

Appendix 1 - Alphabetical Listing of NPRI Substances for 2003

The substances are listed in six parts. The changes in substance listings and the new substances added to the NPRI for 2003 are in bold lettering. The reporting criteria for the substances listed in each Part differ and are explained in Step 1 of the Guide for Reporting to the NPRI - 2003. Explanations of the footnotes and substance qualifiers are also provided in the Guide for Reporting to the NPRI - 2003.

Part 1A Substances

Name	CAS No. ¹		
Acetaldehyde	75-07-0	C.I. Food Red 15	81-88-9
Acetonitrile	75-05-8	C.I. Solvent Orange 7	3118-97-6
Acetophenone	98-86-2	C.I. Solvent Yellow 14	842-07-9
Acrolein	107-02-8	Calcium cyanamide	156-62-7
Acrylamide	79-06-1	Calcium fluoride	7789-75-5
Acrylic acid ²	79-10-7	Carbon disulphide	75-15-0
Acrylonitrile	107-13-1	Carbon tetrachloride	56-23-5
Alkanes, C ₆₋₁₈ , chloro	68920-70-7	Carbonyl sulphide	463-58-1
Alkanes, C ₁₀₋₁₃ , chloro	85535-84-8	Catechol	120-80-9
Allyl alcohol	107-18-6	CFC-11	75-69-4
Allyl chloride	107-05-1	CFC-12	75-71-8
Aluminum ³	7429-90-5	CFC-13	75-72-9
Aluminum oxide ⁴	1344-28-1	CFC-114	76-14-2
Ammonia (total) ⁵	*	CFC-115	76-15-3
Aniline ²	62-53-3	Chlorendic acid	115-28-6
Anthracene	120-12-7	Chlorine	7782-50-5
Antimony ⁶	*	Chlorine dioxide	10049-04-4
Asbestos ⁷	1332-21-4	Chloroacetic acid ²	79-11-8
Benzene	71-43-2	Chlorobenzene	108-90-7
Benzoyl chloride	98-88-4	Chloroethane	75-00-3
Benzoyl peroxide	94-36-0	Chloroform	67-66-3
Benzyl chloride	100-44-7	Chloromethane	74-87-3
Biphenyl	92-52-4	3-Chloro-2-methyl-1-propene	563-47-3
<i>Bis</i> (2-ethylhexyl) adipate	103-23-1	3-Chloropropionitrile	542-76-7
<i>Bis</i> (2-ethylhexyl) phthalate	117-81-7	Chromium ⁸	*
Boron trifluoride	7637-07-2	Cobalt ⁶	*
Bromine	7726-95-6	Copper ⁶	*
1-Bromo-2-chloroethane	107-04-0	Cresol ^{2,9}	1319-77-3
Bromomethane	74-83-9	Crotonaldehyde	4170-30-3
1,3-Butadiene	106-99-0	Cumene	98-82-8
2-Butoxyethanol	111-76-2	Cumene hydroperoxide	80-15-9
Butyl acrylate	141-32-2	Cyanides ¹⁰	*
<i>i</i> -Butyl alcohol	78-83-1	Cyclohexane	110-82-7
<i>n</i> -Butyl alcohol	71-36-3	Cyclohexanol	108-93-0
<i>sec</i> -Butyl alcohol	78-92-2	Decabromodiphenyl oxide	1163-19-5
<i>tert</i> -Butyl alcohol	75-65-0	2,4-Diaminotoluene ²	95-80-7
Butyl benzyl phthalate	85-68-7	2,6-Di- <i>t</i> -butyl-4-methylphenol	128-37-0
1,2-Butylene oxide	106-88-7	Dibutyl phthalate	84-74-2
Butyraldehyde	123-72-8	<i>o</i> -Dichlorobenzene	95-50-1
C.I. Acid Green 3	4680-78-8	<i>p</i> -Dichlorobenzene	106-46-7
C.I. Basic Green 4	569-64-2	3,3'-Dichlorobenzidine dihydrochloride	612-83-9
C.I. Basic Red 1	989-38-8	1,2-Dichloroethane	107-06-2
C.I. Direct Blue 218	28407-37-6	Dichloromethane	75-09-2
C.I. Disperse Yellow 3	2832-40-8	2,4-Dichlorophenol ²	120-83-2
		1,2-Dichloropropane	78-87-5

Dicyclopentadiene	77-73-6	Manganese ⁶	*
Diethanolamine ²	111-42-2	2-Mercaptobenzothiazole	149-30-4
Diethyl phthalate	84-66-2	Methanol	67-56-1
Diethyl sulphate	64-67-5	2-Methoxyethanol	109-86-4
Dimethylamine	124-40-3	2-Methoxyethyl acetate	110-49-6
N,N-Dimethylaniline ²	121-69-7	Methyl acrylate	96-33-3
N,N-Dimethylformamide	68-12-2	Methyl <i>tert</i> -butyl ether	1634-04-4
Dimethyl phenol	1300-71-6	<i>p,p'</i> -Methylenebis(2-chloroaniline)	101-14-4
Dimethyl phthalate	131-11-3	1,1-Methylenebis(4-isocyanatocyclohexane)	5124-30-1
Dimethyl sulphate	77-78-1	Methylenebis(phenylisocyanate)	101-68-8
4,6-Dinitro- <i>o</i> -cresol ²	534-52-1	<i>p,p'</i> -Methylenedianiline	101-77-9
2,4-Dinitrotoluene	121-14-2	Methyl ethyl ketone	78-93-3
2,6-Dinitrotoluene	606-20-2	Methyl iodide	74-88-4
Dinitrotoluene ¹¹	25321-14-6	Methyl isobutyl ketone	108-10-1
Di- <i>n</i> -octyl phthalate	117-84-0	Methyl methacrylate	80-62-6
1,4-Dioxane	123-91-1	N-Methylolacrylamide	924-42-5
Diphenylamine	122-39-4	2-Methylpyridine	109-06-8
Epichlorohydrin	106-89-8	N-Methyl-2-pyrrolidone	872-50-4
2-Ethoxyethanol	110-80-5	Michler's ketone ²	90-94-8
2-Ethoxyethyl acetate	111-15-9	Molybdenum trioxide	1313-27-5
Ethyl acrylate	140-88-5	Naphthalene	91-20-3
Ethylbenzene	100-41-4	Nickel ⁶	*
Ethyl chloroformate	541-41-3	Nitrate ion ¹⁵	*
Ethylene	74-85-1	Nitric acid	7697-37-2
Ethylene glycol	107-21-1	Nitrilotriacetic acid ²	139-13-9
Ethylene oxide	75-21-8	<i>p</i> -Nitroaniline	100-01-6
Ethylene thiourea	96-45-7	Nitrobenzene	98-95-3
Fluorine	7782-41-4	Nitroglycerin	55-63-0
Formaldehyde	50-00-0	<i>p</i> -Nitrophenol ²	100-02-7
Formic acid	64-18-6	2-Nitropropane	79-46-9
Halon 1211	353-59-3	N-Nitrosodiphenylamine	86-30-6
Halon 1301	75-63-8	Nonylphenol and its ethoxylates¹⁶	*
HCFC-22	75-45-6	Octylphenol and its ethoxylates¹⁷	*
HCFC-122 and all isomers ¹²	41834-16-6	Paraldehyde	123-63-7
HCFC-123 and all isomers ¹³	34077-87-7	Pentachloroethane	76-01-7
HCFC 124 and all isomers ¹⁴	63938-10-3	Peracetic acid ²	79-21-0
HCFC-141b	1717-00-6	Phenol ²	108-95-2
HCFC-142b	75-68-3	<i>p</i> -Phenylenediamine ²	106-50-3
Hexachlorocyclopentadiene	77-47-4	<i>o</i> -Phenylphenol ²	90-43-7
Hexachloroethane	67-72-1	Phosgene	75-44-5
Hexachlorophene	70-30-4	Phosphorus ¹⁸	7723-14-0
<i>n</i> -Hexane	110-54-3	Phosphorus (total)¹⁹	*
Hydrazine ²	302-01-2	Phthalic anhydride	85-44-9
Hydrochloric acid	7647-01-0	Polymeric diphenylmethane diisocyanate	9016-87-9
Hydrogen cyanide	74-90-8	Potassium bromate	7758-01-2
Hydrogen fluoride	7664-39-3	Propargyl alcohol	107-19-7
Hydrogen sulphide	7783-06-4	Propionaldehyde	123-38-6
Hydroquinone ²	123-31-9	Propylene	115-07-1
Iron pentacarbonyl	13463-40-6	Propylene oxide	75-56-9
Isobutyraldehyde	78-84-2	Pyridine ²	110-86-1
Isophorone diisocyanate	4098-71-9	Quinoline ²	91-22-5
Isoprene	78-79-5	<i>p</i> -Quinone	106-51-4
Isopropyl alcohol	67-63-0	Safrole	94-59-7
<i>p,p'</i> -Isopropylidenediphenol	80-05-7	Selenium ⁶	*
Isosafrole	120-58-1	Silver ⁶	*
Lithium carbonate	554-13-2	Sodium fluoride	7681-49-4
Maleic anhydride	108-31-6	Sodium nitrite	7632-00-0

