSI		0.1 mg/m³		960		2000		8		ICP-DCP	F/CST	225-3-01	77	C/HLD	225-1	87	
Inorganic acids (acids, inorganic)		NIOSH 7903	1016									IC	ST	226-10-03	35				
Iodine		NIOSH 6005			0.1		15		1000		15	IC	ST	226-67	36				
Iodine		NON 16				48		100		8		IC	ST	226-67	36				
Iodine		OSHA ID 212			0.1 (C)		2.5		500		5	IC	ST	226-80	36				
Iodine (particulates)		OSHA ID 212			0.1		2.5		500		5	IC	ST	226-142	38				
Iodine (vapour)		OSHA ID 212			0.1		2.5		500		5	IC	ST	226-80	36				
Iodoform		OSHA CSI				10		100		100 min		GC-ECD	F/CST C/HLD	225-706	79	ST	226-93	37	
Iridium		OSHA CSI				960		2000		8		AA	F/CST	225-3-01	77				
Iron		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron (bulk)		OSHA ID 125G				480		2000		4		ICP-AES	F/CST C/HLD	225-3-01	or 87	F/CST	225-3100	77	
Iron (elements by ICP Aqua Regia ashing)		NIOSH 7301	¥		5 mg/m³ (dust, fume)	5-100		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01	or 87	F/CST	225-803	73	
Iron (elements by ICP HNO₃ digestion)		NIOSH 7303			0.5 mg/m³ (dust, fume)	1-5000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455		5 mg/m³ (dust, fume)	5-100		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414	124	TMP	225-2403	or	
Iron & compounds (as Fe)		OSHA ID 121	1209			960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron oxide (elements by ICP HNO₃ digestion)		NIOSH 7303				1-5000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron oxide fume		OSHA ID 121	1045		10 mg/m³	960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Iron oxide fume		OSHA ID 125G			10 mg/m³	480		2000		4		ICP-AES	F/CST C/HLD	225-3-01	or 87	F/CST	225-3100	77	
Iron pentacarbonyl (as Fe)		OSHA CSI				480	30	2000	2000	4	15	CLR	IMP	225-36-2	59	IT	225-22	59	
Iron salts, soluble (as Fe)		OSHA ID 121	1208			960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Isoamyl acetate	●	OSHA 07	1151	100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isoamyl acetate (esters I)	●	NIOSH 1450		100		1-10		10-200		varies		GC-FID	ST	226-01	35				
Isoamyl alcohol	●	OSHA CSI		100		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Isoamyl alcohol (alcohols combined)	●	NIOSH 1405		100	125 (skin)	1-10	1-10	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
Isoamyl alcohol (alcohols III)	●	NIOSH 1402		100	125	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Isoamyl nitrite		OSHA CSI				5		20		4		HPLC-UV	ST	226-01	35				
Isobutyl acetate	●	OSHA 07	1150	150		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isobutyl acetate	●	OSHA 1009	1750	150		12	0.75	50	50	4	15	GC-FID	ST	226-01	35				
Isobutyl acetate	●	OSHA 1009	1750	150				13.16	13.16	8	15	GC-FID	PS	575-002	64				
Isobutyl acetate (esters I)	●	NIOSH 1450		150		1-10		10-200		varies		GC-FID	ST	226-01	35				
Isobutyl acrylate	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isobutyl alcohol	●	OSHA 07	1149	100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isobutyl alcohol (alcohols combined)	●	NIOSH 1405		50		2-10		10-200		varies		GC-FID	ST	226-01	35				
Isobutyl alcohol (alcohols II)	●	NIOSH 1401		50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isobutyl isobutyrate		OSHA PV2090				10		200		50 min		GC-FID	ST	226-01	35				
Isobutyl nitrite		OSHA CSI				5		20		4		HPLC-UV	ST	226-01	35				
Isobutylbenzene		OSHA CSI				6		200		30 min		GC-FID	ST	226-01	35				
Isobutyraldehyde (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118	37				
Isobutyric acid		OSHA CSI				6		100		1		GC-FID	ST	226-110	37				
Isobutyronitrile		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				

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References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Isocyanates (see specific isocyanate)		NIOSH 5521	1459	varies		480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
Isocyanates (see specific isocyanate)		NIOSH 5522	1460	varies	varies	360	20	1000	2000	6	10	HPLC-FD	IMP	225-36-1	59	IT	225-22	59	
Isocyanates (see specific isocyanate)		OR-OSHA 1010		varies	varies	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59	IT	225-22	59	
Isocyanates, aromatic (surface)												CI	W	769-1022	or	TK	769-1002	122	
Isocyanates, aliphatic (skin)												CI	PCH TK	769-3003 769-1003	or	W	769-1033	or	
Isocyanates, aliphatic (surface)												CI	W	769-1023	or	TK	769-1003	122	
Isocyanates, aromatic (skin)												CI	PCH TK	769-3002 769-1002	or	W	769-1032	or	
Isocyanates, total (see specific isocyanate)		NIOSH 5525		varies	varies	1-500	1-500	1000-2000	1000-2000	varies	varies	HPLC-UV	FLT SP	225-7 ‡ 225-27 225-702 ‡	79 or 79	CST IOM	225-4 225-76A	86 92	
Isofenphos		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35				
Isoflurane	●	OSHA 103	1349			12		50		4		GC-FID	ST	226-81A	36				
Isooctane		OSHA CSI										DET TB	DT	810-101					
Isooctyl alcohol	●	OSHA PV2033		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Isophorone	●	NIOSH 2508		4		10		20(50)		8(3.3)		GC-FID	ST	226-81A	36				
Isophorone	●	NIOSH 2556		4		2-25		10-100		varies		GC-FID	ST	226-93	37				
Isophorone	●	OSHA 07	1160	25		10		20(50)		8(3.3)		GC-FID	ST	226-81A	36				
Isophorone diisocyanate		OSHA PV2034				60	15	1000	1000	1	15	HPLC-UV	CF/CST	225-9002	61	C/HLD	225-1	87	
Isophorone diisocyanate (IPDI) 4098-71-9		OR-OSHA 1010		0.02	0.02	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59	IT	225-22	59	
Isophorone diisocyanate (isocyanates, total)		NIOSH 5525		45 µg/m³	180 µg/m³ (10 min) C	1-500		1000-2000		varies		HPLC-UV	FLT SP	225-7 ‡ 225-27 225-702 ‡	79 or 79	CST IOM	225-4 225-76A	86 92	
Isophthalic acid		OSHA CSI				bulk						HPLC-UV							
Isoprene	●											DT	810-174D						
Isopropyl acetate	●	NIOSH 1454				9		50		3		GC-FID	ST	226-01	35				
Isopropyl acetate	●	NIOSH 1460				0.1-9.0		20-200		varies		GC-FID	ST	226-01	35				
Isopropyl acetate	●	OSHA 07	1148	250		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Isopropyl alcohol	●	OSHA 07	1147	400		3	1.5	20	100	2.5	15	GC-FID	ST	226-01	35				
Isopropyl alcohol	●	OSHA 109		400		18	3	50	200	6	15	GC-FID	ST	226-82	37				
Isopropyl alcohol (alcohols I)	●	NIOSH 1400		400	500	3	3	20	200	2.5	15	GC-FID	ST	226-01	35				
Isopropyl amine	●	OSHA CSI		5		90	15	1000	1000	1.5	15	GC-FID	IMP	225-36-2	59	IT	225-22	59	
N-Isopropyl aniline		OSHA 78	1228			100		1000		100 min		HPLC-UV	CF/CST	225-9004	61	C/HLD	225-1	87	
Isopropyl bromide		OSHA CSI				12		100		2		GC-FID	ST	226-01	35				
Isopropyl CELLOSOLVE solvent (see ethylene glycol isopropyl ether)		OSHA CSI																	
Isopropyl ether	●	NIOSH 1618		500		0.1-3		10-50		varies		GC-FID	ST	226-01	35				
Isopropyl ether	●	OSHA 07	1146	500		3	0.75	20	50	2.5	15	GC-FID	ST	226-01	35				
Isopropyl glycidyl ether	●	NIOSH 1620			50 (15 min)		3		200		15	GC-FID	ST	226-01	35				
Isopropyl glycidyl ether	●	OSHA 07	1145	50		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Isopropyl m-chlorocarbaniolate		OSHA CSI				30		1000		30 min		HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
Isovaleraldehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120	or	ST	226-119	37	
Isovaleraldehyde (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118	37				
Jet fuel		OSHA CSI					3		200		15	GC-FID	ST	226-01	35				
Kaolin (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Kaolin (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Kaolin (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 85	C/HLD CST	225-1 225-3LF	87 86	
Kaolin (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Kathon 886 (Kathon biocide)		NON 55				50	7.5	200	500	4	15	HPLC-UV	ST	226-99	37				
Kepone		NIOSH 5508		1 µg/m³		480		1000		8		GC-ECD	F/CST IT	225-3-01 225-22	77 59	IMP	225-36-1	59	
Kepone		OSHA CSI				480		1000		8		GC-ECD	F/CST IT	225-3-01 225-22	77 59	IMP	225-36-1	59	
Kerosene		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Kerosene		OSHA PV2139				20		100		200 min		GC-FID	ST	226-01	35				
Kerosene (naphthas)		NIOSH 1550		100 mg/m³		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Ketene		OSHA CSI		0.5		50	15	1000	1000	50 min	15	CLR	IMP	225-36-2	59	IT	225-22	59	
Ketones (screening)		NIOSH 2549				5		20		4		GC-MS	ST	226-330	39				
Ketones (see Environmental Sampling Guide)		EPA TO-5																	
Ketones I (see specific compounds)		NIOSH 1300		varies		varies		10-200		varies		GC-FID	ST	226-01	35				
Ketones I (see specific compounds)		NIOSH 2555				varies		varies		varies		GC-FID	ST	NA SKC					
Ketones II (see specific compounds)		NIOSH 1301		varies		varies		varies		8		GC-FID	ST	226-01	35				
Ketones II (see specific ketone)		NIOSH 2553		varies	varies	1-25	1-25	10-200	10-200	varies	varies	GC-FID	ST	NA SKC					
Lactic acid		OSHA CSI				800		2000		400 min		IC	ST	226-01	35				
Lactose powder		NON 53											F/CST CST	225-1725 225-2257	or and	FLT SP	225-2714 225-2901	and 87	
Lake Red C		OSHA CSI				300		2000		2.5		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Landrin		OSHA CSI				60		1000		1		HPLC-UV	ST	226-30-16	35				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				SAMPLING ∞												
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time						
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Lanthanum (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥				5-1000		1000-4000		varies		ICP-AES	F/CST 225-3-01 or 87	F/CST 225-803	73	
Lanthanum (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455			5-1000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lanthanum (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414 124	TMP 225-2403	or	
Lasso (aroclor)		OSHA PV2035				100		1000		100 min		HPLC-UV	F/CST 225-706 79	C/HLD 225-1	87	
Lead		NIOSH 7082	1034	< 0.1 mg/m ³		720		1500		8		AAS-F	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead		NIOSH 7105	1034	< 0.1 mg/m ³		720		1500		8		AAS-GF	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead (by field portable XRF)		NIOSH 7702		< 0.1 mg/m ³		960		2000		8		XRF	F/CST 225-3-01 77			
Lead (by portable ultrasound extraction/ASV)		NIOSH 7701		0.05 mg/m ³		20-1500		1000-4000		varies		P ASV	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.05 mg/m ³		50-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01 or 87	F/CST 225-803	73	
Lead (elements by ICP HNO ₃ digestion)		NIOSH 7303		0.5 mg/m ³		35-100,000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1034	0.05 mg/m ³		50-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414 124	TMP 225-2403	or	
Lead (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206				480		2000		4		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead (in air by chemical spot test)		NIOSH 7700	1369	< 0.1 mg/m ³		240		2000		2		SPOT	W 225-2404 124	F/CST 225-3-01 77		
Lead (in dust wipes)		NIOSH 9105										SPOT	W 550-001 or 121	W 550-002	121	
Lead (in surface dust)		ASTM E 1792				bulk						Varies	W 225-2414 124	TMP 225-2403	124	
Lead (in surface dust)		OSHA ID 125G				wipe						ICP-AES	W 225-2414 124	TMP 225-2403	124	
Lead (in workplace air)		ASTM D 6785				varies		varies		varies		AAS-F	IOM 225-70A 92	FLT 225-1930	76	
Lead (on surfaces)		NIOSH 9100										AA-F or AA-GF or ICP	W 225-2401A 124			
Lead chromate (as Pb)		OSHA CSI		50 µg/m ³		960		2000		8		AA	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead chromate (as Pb) (see lead, inorganic fumes & dusts or chromic acid & chromates)		OSHA CSI														
Lead chromate (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m ³		960		2000		8		IC-UV	F/CST 225-802 Ω 73	C/HLD 225-1	87	
Lead oxide (as lead)		NIOSH 7082	1034	< 0.1 mg/m ³		720		1500		8		AAS-F	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead oxide (as Pb)		NIOSH 7105	1034	< 0.1 mg/m ³		720		1500		8		AAS-GF	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead oxide (by field portable XRF)		NIOSH 7702		< 0.1 mg/m ³		960		2000		8		XRF	F/CST 225-3-01 77			
Lead oxide (by portable ultrasound extraction/ASV)		NIOSH 7701		0.05 mg/m ³		20-1500		1000-4000		varies		P ASV	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead sulfide (as Pb)		NIOSH 7505		< 0.1 mg/m ³		750		2500		5		XRD	F/CST 225-803 73	C/HLD 225-1	87	
Lead, inorganic fumes & dusts (as Pb)		OSHA ID 121	1196	0.05 mg/m ³		960	30	2000	2000	8	15	AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lead, inorganic fumes & dusts (as Pb)		OSHA ID 125G		0.05 mg/m ³		480	30	2000	15	4		ICP-AES	F/CST 225-3-01 or 87	F/CST 225-3100	77	
Lead, inorganic surface dusts (as Pb)		OSHA ID 121	1179									AA or AES	W 225-2401A 124			
Limestone (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT 225-8-01 73	C/HLD 225-1	87	
Limestone (see calcium carbonate)																
Limestone (see dust, total & respirable nuisance)																
Limonene	●	OSHA PV2036				10		20(50)		8(3.3)		GC-FID	ST 226-01 35			
Limonene (terpenes)	●	NIOSH 1552				24		50		8		GC-FID	ST 226-01 35			
Lindane		OSHA CSI		0.5 mg/m ³		240		1000		4		GC-ECD	F/CST 225-706 79	C/HLD 225-1	87	
Lindane (gamma-BHC)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92 42			
Linuron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF 226-92 42			
Linuron		OSHA CSI				240		1000		4		HPLC-UV	F/CST 225-706 79	C/HLD 225-1	87	
Lithium		OSHA ID 121				960		2000		8		AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lithium (elements by ICP Aqua Regia ashing)		NIOSH 7301				100-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01 or 87	F/CST 225-803	73	
Lithium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455			100-2000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lithium hydride (as Li)		OSHA ID 121		0.025 mg/m ³		960		2000		8		AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Lithium hydroxide (alkaline dust)		NIOSH 7401				960		2000		8		TITRA	FLT 225-17-01 74	CST 225-2LF	86	
Lithium hydroxide (as Li)		OSHA ID 121				960		2000		8		AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
LPG (liquefied petroleum gas)		OSHA CSI		1000								DET TB	DT 810-100A			
Machette		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST 225-706 79	C/HLD 225-1	87	
Magnesite (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT 225-8-01 73	C/HLD 225-1	87	
Magnesite (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT 225-8-01 73	C/HLD 225-1	87	
Magnesite (see dust, total & respirable nuisance)		OSHA CSI														
Magnesium		OSHA ID 121	1192			960	30	2000	2000	8	15	AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Magnesium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		10 mg/m ³ (fume, as oxide)		5-67		1000-4000		varies		ICP-AES	F/CST 225-3-01 or 87	F/CST 225-803	73	
Magnesium (elements by ICP HNO ₃ digestion)		NIOSH 7303				1-10,000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Magnesium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	10 mg/m ³ (fume, as oxide)		5-67		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Magnesium oxide (as Mg, elements by ICP)		NIOSH 7303		10		5-33000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Magnesium oxide fume (respirable dust)		OSHA ID 121	1214	5 mg/m ³		960		2000		8		GR & AA or GR & AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Magnesium oxide fume (total dust)		OSHA ID 121	1213	15 mg/m ³		960		2000		8		AA or AES	F/CST 225-3-01 77	C/HLD 225-1	87	
Malathion		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF 226-92 42			
Malathion		OSHA 62	1397	15 mg/m ³		60		1000		1		GC-FPD	ST 226-30-16 35			
Malathion (organophosphorus pesticides)		NIOSH 5600		10 mg/m ³		60		1000		1		GC-FPD	ST 226-58 36			

