**Table 1 to Subpart F of Part 63—Synthetic Organic Chemical Manufacturing Industry Chemicals**

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| --- | --- | --- |
| **Chemical namea** | **CAS No.b** | **Group** |
| Acenaphthene | 83329 | V |
| Acetal | 105577 | V |
| Acetaldehyde | 75070 | II |
| Acetamide | 60355 | II |
| Acetanilide | 103844 | II |
| Acetic acid | 64197 | II |
| Acetic anhydride | 108247 | II |
| Acetoacetanilide | 102012 | III |
| Acetone | 67641 | I |
| Acetone cyanohydrin | 75865 | V |
| Acetonitrile | 75058 | I |
| Acetophenone | 98862 | I |
| Acrolein | 107028 | IV |
| Acrylamide | 79061 | I |
| Acrylic acid | 79107 | IV |
| Acrylonitrile | 107131 | I |
| Adiponitrile | 111693 | I |
| Alizarin | 72480 | V |
| Alkyl anthraquinones | 008 | V |
| Allyl alcohol | 107186 | I |
| Allyl chloride | 107051 | IV |
| Allyl cyanide | 109751 | IV |
| Aminophenol sulfonic acid | 0010 | V |
| Aminophenol (p-) | 123308 | I |
| Aniline | 62533 | I |
| Aniline hydrochloride | 142041 | III |
| Anisidine (o-) | 90040 | II |
| Anthracene | 120127 | V |
| Anthraquinone | 84651 | III |
| Azobenzene | 103333 | I |
| Benzaldehyde | 100527 | III |
| