**Section 218.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing**

|  |  |
| --- | --- |
| CAS No.a | Chemical |
| 105-57-7 | Acetal |
| 75-07-0 | Acetaldehyde |
| 107-89-1 | Acetaldol |
| 60-35-5 | Acetamide |
| 103-84-4 | Acetanilide |
| 64-19-7 | Acetic acid |
| 108-24-7 | Acetic anhydride |
| 67-64-1 | Acetone |
| 75-86-5 | Acetone cyanohydrin |
| 75-05-8 | Acetonitrile |
| 98-86-2 | Acetophenone |
| 75-36-5 | Acetyl chloride |
| 74-86-2 | Acetylene |
| 107-02-8 | Acrolein |
| 79-06-1 | Acrylamide |
| 79-10-7 | Acrylic acid & esters |
| 107-13-1 | Acrylonitrile |
| 124-04-9 | Adipic acid |
| 111-69-3(b) | Adiponitrile |
|  | Alkyl naphthalenes |
| 107-18-6 | Allyl alcohol |
| 107-05-1 | Allyl chloride |
| 1321-11-5 | Aminobenzoic acid |
| 111-41-1 | Aminoethylethanolamine |
| 123-30-8 | p-aminophenol |
| 628-63-7, 123-92-2 | Amyl acetates |
| 71-41-0c | Amyl alcohols |
| 110-58-7 | Amyl amine |
| 543-59-9 | Amyl chloride |
| 110-68-7 c | Amyl mercaptans |
| 1322-06-1 | Amyl phenol |
| 62-53-3 | Aniline |
| 142-04-1 | Aniline hydrochloride |
| 29191-52-4 | Anisidine |
| 100-66-3 | Anisole |
| 118-92-3 | Anthranilic acid |
| 84-65-1 | Anthraquinone |
| 100-52-7 | Benzaldehyde |
| 55-21-0 | Benzamide |
| 71-43-2 | Benzene |
| 98-48-6 | Benzenedisulfonic acid |

|  |  |
| --- | --- |
| CAS No.a | Chemical |
| 98-11-3 | Benzenesulfonic acid |
| 134-81-6 | Benzil |
| 76-93-7 | Benzilic acid |
| 65-85-0 | Benzoic acid |
| 119-53-9 | Benzoin |
| 100-47-0 | Benzonitrile |
| 119-61-9 | Benzophenone |
| 98-07-7 | Benzotrichloride |
| 98-88-4 | Benzyl chloride |
| 100-51-6 | Benzyl alcohol |
| 100-46-9 | Benzylamine |
| 120-51-4 | Benzyl benzoate |
| 100-44-7 | Benzyl chloride |
| 98-87-3 | Benzyl dichloride |
| 92-52-4 | Biphenyl |
| 80-05-7 | Bisphenol A |
| 10-86-1 | Bromobenzene |
| 27497-51-4 | Bromonaphthalene |
| 106-99-0 | Butadiene |
| 106-98-9 | l-butene |
| 123-86-4 | n-butyl acetate |
| 141-32-2 | n-butyl acrylate |
| 71-36-3 | n-butyl alcohol |
| 78-92-2 | s-butyl alcohol |
| 75-65-0 | t-butyl alcohol |
| 109-73-9 | n-butylamine |
| 13952-84-6 | s-butylamine |
| 75-64-9 | t-butylamine |
| 98-73-7 | p-tert-butyl benzoic acid |
| 107-88-0 | 1,3-butylene glycol |
| 123-72-8 | n-butyraldehyde |
| 107-92-6 | Butyric acid |
| 106-31-0 | Butyric anhydride |
| 109-74-0 | Butyronitrile |
| 105-60-2 | Caprolactam |
| 75-1-50 | Carbon disulfide |
| 558-13-4 | Carbon tetrabromide |
| 55-23-5 | Carbon tetrachloride |
| 9004-35-7 | Cellulose acetate |
| 79-11-8 | Chloroacetic acid |
| 108-42-9 | m-chloroaniline |
| 95-51-2 | o-chloroaniline |
| 106-47-8 | p-chloroaniline |
| 35913-09-8 | Chlorobenzaldehyde |