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Malbranchea species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Malbranchea species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Maleic anhydride	●	NIOSH 3512		0.25		360		1000		6		HPLC-UV	IMP	225-36-2	59	IT	225-22	59	
Maleic anhydride	●	OSHA 25		0.25		20		100		3.3		HPLC-UV	ST	226-30-07	35	ST	226-30	35	
Maleic anhydride	●	OSHA 86		0.25		60		500		2		HPLC-UV	CF/CST	225-9021	61	C/HLD	225-1	87	
Maneb		OSHA 107				500		2000		250		HPLC-UV	F/CST	225-3-01	77	C/HLD	225-1	87	
Maneb		OSHA CSI										W	W	225-2401A	124				
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 C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73	
Manganese (elements by ICP HNO ₃ digestion)		NIOSH 7303		1 mg/m³	3 mg/m³	0.05-10,000	0.05-10,000	1000-4000	1000-4000	varies	varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Manganese (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	1 mg/m³	3 mg/m³	5-200	5-200	1000-4000	1000-4000	varies	varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Manganese (elements on wipes)		NIOSH 9102			wipe							ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or 124	
Manganese & compounds (as Mn)		OSHA ID 121	1194		5 mg/m³ (C)	960	10	2000	2000	8	5	AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Manganese & compounds (as Mn)		OSHA ID 125G			5 mg/m³		10		2000		5	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Manganese cyclopentadienyl tricarbonyl (as Mn)		OSHA CSI				480		1000		8		AA	F/CST IT	225-3-01 225-22	77 59	IMP	225-36-2	59	
Manganese fume		OSHA ID 125G			5 mg/m³	480	30	2000	2000	4	15	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Manganese fume (as Mn)		OSHA ID 121	1195		5 mg/m³ (C)	960	30	2000	2000	8	15	AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Manganese tetroxide (as Mn)		OSHA ID 121	1191			960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Manganese tetroxide (as Mn)		OSHA ID 125G				480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Marble (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Marble (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Marble (see dust, total & respirable nuisance)																			
MCPA (2-methyl-4-chlorophenoxyacetic acid)		OSHA CSI				240		500		8		HPLC	F/CST	225-706	79	C/HLD	225-1	87	
MCPP		OSHA CSI				240		1000		4		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
MDI (4,4-methylene bisphenyl isocyanate)		OSHA 47		50 µg/m³	200 µg/m³		10		1000		10	HPLC-UV	CF/CST C/HLD	225-9002 225-1	or 87	CF/CST	225-9013	61	
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 SP	225-7 ‡ 225-27	79 or 79	CST IOM	225-4 225-76A	86 92	
MDI (4,4'-methylenebisphenyl isocyanate) (isocyanates)		NIOSH 5521	1001	50 µg/m³	200 µg/m³ (10 min) C	480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
MEK (see methyl ethyl ketone)																			
Melamine		OSHA CSI				40		1000		40 min		HPLC	F/CST	225-709	79	C/HLD	225-1	87	
Melengestrol acetate		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Menadione		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST	226-30	35				
Mercaptans (see specific compounds)		NIOSH 2542	1330		0.5 (15 min)	48	12	100	200	8	60	GC-FPD	CF/CST	225-9007	61	C/HLD	225-1	87	
Mercaptoethanol		OSHA CSI				10		20(50)		8(3.3)		GC-FPD	ST	226-10	35				
Mercury		NIOSH 6009		0.05 mg/m³		48		200		4		AA	ST	226-17-1A	35	F/CST	225-3-01	77	
Mercury (Rathje & Marcero)		NON 17				48		100		8		AA	ST	226-17-1A	35				
Mercury (Rathje & Marcero)		NON 17				varies		1000-3000		varies		AA	ST	226-17-3A	35				
Mercury (vapor)		OSHA ID 140	1677	0.1 mg/m³		3-100		200		varies		AA	ST	226-17-1A	35	F/CST	225-3-01	77	
Mercury (vapor)		OSHA ID 140	1677	0.1 mg/m³		9.6		20		8		AA	CH	520-03	68	C	520-02A	68	
Mercury, aryl & inorganic (particulate Hg)		OSHA ID 145			0.01 mg/m³		30		2000		15	AA	F/CST	225-3-01	77	C/HLD	225-1	87	
Mesityl oxide	●	OSHA 07	1144	25		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Mesityl oxide (ketones II)		NIOSH 2553		10		1-25		10-200		varies		GC-FID	ST	NA SKC					
Mesityl oxide (ketones II)	●	NIOSH 1301		10		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Mesitylene (1,3,5-trimethylbenzene)	●												PS	575-001	or PS 575-002	64			
Mestranol		OSHA PV2068				480		2000		4		HPLC	F/CST	225-802	73	C/HLD	225-1	87	
Metal & metalloid particulates		OSHA ID 121	1177	varies	varies	960	30	2000	2000	8	15	AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Metal & metalloid particulates		OSHA ID 125G	1371	varies	varies	480	30	2000	2000	4	15	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100	77	
Metal removal fluid (aerosol)		ASTM D 7049				960		2000		8		GR	FLT C/HLD	225-27-07 225-1	74 87	CST	225-2LF	86	
Metal working fluids (aerosols)		ASTM D 7049				960		2000		8		GR	FLT C/HLD	225-27-07 225-1	74 87	CST	225-2LF	86	
Metals (in settled dust)		ASTM D 6966			wipe	wipe		wipe		Varies		Varies	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or 124	
Metals in workplace atmospheres		ASTM D 4185	1426			varies		2000		varies		AAS	F/CST	225-3-01	77	C/HLD	225-1	87	
Metals, trace (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	varies	varies	varies	varies	1000-4000	1000-4000	varies	varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Metalworking fluids (thoracic particulates)		NIOSH 5524		0.4 mg/m³ (thoracic particulates)		2000		varies		varies		GR	PPI IS SCN	225-381 225-388 225-26	96 96 87	FLT SP	225-27-07 225-27	74 or 87	
Metalworking fluids (total particulates)		NIOSH 5524	1726	0.5 mg/m³ (total particulates)		1000 (min)		2000		varies		GR	FLT C/HLD	225-27-07 225-1	74 87	CST	225-4	86	
Methacrylic acid		OSHA PV2005				24		100		4		HPLC-UV	ST	226-30-08	35				
Metham sodium		OSHA CSI				40		1000		40 min		HPLC-UV	ST	226-58	36				
Methamidophos		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35				
Methamidophos (organophosphorus pesticides)		NIOSH 5600				240		1000		4		GC-FPD	ST	226-58	36				
Methane		OSHA CSI										DET TB	DT	800-20001					
Methanol (methyl alcohol)		NIOSH 2000		200	250	5	3	20	200	4	15	GC-FID	ST	226-51	36				
Methidathion		OSHA PV2074				60		1000		1		GC-ECD	ST	226-58	36				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Methiocarb (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35	
Methomyl		OSHA PV2114				60		1000		1		HPLC-UV	ST	226-30-16			35		
Methomyl (organonitrogen pesticides)		NIOSH 5601		2.5 mg/m³		240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35	
Methotrexate		OSHA PV2146				120		1000		2		HPLC-UV	ST	226-30-16			35		
2-Methoxy-1-propanol	●	OSHA 99				10		100		100 min		GC-FID	ST	226-01			35		
2-Methoxy-1-propyl acetate	●	OSHA 99				10		100		100 min		GC-FID	ST	226-01			35		
1-Methoxy-2-propanol	●	OSHA 99				10		100		100 min		GC-FID	ST	226-01			35		
1-Methoxy-2-propanol (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST	226-81A			36		
1-Methoxy-2-propyl acetate	●	OSHA 99				10		100		100 min		GC-FID	ST	226-01			35		
1-Methoxy-2-propyl acetate (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST	226-81A			36		
Methoxychlor		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92			42		
Methoxychlor		OSHA PV2038		15 mg/m³		60		1000		1		GC-ECD	ST	226-30-16			35		
2-Methoxyethanol (methyl CELLOSOLVE solvent)	●	OSHA 79	1277	25		48	15	100	1000	8	15	GC-FID	ST	226-01			35		
2-Methoxyethanol (methyl CELLOSOLVE solvent) (alcohols IV)	●	NIOSH 1403	1274	0.1 (skin)		6-50		10-50		varies		GC-FID	ST	226-01			35		
2-Methoxyethyl acetate (methyl CELLOSOLVE acetate)	●	OSHA 79	1277	25		48	15	100	1000	8	15	GC-FID	ST	226-01			35		
Methoxyflurane		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01			35		
2-Methoxyphenol		OSHA PV2039				20		200		100 min		GC-FID	ST	226-95			37		
3-Methoxyphenol		OSHA PV2039				20		200		100 min		GC-FID	ST	226-95			37		
4-Methoxyphenol		OSHA PV2039				20		200		100 min		GC-FID	ST	226-95			37		
6-Methoxytetralone		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST	226-30			35		
Methyl acetate	●	NIOSH 1458		200	250	5	3	20	200	4	15	GC-FID	ST	226-01			35		
Methyl acetate	●	OSHA 07	1143	200		5	3	20	200	4	15	GC-FID	ST	226-01			35		
Methyl acetylene-propadiene mixture		OSHA 07	1142	1000		2	0.75	20	50	100 min	15	GC-FID	ST	226-01			35		
Methyl acrylate	●	NIOSH 1459		10		5		20		4		GC-FID	ST	226-01			35		
Methyl acrylate		NIOSH 2552		10		1-5		10-200		varies		GC-FID	ST	NA SKC					
Methyl acrylate	●	NON 54		5	15	10	3	20	200	8	15	GC-FID	ST	226-81A			36		
Methyl acrylate	●	OSHA 92		10		12		50		4		GC-FID	ST	226-73			36		
Methyl acrylonitrile		OSHA 37				20		200		100 min		GC-NPD	ST	226-01			35		
Methyl alcohol (methanol)		NIOSH 2000		200	250	5	3	20	200	4	15	GC-FID	ST	226-51			36		
Methyl alcohol (RH < 50% at 25 C)		OSHA 91	1328	200		3	0.75	50	50	1	15	GC-FID	ST	226-82			37		
Methyl alcohol (RH > 50% at 25 C)		OSHA 91	1328	200		5	0.75	50	50	100 min	15	GC-FID	ST	226-82			37		
Methyl amine	●	OSHA 40		10		10		20		8		HPLC-UV	ST	226-96			37		
Methyl arsonic acid (arsenic, organo-)		NIOSH 5022				480		1000		8		IC-AA	FLT C/HLD	225-17-01 225-1	74	CST	225-2LF	86	
Methyl bromide		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Methyl bromide		OSHA PV2040			20		3		200		15	GC-FID	ST	226-83			37		
Methyl butyl ketone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST	NA SKC					
Methyl butyl ketone (MBK, 2-hexanone) (ketones I)	●	NIOSH 1300		1		10		20(50)		8(3.3)		GC-FID	ST	226-01			35		
Methyl CELLOSOLVE acetate (2-methoxyethyl acetate)	●	NIOSH 1451		0.1		12		50		4		GC-FID	ST	226-01			35		
Methyl CELLOSOLVE acetate (2-methoxyethyl acetate)	●	OSHA 79	1277	25		48	15	100	1000	8	15	GC-FID	ST	226-01			35		
Methyl CELLOSOLVE solvent (2-methoxyethanol)	●	OSHA 79	1277	25		48	15	100	1000	8	15	GC-FID	ST	226-01			35		
Methyl CELLOSOLVE solvent (2-methoxyethanol) (alcohols IV)	●	NIOSH 1403	1274	0.1 (skin)		6-50		10-50		varies		GC-FID	ST	226-01			35		
Methyl chloride		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Methyl chloride		NIOSH 1001		LFC			0.5		100		5	GC-FID	ST	226-09		35	ST	226-01 35	
Methyl chloroform	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Methyl chloroform (1,1,1-trichloroethane)	●	OSHA 14		350		3	3	20	200	2.5	15	GC-FID	ST	226-01			35		
Methyl chloroform (1,1,1-trichloroethane) (hydrocarbons, halogenated)	●	NIOSH 1003			350		3		10-200		varies	GC-FID	ST	226-01			35		
Methyl cyclohexane	●	OSHA 07	1069	500		5		20		4		GC-FID	ST	226-01			35		
Methyl cyclohexane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		400		4		10-200		varies		GC-FID	ST	226-01			35		
Methyl demeton		OSHA CSI				480		1000		8		GC-FFD	ST	226-30-16			35		
N-Methyl dicyclohexylamine		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-10			35		
Methyl ethyl ketone		OSHA 1004		200		12		50		4		GC-FID	ST	NA SKC					
Methyl ethyl ketone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST	NA SKC					
Methyl ethyl ketone (MEK, 2-butanone)		OSHA 1004		200				16.88		8		GC-FID	PS	575-002			64		
Methyl ethyl ketone (MEK) (see 2-butanone)	●																		
Methyl ethyl ketone (MEK) (see 2-butanone)	●	NIOSH 2500	1012	200	300	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-81A			36		
Methyl ethyl ketone peroxide		NIOSH 3508	1002		0.2 (15 min)		120		1000		120	VAS	IMP	225-36-1	59	IT	225-22	59	
Methyl ethyl ketone peroxide		OSHA 77					15		1000		15	HPLC-UV	ST	226-93			37		
Methyl formate		OSHA PV2041		100		3		50		1		GC-FID	ST	226-83			37		
Methyl iodide	●	NIOSH 1014		2		48		100		8		GC-FID	ST	226-01			35		
Methyl iodide	●	OSHA CSI		5		50		200		4		GC-FID	ST	226-01			35		
Methyl isoamyl acetate (esters I)		NIOSH 1450		50		1-10		10-200		varies		GC-FID	ST	226-01			35		
Methyl isoamyl ketone	●	OSHA PV2042		100		24		50		8		GC-FID	ST	226-01			35		
Methyl isobutyl carbinol (methyl amyl alcohol)	●	OSHA 07	1068	25		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01			35		
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			35		
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			35		
Methyl isobutyl ketone		OSHA 1004		100		12		50		4		GC-FID	ST	NA SKC					
Methyl isobutyl ketone (hexone)	●	OSHA 07	1070	100		10		20(50)		8(3.3)		GC-FID	ST	226-01			35		
Methyl isobutyl ketone (hexone)		OSHA 1004		100				13.62		8		GC-FID	PS	575-002			64		
Methyl isobutyl ketone (hexone) (ketones I)	●	NIOSH 1300		50	75	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01			35		

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				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Methyl isobutyl ketone (ketones I)		NIOSH 2555		50		1-10		10-200		varies		GC-FID	ST	NA SKC					
Methyl isocyanate (MIC)		OSHA 54		0.02		15		50		5		HPLC-FD	ST	NA SKC					
Methyl isopropyl ketone	●	OSHA CSI				10		20		8		GC-FID	ST	226-01	35				
Methyl isothiocyanate		OSHA CSI				120		1000		2		GC-FID	ST	226-01	35				
Methyl mercaptan		NIOSH 2542	1330		0.5 (15 min)	48	12	100	200	8	60	GC-FPD	CF/CST	225-9007	61	C/HLD 225-1 87			
Methyl mercaptan		NON 42	1412			12		1000		12 min		GC-FPD	SB	231-10	51				
Methyl mercaptan		OSHA 26			10	20		200		100 min		GC-FPD	CF/CST	225-9007	61	C/HLD 225-1 87			
Methyl methacrylate	●	NIOSH 2537		100		1-8		10-50		varies		GC-FID	ST	226-30-06	35				
Methyl methacrylate	●	NON 54		50	75	10	3	20	200	8	15	GC-FID	ST	226-81A	36				
Methyl methacrylate	●	OSHA 94		100		3		50		1		GC-FID	ST	226-73	36				
4-Methyl morpholine		OSHA CSI				30		100		5		GC-FID	ST	226-98	37				
Methyl n-amyl ketone (2-heptanone) (Ketones II)		NIOSH 2553		100		1-25		10-200		varies		GC-FID	ST	NA SKC					
Methyl parathion		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF	226-92	42				
Methyl parathion		OSHA PV2112				480		1000		8		GC-FPD	ST	226-30-16	35				
Methyl parathion (organophosphorus pesticides)		NIOSH 5600		0.2 mg/m³		240		1000		4		GC-FPD	ST	226-58	36				
Methyl propyl ketone (2-pentanone)	●	OSHA 07		200		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Methyl propyl ketone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST	NA SKC					
Methyl silicate		OSHA CSI				9		50		3		GC-FID	ST	226-30-04	35				
alpha-Methyl styrene	●	OSHA 07	1066		100 (C)	30	3	200	200	2.5	15	GC-FID	ST	226-01	35				
alpha-Methyl styrene (hydrocarbons, aromatic)	●	NIOSH 1501		50	100	1-30	1-30	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
beta-Methyl styrene (hydrocarbons, aromatic)		NIOSH 1501		50	100	1-30	1-30	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
17-a-Methyl testosterone		OSHA PV2001				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87			
Methyl-2-cyanoacrylate		OSHA 55				12		100		2		HPLC-UV	ST	226-98	37				
3-Methyl-2-cyclopentene-2-ol-one		OSHA CSI				10		200		50 min		HPLC-UV	ST	226-30-04	35				
1-Methyl-2-pyrrolidinone		OSHA PV2043				10		200		50 min		GC-FID	ST	226-01	35				
N-Methyl-2-pyrrolidinone		NIOSH 1302				96		200		8		GC-NPD, FID	ST	226-01	35				
N-Methyl-2-pyrrolidinone		OSHA PV2043				10		200		50 min		GC-FID	ST	226-01	35				
5-Methyl-3-heptanone (ketones II)		NIOSH 2553		25		1-25		10-200		varies		GC-FID	ST	NA SKC					
5-Methyl-3-heptanone (ketones II)	●	NIOSH 1301		25		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
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	37				
Methyl-n-amyl ketone (2-heptanone)	●	OSHA CSI		100		24		200		2		GC-FID	ST	226-01	35				
Methyl-n-amyl ketone (2-heptanone) (ketones II)	●	NIOSH 1301		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
5-Methyl-o-anisidine		OSHA CSI				60		1000		1		HPLC-UV	ST	226-30-04	35				
Methyl-tert-amyl ether (tert-amyl methyl ether)	●											GC-FID	PS	575-001	64				
Methyl-tert-butyl ether	●	NIOSH 1615	1017			96		200		8		GC-FID	ST	226-37	36				
Methylacetylene (propyne)		OSHA CSI		1000		2		50		40 min		GC-FID	ST	226-01	35				
Methylal (dimethoxymethane)	●	NIOSH 1611		1000		1.8		20		1.5		GC-FID	ST	226-01	35				
Methylal (see dimethoxymethane)	●																		
6-Methylcoumarin		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST	226-30	35				
Methylcyclohexanol	●	NIOSH 1404		50		12		25		8		GC-FID	ST	226-01	35				
Methylcyclohexanol	●	OSHA CSI		100		12		25		8		GC-FID	ST	226-01	35				
Methylcyclohexanone		NIOSH 2521		50	75	3		50		1		GC-FID	ST	226-115	37				
o-Methylcyclohexanone		OSHA CSI		100		6	0.75	50	50	2	15	GC-FID	ST	226-115	37				
Methylcyclopentadienyl manganese tricarbonyl (as Mn)		OSHA CSI			5 (C)	10		200		1		AA	ST	226-30	35				
N-Methyldiethanolamine		OSHA CSI				20		100		3.3		GC-NPD	ST	226-42-02	36				
4,4-Methylene bisphenyl isocyanate (MDI)		OSHA 47	1242		200 µg/m³		15		1000		15	HPLC-UV	CF/CST C/HLD	225-9002 or 225-1 87	CF/CST 225-9013	61			
4,4-Methylene bisphenyl isocyanate (MDI) (isocyanates)		NIOSH 5521	1001	50 µg/m³	200 µg/m³ (10 min) C	480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT 225-22 59			
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	59	IT 225-22 59			
												CF/CST	225-9029	61					
Methylene chloride	●	NIOSH 1005	1018	LFC		2	1.5	20	100	1.6	15	GC-FID	ST	226-01	35				
Methylene chloride	●	OSHA 59	1358	25	125	10	0.25	50	50	3.3	5	GC-FID	ST	226-09-02	35				
Methylene chloride		OSHA 80		25	125	3	0.25	50	50	1	5	GC-FID	ST	NA SKC					
Methylene-bis-(4-cyclohexylisocyanate)		OSHA PV2092					15		1000		15	HPLC-UV	CF/CST	225-9013	61	C/HLD 225-1 87			
Methylene-bis-(4-cyclohexylisocyanate) (isocyanates, total)		NIOSH 5525			110 µg/m³ (10 min) C		1-500		1000-2000		varies	HPLC-UV	FLT SP	225-7 ‡ 225-27	79 or 79	CST IOM 225-4 225-76A 86 92			
												FLT	225-702 ‡	79					
2,2'-Methylene-bis(4-chlorophenol)		OSHA CSI				750		2000		6.25		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87			
4,4'-Methylenebis(2-chloroaniline) (MOCA)		OSHA 71	1234			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87			
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 SP	225-7 ‡ 225-27	79 or 79	CST IOM 225-4 225-76A 86 92			
												FLT	225-702 ‡	79					
4,4'-Methylenedianiline (MDA)		NIOSH 5029		LFC		480		1000		8		HPLC-UV	CF/CST	225-9004	61	C/HLD 225-1 87			
4,4'-Methylenedianiline (MDA)		OSHA 57	1240			100		1000		100		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87			
4,4-Methylenediphenyl 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	59	IT 225-22 59			
2-Methylpentane	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
3-Methylpentane	●	OSHA CSI				5		20		4		GC	ST	226-01	35				
Methylphenols (see Environmental Sampling Guide)		EPA TO-8																	
Methyltetrahydrophthalic anhydride		NON 28				200	20	40	1000	8	20	GC-FID	ST	226-30	35				
Methyltin dichloride		NIOSH 5526		0.1 mg/m³		60	60	250	1000	4	60	GC-FPD	ST	226-30-16	35				
Methyltin mercaptide (tin, organic compounds [as Sn])		OSHA CSI				480		1000		8		AA-GF	ST	226-30-16	35				
Metolachlor		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Metolachlor		NIOSH 5602				480		1000		8		GC-ECD	ST	226-58	36				

