

APPENDIX B

NIOSH AND OSHA AMBIENT AIR METHODS

Methods from NIOSH and OSHA are single-analyte methods, focused on sampling in a workplace environment, usually at ambient or nearly ambient levels. Many of the methods may not be appropriate at all for stationary sources, other methods may require extensive modification. All NIOSH/OSHA methods would require validation for stationary source applications. In the course of the literature review for this program, NIOSH/OSHA methods were reviewed. Methods applicable to Clean Air Act analytes are listed by number, according to analytes, for information only.

National Institute for Occupational Safety and Health. NIOSH Manual of Analytical Methods. Part 1, NIOSH Monitoring Methods, Volume 1. U.S. Department of Health, Education, and Welfare, Cincinnati, OH. Revised 1985.

Workplace inorganic methods Source:

OSHA Analytical Methods Manual published by ACGIH
(Cat. No. 0788), Cincinnati, OH 45211
Phone Number: 513-661-7881

Methods 1-80 Source: Cat. No. 4542

Methods 55-80 Source: Cat. No. 4544

APPENDIX B. NIOSH AND OSHA AMBIENT AIR METHODS	
Compounds	NIOSH Method Number
Acetaldehyde	3507
Acetonitrile	1606
Acrylonitrile	1604
Allyl chloride	1000
Aniline	2002
Asbestos (bulk)	9001
Benzene	1501
Benzidine	5013/5509
Benzyl chloride	1003
Beryllium compounds	7102
Bromoform	1003
1,3-Butadiene	1024
Cadmium compounds	7048/7200
Carbon disulfide	1600
Carbon tetrachloride	1003
Chlordane	5510
Chlorobenzene	1003
Chloroform	1003
Chloroprene	1002
Chromium compounds	7200/7024
Cobalt compounds	7027
Cumene	1501
Cyanide compounds	7904
Dibutyl phthalate	5020
3,3'-Dichlorobenzidine	5509

APPENDIX B. NIOSH AND OSHA AMBIENT AIR METHODS	
Compounds	NIOSH Method Number
Dimethyl formamide	2004
Epichlorohydrin	1010
Ethylbenzene	1501
Ethylene dibromide	1008
Ethylene dichloride	1003
Ethylene glycol	5500
Ethylene oxide	1614/1607
Ethylene thiourea	5011
Formaldehyde	3501/2541/3500
Hexachloroethane	1003
Hydrazine	3503
Hydroquinone	5004
Lead compounds	7082
Manganese compounds	7200
Methanol	2000
Methyl chloride	1001
Methyl chloroform	1003
Methyl iodide	1014
Methylene chloride	1005
4,4'-Methylenedianiline	5029
Naphthalene	1501
Nickel compounds	7200
Nitrobenzene	2005
N,N-Diethylaniline	2002
o-Anisidine	5013
o-Toluidine	2002/5013

APPENDIX B. NIOSH AND OSHA AMBIENT AIR METHODS	
Compounds	NIOSH Method Number
Pentachlorophenol	5512
Phenol	3502
Phosphine	7905
Propylene oxide	1612
Styrene	1501
1,1,2,2-Tetrachloroethane	1019
Tetrachloroethylene	1003
Toluene	1501/4000
2,4-Toluene diamine	5516
1,2,4-Trichlorobenzene	5517
1,1,2-Trichloroethane	1003
Trichloroethylene	1022
Vinyl bromide	1009
Vinyl chloride	1007
Vinylidene chloride	1015
Xylenes	1501

APPENDIX B. NIOSH AND OSHA AMBIENT AIR METHODS	
Compounds	OSHA Method Number
Acetaldehyde	68
Acrolein	52
Acrylamide	21
Acrylic acid	28
Acrylonitrile	37
Benzene	12
Benzidine	65
Bis(chloromethyl)ether	10
1,3-Butadiene	56
Carbaryl	63
Chlordane	67
Chloroform	5
Chloromethyl methyl ether	10
Coke oven emissions	58
Cresylic acid	32
3,3'-Dichlorobenzidine	65
Dichlorvos	62
2,4-Dinitrotoluene	44
Ethylene dibromide	2
Ethylene dichloride	3
Ethylene oxide	50
Formaldehyde	52
Hexamethylene-1,6-diisocyanate	42
Hydrazine	20
Maleic anhydride	25
Methyl isocyanate	54

APPENDIX B. NIOSH AND OSHA AMBIENT AIR METHODS	
Compounds	OSHA Method Number
Methylene chloride	80
4,4'-Methylenedianiline	57
Methylene diphenyl diisocyanate	47
Naphthalene	35
2-Nitropropane	46
N-Nitrosodimethylamine	27
N-Nitrosomorpholine	27
o-, m-, and p-Cresols	32
o-Toluidine	73
Parathion	62
Pentachlorophenol	39
Phenol	32
Phosgene	61
Styrene	9
2,4-Toluene diamine	65
2,4-Toluene diisocyanate	42
1,1,2-Trichloroethane	11
Vinyl acetate	51
Vinyl bromide	8
Vinyl chloride	75
Vinylidene chloride	19
Arsenic compounds	ID-105
Chlorine	ID-101
Chromium compounds	ID-103
Cyanide compounds	ID-120
Mercury compounds	ID-121

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Compounds	OSHA Method Number
Phosphorus	ID-180*