| CAS No.a | Chemical |
| 108-90-7 | Chlorobenzene |
| 118-91-2, 535-80-8, 74-11-3 c | Chlorobenzoic acid |
| 2136-81-4, 2136-89-2, 5216-25-1 c | Chlorobenzotrichloride |
| 1321-03-5 | Chlorobenzoyl chloride |
| 75-45-6 | Chlorodifluoroethane |
| 25497-29-4 | Chlorodifluoromethane |
| 67-66-3 | Chloroform |
| 25586-43-0 | Chloronaphthalene |
| 88-73-3 | o-chloronitrobenzene |
| 100-00-5 | p-chloronitrobenzene |
| 25167-80-0 | Chlorophenols |
| 126-99-8 | Chloroprene |
| 7790-94-5 | Chlorosulfonic acid |
| 108-41-8 | m-chlorotoluene |
| 95-49-8 | o-chlorotoluene |
| 106-43-4 | p-chlorotoluene |
| 75-72-9 | Chlorotrifluoromethane |
| 108-39-4 | m-cresol |
| 95-48-7 | o-cresol |
| 106-44-5 | p-cresol |
| 1319-77-3 | Mixed cresols |
| 1319-77-3 | Cresylic acid |
| 4170-30-0 | Crotonaldehyde |
| 3724-65-0 | Crontonic acid |
| 98-82-8 | Cumene |
| 80-15-9 | Cumene hydroperoxide |
| 372-09-8 | Cyanoacetic acid |
| 506-77-4 | Cyanogen chloride |
| 108-80-5 | Cyanuric acid |
| 108-77-0 | Cyanuric chloride |
| 110-82-7 | Cyclohexane |
| 108-93-0 | Cyclohexanol |
| 108-94-1 | Cyclohexanone |
| 110-83-8 | Cyclohexene |
| 108-91-8 | Cyclohexylamine |
| 111-78-4 | Cyclooctadiene |
| 112-30-1 | Decanol |
| 123-42-2 | Diacetone alcohol |
| 27576-04-1 | Diaminobenzoic acid |
| 95-76-1, 95-82-9, 554-00-7, 608-27-5, 608-31-1, 626-43-7, 27134-27-6, 57311-92-9c | Dichloraniline |
| 541-73-1 | m-dichlorobenzene |
| 95-50-1 | o-dichlorobenzene |
| 106-46-7 | p-dichlorobenzene |
| 75-71-8 | Dichlorodifluoromethane |
| CAS No.a | Chemical |
| 111-44-4 | Dichloroethyl ether |
| 107-06-2 | 1,2-dichloroethane (EDC) |
| 96-23-1 | Dichlorohydrin |
| 26952-23-8 | Dichloropropene |
| 101-83-7 | Dicyclohexylamine |
| 109-89-7 | Diethylamine |
| 111-46-6 | Diethylene glycol |
| 112-36-7 | Diethylene glycol diethyl ether |
| 111-96-6 | Diethylene glycol dimethyl ether |
| 112-34-5 | Diethylene glycol monobutyl ether |
| 124-17-7 | Diethylene glycol mononbutyl ether acetate |
| 111-90-0 | Diethylene glycol monoethyl ether |
| 112-15-2 | Diethylene glycol monoethyl ether acetate |
| 111-77-3 | Diethylene glycol monomethyl ether |
| 64-67-5 | Diethyl sulfate |
| 75-37-6 | Difluoroethane |
| 25167-70-8 | Diisobutylene |
| 26761-40-0 | Diisodecyl phthalate |
| 27554-26-3 | Diisooctyl phthalate |
| 674-82-8 | Diketene |
| 124-40-3 | Dimethylamine |
| 121-69-7 | N,N-dimethylaniline |
| 115-10-6 | N,N-dimethyl ether |
| 68-12-2 | N,N-dimethylformamide |
| 57-14-7 | Dimethylhydrazine |
| 77-78-1 | Dimethyl sulfate |
| 75-18-3 | Dimethyl sulfide |
| 67-68-5 | Dimethyl sulfoxide |
| 120-61-6 | Dimethyl terephthalate |
| 99-34-3 | 3,5-dinitrobenzoic acid |