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		Agency Standard		Vol. (liter)		Rate (ml/min)		Time								
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Metribuzin		OSHA PV2044				240		1000		4		GC-FPD	ST	226-30-16	35	
Mevinphos (phosdrin)		OSHA CSI		0.1 mg/m³		480	15	1000	1000	8	15	GC-FPD	ST	226-30-16	35	
Mineral wool fiber		OSHA CSI				960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD 225-1
Mineral wool fiber (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD 225-1 CST 225-3LF
Mineral wool fiber (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD 225-1
Mirex		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42	
MOCAP		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35	
Mold spores (in air)						15-150		15000		1-10 min		varies	STC	225-9820	81	
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 C/HLD	225-3-01 225-1	or 87	F/CST 225-803
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	77	C/HLD 225-1
Molybdenum (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	5 mg/m³ (soluble) 10 mg/m³ (insoluble)		6-67		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD 225-1
Molybdenum (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP 225-2403 or
Molybdenum insolubles (as Mo)		OSHA ID 125G		15 mg/m³		480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST 225-3100
Molybdenum insolubles (as Mo) (respirable fraction)		OSHA ID 121	1212	15 mg/m³ (total dust)		960		2000		8		GR & AA or GR & AES	F/CST CYC	225-3-01 225-105	77 94	C/HLD 225-1
Molybdenum solubles (as Mo)		OSHA ID 121	1211	5 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD 225-1
Monensin		OSHA CSI				960		2000		8		CLR	F/CST	225-706	79	C/HLD 225-1
Monilia species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1
Monilia species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Monochloroacetic acid		OSHA CSI				96		200		8		IC	ST	226-47-01	36	
Monochloroacetic acid (chloroacetic acid)		NIOSH 2008				48		100		8		IC-ECN	ST	226-47-01	36	
Monochlorotoluene (o-chlorotoluene, 1-chloro-2-methyl benzene, OXSOL 10)	●			50								GC-FID	PS	575-001	or	PS 575-002 64
Monocrotophos (Azodrin)		OSHA PV2045				480		1000		8		GC-FPD	ST	226-30-16	35	
Monocrotophos (organophosphorus pesticides)		NIOSH 5600		0.25 mg/m³		240		1000		4		GC-FPD	ST	226-58	36	
Monoethanolamine (2-aminoethanol)		NIOSH 3509	3	6		240		1000		4		IC	IMP	225-36-1	59	IT 225-22 59
Monoethanolamine (see 2-aminoethanol)																
Monomethyl aniline		NIOSH 3511		0.5		100		1000		100 min		GC-FID	IMP	225-36-2	59	IT 225-22 59
Monomethyl aniline		OSHA CSI	2			100		1000		100 min		GC-FID	IMP	225-36-2	59	IT 225-22 59
Monomethyl hydrazine		NIOSH 3510		0.04 (120 min)	15			1000		15		VAS	IMP	225-36-2	59	IT 225-22 59
Monomethyl hydrazine		OSHA 20		0.2	4.5			300		15		HPLC-UV	ST	226-42-02	36	
Monuron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Morpholine		OSHA PV2123	20			10		100		100 min		GC-FID	ST	226-98	37	
Mortierella species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Mortierella species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Mucor (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Mucor (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Mycobacteria		NIOSH 0801				50-300		28,300		varies		GC-FID	BI	225-9611	103	
Mycobacterium tuberculosis (airborne)		NIOSH 0900				1920		4000		8		PCR	FLT CST	225-2705 225-3LF	74 86	SP C/HLD 225-27 87
Mycotoxins (fungi in air)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊ 225-9598A 105
Naphtha (coal tar)		NIOSH 1550		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35	
Naphtha (coal tar)		OSHA 48		100		3		200		15 min		GC-FID	ST	226-01	35	
Naphthalene	●	OSHA 35	1060	10		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-110	37	
Naphthalene (polynuclear aromatic hydrocarbons by GC-MS)	●	ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT 225-1821 79
Naphthalene (polynuclear aromatic hydrocarbons by GC)	●	NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST 226-30-04 35
Naphthalene (polynuclear aromatic hydrocarbons by HPLC)	●	NIOSH 5506		10	15	480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST 226-30-04 35
1,5-Naphthalene diisocyanate		OSHA PV2046				60		1000		1		HPLC-UV-FD	CF/CST	225-9013	61	C/HLD 225-1 87
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 SP FLT	225-7 ‡ 225-27 225-702 ‡	79 or 79	CST 225-4 IOM 225-76A 86 92
Naphthas (see specific compounds)		NIOSH 1550		varies		varies		varies		8		GC-FID	ST	226-01	35	
beta-Naphthol		OSHA CSI				60		1000		1		HPLC-UV	IMP	225-36-1	59	IT 225-22 59
alpha-Naphthylamine		OSHA 93	1232			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87
beta-Naphthylamine		OSHA 93	1232			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD 225-1 87
Naphthylamines (alpha- & beta-)		NIOSH 5518				96		200		8		GC-FID	FLT ST	225-16 226-51	79 36	CST 225-32 87
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	59	IT 225-22 59
Naphthylthiourea (see ANTU)																
Neurospora species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Neurospora species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Nickel (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶		0.015 mg/m³		5-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST 225-803 73
Nickel (elements by ICP HNO ₃ digestion)		NIOSH 7303		0.012 mg/m³		1-50,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD 225-1 87
Nickel (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	0.15 mg/m³		5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD 225-1 87

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Nickel (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP 225-2414 124	TMP 225-2403	or				
Nickel (metal & insoluble compounds as Ni)		OSHA ID 125G		1 mg/m³		480		2000		4		ICP-AES	F/CST C/HLD 225-3-01 87	F/CST 225-3100	77				
Nickel (metal, soluble, & insoluble compounds as Ni)		OSHA ID 121	1044	1 mg/m³		960		2000		8		AA or AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Nickel (soluble compounds as Ni)		OSHA ID 121	1197	1 mg/m³		960		2000		8		AA or AES	F/CST 225-3-01	77	C/HLD 225-1	87			
Nickel (soluble compounds as Ni)		OSHA ID 125G		1 mg/m³		480		2000		4		ICP-AES	F/CST C/HLD 225-3-01 87	F/CST 225-3100	77				
Nickel carbonyl		NIOSH 6007		0.001		72		150		8		AA-GF	ST NA SKC	F/CST 225-3-01	77				
Nickel carbonyl		OSHA CSI		0.001		480		1000		8		AA-GF	F/CST IMP 225-36-2 59	C/HLD 225-1 IT 225-22	87	59			
Nicotine		NIOSH 2544		0.5 mg/m³		360		1000		6		GC-NPD	ST 226-30-04	35					
Nicotine		NIOSH 2551		0.5 mg/m³		480		1000		8		GC-NPD	ST 226-93	37					
Nicotine		NON 19				120		1000		2		GC	ST 226-93	37					
Nicotine		NON 49				90-720		1500		1-8		GC-NSD	ST 226-170	38					
Nicotine & 3-ethenylpyridine		ASTM D 5075	1427			varies		1500		varies		GC-NPD	ST 226-93	37					
Nigrospora species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01	77	C/HLD 225-1	87			
Nigrospora species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611	103					
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	77	C/HLD 225-1	87			
Nitric acid	●	OSHA ID 165SG		2		96	7.5	200	500	8	15	IC	ST 226-10-03	35					
Nitric acid (acids, inorganic)	●	NIOSH 7903	1016	2	4	48	3	200	200	4	15	IC	ST 226-10-03	35					
Nitric oxide		OSHA ID 190		25		6		25		4		IC	ST 226-40	36					
Nitric oxide & nitrogen dioxide		NIOSH 6014	1390	25 (NO)	1 (NO ₂)	1.5-6		25		1-4		VAS	ST 226-40	36					
5-Nitro-2-furaldehyde semicarbazone		OSHA CSI				240		1000		24 min		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87			
p-Nitroaniline		NIOSH 5033		3 mg/m³		240		1000		4		HPLC-UV	F/CST 225-3-01	77	C/HLD 225-1	87			
p-Nitroaniline		OSHA CSI		1 mg/m³		90		1500		1		HPLC-UV	F/CST 225-3-01	77	C/HLD 225-1	87			
Nitrobenzene	●	NIOSH 2005		1		48		100		8		GC-FID	ST 226-10	35					
Nitrobenzene	●	NIOSH 2017		1		24		200		2		GC-FID	CF/CST 225-9004	61	ST 226-15	35			
4-Nitrobiphenyl		OSHA CSI				240		500		8		GC-FID	ST 226-30-16	35					
p-Nitrochlorobenzene		OSHA CSI		1 mg/m³		150		1000		2.5		GC-FID	ST 226-10	35					
p-Nitrochlorobenzene (nitrobenzenes)		NIOSH 2005		0.1		96		200		8		GC-FID	ST 226-10	35					
Nitrochloroform		NON 51		0.1		144		100		24		GC-MSD	ST 226-175	38					
Nitrochloromethane		NON 51		0.1		144		100		24		GC-MSD	ST 226-175	38					
4-Nitrodiphenyl		OSHA PV2082				240		500		8		GC-FID	ST 226-30-16	35					
Nitroethane		NIOSH 2526		100		2.4		20		2		GC-FID	ST 226-3002A	39					
Nitrofuranone		OSHA PV2069				240		1000		4		HPLC-UV	F/CST 225-709	79	C/HLD 225-1	87			
Nitrogen dioxide	●	NIOSH 6014			1 (NO ₂)	1.5-6		25-200		varies		VAS	ST 226-40-02	36					
Nitrogen dioxide	●	OSHA ID 182	1406		5 (C)		3		200		15	IC	ST 226-40	or ST 226-40-02	36				
Nitrogen dioxide & nitric oxide		NIOSH 6014	1390	25 (NO)	1 (NO ₂)	1.5-6		25		1-4		VAS	ST 226-40	36					
Nitrogen dioxide & nitric oxide		NON 11					0.75		50		15	CLR	ST 226-40	36					
Nitrogen dioxide & nitric oxide		OSHA ID 182	1389	25 (NO)	5 (NO ₂)	6	3	25	200	4	15	IC	ST 226-40	36					
Nitroglycerin		NIOSH 2507			0.1 mg/m³		3		200		15	GC-ECD	ST 226-35-03	36					
Nitroglycerin		OSHA 43			0.1 mg/m³		15		1000		15	HPLC	ST 226-35-03	36					
Nitromethane		NIOSH 2527				2.4		20		2		GC-NSD	ST 226-111A	37					
Nitromethane		OSHA CSI	100			3		50		1		GC-NPD	ST 226-111A	37					
p-Nitrophenol		OSHA CSI				100		1000		100 min		HPLC-UV	IMP 225-36-1	59	IT 225-22	59			
1-Nitropropane		OSHA 46		25		3		100		30 min		GC-FID	ST 226-93	37					
2-Nitropropane		NIOSH 2528		LFC		2		20		1.5		GC-FID	ST 226-110	37					
2-Nitropropane		OSHA 46		25		3		100		30 min		GC-FID	ST 226-93	37					
1-Nitropyrene		OSHA CSI				960		2000		8		HPLC-UV	F/CST 225-706	79	C/HLD 225-1	87			
1-Nitropyrene in diesel particulates		NIOSH 2560				480-960		1000-2000		varies		GC-NCD	FLT 225-7 SPC 225-23	79	SP 225-27	87			
N-Nitrosodiethanolamine		OSHA 31				480		2000		4		GC-TEA	F/CST 225-706	79	C/HLD 225-1	87			
N-Nitrosodiphenylamine		OSHA 23				240		1000		4		HPLC-UV	IMP 225-36-2	59	IT 225-22	59			
Nitrotoluene (m-isomer)		OSHA CSI		5		30		200		2.5		GC-FID	ST 226-10	35					
m-Nitrotoluene (nitroaromatic compounds)		NIOSH 2005		2 ppm		96		200		8		GC-FID	ST 226-10	35					
o-Nitrotoluene (nitroaromatic compounds)		NIOSH 2005		2 ppm		96		200		8		GC-FID	ST 226-10	35					
p-Nitrotoluene (nitroaromatic compounds)		NIOSH 2005		2 ppm		96		200		8		GC-FID	ST 226-10	35					
Nitrotoluene (nitrobenzenes)		NIOSH 2005		2 ppm		96		200		8		GC-FID	ST 226-10	35					
Nitrous oxide	●	NIOSH 6600	1028	25		3		100-4000		varies		P I R	SB 231-05	51					
Non-sporulating fungi		OSHA CSI				120		1000		2		varies	F/CST 225-3-01	77	C/HLD 225-1	87			
Non-sporulating fungi		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611	103					
trans-Nonachlor		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF 226-92	42					
Nonane	●	OSHA CSI				3		50		1		GC-FID	ST 226-01	35					
n-Nonane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		200		4		10-200		varies		GC-FID	ST 226-01	35					
Nonpolar organic compounds		NON 38		varies		varies				varies		GC	PUF 226-129	43					
Nonyl alcohol	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-01	35					
Nonylphenol		OSHA CSI				24		100		4		HPLC-UV	ST 226-95	37					
Norethindrone		OSHA PV2070				480		2000		4		HPLC-UV	F/CST 225-802	73	C/HLD 225-1	87			
Nuisance dust (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT 225-8-01 CYC 225-01-02	73	C/HLD 225-1 CST 225-3LF	87			
Nuisance dust (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT 225-8-01 CST 225-2LF	73	C/HLD 225-1	87			

