

Appendix 1 - Alphabetical Listing of NPRI Substances for 2005

The substances are listed in six parts. The reporting criteria for the substances listed in each Part differ and are explained in Step 1. Explanations of the footnotes and substance qualifiers are also provided in Step 1.

Part 1A Substances

Name	CAS No. ¹		
Acetaldehyde	75-07-0	Carbonyl sulphide	463-58-1
Acetonitrile	75-05-8	Catechol	120-80-9
Acetophenone	98-86-2	CFC-11	75-69-4
Acrolein	107-02-8	CFC-12	75-71-8
Acrylamide	79-06-1	CFC-13	75-72-9
Acrylic acid ²	79-10-7	CFC-114	76-14-2
Acrylonitrile	107-13-1	CFC-115	76-15-3
Alkanes, C ₆₋₁₈ , chloro	68920-70-7	Chlorendic acid	115-28-6
Alkanes, C ₁₀₋₁₃ , chloro	85535-84-8	Chlorine	7782-50-5
Allyl alcohol	107-18-6	Chlorine dioxide	10049-04-4
Allyl chloride	107-05-1	Chloroacetic acid ²	79-11-8
Aluminum ³	7429-90-5	Chlorobenzene	108-90-7
Aluminum oxide ⁴	1344-28-1	Chloroethane	75-00-3
Ammonia (total) ⁵	*	Chloroform	67-66-3
Aniline ²	62-53-3	Chloromethane	74-87-3
Anthracene	120-12-7	3-Chloro-2-methyl-1-propene	563-47-3
Antimony ⁶	*	3-Chloropropionitrile	542-76-7
Asbestos ⁷	1332-21-4	Chromium ⁸	*
Benzene	71-43-2	Cobalt ⁶	*
Benzoyl chloride	98-88-4	Copper ⁶	*
Benzoyl peroxide	94-36-0	Cresol ^{2,9}	1319-77-3
Benzyl chloride	100-44-7	Crotonaldehyde	4170-30-3
Biphenyl	92-52-4	Cumene	98-82-8
<i>Bis</i> (2-ethylhexyl) adipate	103-23-1	Cumene hydroperoxide	80-15-9
<i>Bis</i> (2-ethylhexyl) phthalate	117-81-7	Cyanides ¹⁰	*
Boron trifluoride	7637-07-2	Cyclohexane	110-82-7
Bromine	7726-95-6	Cyclohexanol	108-93-0
1-Bromo-2-chloroethane	107-04-0	Decabromodiphenyl oxide	1163-19-5
Bromomethane	74-83-9	2,4-Diaminotoluene ²	95-80-7
1,3-Butadiene	106-99-0	2,6-Di- <i>t</i> -butyl-4-methylphenol	128-37-0
2-Butoxyethanol	111-76-2	Dibutyl phthalate	84-74-2
Butyl acrylate	141-32-2	<i>o</i> -Dichlorobenzene	95-50-1
<i>i</i> -Butyl alcohol	78-83-1	<i>p</i> -Dichlorobenzene	106-46-7
<i>n</i> -Butyl alcohol	71-36-3	3,3'-Dichlorobenzidine dihydrochloride	612-83-9
<i>sec</i> -Butyl alcohol	78-92-2	1,2-Dichloroethane	107-06-2
<i>tert</i> -Butyl alcohol	75-65-0	Dichloromethane	75-09-2
Butyl benzyl phthalate	85-68-7	2,4-Dichlorophenol ²	120-83-2
1,2-Butylene oxide	106-88-7	1,2-Dichloropropane	78-87-5
Butyraldehyde	123-72-8	Dicyclopentadiene	77-73-6
C.I. Acid Green 3	4680-78-8	Diethanolamine ²	111-42-2
C.I. Basic Green 4	569-64-2	Diethyl phthalate	84-66-2
C.I. Basic Red 1	989-38-8	Diethyl sulphate	64-67-5
C.I. Direct Blue 218	28407-37-6	Dimethylamine	124-40-3
C.I. Disperse Yellow 3	2832-40-8	<i>N,N</i> -Dimethylaniline ²	121-69-7
C.I. Food Red 15	81-88-9	<i>N,N</i> -Dimethylformamide	68-12-2
C.I. Solvent Orange 7	3118-97-6	Dimethyl phenol	1300-71-6
C.I. Solvent Yellow 14	842-07-9	Dimethyl phthalate	131-11-3
Calcium cyanamide	156-62-7	Dimethyl sulphate	77-78-1
Calcium fluoride	7789-75-5	4,6-Dinitro- <i>o</i> -cresol ²	534-52-1
Carbon disulphide	75-15-0	2,4-Dinitrotoluene	121-14-2
Carbon tetrachloride	56-23-5	2,6-Dinitrotoluene	606-20-2
		Dinitrotoluene ¹¹	25321-14-6