| 51-28-5 | Dinitrophenol |
|  | Dinitrotoluene |
| 123-91-1 | Dioxane |
| 646-06-0 | Dioxilane |
| 122-39-4 | Diphenylamine |
| 101-84-4 | Diphenyl oxide |
| 102-08-9 | Diphenyl thiourea |
| 25265-71-8 | Dipropylene glycol |
| 25378-22-7 | Dodecene |
| 28675-17-4 | Dodecylaniline |
| 27193-86-8 | Dodecyphenol |
| 106-89-8 | Epichlorohydrin |
| 64-17-5 | Ethanol |
| 141-43-5c | Ethanolamines |
| 141-78-6 | Ethyl acetate |
| CAS No.a | Chemical |
| 141-97-9 | Ethyl acetoacetate |
| 140-88-5 | Ethyl acrylate |
| 75-04-7 | Ethylamine |
| 100-41-4 | Ethylbenzene |
| 74-96-4 | Ethyl bromide |
| 9004-57-3 | Ethylcellulose |
| 75-00-3 | Ethyl chloride |
| 105-39-5 | Ethyl chloroacetate |
| 105-56-6 | Ethylcyanoacetate |
| 74-85-1 | Ethylene |
| 96-49-1 | Ethylene carbonate |
| 107-07-3 | Ethylene chlorohydrin |
| 107-15-3 | Ethylenediamine |
| 106-93-4 | Ethylene dibromide |
| 107-21-1 | Ethylene glycol |
| 111-55-7 | Ethylene glycol diacetate |
| 110-71-4 | Ethylene glycol dimethyl ether |
| 111-76-2 | Ethylene glycol monobutyl ether |
| 112-07-2 | Ethylene glycol monobutyl ether acetate |
| 110-80-5 | Ethylene glycol monoethyl ether |
| 111-15-9 | Ethylene glycol monoethyl ether acetate |
| 109-86-4 | Ethylene glycol monoethyl ether |
| 110-49-6 | Ethylene glycol monomethyl ether acetate |
| 122-99-6 | Ethylene glycol monophenyl ether |
| 2807-30-9 | Ethylene glycol monopropyl ether |
| 75-21-8 | Ethylene oxide |
| 60-29-7 | Ethyl ether |
| 104-76-7 | 2-ethylhexanol |
| 122-51-0 | Ethyl orthoformate |
| 95-92-1 | Ethyl oxalate |
| 41892-71-1 | Ethyl sodium oxaloacetate |
| 50-00-0 | Formaldehyde |
| 75-12-7 | Formamide |
| 64-18-6 | Formic acid |
| 110-17-8 | Fumaric acid |
| 98-01-1 | Furfural |
| 56-81-5 | Glycerol (Synthetic) |
| 26545-73-7 | Glycerol dichlorohydrin |
| 25791-96-2 | Glycerol triether |
| 56-40-6 | Glycine |
| 107-22-2 | Glyoxal |
| 118-74-1 | Hexachlorobenzene |
| 67-72-1 | Hexachloroethane |
| 36653-82-4 | Hexadecyl alcohol |
| 124-09-4 | Hexamethylenediamine |
| CAS No.a | Chemical |
| 629-11-8 | Hexamethylene glycol |
| 100-97-0 | Hexamethylenetetramine |
| 74-90-8 | Hydrogen cyanide |
| 123-31-9 | Hydroquinone |
| 99-96-7 | p-hydroxybenzoic acid |
| 26760-64-5 | Isoamylene |
| 78-83-1 | Isobutanol |
| 110-19-0 | Isobutyl acetate |
| 115-11-7 | Isobutylene |
| 78-84-2 | Isobutyraldehyde |
| 79-31-2 | Isobutryric acid |
| 25339-17-7 | Isodecanol |
| 26952-21-6 | Isooctyl alcohol |
| 78-78-4 | Isopentane |
| 78-59-1 | Isophorone |
| 121-91-5 | Isophthalic acid |
| 78-79-5 | Isoprene |
| 67-63-0 | Isopropanol |
| 108-21-4 | Isopropyl acetate |
| 75-31-0 | Isopropylamine |