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time								
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number					
Nuisance dust (see dust, respirable nuisance)																		
Octachloronaphthalene		OSHA CSI		0.1 mg/m³		30	15	1000	1000	0.5	15	GC-ECD	F/CST	225-3-01	77	C/HLD	225-1	87
Octadecanol		OSHA CSI			10			100		100 min		GC-FID	ST	226-01	35			
Octane	●	OSHA 07	1141	500		5	3	20	200	4	15	GC-FID	ST	226-01	35			
n-Octane	●	OSHA PV2138		500		4		50		80 min		GC-FID	ST	226-01	35			
n-Octane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		75	385	4	4	0-200	0-200	varies	varies	GC-FID	ST	226-01	35			
1-Octanethiol		NIOSH 2510			0.5 (15 min)		3		200		15	GC-FPDS	ST	226-35-03	36			
di-n-Octyl phthalate (DNOP)		OSHA 104				240		1000		4		GC-FID	ST	226-56	36			
Oil mist (mineral)		NIOSH 5026	1526	5 mg/m³	10 mg/m³	480	30	1000	2000	8	15	IR	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-802	73
Oil mist (mineral)		OSHA ID 128		5 mg/m³		960		2000		8		FLUOR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87
Oil mist (mineral)		OSHA ID 178SG		5 mg/m³		960		2000		8		GR & IR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87
Oil mist (total aerosol)		NON 46		5 mg/m³		varies		2000		varies		GR	IOM	225-70A	92	FLT	225-8-04	73
Oil mist (vegetable) (see dust, total & respirable nuisance)																		
Oil of vitriol (acids, inorganic)		NIOSH 7903	1016	1 mg/m³		48		200		4		IC	ST	226-10-03	35			
Organic vapors (charcoal tube method)		ASTM D 3686				varies	varies	varies	varies	varies	varies	GC	ST	226-01	35			
Organic vapors (diffusive sampler method)		ASTM D 4597				varies	varies	varies	varies	varies	varies	GC	PS PS	575-001 575-003	or 64	PS	575-002	or
Organonitrogen pesticides (see specific compounds)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35
Organophosphorus pesticides (see specific compounds)		NIOSH 5600		varies		varies		varies		8		GC-FPD	ST	226-58	36			
Organotin compounds as Sn (see specific compounds)		NIOSH 5504		0.1 mg/m³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35 87	F/CST	225-709	79
Organotin compounds as Sn (see specific compounds)		NIOSH 5526		0.1 mg/m³		60	60	250	1000	4	60	GC-FPD	ST	226-30-16	35			
Orthene (acephate)		OSHA CSI				240		1000		4		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87
Oryzalin		OSHA CSI				120		1000		2		HPLC-UV	F/CST IMP	225-706 225-36-1	79 59	C/HLD IT	225-1 225-22	87 59
Osmium tetroxide (as Os)		OSHA 125G		0.002		480	15	1000	1000	8	15	ICP	F/CST IT	225-3-01 225-22	77 59	IMP	225-36-1	59
Oxalic acid		OSHA PV2115		1 mg/m³		100		1000		100 min		IC	F/CST	225-3-01	77	C/HLD	225-1	87
Oxamyl (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35
Oxamyl (Vydate)		OSHA CSI				60		1000		1		HPLC	ST	226-30-16	35			
Oxychlorane		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42			
Oxydemeton methyl		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35			
Oxygen		OSHA CSI										DET TB or DRI	DT	800-28081	or	DT	810-31B	
Ozone	●	OSHA CSI		0.1								DET TB	DT	800-33181 810-18L	or	DT	800-21001	or
Ozone	●	OSHA ID-214		0.1		90		500		3		IC	CF/CST C/HLD	225-9014 225-1	61 87	ST	Special order Σ	
Paecilomyces species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87
Paecilomyces species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103			
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	43	FLT	225-1821	79
PAHs (polynuclear aromatic hydrocarbons by GC, see specific compounds)		NIOSH 5515	1464			480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35
PAHs (polynuclear aromatic hydrocarbons by HPLC, see specific compounds)		NIOSH 5506	1464			480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35
Palladium (elements by ICP HNO₃ digestion)		NIOSH 7303				0.1-3.300		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87
Palladium (see dust, total nuisance)		OSHA CSI																
Pancreatin		OSHA CSI				480		2000		4		IRA	F/CST	225-1713	74	C/HLD	225-1	87
Papain		OSHA CSI				60,000		1000 L/min		1		GC-FID	FLT	225-7-07	79			
Paper fiber (cellulose) (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86
Paper fiber (cellulose) (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87
PAPI		OSHA CSI				15		1000		15 min		HPLC-UV	FLT C/HLD	225-7 ‡ 225-1	79 87	CST	225-3LF	86
Paraffin wax fume		OSHA PV2047				100		1000		100 min		GC-FID	F/CST	225-706	79	C/HLD	225-1	87
Paraquat		NIOSH 5003		0.1 mg/m³		480		1000		8		HPLC-UV	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF	86
Paraquat (respirable dust)		OSHA CSI		0.5 mg/m³		960		4000		4		HPLC-UV	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF	86
Parathion		OSHA 62	1398	0.1 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35			
Parathion (organophosphorus pesticides)		NIOSH 5600		0.05 mg/m³		240		1000		4		GC-FPD	ST	226-58	36			
Particulates not otherwise regulated (total dust)		OSHA CSI		15 mg/m³		720		1500		8		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87
Particulates not otherwise regulated, respirable		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86
Particulates not otherwise regulated, respirable fraction		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86
Particulates, inorganic (bioaerosols)						15-150		15000		1-10 min		varies	STC	225-9820	81			
Particulates, respirable		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86
Particulates, total (see specific compounds)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87

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References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
PCBs (42% Cl) (see polychlorobiphenyls)		NIOSH 5503																	
PCBs (54% Cl) (see polychlorobiphenyls)		NIOSH 5503																	
PCBs (polychlorinated biphenyls) (see Environmental Sampling Guide)		EPA TO-4A																	
Penicillium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Penicillium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Pentaborane		OSHA CSI		0.005		480	15	1000	1000	8	15	ICP	IT	225-22	59	IMP	225-36-2	59	
Pentac (bis [pentachloro-2,4-cyclopentadien-1-yl])		OSHA CSI				120		1000		2		HPLC-UV	FLT	225-9	76	CST	225-3LF	86	
												IMP	225-36-1	59	IT	225-22	59		
												C/HLD	225-1	87					
Pentachlorobenzene		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Pentachlorobenzene (polychlorobenzenes)		NIOSH 5517				12		25		8		GC-ECD	FLT	225-17-03	74	CST	Special order		
												ST	226-30-04	35					
Pentachloroethane		NIOSH 2517				10		20		8		GC-ECD	ST	226-59-04	36				
Pentachloroethane		OSHA CSI				10		20		8		GC-ECD	ST	226-59-04	36				
Pentachloronaphthalene		OSHA CSI		0.5 mg/m³		90		1000		1.5		GC-ECD	ST	226-30-16	35				
Pentachlorophenol		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42				
Pentachlorophenol		NIOSH 5512		0.5 mg/m³		480		1000		8		HPLC-UV	CST	225-3LF	86	SCN	225-26	87	
												IMP	225-36-2	59	IT	225-22	59		
												FLT	225-5	76					
Pentachlorophenol		OSHA 39		0.5 mg/m³		48		200		4		HPLC-UV	ST	226-97	37				
2,3-Pentadione		OSHA 1016				10	3	50	200 (min)	200	15	GC-FID	ST	226-183	38				
Pentaerythritol (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT	225-8-01	73	C/HLD	225-1	87	
													CYC	225-01-02	95	CST	225-3LF	86	
Pentaerythritol (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT	225-8-01	73	C/HLD	225-1	87	
													CST	225-2LF	86				
Pentaerythritol (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT	225-8-01	73	C/HLD	225-1	87	
													CYC	225-105	94	CST	225-3LF	86	
Pentaerythritol (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT	225-8-01	73	C/HLD	225-1	87	
													CST	225-3LF	86				
Pentamethyldiethylenetriamine		OSHA CSI				480		1000		8		GC-NPD	IMP	225-36-1	59	IT	225-22	59	
Pentamidine isethionate		NIOSH 5032				960		2000		8		HPLC-FD	CST	225-4	86	FLT	225-8-01	73	
													C/HLD	225-1	87				
Pentane	●	OSHA 07	1140	1000		2	0.75	20	50	1.6	15	GC-FID	ST	226-01	35				
n-Pentane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		120	610	4	4	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
2-Pentanone (ketones I)		NIOSH 2555				1-10		10-200		varies		GC-FID	ST	NA SKC					
2-Pentanone (methyl propyl ketone)	●	OSHA 07	1139	200		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
2-Pentanone (methyl propyl ketone) (ketones I)	●	NIOSH 1300		150		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
1-Pentene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
Perchloric acid		OSHA ID 115SG				120		500		4		CLR	IMP	225-36-2	59	IT	225-22	59	
Perchloroethylene (tetrachloroethylene)	●	OSHA 1001		100	200 (C)	12	0.75	50	50	4	5	GC-FID	ST	226-01	35				
Perchloroethylene (tetrachloroethylene)	●	OSHA 1001		100	200 (C)			13.06		8	5	GC-FID	PS	575-002	64				
Perchloroethylene (tetrachloroethylene) (hydrocarbons, halogenated)	●	NIOSH 1003		LFC		3		10-200		varies		GC-FID	ST	226-01	35				
Perchloroethylene (tetrachloroethylene) (portable GC)		NIOSH 3704		LFC		1		20-5000		varies		P GC	SB	232-01	50				
Perchloryl fluoride		OSHA CSI	3			240	15	1000	1000	4	15	ISE	IMP	225-36-2	59	IT	225-22	59	
Perlite (< 1% Quartz) (see dust, total & respirable nuisance)																			
cis-Permethrin		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42				
trans-Permethrin		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42				
Peroxyacetic acid & hydrogen peroxide		NON 57				15		1000		15		MAS/HPLC-UV	CF/CST	225-9030	61	ST	226-193	38	
Pesticides (see Environmental Sampling Guide)		EPA IP-8																	
Pesticides (see Environmental Sampling Guide)		EPA TO-10A																	
Pesticides, carbamate		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42				
Pesticides, organochlorine		ASTM D 4861	1253			240-7200		1000-5000		4-24		varies	PUF	226-92	or	PUF	226-124	42	
Pesticides, organochlorine (see Environmental Sampling Guide)		EPA TO-4A																	
Pesticides, organonitrogen (see specific compounds)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35	
Pesticides, organophosphorus		ASTM D 4861	1253			240-7200		1000-5000		4-24		varies	PUF	226-92	or	PUF	226-124	42	
Pesticides, pyrethrin		ASTM D 4861				240- 7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42				
Pesticides, triazine		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV or GC-ECD	PUF	226-92	42				
Petroleum distillate (naphthas)		NIOSH 1550		350 mg/m³	1800 mg/m³	3.6	1.5	20	100	3	15	GC-FID	ST	226-01	35				
Petroleum distillate fractions (PDF)		OSHA 48		500		3		20		2.5		GC-FID	ST	226-01	35				
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	35				
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	35				
Peziza species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Peziza species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Phenanthrene		OSHA 58				960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT	225-7	79	CST	225-2LF	86	
													C/HLD	225-1	87				
Phenanthrene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT	225-1821	79	
Phenanthrene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST	225-1713	74	ST	226-30-04	35	
													C/HLD	225-1	87				

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Phenanthrene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-UV	F/CST 225-1713 74 ST 226-30-04 35						
Phenol	●	OSHA 32	1019	5		24		100		4		HPLC-UV	C/HLD 225-1 ST 226-95 37						
Phenol (cresols)	●	NIOSH 2546		5	15.6 (15 min)	24	3	100	200	4	15	GC-FID	ST 226-95 37						
Phenol (see Environmental Sampling Guide)		EPA TO-8																	
Phenolics (screening)		NIOSH 2549				5		20		4		GC-MS	ST 226-330 39						
Phenothiazine		OSHA PV2048				100		1000		1		GC-NPD	F/CST 225-706 79 C/HLD 225-1 87						
2-Phenoxyethanol		OSHA CSI				10		200		50 min		GC-FID	ST 226-01 35						
2-Phenoxyethyl acrylate		OSHA CSI				24		100		4		GC-FID	ST 226-22 35						
1-Phenyl-1-cyclohexene		OSHA CSI				10		200		50 min		GC-FID	ST 226-01 35						
Phenyl ether	●	NIOSH 1617		1		48		100		8		GC-FID	ST 226-01 35						
Phenyl ether	●	OSHA 07	1138	1		10		20(50)		8(3.3)		GC-FID	ST 226-01 35						
Phenyl ether	●	OSHA PV2022		1		20		200		100 min		GC-FID	ST 226-95 37						
Phenyl ether-biphenyl mix		NIOSH 2013		1		24		50		8		GC-FID	ST 226-10 35						
Phenyl ether-biphenyl mix		OSHA CSI		1		10		20(50)		8(3.3)		GC-FID	ST 226-95 37						
Phenyl glycidyl ether	●	NIOSH 1619			1 (15 min)		80		1000		80	GC-FID	ST 226-01 35						
Phenyl glycidyl ether	●	OSHA 07	1137	10		48		100		8		GC-FID	ST 226-01 35						
Phenyl hydrazine		NIOSH 3518			0.14 (120 min)		120		1000		120	VAS	IMP 225-36-2 59 IT 225-22 59						
Phenyl hydrazine		OSHA CSI		5		100	15	1000	1000	100 min	15	CLR	IMP 225-36-2 59 IT 225-22 59						
Phenyl mercaptan		OSHA PV2075				20		200		100 min		GC-FID	CF/CST 225-9007 61 C/HLD 225-1 87						
N-Phenyl-1-naphthylamine		OSHA 96				240		2000		4		HPLC-FD	FLT 225-703 ‡ 79 CST 225-309 86						
N-Phenyl-2-naphthylamine		OSHA 96				240		1000		4		HPLC-FD	FLT 225-703 ‡ 79 CST 225-309 86						
N-Phenyl-2-naphthylamine		OSHA CSI										W	C/HLD 225-1 87						
N-Phenyl-2-naphthylamine		OSHA CSI										W	225-2401A 124						
4-Phenylcyclohexene		OSHA CSI				10		200		50 min		GC-FID	ST 226-01 35						
m-Phenylenediamine		OSHA 87	1231			100		1000		100 min		HPLC-UV	CF/CST 225-9004 61 C/HLD 225-1 87						
o-Phenylenediamine		OSHA 87	1231			100		1000		100 min		HPLC-UV	CF/CST 225-9004 61 C/HLD 225-1 87						
p-Phenylenediamine		OSHA 87	1231	0.1 mg/m³		100		1000		100 min		HPLC-UV	CF/CST 225-9004 61 C/HLD 225-1 87						
Phenyloxirane (see styrene oxide)		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-35 35						
o-Phenylphenol		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF 226-92 42						
o-Phenylphenol		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST 226-35 35						
Phoma species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST 225-3-01 77 C/HLD 225-1 87						
Phoma species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI 225-9611 103						
Phorate		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF 226-92 42						
Phorate (organophosphorus pesticides)		NIOSH 5600		0.05 mg/m³ 0.2 mg/m³		240		1000		4		GC-FPD	ST 226-58 36						
Phorate (Thimet)		OSHA CSI				480	15	1000	1000	8	15	GC-FPD	ST 226-30-16 35						
Phosdrin (mevinphos)		OSHA CSI		0.1 mg/m³		480	15	1000	1000	8	15	GC-FPD	ST 226-30-16 35						
Phosdrin (mevinphos) (organophosphorus pesticides)		NIOSH 5600		0.01	0.03	120	15	1000	1000	2	15	GC-FPD	ST 226-58 36						
Phosgene		OSHA 61		0.1		240		1000		4		GC-NPD	ST 226-117 37						
Phosgene (see Environmental Sampling Guide)		EPA TO-6																	
Phosgene & chloroformates		NON 40				24		50		8		GC-FPD	ST 226-153 38						
Phosmet (Imidan)		OSHA CSI				120		1000		2		HPLC-UV	F/CST 225-706 79 C/HLD 225-1 87						
Phosphine		NIOSH 6002		0.3	1	12	3	100	200	8	15	UV-VAS	ST 226-165A † 38						
Phosphine		OSHA 1003	1698	0.3		240	30	1000	2000	4	15	ICP-AES	CF/CST 225-9018 † 61 C/HLD 225-1 87						
Phosphoric acid		OSHA ID 111	1466	1 mg/m³		960	30	2000	2000	8	15	IC	F/CST 225-3-01 77 C/HLD 225-1 87						
Phosphoric acid		OSHA ID 165SG		1 mg/m³		960	30	2000	2000	8	15	IC	ST 226-10-03 35						
o-Phosphoric acid		NIOSH 7903	1016	1 mg/m³ 3 mg/m³		48	3	200	200	4	15	IC	ST 226-10-03 35						
m-Phosphoric acid (acids, inorganic)		NIOSH 7903	1016	1 mg/m³ 3 mg/m³		48	3	200	200	4	15	IC	ST 226-10-03 35						
Phosphorous (elements by ICP HNO3 digestion)		NIOSH 7303		0.1 mg/m³		250-500,000		1000-4000		varies		ICP-AES	F/CST 225-3-01 77 C/HLD 225-1 87						
Phosphorus		NIOSH 7905		0.1 mg/m³		12		200		1		GC-FPD	ST 226-35-03 36						
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 77 C/HLD 225-1 87						
Phosphorus (elements by ICP HNO3/HClO4 ashing)		NIOSH 7300	1455	0.1 mg/m³		25-200		1000-4000		varies		ICP-AES	F/CST 225-3-01 77 C/HLD 225-1 87						
Phosphorus (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414 124 TMP 225-2415 124						
Phosphorus (yellow)		OSHA CSI		0.1 mg/m³		96		200		8		GC-FPD	ST 226-35-03 36						
Phosphorus oxychloride		OSHA CSI				240		1000		4		IC	IMP 225-36-2 59 IT 225-22 59						
Phosphorus pentachloride		OSHA CSI		1 mg/m³		48		200		4		CLR	F/CST 225-803 73 IMP 225-36-2 59						
Phosphorus pentasulfide		OSHA ID 128SG		1 mg/m³		960	30	2000	2000	8	15	IC	IT 225-22 59 SCN 225-26 87						
Phosphorus pentoxide		OSHA ID 111				480		1000		8		F/CST	F/CST 225-802 73 C/HLD 225-1 87						
Phosphorus trichloride		NIOSH 6402		0.2	0.5	24		200		2		VAS	F/CST 225-3-01 77 C/HLD 225-1 87						
Phosphorus trichloride		OSHA CSI		0.5		96	3	200	200	8	15	CLR	IMP 225-36-2 59 IT 225-22 59						
Phosvel		OSHA CSI				480		1000		8		GC-FPD	ST 226-30-16 35						
Phthalates (see specific compounds)																			
Phthalic acid		OSHA CSI				10		200		50 min		HPLC	ST 226-01 35						
Phthalic anhydride		OSHA 90		2		75		1000		1.25		HPLC-UV	FLT 225-7 ‡ 79 CST 225-3LF 86						
m-Phthalodinitrile		OSHA CSI				20		200		100 min		GC-NPD	ST 226-01 35						
Picloram (tordon) (total dust)		OSHA PV2049		15 mg/m³		60		1000		1		GR	FLT 225-8-01 73 C/HLD 225-1 87						
Picloram (tordon) (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	CST 225-8-01 73 C/HLD 225-1 87						
Picric acid		OSHA CSI		0.1 mg/m³		180		1500		2		HPLC-UV	FLT 225-105 94 CST 225-3LF 86						
												F/CST	F/CST 225-3-01 77 C/HLD 225-1 87						