Styrene	100-42-5	1,2,4-Trichlorobenzene	120-82-1
Styrene oxide	96-09-3	1,1,2-Trichloroethane	79-00-5
Sulphur hexafluoride	2551-62-4	Trichloroethylene	79-01-6
Sulphuric acid	7664-93-9	Triethylamine	121-44-8
1,1,1,2-Tetrachloroethane	630-20-6	1,2,4-Trimethylbenzene	95-63-6
1,1,2,2-Tetrachloroethane	79-34-5	2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0
Tetrachloroethylene	127-18-4	2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5
Tetracycline hydrochloride	64-75-5	Vanadium ²⁰	7440-62-2
Thiourea	62-56-6	Vinyl acetate	108-05-4
Thorium dioxide	1314-20-1	Vinyl chloride	75-01-4
Titanium tetrachloride	7550-45-0	Vinylidene chloride	75-35-4
Toluene	108-88-3	Xylene ²¹	1330-20-7
Toluene-2,4-diisocyanate	584-84-9	Zinc ⁶	*
Toluene-2,6-diisocyanate	91-08-7		
Toluenediisocyanate ¹¹	26471-62-5		

[See Step 1 of the Guide for Reporting to the NPRI - 2003 for an explanation of these qualifiers.]

* No single CAS number applies to this NPRI listing.

1 CAS Registry Number denotes the Chemical Abstracts Service Registry Number, as appropriate.

2 "and its salts" - The CAS number corresponds to the weak acid or base. However, the substance includes the salts of these weak acids and bases. When calculating the weight of these substances and their salts, use the molecular weight of the acid or base, not the total weight of the salt.

3 "fume or dust"

4 "fibrous forms"

5 "Ammonia (total)" means the total of both of ammonia (NH₃ - CAS No. 7664-41-7) and the ammonium ion (NH₄⁺) in solution.

6 "and its compounds"

7 "friable form"

8 "and its compounds" except hexavalent chromium compounds

9 "all isomers" including, but not limited to, the individual isomers of cresol: *m*-cresol (CAS No. 108-39-4), *o*-cresol (CAS No. 95-48-7) and *p*-cresol (CAS No. 106-44-5)

10 "ionic"

11 "mixed isomers"

12 "all isomers" including, but not limited to, HCFC-122 (CAS No. 354-21-2).

13 "all isomers" including, but not limited to, HCFC-123 (CAS No. 306-83-2) and HCFC 123a (CAS No. 90454-18-5).

14 "all isomers" including, but not limited to, HCFC 124 (CAS No. 2837-89-0), and HCFC 124a (CAS No. 354-25-6).

15 "in solution at a pH of 6.0 or greater"

16 Includes nonylphenol, its ethoxylates and derivatives with CAS No.'s: 104-40-5; 25154-52-3; 84852-15-3; 1323-65-5; 26523-78-4; 28987-17-9; 68081-86-7; 68515-89-9; 68515-93-5; 68081-86-1; 104-35-8; 20427-84-3; 26027-38-3; 27177-05-5; 27177-08-8; 28679-13-2; 27986-36-3; 37251-69-7; 7311-27-5; 9016-45-9; 27176-93-8; 37340-60-6; 51811-79-1; 51938-25-1; 68412-53-3; 9051-57-4; 37205-87-1; 68412-54-4; 127087-87-01.

17 Includes octylphenol and its ethoxylates with CAS No.'s: 140-66-9; 1806-26-4; 27193-28-8; 68987-90-6; 9002-93-1; 9036-19-5.

18 "yellow or white"

19 Does not include phosphorus (yellow or white) with CAS No. 7723-14-0.

20 "(except when in an alloy) and its compounds"

21 "all isomers" including, but not limited to, the individual isomers of xylene: *m*-xylene (CAS No. 108-38-3), *o*-xylene (CAS No. 95-47-6) and *p*-xylene (CAS No. 106-42-3).

Part 1B Substances

Name	CAS No. ¹	Hexavalent chromium compounds	*
Mercury ⁶	*	Lead ^{22, 23}	*
Cadmium ⁶	*	Tetraethyl lead	78-00-2
Arsenic ⁶	*		

22 "and its compounds" except tetraethyl lead

23 Does not include lead (and its compounds) contained in stainless steel, brass or bronze alloys

Part 2 Substances

Name	CAS No. ¹		
		Dibenzo(a,h)anthracene	53-70-3
Benzo(a)anthracene	56-55-3	Dibenzo(a,i)pyrene	189-55-9
Benzo(a)phenanthrene	218-01-9	7H-Dibenzo(c,g)carbazole	194-59-2
Benzo(a)pyrene	50-32-8	Fluoranthene	206-44-0
Benzo(b)fluoranthene	205-99-2	Indeno(1,2,3-c,d)pyrene	193-39-5
Benzo(e)pyrene	192-97-2	Perylene	198-55-0
Benzo(g,h,i)perylene	191-24-2	Phenanthrene	85-01-8
Benzo(j)fluoranthene	205-82-3	Pyrene	129-00-0
Benzo(k)fluoranthene	207-08-9		
Dibenz(a,j)acridine	224-42-0		

Part 3 Substances

Name	CAS No. ¹	Dioxins and Furans ²⁴	*
Hexachlorobenzene	118-74-1		

[See Steps 1 and 2 for an explanation of this footnote.]