Di- <i>n</i> -octyl phthalate	117-84-0	Molybdenum trioxide	1313-27-5
1,4-Dioxane	123-91-1	Naphthalene	91-20-3
Diphenylamine	122-39-4	Nickel ⁶	*
Epichlorohydrin	106-89-8	Nitrate ion ¹⁵	*
2-Ethoxyethanol	110-80-5	Nitric acid	7697-37-2
2-Ethoxyethyl acetate	111-15-9	Nitrilotriacetic acid ²	139-13-9
Ethyl acrylate	140-88-5	<i>p</i> -Nitroaniline	100-01-6
Ethylbenzene	100-41-4	Nitrobenzene	98-95-3
Ethyl chloroformate	541-41-3	Nitroglycerin	55-63-0
Ethylene	74-85-1	<i>p</i> -Nitrophenol ²	100-02-7
Ethylene glycol	107-21-1	2-Nitropropane	79-46-9
Ethylene oxide	75-21-8	N-Nitrosodiphenylamine	86-30-6
Ethylene thiourea	96-45-7	Nonylphenol and its ethoxylates ¹⁶	*
Fluorine	7782-41-4	Octylphenol and its ethoxylates ¹⁷	*
Formaldehyde	50-00-0	Paraldehyde	123-63-7
Formic acid	64-18-6	Pentachloroethane	76-01-7
Halon 1211	353-59-3	Peracetic acid ²	79-21-0
Halon 1301	75-63-8	Phenol ²	108-95-2
HCFC-22	75-45-6	<i>p</i> -Phenylenediamine ²	106-50-3
HCFC-122 and all isomers ¹²	41834-16-6	<i>o</i> -Phenylphenol ²	90-43-7
HCFC-123 and all isomers ¹³	34077-87-7	Phosgene	75-44-5
HCFC 124 and all isomers ¹⁴	63938-10-3	Phosphorus ¹⁸	7723-14-0
HCFC-141b	1717-00-6	Phosphorus (total) ¹⁹	*
HCFC-142b	75-68-3	Phthalic anhydride	85-44-9
Hexachlorocyclopentadiene	77-47-4	Polymeric diphenylmethane diisocyanate	9016-87-9
Hexachloroethane	67-72-1	Potassium bromate	7758-01-2
Hexachlorophene	70-30-4	Propargyl alcohol	107-19-7
<i>n</i> -Hexane	110-54-3	Propionaldehyde	123-38-6
Hydrazine ²	302-01-2	Propylene	115-07-1
Hydrochloric acid	7647-01-0	Propylene oxide	75-56-9
Hydrogen cyanide	74-90-8	Pyridine ²	110-86-1
Hydrogen fluoride	7664-39-3	Quinoline ²	91-22-5
Hydrogen sulphide	7783-06-4	<i>p</i> -Quinone	106-51-4
Hydroquinone ²	123-31-9	Safrole	94-59-7
Iron pentacarbonyl	13463-40-6	Selenium ⁶	*
Isobutyraldehyde	78-84-2	Silver ⁶	*
Isophorone diisocyanate	4098-71-9	Sodium fluoride	7681-49-4
Isoprene	78-79-5	Sodium nitrite	7632-00-0
Isopropyl alcohol	67-63-0	Styrene	100-42-5
<i>p,p'</i> -Isopropylidenediphenol	80-05-7	Styrene oxide	96-09-3
Isosafrole	120-58-1	Sulphur hexafluoride	2551-62-4
Lithium carbonate	554-13-2	Sulphuric acid	7664-93-9
Maleic anhydride	108-31-6	1,1,1,2-Tetrachloroethane	630-20-6
Manganese ⁶	*	1,1,2,2-Tetrachloroethane	79-34-5
2-Mercaptobenzothiazole	149-30-4	Tetrachloroethylene	127-18-4
Methanol	67-56-1	Tetracycline hydrochloride	64-75-5
2-Methoxyethanol	109-86-4	Thiourea	62-56-6
2-Methoxyethyl acetate	110-49-6	Thorium dioxide	1314-20-1
Methyl acrylate	96-33-3	Titanium tetrachloride	7550-45-0
Methyl <i>tert</i> -butyl ether	1634-04-4	Toluene	108-88-3
<i>p,p'</i> -Methylenebis(2-chloroaniline)	101-14-4	Toluene-2,4-diisocyanate	584-84-9
1,1-Methylenebis(4-isocyanatocyclohexane)	5124-30-1	Toluene-2,6-diisocyanate	91-08-7
Methylenebis(phenylisocyanate)	101-68-8	Toluenediisocyanate ¹¹	26471-62-5
<i>p,p'</i> -Methylenedianiline	101-77-9	1,2,4-Trichlorobenzene	120-82-1
Methyl ethyl ketone	78-93-3	1,1,2-Trichloroethane	79-00-5
Methyl iodide	74-88-4	Trichloroethylene	79-01-6
Methyl isobutyl ketone	108-10-1	Triethylamine	121-44-8
Methyl methacrylate	80-62-6	1,2,4-Trimethylbenzene	95-63-6
N-Methylolacrylamide	924-42-5	2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0
2-Methylpyridine	109-06-8	2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5
N-Methyl-2-pyrrolidone	872-50-4	Vanadium ²⁰	7440-62-2
Michler's ketone ²	90-94-8	Vinyl acetate	108-05-4