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time											
				TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number								
Chemical Hazard	Passive Guide	Agency Reference	Chem F File																		
Pindone		OSHA CSI		0.1 mg/m³		180		1000		3		HPLC-UV	FLT ST	225-17-01 226-35-03	74 36	CST C/HLD	225-2LF 225-1	86 87			
alpha-Pinene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35						
beta-Pinene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35						
alpha-Pinene (terpenes)	●	NIOSH 1552				24		50		8		GC-FID	ST	226-01	35						
beta-Pinene (terpenes)	●	NIOSH 1552				24		50		8		GC-FID	ST	226-01	35						
Piperazine dihydrochloride		OSHA CSI				96		200		8		GC-NPD	F/CST	225-709	79	C/HLD	225-1	87			
Piperidine		OSHA CSI				6		200		30 min		GC-FID	ST	226-01	35						
Piperonyl butoxide		OSHA PV2110				30		1000		30 min		HPLC-UV	ST	226-30-16	35						
Pipron		OSHA CSI				90		1000		1.5		GC-ECD	F/CST IMP	225-706 225-36-1	79 59	C/HLD IT	225-1 225-22	87 59			
Pirimiphos methyl		OSHA PV2071				120		1000		2		GC-ECD	ST	226-30-16	35						
Pithomyces species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87			
Pithomyces species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103						
Plaster of Paris (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86			
Plaster of Paris (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87			
Plaster of Paris (see dust, respirable nuisance)		OSHA CSI																			
Platinum		OSHA ID 130SG				90		1000		1.5		AA	F/CST	225-3-01	77	C/HLD	225-1	87			
Platinum (elements by ICP HNO3 digestion)		NIOSH 7303				200-25,000,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87			
Platinum (as Pt), metal		OSHA CSI				960		2000		8		AA-GF	F/CST	225-3-01	77	C/HLD	225-1	87			
Platinum (as Pt), metal		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87			
Platinum (as Pt), soluble salts		OSHA ID 121		2 µg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87			
PM2.5 (see Environmental Sampling Guide)		EPA IP-10A																			
PNAs (polynuclear aromatic hydrocarbons by GC, see specific compounds)		NIOSH 5515	1464			480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35			
PNAs by HPLC (see specific compounds)		NIOSH 5506	1464			480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35			
PNAs selected		OSHA 58				960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD	225-7 225-1	79 87	CST	225-2LF	86			
Pollen (in air)						15-150		15000		1-10 min		varies	STC	225-9820	81						
Pollen (in air)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊	225-9598A	105			
Polychlorinated biphenyls		ASTM D 4861	1252			240-7200		1000-5000		4-24		varies	PUF	226-92	or	PUF	226-124	42			
Polychlorinated biphenyls		NIOSH 5503		0.001 mg/m³ (10 hr)		48		100(200)		8(4)		GC-ECD	FLT ST	225-16 226-39	79 36	CST	225-32	87			
Polychlorinated biphenyls		OSHA CSI				60		1000		1		GC-ECD	ST	226-30-16	35						
Polychlorobenzenes (see specific compounds)		NIOSH 5517		varies		varies		varies		8		GC-ECD	FLT CST	225-17-03 225-1	74 87	ST C/HLD	226-30-04 225-1	35 87			
Polychlorobiphenyls (42% Cl)		NIOSH 5503		0.001 mg/m³ (10 hr)		48		100(200)		8(4)		GC-ECD	FLT ST	225-16 226-39	79 36	CST	225-32	87			
Polychlorobiphenyls (54% Cl)		NIOSH 5503		0.001 mg/m³ (10 hr)		48		100(200)		8(4)		GC-ECD	FLT ST	225-16 226-39	79 36	CST	225-32	87			
Polycyclic aromatic compounds (PACs), total		NIOSH 5800				960 30		2000 2000		8 15		FLUOR	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35			
Polyfunctional aziridine		OSHA CSI				100		1000		100 min		GC-FID	ST	226-57	36						
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	43	FLT	225-1821	79			
Polynuclear aromatic hydrocarbons by HPLC (see specific compounds)		NIOSH 5506	1464	varies		480		2000		4		HPLC-UV	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35			
Polynuclear aromatic hydrocarbons (polynuclear aromatic hydrocarbons by GC, see specific compounds)		NIOSH 5515	1464	varies		480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74 87	ST	226-30-04	35			
Portland cement (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86			
Portland cement (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87			
Portland cement (respirable dust)		OSHA ID 142		5 mg/m³		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86			
Portland cement (total dust)		OSHA ID 142		15 mg/m³		960		2000		8		GR & XRD	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87			
Portland cement (total dust)		OSHA ID 207		15 mg/m³		240		1000		4		XRD	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87			
Potassium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶				5-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73			
Potassium (elements by ICP HNO3/HClO4 ashing)		NIOSH 7300	1455			5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87			
Potassium & compounds		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87			
Potassium chromate (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8		IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87			
Potassium cyanide (cyanides)		NIOSH 7904		5 mg/m³ (10 min)		15		1000		15		ISE	FLT IMP C/HLD	225-2705 Δ 225-36-2 225-1	74 59 87	CST IT	225-2LF 225-22	86 59			
Potassium hydroxide (alkaline dust)		NIOSH 7401				960		2000		8		TITRA	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF	86			
Potassium hydroxide (as K)		OSHA ID 121	1199			10		2000		5		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87			
Pramitol		OSHA CSI				100		1000		100 min		HPLC-UV	ST	226-30-16	35						
Progesterone		OSHA PV2001				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87			
Propane		OSHA CSI		1000		5		100		50 min		GC-FID	ST	NA SKC							
1,2,3-Propanetriol trinitrate		OSHA 43				15		1000		15 min		HPLC-UV	ST	226-35-03	36						
Propargyl alcohol		OSHA 97				6		50		2		GC-ECD	ST	226-178	38						

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

Sampling Guide

www.skcltd.com for updates

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www.skincnc.com for updates				SAMPLING ∞												
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time						
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number			
Propazine		ASTM D 4861				240-7200		1000-5000		4-24		GC-NPD	PUF	226-92	42	
Propham (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or ST	226-30-16 35
Propionaldehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120	or ST	226-119 37
Propionaldehyde (aldehydes, screening)		NIOSH 2539				5		20		4		GC-FID & GC-MS	ST	226-118	37	
Propionic acid	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-15	35	
Propoxur (Baygon)		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Propoxur (Baygon)		OSHA PV2007				60		1000		1		HPLC-UV	ST	226-30-16	35	
Propoxur (organonitrogen pesticides)		NIOSH 5601		0.5 mg/m³		240		1000		4		HPLC-UV	ST	226-58	or ST	226-30-16 35
2-Propoxyethanol		OSHA CSI				6		200		30 min		GC-FID	ST	226-01	35	
n-Propyl acetate	●	OSHA 07	1136	200		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35	
n-Propyl acetate (esters I)	●	NIOSH 1450		200	250	1-10	1-10	10-200	10-200	varies	varies	GC-FID	ST	226-01	35	
Propyl alcohol	●	OSHA 07		200		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35	
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	35	
n-Propyl alcohol (alcohols II)	●	NIOSH 1401		200	250	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35	
Propyl bromide	●	OSHA CSI				12		100		2		GC-FID	ST	226-01	35	
n-Propyl nitrate		OSHA 07		25	40	48		100		8		GC-FID	ST	226-81A	36	
Propyl paraben		OSHA CSI										HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87
Propylene dichloride (1,2-dichloro propane)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series
Propylene dichloride (1,2-dichloro propane)	●	NIOSH 1013		LFC		3		20		2.5		GC-ECN	ST	226-81A	36	
Propylene dichloride (1,2-dichloro propane)	●	OSHA 07		75		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35	
Propylene glycol		NIOSH 5523	1403			60		1000		1		GC-FID	ST	226-57	36	
Propylene glycol		OSHA PV2051				60	15	1000	1000	1	15	GC-FID	ST	226-57	36	
1,2-Propylene glycol dinitrate		OSHA CSI				15		1000		15 min		HPLC	ST	226-35-03	36	
Propylene glycol monomethyl ether	●	OSHA CSI				10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35	
Propylene glycol monomethyl ether (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST	226-81A	36	
Propylene glycol monomethyl ether acetate	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35	
Propylene glycol monomethyl ether acetate (glycol ethers)	●	NIOSH 2554				3-25		100-200		varies		GC-FID	ST	226-81A	36	
Propylene oxide (1, 2-epoxypropane)	●	NIOSH 1612		LFC		5		20		4.2		GC-FID	ST	226-01	35	
Propylene oxide (1, 2-epoxypropane)	●	OSHA 88	1325	100		5	5	100	1000	50 min	5	GC-FID	ST	226-81A	36	
Propyleneimine		OSHA CSI		2		48		200		4		HPLC-UV	IMP	225-36-2	59	IT 225-22 59
Pyrene		OSHA 58				960		2000		8		GR & HPLC-FD, or GR & HPLC-UV	FLT C/HLD	225-7 225-1	79	CST 225-2LF 86
Pyrene (polynuclear aromatic hydrocarbons by GC-MS)		ASTM D 6209				350 m³ (max)		225 L/min		1-24		GC-MS	PUF	226-131	43	FLT 225-1821 79
Pyrene (polynuclear aromatic hydrocarbons by GC)		NIOSH 5515				480		2000		4		GC-FID	F/CST C/HLD	225-1713 225-1	74	ST 226-30-04 87 35
Pyrene (polynuclear aromatic hydrocarbons by HPLC)		NIOSH 5506				480		2000		4		HPLC-FD	F/CST C/HLD	225-1713 225-1	74	ST 226-30-04 87 35
Pyrethrin pesticides (see specific compounds)		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42	
Pyrethrum		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Pyrethrum		NIOSH 5008		5 mg/m³		100		1000		2		HPLC-UV	F/CST SP	225-709 225-27	79	C/HLD 225-1 87 87
Pyrethrum		OSHA 70	1400	5 mg/m³		60		1000		1		GC-ECD	ST	226-30-16	35	
Pyridine	●	NIOSH 1613		5		48		100		8		GC-FID	ST	226-01	35	
Pyridine	●	OSHA 07	1180	5		48		100		8		GC-FID	ST	226-01	35	
Pyridine	●	OSHA PV2295		5		10		100		100 min		GC-FID	ST	226-95	37	
1-(2-Pyridyl)piperazine		OSHA CSI										W	W	225-2401A	124	
Pyrimethamine		OSHA CSI				10		1000		100 min		HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87
Quartz (respirable) in coal dust, (silica in coal mine dust)		NIOSH 7603		0.05 mg/m³		300-1000		2500		varies		IR	FLT	225-8-01	73	C/HLD 225-1 87
													CYC	225-01-02	95	CST 225-3LF 86
Quartz (silica, crystalline [respirable]) by XRD		NIOSH 7500	1370	0.05 mg/m³		400-1000		2500		varies		XRD	F/CST	225-803	73	CYC 225-01-02 95
Quartz (silica, crystalline by IR)		NIOSH 7602		0.05 mg/m³		400-800		2500		varies		IR	F/CST	225-803	73	C/HLD 225-1 87
													CYC	225-01-02	95	
Quartz (silica, crystalline by VAS)		NIOSH 7601	1041	0.05 mg/m³		400-800		2500		varies		VAS	F/CST	225-803	73	C/HLD 225-1 87
													CYC	225-01-02	95	
Quinone		OSHA CSI		0.1		24		100		4		HPLC-UV	ST	226-30-04	35	
Rabon		OSHA CSI				480		1000		8		GC-ECD	ST	226-30-16	35	
Radon progeny (on dust, in mines)		NON 56				5		2000		5 min		DRI	FLT	225-702	79	CST 225-1107 87
Ramrod (propachlor)		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-706	79	C/HLD 225-1 87
Resmethrin		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42	
Resmethrin		OSHA PV2052				60		1000		1		HPLC-UV	ST	226-30-16	35	
Resorcinol		NIOSH 5701		10		120		500		4		GC-FID	ST	226-57	36	
Rhizopus species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Rhizopus species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Rhodamine B		OSHA PV2072				240		1000		4		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87
Rhodium metal fume & dust (as Rh)		OSHA CSI		0.1 mg/m³		960		2000		8		AA-GF	F/CST	225-3-01	77	C/HLD 225-1 87
Rhodium soluble salts (as Rh)		OSHA CSI		1 µg/m³		960		2000		8		AA-GF	F/CST	225-3-01	77	C/HLD 225-1 87
Rhodotorula species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD 225-1 87
Rhodotorula species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103	
Ribavirin		NIOSH 5027				480		1000		8		HPLC-UV	F/CST	225-709	79	C/HLD 225-1 87
Ronnel		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-92	42	
Ronnel		OSHA PV2054		15 mg/m³		60		1000		1		GC-FPD	ST	226-30-16	35	
Ronnel (organophosphorus pesticides)		NIOSH 5600		10 mg/m³		60		1000		1		GC-FPD	ST	226-58	36	
Rosaniline		OSHA CSI				bulk						HPLC				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Rotenone		NIOSH 5007		5 mg/m³		120		1000		2		HPLC-UV	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF	86	
Rotenone (commercial)		OSHA CSI		5 mg/m³		240		2000		2		HPLC-UV	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF	86	
Rouge (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Rouge (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Rouge (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Rouge (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Roundup		OSHA CSI				90		1000		1.5		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Rozol		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Rubber solvent (naphthas)		NIOSH 1550		360 mg/m³	1800 mg/m³	10	1.5	20(50)	100	8(3.3)	15	GC-FID	ST	226-01	35				
Rubidium		OSHA CSI				480		1000		8		AA-GF	F/CST IMP	225-709 225-36-2	79 59	C/HLD IT	225-1 225-22	87 59	
Safrotin		OSHA PV2050				60		1000		1		GC-ECD	F/CST	225-709	79	C/HLD	225-1	87	
Saphrophyte (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Saphrophyte (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Sarin		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35				
Scopolamine methyl nitrate		OSHA PV2144				120		1000		2		HPLC-UV	F/CST C/HLD	225-709 225-1	or 87	F/CST	225-706	79	
Scopulariopsis species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Scopulariopsis species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Selenium		OSHA ID 121		0.2 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Selenium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥		0.2 mg/m³		13-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73	
Selenium (elements by ICP HNO₃ digestion)		NIOSH 7303		0.2 mg/m³		8-250,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Selenium (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.2 mg/m³		13-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Selenium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Selenium compounds (as Se)		OSHA CSI		0.2 mg/m³		960		2000		8		AA-GF	F/CST	225-3-01	77	C/HLD	225-1	87	
Sevin (see carbaryl)																			
Sevoflurane	●	OSHA CSI				3		50		1		GC-FID	ST	226-81A	36				
Silica (quartz, non-respirable) (see dust, total nuisance)		OSHA CSI																	
Silica (quartz) in coal dust (quartz in coal mine dust by IR)		NIOSH 7603		0.05 mg/m³		300-1000		2500		varies		IR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Silica, amorphous		OSHA CSI		20 mppcf		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Silica, amorphous (respirable)		NIOSH 7501		6 mg/m³		50-400		2500		varies		XRD	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1	87	
Silica, crystalline (respirable) by XRD		NIOSH 7500	1370	0.05 mg/m³		400-1000		2500		varies		XRD	F/CST C/HLD	225-803 225-1	73 87	CYC	225-01-02	95	
Silica, crystalline by IR		NIOSH 7602		0.05 mg/m³		400-800		2500		varies		IR	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1	87	
Silica, crystalline by VAS		NIOSH 7601	1041	0.05 mg/m³		400-800		2500		varies		VAS	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1	87	
Silica, crystalline cristobalite (respirable dust)		OSHA ID 142		[(10 mg/m³)/(%SiO₂+2)]/2		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Silica, crystalline quartz (respirable dust)		OSHA ID 142	1003	(10 mg/m³)/(%SiO₂+2)		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Silica, crystalline tridymite (respirable dust)		OSHA ID 142		[(10 mg/m³)/(%SiO₂+2)]/2		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	CST C/HLD	225-3LF 225-1	86 87	
Silica, crystalline tripoli (respirable dust)		OSHA ID 142		(10 mg/m³)/(%SiO₂+2)		varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Silica, fused (respirable dust)		OSHA ID 142				varies		varies		varies		GR & XRD	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Silicon		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Silicon (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Silicon (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Silicon (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 85	C/HLD CST	225-1 225-3LF	87 86	
Silicon carbide (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Silicon carbide (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Silicon carbide (respirable dust)		OSHA CSI		5 mg/m³		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 85	C/HLD CST	225-1 225-3LF	87 86	
Silicon carbide (total dust)		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Silicon tetrahydride (silane)		OSHA CSI				480		1000		8		AA-GF	IMP	225-36-2	59	IT	225-22	59	
Silver (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¥				250-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73	
Silver (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.01 mg/m³ (metal, sol)		250-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Silver (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 77	TMP	225-2403	or	
Silver, metal & soluble compounds (as Ag)		OSHA ID 121	1198	0.01 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Silver, metal & soluble compounds (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206	1279	0.01 mg/m³		960		2000		8		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Silvex		OSHA CSI										W	W	225-2401A	124				
Simazine		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42				
Simazine		NIOSH 5602				480		1000		8		GC-ECD	ST	226-58	36				
Simazine		OSHA CSI				120		1000		2		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Soapstone (respirable dust)		OSHA CSI		20 mppcf		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 85	C/HLD CST	225-1 225-3LF	87 86	
Soapstone (total dust)		OSHA CSI		20 mppcf		960		2000		8		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Sodium azide		OSHA ID 211				5		1000		5		IC-UV	ST CST C/HLD	226-55 225-2LF 225-1	36 86 87	FLT SPC	225-8-01 225-23	73 87	
Sodium bisulfite		OSHA ID 121	1203			960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium carbonate (see dust, respirable nuisance)		OSHA CSI																	
Sodium fluoride (fluorides)		NIOSH 7902		2.5 mg/m³		480	30	1000	2000	8	15	ISE	CF/CST	225-9001	61	C/HLD	225-1	87	
Sodium fluoride (fluorides)		NIOSH 7906		2.5 mg/m³		480		1000		8		IC-ECN	CF/CST	225-9001	61	C/HLD	225-1	87	
Sodium fluoroacetate		OSHA CSI		0.05 mg/m³		960	30	2000	2000	8	15	AA	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium hexafluoroaluminate (fluorides)		NIOSH 7902		2.5 mg/m³		480	30	1000	2000	8	15	ISE	CF/CST	225-9001	61	C/HLD	225-1	87	
Sodium hexafluoroaluminate (fluorides)		NIOSH 7906		2.5 mg/m³		480		1000		8		IC-ECN	CF/CST	225-9001	61	C/HLD	225-1	87	
Sodium hydroxide		OSHA ID 121	1042	2 mg/m³		960	30	2000	2000	8	15	AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium hydroxide (alkaline dust)		NIOSH 7401			2 mg/m³ (15 min)	360		1500		4		TITRA	FLT C/HLD	225-17-01 225-1	74 87	CST	225-3LF	86	
Sodium metabisulfite		OSHA ID 121				960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium metasilicate		OSHA CSI										NVM	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium nitrate		OSHA CSI				960		2000		8		AA or IC	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium nitrite		OSHA CSI				960		2000		8		AA or IC	F/CST	225-3-01	77	C/HLD	225-1	87	
Sodium o-phenyl phenate		OSHA CSI				10		20(50)		8(3.3)		GC-FID	F/CST C/HLD	225-706 225-1	79 87	ST	226-35	35	
Sodium polyacrylate (see super absorbent polymer)																			
Solanesol (environmental tobacco smoke, respirable particles)		ASTM D 6271				150-3600		2500		1-24		HPLC-UV	FLT CYC	225-2705 225-01-02	74 95	CST C/HLD	225-3LF 225-1	86 87	
Solder fume (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206				480		2000		4		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Solvents (skin)												CI	PCH	769-3050	122				
Soot (see elemental carbon)		NIOSH 5040										TOA-FID							
Spores (bacterial, fungal) (in air)						15-150		15000		1-10 min		varies	STC	225-9820	81				
Spores (bacterial, fungal) (in air)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊	225-9598A	105	
Sporothrix species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Sporothrix species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Stachybotrys chartarum (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Stachybotrys chartarum (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Stachybotrys species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Stachybotrys species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Stannous-2-ethyl hexanoate (tin, organic compounds [as Sn])		OSHA CSI				480		1000		8		AA-GF	ST	226-30-16	35				
Starch (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Starch (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Starch (see dust, total & respirable nuisance)																			
Stoddard solvent		OSHA 48		500		12		200		1		GC-FID	ST	226-01	35				
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	35				
Strontium		OSHA CSI				480		1000		8		AA	F/CST	225-3-01	77	C/HLD	225-1	87	
Strontium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶				10-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	77 87	F/CST	225-803	73	
Strontium (elements by ICP HNO₃ digestion)		NIOSH 7303				300-100,000,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Strontium (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	0.5 mg/m³		10-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Strontium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Strychnine		NIOSH 5016		0.15 mg/ m³ (10 hr)		180		1500		2		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Strychnine		OSHA CSI		0.15 mg/m³		1000		3000		5.5		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Styrene (phenylethylene)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
Styrene (phenylethylene)	●	NON 54				10	3	20	200	8	15	GC-FID	ST	226-81A	36				
Styrene (phenylethylene)	●	OSHA 09		100	200 (C)	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Styrene (phenylethylene)	●	OSHA 1014		100	200 (C)			13.55	13.55	8	15	HPLC-UV	PS	575-006	64				
Styrene (phenylethylene)	●	OSHA 89	1368	100	200 (C)	12	0.75	50	50	4	15	GC-FID	ST	226-73	36				
Styrene (phenylethylene) (hydrocarbons, aromatic)	●	NIOSH 1501		50	100	1-14	1-14	10-1000	10-1000	varies	varies	GC-FID	ST	226-01	35				
Styrene oxide		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-35	35				
Subtilisins (proteolytic enzymes)		OSHA CSI										Bulk							