²⁴ This class of substances is restricted to the following congeners:

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (1746-01-6);
 1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin (40321-76-4);
 1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin (39227-28-6);
 1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin (19408-74-3);
 1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin (57653-85-7);
 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin (35822-46-9);
 Octachlorodibenzo-*p*-dioxin (3268-87-9);
 2,3,7,8-Tetrachlorodibenzofuran (51207-31-9);
 2,3,4,7,8-Pentachlorodibenzofuran (57117-31-4);
 1,2,3,7,8-Pentachlorodibenzofuran (57117-41-6);
 1,2,3,4,7,8-Hexachlorodibenzofuran (70648-26-9);
 1,2,3,7,8,9-Hexachlorodibenzofuran (72918-21-9);
 1,2,3,6,7,8-Hexachlorodibenzofuran (57117-44-9);
 2,3,4,6,7,8-Hexachlorodibenzofuran (60851-34-5);
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (67562-39-4);
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (55673-89-7); and
 Octachlorodibenzofuran (39001-02-0).

Part 4 Substances - Criteria Air Contaminants (CACs)

Name	CAS No. ¹		
		Sulphur dioxide	7446-09-5
Carbon monoxide	630-08-0	Total particulate matter ²⁷	*
Oxides of nitrogen (expressed as NO ₂)	11104-93-1	Volatile organic compounds ²⁸	*
PM _{2.5} ²⁵	*		
PM ₁₀ ²⁶	*		

²⁵ means any particulate matter with a diameter less than or equal to 2.5 microns.

²⁶ means any particulate matter with a diameter less than or equal to 10 microns.

²⁷ means any particulate matter with a diameter less than 100 microns.

²⁸ Refer to Appendix 5 for definition of VOCs.

Part 5 Substances - Selected Volatile Organic Compounds (VOCs) With Additional Reporting Requirements

Individual Substances

Name	CAS No. ¹
Acetylene	74-86-2
Adipic acid	124-04-9
Aniline ²	65-53-3
Benzene	71-43-2
1,3-Butadiene	106-99-0
2-Butoxyethanol	111-76-2
<i>n</i> -Butyl acetate	123-86-4
Chlorobenzene	108-90-7
<i>p</i> -Dichlorobenzene	106-46-7
1,2-Dichloroethane	107-06-2
Dimethylether	115-10-6
Ethyl alcohol	64-17-5
Ethyl acetate	141-78-6
Ethylene	74-85-1
Formaldehyde	50-00-0
<i>n</i> -Hexane	110-54-3
Isopropyl alcohol	67-63-0
D-Limonene	5989-27-5
Methanol	67-56-1
Methyl ethyl ketone	78-93-3
2-Methyl-3-hexanone	7379-12-6
Methyl isobutyl ketone	108-10-1
Myrcene	123-35-3
Beta-Phellandrene	555-10-2
Phenyl isocyanate	103-71-9
Alpha-Pinene	80-56-8
Beta-Pinene	127-91-3
Propane	74-98-6
Propylene	115-07-1
Styrene	100-42-5
1,2,4-Trimethylbenzene	95-63-6
Trimethylfluorosilane	420-56-4
Toluene	108-88-3
Vinyl acetate	108-05-4

Isomer Groups

Name	CAS No. ¹
Anthraquinone ²⁹	*
Butane ²⁹	*
Butene ²⁹	25167-67-3
Cycloheptane ²⁹	*
Cyclohexene ²⁹	*
Cyclooctane ²⁹	*
Decane ²⁹	*
Dihydronaphthalene ²⁹	*
Dodecane ²⁹	*
Heptane ²⁹	*
Hexane ³⁰	*
Hexene ²⁹	25264-93-1
Methylindan ²⁹	27133-93-3
Nonane ²⁹	*
Octane ²⁹	*
Pentane ²⁹	*
Pentene ²⁹	*
Terpene ²⁹	68956-56-9
Trimethylbenzene ²⁹	25551-13-7
Xylene ²⁹	1330-20-7

Other Groups and Mixtures

Name	CAS No. ¹
Creosote	8001-58-9
Heavy aromatic solvent naphtha	64742-94-5
Light aromatic solvent naphtha	64742-95-6
Mineral spirits	64475-85-0
Naphtha	8030-30-6
Stoddard solvent	8052-41-3

²⁹ "all isomers."

³⁰ "all isomers", excluding *n*-hexane (CAS No. 110-54-3).

³¹ "all isomers", excluding 1,2,4-trimethylbenzene (CAS No. 95-63-6).