Vinyl chloride	75-01-4	Zinc ⁶	*
Vinylidene chloride	75-35-4		
Xylene ²¹	1330-20-7		

[See Step 1 of the Guide for Reporting to the NPRI - 2004 for an explanation of these qualifiers.]

- * No single CAS number applies to this NPRI listing.
- CAS Registry Number denotes the Chemical Abstracts Service Registry Number, as appropriate.
 - "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.
 - "fume or dust"
 - "fibrous forms"
 - "Ammonia (total)" means the total of both of ammonia (NH₃ - CAS No. 7664-41-7) and the ammonium ion (NH₄⁺) in solution.
 - "and its compounds"
 - "friable form"
 - "and its compounds" except hexavalent chromium compounds
 - "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)
 - "ionic"
 - "mixed isomers"
 - "all isomers" including, but not limited to, HCFC-122 (CAS No. 354-21-2).
 - "all isomers" including, but not limited to, HCFC-123 (CAS No. 306-83-2) and HCFC 123a (CAS No. 90454-18-5).
 - "all isomers" including, but not limited to, HCFC 124 (CAS No. 2837-89-0), and HCFC 124a (CAS No. 354-25-6).
 - "in solution at a pH of 6.0 or greater"
 - 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.
 - 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.
 - "yellow or white"
 - Does not include phosphorus (yellow or white) with CAS No. 7723-14-0.
 - "(except when in an alloy) and its compounds"
 - "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).