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Sucrose (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD CST	225-1 225-3LF	87 86	
Sucrose (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Sucrose (see dust, total or dust, respirable nuisance)		OSHA CSI																	
Sudan I		OSHA CSI				90		1000		2		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Sudan III		OSHA CSI				90		1000		1.5		HPLC	F/CST	225-709	79	C/HLD	225-1	87	
Sulfamethazine		OSHA CSI				100		1000		1.5		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Sulfamic acid		OSHA CSI				100		1000		100 min		IC	F/CST	225-709	79	C/HLD	225-1	87	
m-Sulfobenzoic acid		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-3-01	77	C/HLD	225-1	87	
Sulfur (see dust, total & respirable nuisance)																			
Sulfur dioxide	●	NIOSH 6004	1331	2	5	180	15	1000	1000	3	15	IC	CF/CST	225-9005	61	C/HLD	225-1	87	
Sulfur dioxide	●	OSHA 1011		5 ppm		12	7.5	50	500	4	15	IC	ST	226-177	38				
Sulfur dioxide	●	OSHA ID 104		5		60	15	1000	1000	1	15	IC	F/CST IT	225-3-01 225-22	77 59	IMP	225-36-2	59	
Sulfur dioxide	●	OSHA ID 200	1461	5		12	1.5	100	100	2	15	IC	ST	226-80	36				
Sulfur dioxide (using prefilter)		OSHA ID 200	1622	5		12	1.5	100	100	2	15	IC	ST CST	226-80 225-3-23	36 86	FLT C/HLD	225-2708 225-1	74 87	
Sulfur hexafluoride by portable GC		NIOSH 6602	1023	1000		varies		20-100		varies		P GC-ECD	SB	232-03	or	SB	231-03	51	
Sulfur monochloride		OSHA CSI			1		5		1000		5	IC	IMP	225-36-2	59	IT	225-22	59	
Sulfur tetrafluoride		OSHA ID 110					5		1000		5	ISE	IMP	225-36-2	59	IT	225-22	59	
Sulfuric acid		OSHA ID 113	1465	1 mg/m³		480		2000		4		IC	F/CST	225-3-01	77	C/HLD	225-1	87	
Sulfuric acid		OSHA ID 113		0.2 mg/m³		480		2000		4		IC	PPI IS	225-381 225-388	96 96	FLT SP	225-5 225-27	76 87	
Sulfuric acid		OSHA ID 165SG		1 mg/m³		96		200		8		IC	ST	226-10-03	35				
Sulfuric acid (acids, inorganic)		NIOSH 7903	1016	1 mg/m³		48		200		4		IC	ST	226-10-03	35				
Sulfuric acid mist		ASTM D 4856	1431			40		1000		40 min		IC	F/CST	225-3-01	77	C/HLD	225-1	87	
Sulfuryl fluoride		NIOSH 6012		5	10	10		20		8		IC-ECN	ST	226-16	35				
Sulfuryl fluoride		OSHA CSI		5		24	1.5	100	100	4	15	IC	ST	226-16	35				
Sulprofos		OSHA PV2037				240		1000		4		GC-FPD	ST	226-30-16	35				
Sulprofos (organophosphorus pesticides)		NIOSH 5600		1 mg/m³		240		1000		4		GC-FPD	ST	226-58	36				
Super absorbent polymers		NIOSH 5035				960		2000		8		ICP-AES or AA	F/CST	225-802	73	C/HLD	225-1	87	
Syncephalastrum species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Syncephalastrum species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Systox (see demeton)																			
2,4,5-T		OSHA CSI		10 mg/m³		200		3000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Talc (containing asbestos) (see asbestos)		OSHA ID 160																	
Talc (respirable, with no asbestos)		OSHA CSI		20 mppcf		varies		varies		varies		GR	FLT CYC	225-8-01 225-105	73 94	C/HLD CST	225-1 225-3LF	87 86	
Tannin		OSHA CSI				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Tantalum (metal, oxide dusts)		OSHA CSI		5 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
2,4-TDI (toluene diisocyanate)		ASTM D 5932				15		1000		15		HPLC-UV-FD	CF/CST	225-9022	61	C/HLD	225-1	87	
2,4-TDI (toluene diisocyanate)		NIOSH 5522		LFC		360	20	1000	2000	6	10	HPLC-FD	IMP	225-36-1	59	IT	225-22	59	
2,4-TDI (toluene diisocyanate)		OSHA 42	1458		0.02 (C)	240	15	1000	1000	4	15	HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9002 225-1	or	CF/CST	225-9013	61	
2,6-TDI (toluene diisocyanate)		ASTM D 5932				15		1000		15		HPLC-UV-FD	CF/CST	225-9022	61	C/HLD	225-1	87	
2,6-TDI (toluene diisocyanate)		NIOSH 5522		LFC		360	20	1000	2000	6	10	HPLC-FD	IMP	225-36-1	59	IT	225-22	59	
2,6-TDI (toluene diisocyanate)		OSHA 42	1458				15		2000		15	HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9002 225-1	or	CF/CST	225-9013	61	
2, 4-TDI (toluene diisocyanate) (isocyanates, total)		NIOSH 5525		LFC		1-500		1000-2000		varies		HPLC-UV	FLT SP FLT	225-7 ‡ 225-27 225-702 ‡	79 or 79	CST IOM	225-4 225-76A	86 92	
2, 6-TDI (toluene diisocyanate) (isocyanates, total)		NIOSH 5525		LFC		1-500		1000-2000		varies		HPLC-UV	FLT SP FLT	225-7 ‡ 225-27 225-702 ‡	79 or 79	CST IOM	225-4 225-76A	86 92	
2,4-TDI (toluene diisocyanate) (isocyanates)		OR-OSHA 1010		0.02	0.005	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22	59	
2,6-TDI (toluene diisocyanate) (isocyanates)		OR-OSHA 1010		0.02	0.005	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22	59	
TEDP		OSHA CSI		0.2 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35				
Tellurium		OSHA ID 121		0.1 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tellurium		OSHA ID 132SG	1215	0.1 mg/m³		100 to 1000		1500 to 2000		varies		AA-GF	F/CST	225-3-01	77	C/HLD	225-1	87	
Tellurium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶		0.1 mg/m³		25-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or	F/CST	225-803	73	
Tellurium (elements by ICP HNO3 digestion)		NIOSH 7303		0.1 mg/m³		125-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tellurium (elements by ICP HNO3/HClO4 ashing)		NIOSH 7300	1455	0.1 mg/m³		25-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tellurium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Tellurium hexafluoride (as Te)		OSHA CSI		0.02		480		1000		8		AA	ST	226-01	35	F/CST	225-3-01	77	
Temephos (respirable dust)		OSHA PV2056		5 mg/m³		varies		varies		varies		GC-FPD	F/CST	225-706	79	C/HLD	225-1	87	
Temephos (total dust)		OSHA CSI		15 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35				
TEPP		OSHA CSI		0.05 mg/m³		480		1000		8		GC-FPD	ST	226-30-16	35				
Terbufos		OSHA CSI				480		1000		8		GC-FPD	ST	226-30-16	35				
Terbufos (organophosphorus pesticides)		NIOSH 5600				240		1000		4		GC-FPD	ST	226-58	36				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				SAMPLING ∞																
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time										
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number							
Terbutiuron		ASTM D 4861				240-7200		1000-5000		4-24		HPLC-UV	PUF	226-92	42					
Tergitol NP-33		OSHA CSI				100		1000		1.6		HPLC-UV	ST	226-57	36					
Terpenes (screening)		NIOSH 2549				5		20		4		GC-MS	ST	226-330	39					
Terpenes (see specific compounds)		NIOSH 1552	1463			24		50		8		GC-FID	ST	226-01	35					
o-Terphenyl		NIOSH 5021		0.5		30		2000		15		GC-FID	F/CST	225-1713	74	C/HLD	225-1	87		
o-Terphenyl (see terphenyls)		OSHA CSI																		
Terphenyls		OSHA CSI		1 (C)		8.5		1700		5		HPLC-FD	F/CST	225-709	79	C/HLD	225-1	87		
Terpineol	●	OSHA CSI				10		200		50 min		GC-FID	ST	226-01	35					
Testosterone		OSHA PV2001				60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87		
Tetrabromobisphenol A		OSHA CSI				100		1000		100 min		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87		
1,1,2,2-Tetrabromoethane		NIOSH 2003				96		200		8		GC-FID	ST	226-10	35					
Tetrabutyltin (organotin compounds as Sn)		NIOSH 5504		0.1 mg/m³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35 87	F/CST	225-709	79		
1,1,2,2-Tetrachloro-1,2-difluoroethane		NIOSH 1016		500		2		20		1.5		GC-FID	ST	226-01	35					
1,1,2,2-Tetrachloro-1,2-difluoroethane		OSHA 07	1182	500		2		50		40 min		GC-FID	ST	226-01	35					
1,1,1,2-Tetrachloro-2,2-difluoroethane		NIOSH 1016		500		2		20		1.5		GC-FID	ST	226-01	35					
1,1,1,2-Tetrachloro-2,2-difluoroethane		OSHA 07	1181	500		2		50		40 min		GC-FID	ST	226-01	35					
1,2,3,4-Tetrachlorobenzene		ASTM D 4861				240-7200		1000-5000		4-24		GC-ECD	PUF	226-124	42					
1,2,3,5-Tetrachlorobenzene		OSHA CSI				12		100		2		GC-ECD	FLT ST	225-17-03 226-30-04	74 35	CST C/HLD	Special order 225-1	87		
1,2,4,5-Tetrachlorobenzene (polychlorobenzenes)		NIOSH 5517				12		25		8		GC-ECD	FLT ST	225-17-03 226-30-04	74 35	CST C/HLD	Special order 225-1	87		
2,3,7,8-Tetrachlorodibenzo-p-dioxin		OSHA CSI				30		1000		0.5		NVM	IMP	225-36-1	59	IT	225-22	59		
2,3,7,8-Tetrachlorodibenzofuran		OSHA CSI				30		1000		0.5		NVM	IMP	225-36-1	59	IT	225-22	59		
1,1,2,2-Tetrachloroethane	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK		228 Series			
1,1,2,2-Tetrachloroethane	●	NIOSH 1019	1			24		50		8		GC-FID	ST	226-81A	36					
1,1,2,2-Tetrachloroethane		NIOSH 2562	1			3-30		10-200		varies		GC-FID	ST	NA SKC						
1,1,2,2-Tetrachloroethane	●	OSHA 07	5			30		200		2.5		GC-FID	ST	226-81A	36					
Tetrachloroethylene (hydrocarbons, halogenated)	●	NIOSH 1003	LFC			3		10-200		varies		GC-FID	ST	226-01	35					
Tetrachloroethylene (perchloroethylene)	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK		228 Series			
Tetrachloroethylene (perchloroethylene)	●	OSHA 07	100	200		24		50		8		GC-FID	ST	226-01	35					
Tetrachloroethylene (perchloroethylene)	●	OSHA 1001	1747	100	200 (C)	12	0.75	50	50	4	5	GC-FID	ST	226-01	35					
Tetrachloroethylene (perchloroethylene)	●	OSHA 1001	1747	100	200 (C)			13.06		8		5	GC-FID	PS	575-002	64				
Tetrachloroethylene (perchloroethylene) (portable GC)		NIOSH 3704	LFC			1		20-5000		varies		P GC	SB	232-01	50					
Tetrachloronaphthalene		OSHA CSI		2 mg/m³		90		1000		1.5		GC-FID	ST	226-30-16	35					
2,3,4,6-Tetrachlorophenol		OSHA 45				48		200		4		HPLC-UV	ST	226-97	37					
Tetraethyl lead (as Pb)		NIOSH 2533		0.075 mg/m³		120		1000		2			GC-PID	ST	226-30-04	35				
Tetraethyl lead (as Pb)		OSHA CSI		75 µg/m³		480		1000		8		AA	ST C/HLD	226-01 225-1	35 87	F/CST	225-706	79		
Tetraethyl pyrophosphate		NIOSH 2504		0.05 mg/m³		24		50		8		GC-FPD	ST	226-105	37					
Tetraethyl tin		OSHA 110		0.1 mg/m³		48		3	200	200	4	15	GC-FID	ST	226-95	37				
Tetraethylene glycol		NIOSH 5523				60		1000		1		GC-FID	ST	226-57	36					
Tetraethylene glycol diacrylate		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST	226-95	37					
Tetraethylene glycol dimethacrylate		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-95	37					
Tetraethylenepentamine		OSHA CSI				15		1000		15		HPLC-UV	FLT C/HLD	225-7 ‡ 225-1	79 87	CST	225-2LF	86		
Tetrahydrofuran	●	NIOSH 1609		200	250	9	1.5	20(50)	100	7(3)	15	GC-FID	ST	226-01	35					
Tetrahydrofuran	●	OSHA 07	1064	200		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35					
Tetrahydrofurfuryl acrylate		OSHA PV2131		1 mg/m³		48		200		4		GC-FID	ST	226-110	37					
Tetrakis(hydroxymethyl)phosphonium chloride		NIOSH 5046				1-480		1000-1700		varies		HPLC-UV	CF/CST	225-9003	61					
Tetramethyl lead (as Pb)		NIOSH 2534		75 µg/m³		96		200		8		GC-PID	ST	226-30-06	35					
Tetramethyl lead (as Pb)		OSHA CSI		75 µg/m³		480		1000		8		AA	F/CST C/HLD	225-709 225-1	79 87	ST	226-01	35		
Tetramethyl succinonitrile		OSHA 07	1183	0.5		10		20		8		GC-FID	ST	226-01	35					
Tetramethyl thiouram disulfide (see thiram)																				
Tetramethyl thiourea		NIOSH 3505				96		200		8		VAS	IMP	225-36-1	59	IT	225-22	59		
Tetramethyl tin		OSHA PV2057		0.1 mg/m³		20		200		100 min		GC-FID	ST	226-01	35					
1,2,3,4-Tetramethylbenzene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35					
1,2,3,5-Tetramethylbenzene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35					
1,2,4,5-Tetramethylbenzene	●	OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35					
Tetramethyldiaminobenzophenone		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87		
N,N,N',N'-Tetramethylethylenediamine		OSHA CSI				480		1000		8		GC-NPD	IMP	225-36-1	59	IT	225-22	59		
Tetranitromethane		NIOSH 3513	1			240		1000		4		GC-NPD	IMP	225-36-1	59	IT	225-22	59		
Tetranitromethane		OSHA CSI	1			240		1000		4		GC-NPD	IMP	225-36-1	59	IT	225-22	59		
Tetrasodium pyrophosphate		OSHA ID 111				960		2000		8		GR & IC	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87		
Tetrasodium pyrophosphate		OSHA ID 121				960		2000		8		AA or AES	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87		
Tetryl (2,4,6-trinitrophenyl-methylnitramine)		OSHA CSI		1.5 mg/m³		90		1500		1		CLR	F/CST	225-3-01	77	C/HLD	225-1	87		
Thallium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ‡		0.1 mg/m³ (skin, sol)		25-2000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803	73		
Thallium (elements by ICP HNO3 digestion)		NIOSH 7303		0.1 mg/m³ (skin, sol)		35-500,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87		