| 75-29-6 | Isopropyl chloride |
| 25168-06-3 | Isopropylphenol |
| 463-51-4 | Ketene |
| (b) | Linear alkyl sulfonate\* |
| 123-01-3 | Linear alkylbenzene |
| 110-16-7 | Maleic acid |
| 108-31-6 | Maleic anhydride |
| 6915-15-7 | Malic acid |
| 141-79-7 | Mesityl oxide |
| 121-47-1 | Metanilic acid |
| 79-41-4 | Methacrylic acid |
| 563-47-3 | Methallyl chloride |
| 67-56-1 | Methanol |
| 79-20-9 | Methyl acetate |
| 105-45-3 | Methyl acetoacetate |
| 74-89-5 | Methylamine |
| 100-61-8 | n-methylaniline |
| 74-83-9 | Methyl bromide |
| 37365-71-2 | Methyl butynol |
| 74-87-3 | Methyl chloride |
| 108-87-2 | Methyl cyclohexane |
| 1331-22-2 | Methyl cyclohexanone |
| 75-09-2 | Methylene chloride |
| 101-77-9 | Methylene dianiline |
| 101-68-8 | Methylene diphenyl diisocyanate |
| CAS No.a | Chemical |
| 78-93-3 | Methyl ethyl ketone |
| 107-31-3 | Methyl formate |
| 108-11-2 | Methyl isobutyl carbinol |
| 108-10-1 | Methyl isobutyl ketone |
| 80-62-6 | Methyl methacrylate |
| 77-75-8 | Methylpentynol |
| 98-83-9 | B-methylstyrene |
| 110-91-8 | Morpholine |
| 85-47-2 | a-naphthalene sulfonic acid |
| 120-18-3 | B-naphthalene sulfonic acid |
| 90-15-3 | a-naphthol |
| 135-19-3 | B-naphthol |
| 75-98-9 | Neopentanoic acid |
| 88-74-4 | o-nitroaniline |
| 100-01-6 | p-nitroaniline |
| 91-23-6 | o-nitroanisole |
| 100-17-4 | p-nitroanisole |
| 98-95-3 | Nitrobenzene |
| 27178-83-2 c | Nitrobenzoic acid (o, m & p) |
| 79-24-3 | Nitroethane |
| 75-52-5 | Nitromethane |
| 88-75-5 | Nitrophenol |
| 25322-01-4 | Nitropropane |
| 1321-12-6 | Nitrotoluene |
| 27215-95-8 | Nonene |
| 25154-52-3 | Nonylphenol |
| 27193-28-8 | Octylphenol |
| 123-63-7 | Paraldehyde |
| 115-77-5 | Pentaerythritol |
| 109-66-0 | n-pentane |
| 109-67-1 | l-pentene |
| 127-18-4 | Perchloroethylene |
| 594-42-3 | Perchloromethyl mercaptan |
| 94-70-2 | o-phenetidine |
| 156-43-4 | p-phenetidine |
| 108-95-2 | Phenol |
| 98-67-9, 585-38-6, 609-46-1, 133-39-7 c | Phenosulfonic acids |
| 91-40-7 | Phenyl anthranilic acid |
| (b) | Phenylenediamine |
| 75-44-5 | Phosgene |
| 85-44-9 | Phthalic anhydride |
| 85-41-6 | Phthalimide |
| 108-99-6 | b-picoline |
| 110-85-0 | Piperazine |
| 9003-29-6, 25036-29-7 c | Polybutenes |
| CAS No.a | Chemical |
| 25322-68-3 | Polyethylene glycol |
| 25322-69-4 | Polypropylene glycol |
| 123-38-6 | Propionaldehyde |
| 79-09-4 | Propionic acid |
| 71-23-8 | n-propyl alcohol |
| 107-10-8 | Propylamine |
| 540-54-5 | Propyl chloride |
| 115-07-1 | Propylene |
| 127-00-4 | Propylene chlorohydrin |
| 78-87-5 | Propylene dichloride |
| 57-55-6 | Propylene glycol |
| 75-56-9 | Propylene oxide |
| 110-86-1 | Pyridine |