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Thallium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	0.1 mg/m ³ (skin, sol)		25-2000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Thallium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124	TMP	225-2403	or	
Thallium (soluble compounds) (as Tl)		OSHA ID 121	1202	0.1 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Thimet (phorate)		OSHA CSI				480	15	1000	1000	8	15	GC-FPD	ST	226-30-16	35				
Thiobencarb (organonitrogen pesticides)		NIOSH 5601				240		1000		4		HPLC-UV	ST	226-58	or	ST	226-30-16	35	
4,4'-Thiobis(6-tert-butyl-m-cresol) (respirable dust)		OSHA CSI		5 mg/m ³		varies		varies		varies		HPLC-UV	F/CST CYC	225-706 225-105	79	C/HLD	225-1	87	
4,4'-Thiobis(6-tert-butyl-m-cresol) (total dust)		OSHA CSI		15 mg/m ³		60		1000		1		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Thioglycolic acid		OSHA CSI				120		1000		2		HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
Thionyl chloride		OSHA CSI					15		1000		15	IC	IMP	225-36-2	59	IT	225-22	59	
Thiophanate		OSHA CSI				180		1000		3		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Thiophanate-methyl		OSHA PV2058				240		1000		4		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Thiophanate-methyl in air		NIOSH 5606				20-480		10-1000		varies		HPLC-UV	ST	226-58	36				
Thiophene		OSHA CSI				48		100		8		GC-FPD	ST	226-01	35				
Thiourea		OSHA PV2059				480		2000		4		HPLC-UV	F/CST	225-706	79	C/HLD	225-1	87	
Thiram		NIOSH 5005		5 mg/m ³		120		1000		2		HPLC-UV	FLT C/HLD	225-17-01 225-1	74	CST	225-2LF	86	
Thorium		OSHA CSI				960		2000		8		N ACT	F/CST	225-3-01	77	C/HLD	225-1	87	
L-Thyroxine		OSHA PV2117				240		1000		4		HPLC-UV	F/CST	225-709	79	C/HLD	225-1	87	
Tin (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶		2 mg/m ³		5-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or	F/CST	225-803	73	
Tin (elements by ICP HNO ₃ digestion)		NIOSH 7303		2 mg/m ³		1-25000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tin (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	2 mg/m ³		5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tin (ICP analysis of metal/metalloid particulates from solder operations)		OSHA ID 206		2 mg/m ³		480		2000		4		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tin (inorganic compounds, except oxides) (as Sn)		OSHA ID 121	1201	2 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tin (organic compounds, see specific compounds) (as Sn)		OSHA CSI																	
Tin (organic compounds) (as Sn) (organotin compounds)		NIOSH 5504		0.1 mg/m ³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35	F/CST	225-706	79	
Tin oxide ([stannous oxide] as Sn)		OSHA ID 121	1200	0.1 mg/m ³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Titanium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶				5-1000		1000-4000		varies		ICP-AES	F/CST C/HLD	225-3-01 225-1	or	F/CST	225-803	73	
Titanium (elements by ICP HNO ₃ digestion)		NIOSH 7303				0.1-10,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Titanium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455			5-100		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Titanium (see titanium dioxide)		OSHA CSI																	
Titanium dioxide (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73	C/HLD	225-1	87	
															95	CST	225-3LF	86	
Titanium dioxide (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73	C/HLD	225-1	87	
															86				
Titanium dioxide (total dust)		OSHA CSI		15 mg/m ³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73	C/HLD	225-1	87	
															86				
TNT (2,4,6-trinitrotoluene)		OSHA 44		1.5 mg/m ³		60		1000		1		GC-TEA-EAP	ST	226-56	36				
o-Tolidine		OSHA 71	1236			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
o-Tolidine based dyes		OSHA CSI				480		1000		8		HPLC-UV	FLT C/HLD	225-17A 225-1	74	CST	225-3LF	86	
															87				
o-Tolidine dyes (dyes, benzidine)		NIOSH 5013		LFC		480		1000		8		HPLC-UV	FLT C/HLD	225-17A 225-1	74	CST	225-3LF	86	
															87				
m-Tolualdehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120 ○	or	ST	226-119	37	
o-Tolualdehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120 ○	or	ST	226-119	37	
p-Tolualdehyde		ASTM D 5197				varies		500-1200		5 min-24 hrs		HPLC-UV	ST	226-120 ○	or	ST	226-119	37	
o-Toluidine		OSHA CSI		5 mg/m ³		240		1000		4		HPLC	F/CST	225-709	79	C/HLD	225-1	87	
Toluene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK		228 Series		
Toluene	●	OSHA 07		200	300	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Toluene	●	OSHA 111	1748	200	300 (C)	12	0.5	50	50	4	10	GC-FID	ST	226-81A	36	ST	226-01	35	
Toluene (hydrocarbons, aromatic)	●	NIOSH 1501		100	150	1-8	1-8	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
2,4-Toluene diisocyanate		ASTM D 5836	1432			15		1000		15		HPLC-UV or HPLC-FD	CF/CST	225-9002	61	C/HLD	225-1	87	
2,4-Toluene diisocyanate		ASTM D 5932				15		1000		15		HPLC-UV-FD	CF/CST	225-9022	61	C/HLD	225-1	87	
2,4-Toluene diisocyanate		OSHA 42	1458		0.02 (C)	240	15	1000	1000	4	15	HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9002 225-1	or	CF/CST	225-9013	61	
2,6-Toluene diisocyanate		ASTM D 5836	1432			15		1000		15		HPLC-UV or HPLC-FD	CF/CST	225-9002	61	C/HLD	225-1	87	
2,6-Toluene diisocyanate		ASTM D 5932				15		1000		15		HPLC-UV-FD	CF/CST	225-9022	61	C/HLD	225-1	87	
2,6-Toluene diisocyanate		OSHA 42	1458			240		1000		4		HPLC-UV or HPLC-FD	CF/CST C/HLD	225-9002 225-1	or	CF/CST	225-9013	61	
2,4-Toluene diisocyanate (isocyanates, total)		NIOSH 5525		LFC		1-500		1000-2000		varies		HPLC-UV	FLT SP	225-7 ‡ 225-27	79	CST	225-4	86	
													FLT	225-702 ‡	79	IOM	225-76A	92	
2,6-Toluene diisocyanate (isocyanates, total)		NIOSH 5525		LFC		1-500		1000-2000		varies		HPLC-UV	FLT SP	225-7 ‡ 225-27	79	CST	225-4	86	
													FLT	225-702 ‡	79	IOM	225-76A	92	
2,4-Toluene diisocyanate (isocyanates)		NIOSH 5521		LFC		480	10	1000	1000	8	10	HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT	225-22	59	

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

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				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
2,4-Toluene diisocyanate (isocyanates)		OR-OSHA 1010		0.02	0.005	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22	59	
2,6-Toluene diisocyanate (isocyanates)		NIOSH 5521		LFC		480		1000		8		HPLC-ELCHM & HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
2,6-Toluene diisocyanate (isocyanates)		OR-OSHA 1010		0.02	0.005	45	5	1000	1000	45 min	5	HPLC	IMP CF/CST	225-36-1 225-9029	59 61	IT	225-22	59	
p-Toluene sulfonic acid		NIOSH 5043				960	45	2000	3000	8	15	HPLC-UV	FLT	225-16	79	CST	225-32	87	
p-Toluene sulfonic acid		OSHA CSI				120		1000		2		HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
Toluene-2,4-diamine		OSHA 65	1237		0.02 (C)	100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
2,4-Toluenediamine		NIOSH 5516		LFC		480		1000		8		HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
2,4-Toluenediamine		OSHA 65	1237		0.02 (C)	100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
2,6-Toluenediamine		NIOSH 5516		LFC		480		1000		8		HPLC-UV	IMP	225-36-1	59	IT	225-22	59	
2,6-Toluenediamine		OSHA 65	1237			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
2,6-Toluenediamine		OSHA 65	1237			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
m-Toluidine		OSHA 73	1230			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
o-Toluidine		NIOSH 2017		LFC		24		200		2		GC-FID	CF/CST	225-9004	61	ST	226-15	35	
o-Toluidine		OSHA 73	1230	5		100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
p-Toluidine		OSHA 73	1230			100		1000		100 min		GC-ECD	CF/CST	225-9004	61	C/HLD	225-1	87	
o-Toluidine (amines, aromatic)		NIOSH 2002	1057	LFC		48		100		8		GC-FID or GC-NSD	ST	226-10	35				
o-Toluidine based dyes		OSHA CSI				480		1000		8		HPLC-UV	FLT C/HLD	225-17-04 225-1	74 87	CST	225-3LF	86	
Torak		OSHA CSI										W	W	225-2401A	124				
Torula species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Torula species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Toxaphene																			
Tremolite (see asbestos fibers)		NIOSH 7400																	
Tremolite fibers (see asbestos)		OSHA ID 160																	
Triallyl isocyanurate		OSHA CSI				10		20(50)		8(3.3)		GC-NPD	ST	226-01	35				
Triazine pesticides		ASTM D 4861				960		2000		8		GC-ECD	PUF	226-92	42				
Tributyl phosphate		NIOSH 5034		0.2		90		1500		1		GC-FPD	F/CST	225-3-01	77	C/HLD	225-1	87	
Tributyl phosphate		OSHA CSI		5 mg/m³		90		1500		1		GC-FPD	F/CST	225-3-01	77	C/HLD	225-1	87	
Tributyl phosphorotrithioate		OSHA CSI				480		1000		8		GC-FPD	IMP	225-36-1	59	IT	225-22	59	
Tributyl phosphorotrithioate		OSHA CSI				480		1000		8		GC-FID	IMP	225-36-1	59	IT	225-22	59	
Tributyltin benzoate (tin, organic compounds [as Sn])		OSHA ID 222SG				200		2000		100 min		AA-GF	F/CST	225-803	73	C/HLD	225-1	87	
Tributyltin chloride (organotin compounds as Sn)		NIOSH 5504		0.1 mg/m³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35 87	F/CST	225-709	79	
Tributyltin fluoride (tin, organic compounds [as Sn])		OSHA ID 223SG				200		2000		100 min		AA-GF	F/CST	225-803	73	C/HLD	225-1	87	
Tributyltin neodecanoate (see tin, organic compounds)																			
Trichlorfon		OSHA CSI				390		1000		6.5		GC-FPD	ST	226-30-16	35				
1,1,2-Trichloro-1,2,2-trifluoroethane		OSHA 113		1000		1		50		20 min		GC-FID	ST	NA SKC					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	●	NIOSH 1020	1061	1000	1250	2.4	0.3	20	20	2	15	GC-FID	ST	226-01	35				
1,1,1-Trichloro-2,2,2-trifluoroethane		OSHA CSI				3		20		2.5		GC-FID	ST	226-01	35				
Trichloroacetic acid		OSHA PV2017				10		200		50		HPLC-UV	ST	226-10	35				
1,2,3-Trichlorobenzene		ASTM D 4861				240-7200		1000- 5000		4 to 24		GC-ECD	PUF	226-124	42				
1,2,3-Trichlorobenzene		OSHA CSI				12		50		4		GC-ECD	FLT ST	225-17-03 226-30-04	74 35	CST C/HLD	Special order 225-1	87	
1,2,4-Trichlorobenzene		ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
1,2,4-Trichlorobenzene		OSHA CSI				5		1000		5		GC-ECD	FLT ST	225-17-03 226-30-04	74 35	CST C/HLD	Special order 225-1	87	
1,2,4-Trichlorobenzene (polychlorobenzenes)		NIOSH 5517		5		12	3	25	200	8	15	GC-ECD	FLT ST	225-17-03 226-30-04	74 35	CST C/HLD	Special order 225-1	87	
1,1,2-Trichloroethane	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
1,1,2-Trichloroethane	●	OSHA 11	1071	10		10		200		1		GC-FID	ST	226-01	35				
1,1,2-Trichloroethane (hydrocarbons, halogenated)	●	NIOSH 1003		10 (skin)		10		10-200		varies		GC-FID	ST	226-01	35				
1,1,1-Trichloroethane (methyl chloroform) (hydrocarbons, halogenated)	●	NIOSH 1003			350		3		10-200		varies	GC-FID	ST	226-01	35				
Trichloroethylene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series	PK	228 Series			
Trichloroethylene	●	OSHA 07	1184	100	200 (C)	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Trichloroethylene	●	OSHA 1001	1747	100	200 (C)	12	0.75	50	50	4	5	GC-FID	ST	226-01	35				
Trichloroethylene	●	OSHA 1001	1747	100	200 (C)			14.24		8	5	GC-FID	PS	575-002	64				
Trichloroethylene (hydrocarbons, halogenated)		NIOSH 1003				10		10-200		varies		GC-FID	ST	226-01	35				
Trichloroethylene by portable GC		NIOSH 3701	1030	25	2 (1 hr)	varies	varies	20-50	varies	varies	varies	P GC-PID	SB	232 Series	50				
Trichlorofluoromethane (fluorotrichloromethane)		NIOSH 1006			1000		5		20		240	GC-FID	ST	226-09	35				
Trichloronaphthalene		OSHA CSI		5 mg/m³		90		1000		1.5		GC-ECD	ST	226-30-16	35				
Trichloronitromethane		NON 51		0.1		144		100		24		GC-MSD	ST	226-175	38				
2,4,5-Trichlorophenol		ASTM D 4861				240-7200		1000- 5000		4 to 24		GC-ECD	PUF	226-92	42				
2,4,5-Trichlorophenoxyacetic acid (see 2,4,5-T)																			
1,2,3-Trichloropropane	●	OSHA 07	1185	50		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
1,2,3-Trichloropropane (hydrocarbons, halogenated)	●	NIOSH 1003		10 (skin)		0.6-60		10-200		varies		GC-FID	ST	226-01	35				
2,3,6-Trichlorotoluene		OSHA CSI				10		20(50)		8(3.3)		GC-FID	ST	226-01	35				

Agency standards for OSHA listings represent the OSHA PELs reported in the 29 CFR 1910.1000 Part 1910, Section 1000.

References and abbreviations are found on pages 196-197.

				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Trichoderma species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Trichoderma species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Tricyclohexyltin hydroxide (organotin compounds as Sn)		NIOSH 5504		0.1 mg/m³		480		1000		8		HPLC & AA-GF	ST C/HLD	226-30 225-1	35	F/CST	225-709	79	
Tridymite (silica, crystalline [respirable]) by XRD		NIOSH 7500	1370	0.05 mg/m³		400-1000		2500		varies		XRD	F/CST C/HLD	225-803 225-1	73	CYC	225-01-02	95	
Tridymite (silica, crystalline by IR)		NIOSH 7602		0.05 mg/m³		400-800		2500		varies		IR	F/CST CYC	225-803 225-01-02	73	C/HLD	225-1	87	
Triethanolamine (TEA)		OSHA PV2141				120		1000		2		GC-FID	F/CST	225-709	79	C/HLD	225-1	87	
Triethanolamine (TEA) (aminoethanol compounds II)		NIOSH 3509				240		1000		4		IC	IMP	225-36-1	59	IT	225-22	59	
Triethylamine	●	OSHA PV2060	25		5	3		100	200	50 min	15	GC-FID	ST	226-98	37				
Triethylene glycol		NIOSH 5523			60			1000		1		GC-FID	ST	226-57	36				
Triethylenetetramine (TETA)		OSHA 60	1286		10			100		100 min		HPLC-UV	ST	226-30-18	35				
Trifluorobromomethane		NIOSH 1017		1000		1		20		50 min		GC-FID	ST	226-01	35	ST	226-09	35	
2,2,2-Trifluoroethanol		OSHA CSI			5			20		4		GC-FID	ST	226-01	35				
Trifluoromethyl benzene (benzotrifluoride, OXSOL 2000)	●				100							GC-FID	PS	575-001	or	PS	575-002	64	
Trifluoromonobromomethane		OSHA 07		1000		1		20		50 min		GC-FID	ST	226-01	35	ST	226-09	35	
Trifluoromonobromomethane (trifluorobromomethane)		NIOSH 1017		1000		1		20		50 min		GC-FID	ST	226-01	35	ST	226-09	35	
Trifluralin		ASTM D 4861				240-7200		1000- 5000		4 to 24		GC-ECD	PUF	226-92	42				
Trifluralin		OSHA CSI				48		100		8		HPLC-UV	ST	226-56	36				
1,3,5-Triglycidyl isocyanurate		OSHA PV2055			60			1000		1		GC-ECD	CF/CST	225-9027	61	C/HLD	225-1	87	
Trimellitic anhydride (TMA)		NIOSH 5036		0.005 (10 hr)		960		2000		8		GC-FID	F/CST	225-802	73	C/HLD	225-1	87	
Trimellitic anhydride (TMA)		OSHA 98				480		2000		4		HPLC-UV	CF/CST	225-9010	†	61	C/HLD	225-1	87
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate		OSHA PV2002			10			100		100 min		GC-FID	ST	226-110	37				
Trimethylamine		OSHA CSI			10	1.5		100	100	100 min	15	GC-NPD	ST	226-98	37				
1,2,3-Trimethylbenzene	●	OSHA PV2091			10			100		100 min		GC-FID	ST	226-01	35				
1,2,4-Trimethylbenzene	●	ASTM D 5466			6			varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
1,2,4-Trimethylbenzene	●	OSHA PV2091			10			100		100 min		GC-FID	ST	226-01	35				
1,3,5-Trimethylbenzene (mesitylene)	●	ASTM D 5466			6			varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
1,3,5-Trimethylbenzene (mesitylene)	●	OSHA PV2091			10			100		100 min		GC-FID	ST	226-01	35				
Trimethylolethane trinitrate		OSHA CSI			15			1000		15 min		HPLC-UV	ST	226-35-03	36				
Trimethylolpropane triacrylate		OSHA CSI			10			20(50)		8(3.3)		HPLC-UV	ST	226-95	37				
Trimethyltin dichloride		NIOSH 5526		0.1 mg/m³		60	60	250	1000	4	60	GC-FPD	ST	226-30-16	35				
2,4,7-Trinitro-9-fluorenone		OSHA CSI				480		1000		8		HPLC-UV	FLT C/HLD	225-17A 225-1	74	CST	225-3LF	86	
2,4,7-Trinitrofluorene-9-one		NIOSH 5018				480		3000		2.7		HPLC-UV	FLT C/HLD	225-17-04 225-1	74	CST	225-3LF	86	
2,4,6-Trinitrotoluene (TNT)		OSHA 44		1.5 mg/m³		60		1000		1		GC-TEA-EAP	ST	226-56	36				
Triorthocresyl phosphate		NIOSH 5037		0.1 mg/m³		90		1000		1.5		GC-FPD	F/CST	225-3-01	77	C/HLD	225-1	87	
Triphenyl phosphate		NIOSH 5038		3 mg/m³		240		1000		4		GC-FPD	F/CST	225-3-01	77	C/HLD	225-1	87	
Triphenyl tin chloride (as Sn)		NIOSH 5527		0.1 mg/m³ (skin)		100-2000		1000-4000		varies		HPLC & ICP-AES	FLT C/HLD	225-8-01-1 225-1	73	SP	225-27	87	
Triphenylamine		OSHA CSI				240		1000		4		HPLC-UV	IMP	225-36-2	59	IT	225-22	59	
Triphenyltin fluoride (tin, organic compounds [as Sn])		OSHA CSI		0.1 mg/m³		960		2000		8		AA-GF	F/CST	225-709	79	C/HLD	225-1	87	
Triphenyltin hydroxide (tin, organic compounds [as Sn])		OSHA ID 225SG		0.1 mg/m³		200		2000		100 min		AA-GF	F/CST	225-709	79	C/HLD	225-1	87	
Tripropylene glycol diacrylate		OSHA CSI				10		20(50)		8(3.3)		HPLC-UV	ST	226-95	37				
Tripropylene glycol diacrylate (TPGDA)		NON 39				480		1000		8		GC-FID	ST	226-56	36				
Trydymite (silica, crystalline by VAS)		NIOSH 7601	1041	0.05 mg/m³		400-800		2500		varies		VAS	F/CST CYC	225-803 225-01-02	73	C/HLD	225-1	87	
Trypsin		OSHA CSI				480		2000		4		IRA	F/CST	225-1713	74	C/HLD	225-1	87	
Tuberculosis (mycobacterium tuberculosis), airborne		NIOSH 0900				1920		4000		8		PCR	FLT CST	225-2705 225-3LF	74	SP	225-27	87	
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 C/HLD	225-3-01 225-1	or	F/CST	225-803	73	
Tungsten (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	5 mg/m³	10 mg/m³	5-1000	5-1000	1000-4000	1000-4000	varies	varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Tungsten & compounds (insoluble) (as W)		OSHA ID 213				480	30	2000	2000	4	15	ICP	F/CST	225-3-01	77	C/HLD	225-1	87	
Tungsten & compounds (soluble) (as W)		OSHA ID 213				480	30	2000	2000	4	15	ICP	F/CST	225-3-01	77	C/HLD	225-1	87	
Tungsten insoluble		NIOSH 7074		5 mg/m³	10 mg/m³	480		1000		8		AA-F	F/CST	225-3-01	77	C/HLD	225-1	87	
Tungsten soluble		NIOSH 7074		1 mg/m³	3 mg/m³	480		1000		8		AA-F	F/CST	225-3-01	77	C/HLD	225-1	87	
Turpentine		NIOSH 1551		100		10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
n-Undecane (hydrocarbons, BP 36 to 216 C)	●	NIOSH 1500		2		2		10 - 50		varies		GC-FID	ST	226-01	35				
Uranium (as U) soluble compounds		OSHA CSI		0.05 mg/m³		960		2000		8		DPCSP	F/CST	225-803	73	C/HLD	225-1	87	
Uranium (insoluble compounds)		OSHA CSI		0.25 mg/m³		960	30	2000	2000	8	15	ICP	F/CST	225-3-01	77	C/HLD	225-1	87	
Uranium (soluble compounds)		OSHA ID 170SG		0.05 mg/m³		240		2000		2		POL	F/CST	225-803	73	C/HLD	225-1	87	
Urea pesticides		ASTM D 4861				240-7200		1000-5000		4 to 24		GC-ECD	PUF	226-92	42				
n-Valeraldehyde		ASTM D 5197				varies		500-1200		5 min to 24 hrs		HPLC-UV	ST	226-120	●	or	ST	226-119	37
n-Valeraldehyde		NIOSH 2536		50		10		20		8		GC-FID	ST	226-118	37				
n-Valeraldehyde		OSHA 85				3		50		1		HPLC-UV	CF/CST	225-9020	61	C/HLD	225-1	87	