| 106-51-4 | Quinone |
| 108-46-3 | Resorcinol |
| 27138-57-4 | Resorcylic acid |
| 69-72-7 | Salicylic acid |
| 127-09-3 | Sodium acetate |
| 532-32-1 | Sodium benzoate |
| 9004-32-4 | Sodium carboxymethyl cellulose |
| 3926-62-3 | Sodium chloroacetate |
| 141-53-7 | Sodium formate |
| 139-02-6 | Sodium phenate |
| 110-44-1 | Sorbic acid |
| 100-42-5 | Styrene |
| 110-15-6 | Succinic acid |
| 110-61-2 | Succinitrile |
| 121-57-3 | Sulfanilic acid |
| 126-33-0 | Sulfolane |
| 1401-55-4 | Tannic acid |
| 100-21-0 | Terephthalic acid |
| 79-34-5 c | Tetrachloroethanes |
| 117-08-8 | Tetrachlorophthalic anhydride |
| 78-00-2 | Tetraethyllead |
| 119-64-2 | Tetrahydronaphthalene |
| 85-43-8 | Tetrahydrophthalic anhydride |
| 75-74-1 | Tetramethyllead |
| 110-60-1 | Tetramethylenediamine |
| 110-18-9 | Tetramethylethylenediamine |
| 108-88-3 | Toluene |
| 95-80-7 | Toluene-2,4-diamine |
| 584-84-9 | Toluene-2,4-diisocyanate |
| 26471-62-5 | Toluene diisocyanates (mixture) |
| 1333-07-9 | Toluene sulfonamide |
| 104-15-4 c | Toluenesulfonic acids |
| CAS No.a | Chemical |
| 98-59-9 | Toluene sulfonyl chloride |
| 26915-12-8 | Toluidines |
| 87-61-6, 108-70-3, 120-82-1 c | Trichlorobenzenes |
| 71-55-6 | 1,1,1-trichloroethane |
| 79-00-5 | 1,1,2-trichloroethane |
| 79-01-6 | Trichloroethylene |
| 75-69-4 | Trichlorofluoromethane |
| 96-18-4 | 1,2,3-trichloropropane |
| 76-13-1 | 1,1,2-trichloro-1,2,2-trifluoroethane |
| 121-44-8 | Triethylamine |
| 112-27-6 | Triethylene glycol |
| 112-49-2 | Triethylene glycoldimethyl ether |
| 7756-94-7 | Triisobutylene |
| 75-50-3 | Trimethylamine |
| 57-13-6 | Urea |
| 108-05-4 | Vinyl acetate |
| 75-01-4 | Vinyl chloride |
| 75-35-4 | Vinylidene chloride |
| 25013-15-4 | Vinyl toluene |
| 1330-20-7 | Xylenes (mixed) |
| 95-47-6 | o-xylene |
| 106-42-3 | p-xylene |
| 1300-71-6 | Xylenol |
| 1300-73-8 | Xylidine |
| (b) | methyl tert-butyl ether |
| 9002-88-4 | Polyethylene |
| (b) | Polypropylene |
| 9009-53-6 | Polystyrene |

a) CAS numbers refer to the Chemical Abstracts Registry numbers assigned to specific chemicals, isomers or mixtures of chemicals. Some isomers or mixtures that are covered by the standards do no have CAS numbers assigned to them. The standards apply to all of the chemicals listed, whether CAS numbers have been assigned or not.

b) No CAS number(s) have been assigned to this chemical, to its isomers, or mixtures containing these chemicals.

c) CAS numbers for some of the isomers are listed; the standards apply to all of the isomers and mixtures, even if CAS numbers have not been assigned.

(Source: Amended at 17 Ill. Reg. 16636, effective September 27, 1993)