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Sampling Guide

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Chemical Hazard	Passive Guide	Agency Reference	Chem F File	Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
				TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)								
n-Valeraldehyde (aldehydes, screening)		NIOSH 2539		50		5		20		4		GC-FID & GC-MS	ST	226-118	37				
Vanadium (elements by ICP HNO ₃ digestion)		NIOSH 7303			0.05 mg/m ³		2.5-500,000		1000-4000		varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1 87		
Vanadium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455		0.05 mg/m ³		5-2000		1000-4000		varies	ICP-AES	F/CST	225-3-01	77	C/HLD	225-1 87		
Vanadium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶			0.05 mg/m ³		5-2000		1000-4000		varies	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-803 73		
Vanadium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403 or		
Vanadium fume (as V ₂ O ₅)		OSHA ID 125G		0.05 mg/m ³	0.1	480	20	2000	1000	4	20	ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100 77		
Vanadium oxides		NIOSH 7504			0.05 mg/m ³ (15 min)	600		2600		4		XRD	F/CST CYC	225-803 225-01-02	73 95	C/HLD	225-1 87		
Vanadium pentoxide (V ₂ O ₅) (see vanadium oxides)		NIOSH 7504																	
Vanadium pentoxide (V ₂ O ₅) (confirmation of)		OSHA ID 185		0.05 mg/m ³	0.05 mg/m ³	varies		varies		varies		XRD	F/CST C/HLD	225-803 225-1	73 87	CYC	225-105 94		
Vanadium respirable dust (as V ₂ O ₅)		OSHA ID 125G			0.5 mg/m ³		varies		varies		varies	ICP-AES	F/CST C/HLD	225-3-01 225-1	77 87	CYC	225-105 94		
Vanadium trioxide (see vanadium oxides)		NIOSH 7504																	
Vegetable oil mist (see dust, respirable & total nuisance)		OSHA CSI																	
Vermiculite (see dust, total & respirable nuisance)																			
Verticillium species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1 87		
Verticillium species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Vinyl acetate	●	NON 21				24		50		8		GC	ST	226-68	36				
Vinyl acetate	●	OSHA 51				24	3	100	200	4	15	GC-FID	ST	NA SKC					
Vinyl bromide	●	NIOSH 1009		LFC		10		20(50)		8(3.3)		GC-FID	ST	226-09	35				
Vinyl bromide	●	OSHA 08	1074			5		20		4		GC-FID	ST	226-01	35				
Vinyl chloride	●	ASTM D 4766	1434			24		100 or 50		4 or 8		GC-FID	ST	226-16	35				
Vinyl chloride	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Vinyl chloride	●	NIOSH 1007		LFC		5		50		1.6		GC-FID	ST	226-01	35				
Vinyl cyclohexene dioxide		OSHA PV2083				10		20(50)		8(3.3)		GC-FID	ST	226-30	35				
Vinyl toluene	●	OSHA 07	100			10		20(50)		8(3.3)		GC-FID	ST	226-01	35				
N-Vinyl-2-pyrrolidinone		OSHA PV2106				10		100		100 min		GC-FID	ST	226-01	35				
Vinylidene chloride	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
Vinylidene chloride	●	NIOSH 1015		LFC		5		20		4		GC-FID	ST	226-01	35				
Vinylidene chloride	●	OSHA 19				3	3	200	200	15 min	15	GC-FID	ST	226-01	35				
Viruses (in air)		NON 48				62.5-375		12500 +		5-30		varies	BS	225-9595	105	VT ◊	225-9598A 105		
VM&P naphtha		OSHA 48				3	3	20	200	2.5	15	GC-FID	ST	226-01	35				
VM&P naphtha (naphthas)		NIOSH 1550		350 mg/m ³	1800 mg/m ³	10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
VOCs (volatile organic compounds) (canister) (see Environmental Sampling Guide)		EPA IP-1A																	
VOCs (volatile organic compounds) (canister) (see Environmental Sampling Guide)		EPA TO-14A																	
VOCs (volatile organic compounds) (canister) (see Environmental Sampling Guide)		EPA TO-15																	
VOCs (volatile organic compounds) (passive sampler) (see Environmental Sampling Guide)		EPA IP-1B																	
VOCs (volatile organic compounds) (passive sampler) (see Environmental Sampling Guide)		EPA TO-17																	
VOCs (volatile organic compounds) (sample bag) (see Environmental Sampling Guide)		EPA 0040																	
VOCs (volatile organic compounds) (sorber tube) (see Environmental Sampling Guide)		EPA IP-1B																	
VOCs (volatile organic compounds) (sorber tube) (see Environmental Sampling Guide)		EPA TO-17																	
VOCs (volatile organic compounds) (VOST) (see Environmental Sampling Guide)		EPA 0031																	
Volatile organic compounds (screening)		NIOSH 2549				5		20		4		GC-MS	ST	226-330	39				
Vydate (oxamyl)		OSHA CSI				60		1000		1		HPLC	ST	226-30-16	35				
Wallemia species (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1 87		
Wallemia species (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Warfarin		NIOSH 5002		0.1 mg/m ³		360		1500		4		HPLC-UV	FLT C/HLD	225-17-01 225-1	74 87	CST	225-2LF 86		
Welding fumes (total particulate)		OSHA ID 125G				480		2000		4		ICP-AES	F/CST C/HLD	225-3-01 225-1	or 87	F/CST	225-3100 77		
Wemicide CW 104		OSHA CSI				480		1000		8		HPLC-UV	ST	226-30-16	35				
Wollastonite (see dust, total & respirable nuisance)		OSHA CSI																	
Wood alcohol (methanol)		NIOSH 2000		200	250	5	3	20	200	4	15	GC-FID	ST	226-51	36				
Wood dust (except western red cedar)		OSHA CSI				960	30	2000	2000	8	30	GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1 87		
Wood dust (western red cedar)		OSHA CSI		2.5 mg/m ³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1 87		
Wood dust, hardwood		OSHA CSI		15 mg/m ³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1 87		

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				SAMPLING ∞								www.skcinc.com for updates							
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time									
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number						
Wood dust, softwood		OSHA CSI		15 mg/m³		960		2000		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Wood spirit (methanol)		NIOSH 2000		200	250	5	3	20	200	4	15	GC-FID	CAN	226-51	36				
m-Xylene	●	ASTM D 5466				6		varies		varies		GC-MS	ST	228 Series		PK	228 Series		
m-Xylene		OSHA 1002	1746	100				13.82		8		GC-FID	PS	575-002	64				
o-Xylene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
o-Xylene		OSHA 1002	1746	100				14.24		8		GC-FID	PS	575-002	64				
p-Xylene	●	ASTM D 5466				6		varies		varies		GC-MS	CAN	228 Series		PK	228 Series		
p-Xylene		OSHA 1002	1746	100				13.94		8		GC-FID	PS	575-002	64				
m-Xylene (hydrocarbons, aromatic)	●	NIOSH 1501		100		2-23		10-200		varies		GC-FID	ST	226-01	35				
o-Xylene (hydrocarbons, aromatic)	●	NIOSH 1501		100	150	2-23	2-23	10-200	10-200	varies	varies	GC-FID	ST	226-01	35				
p-Xylene (hydrocarbons, aromatic)	●	NIOSH 1501		100		2-23		10-200		varies		GC-FID	ST	226-01	35				
Xylene (o-, m-, & p-isomers)	●	OSHA 07	1186	100		10	3	20(50)	200	8(3.3)	15	GC-FID	ST	226-01	35				
Xylene (o-, m-, & p-isomers)	●	OSHA 1002	1746	100		12		50		4		GC-FID	ST	226-01	35				
m-Xylenediamine (mXDA)		OSHA 105	1405				15		1000		15	HPLC-UV	CF/CST	225-9004	61	C/HLD	225-1	87	
p-Xylenediamine (pXDA)		OSHA 105	1405				15		1000		15	HPLC-UV	CF/CST	225-9004	61	C/HLD	225-1	87	
Xylidine		OSHA CSI		5		24		50		8		GC-FID	ST	226-10	35				
2,4-Xylidine (amines, aromatic)		NIOSH 2002	1056	2		10		20(50)		8(3.3)		GC-FID or GC-NSD	ST	226-10	35				
Yeast (fungi, molds, spores)		OSHA CSI				120		1000		2		varies	F/CST	225-3-01	77	C/HLD	225-1	87	
Yeast (fungi, molds, spores)		OSHA CSI				141.5		28,300		5 min		varies	BI	225-9611	103				
Yttrium		OSHA ID 121		1 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Yttrium (elements by ICP HNO₃ digestion)		NIOSH 7303				0.1-50,000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Yttrium (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶				5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01 or 225-1	77	F/CST	225-803	73	
Yttrium (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455			5-1000		1000-4000		varies		ICP-AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Yttrium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
Zectran		OSHA CSI										W	W	225-2401A	124				
Zinc		OSHA ID 121	1204			960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Zinc		OSHA ID 125G				480		2000		4		ICP-AES	F/CST	225-3-01 or 225-1	77	F/CST	225-3100	77	
Zinc (elements by ICP Aqua Regia ashing)		NIOSH 7301 ¶				5-200		1000-4000		varies		ICP-AES	F/CST	225-3-01 or 225-1	77	F/CST	225-803	73	
Zinc (elements by ICP HNO₃ 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	77	C/HLD	225-1	87	
Zinc (elements by ICP HNO₃/HClO₄ ashing)		NIOSH 7300	1455	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	77	C/HLD	225-1	87	
Zinc (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W TMP	225-2414 225-2415	124 124	TMP	225-2403	or	
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	77	C/HLD	225-1	87	
Zinc bromide (see dust, total & nuisance)																			
Zinc chloride fume		OSHA ID 121	1207	1 mg/m³		960	30	2000	2000	8	15	AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	
Zinc chloride fume		OSHA ID 125G		1 mg/m³		480	30	2000	2000	4	15	ICP-AES	F/CST	225-3-01 or 225-1	77	F/CST	225-3100	77	
Zinc chromate (CR(VI))		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		8		IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87	
Zinc chromates (as CrO₃)		OSHA ID 215 (V2)	1439	0.005 mg/m³		960		2000		15		IC-UV	F/CST	225-802 Ω	73	C/HLD	225-1	87	
Zinc dibutylthiocarbamate		OSHA PV2065				180		1000		3		HPLC-UV	ST	226-30-16	35				
Zinc oxide		NIOSH 7502		5 mg/m³	15 mg/m³ (15 min)	240	30	1000	2000	4	15	XRD	FLT	225-807	73	CST	225-3-23	86	
Zinc oxide (elements by ICP HNO₃ 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	77	C/HLD	225-1	87	
Zinc oxide (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD	225-1	87	
Zinc oxide (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Zinc oxide dust (see dust, total & respirable)		OSHA CSI																	
Zinc oxide fume		OSHA ID 121		5 mg/m³		960	30	2000	2000	8	15	AA or AES	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Zinc oxide fume		OSHA ID 125G		5 mg/m³		480	30	2000	2000	4	15	ICP-AES	F/CST	225-3-01 or 225-1	77	F/CST	225-3100	77	
Zinc oxide fume		OSHA ID 143		5 mg/m³		960	30	2000	2000	8	15	XRD	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
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	77	C/HLD	225-1	87	
Zinc stearate (particulates, respirable)		NIOSH 0600	1038			375		2500		2.5		GR	FLT CYC	225-8-01 225-01-02	73 95	C/HLD	225-1	87	
Zinc stearate (particulates, total)		NIOSH 0500	1035			120		2000		1		GR	FLT CST	225-8-01 225-2LF	73 86	C/HLD	225-1	87	
Zinc stearate (respirable dust)		OSHA CSI		5 mg/m³		912		1900		8		GR	FLT CST	225-8-01 225-3LF	73 86	C/HLD	225-1	87	
Zinc stearate (total dust)		OSHA ID 121		15 mg/m³		960		2000		8		AA or AES	F/CST	225-3-01	77	C/HLD	225-1	87	

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				SAMPLING ∞													
				Agency Standard		Vol. (liter)		Rate (ml/min)		Time							
Chemical Hazard	Passive Guide	Agency Reference	Chem F File	TWA (ppm)	CLG/STEL (ppm)	TWA	CLG/STEL	TWA	CLG/STEL	TWA (hrs)	CLG/STEL (ppm)	Analytical Method	SKC Collecting Equipment & Page Number				
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	77			
Zineb		OSHA 107				500		2000		250 min		HPLC-UV	F/CST 225-3-01	77	C/HLD 225-1	87	
Ziram		OSHA PV2073				120		1000		2		HPLC-UV	ST 226-30-16	35			
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	73			
Zirconium (elements by ICP HNO ₃ /HClO ₄ ashing)		NIOSH 7300	1455	5 mg/m³	10 mg/m³	5-200	5-200	1000-4000	1000-4000	varies	varies	ICP-AES	F/CST 225-3-01	77	C/HLD 225-1	87	
Zirconium (elements on wipes)		NIOSH 9102				wipe						ICP-AES	W 225-2414 124 TMP 225-2403	or			
												TMP 225-2415	124				
Zirconium compounds (as Zr)		OSHA ID 121		5 mg/m³		960	30	2000	2000	8	15	AA or AES	FLT 225-8-01 73 C/HLD 225-3LF 86			87	

Symbols and Notes

[∞] The sampling parameters shown are suggestions based on the ranges of volume, flow, and time specified in the methods. It is the responsibility of the analyst performing the sampling and analysis to adjust parameters so that the required detection limits can be obtained. It is the responsibility of the user to research published methods to determine validation level and suitability for unique applications.

C Ceiling Value

CSI OSHA Chemical Sampling Information

EL Excursion Limit

LFC NIOSH standard: Lowest Feasible Concentration

LOQ Limit of Quantitation

NA SKC Not available from SKC

NON Non-agency reference

NVM No validated method

OEL U.S. Army Occupational Exposure Limit

OR-OSHA Oregon OSHA method and target concentrations

PV Provisional Method

Special

order Because of limited shelf-life, certain sampling media are available only as special order items.

** Optional, use filter if particulates are present

‡ Filter or tube must be chemically treated before sampling.

♣ Modified procedure or sampler

◇ Other collection liquids may be more suited to target microorganisms.

¥ This method does not digest PVC filters (Cat. No. 225-803) completely.

Δ 1.0-micron PTFE filter is a NIOSH recommended substitute filter for the 0.8-micron PVC filter originally recommended in NIOSH Method 7904.

Σ Use an oxidizer tube if sulfur dioxide is present.

+ Sonic flow

° Use sorbent tube Cat. No. 226-120 when sampling in atmospheres containing ozone.

†† Special order/limited shelf-life; contact SKC

▼ The MOPIP Derivatizing Solution, Cat. No. 225-9050, is needed to analyze for monomer/oligomer aerosol.

Ω For sampling in chromium plating operations, PVC filters (Cat. No. 225-802) require special treatment after receipt at the laboratory. Alternatively quartz fiber filters (Cat. No. 225-1827) treated with NaOH may be used. Refer to the method for details.



The World Leader in Sampling Technologies

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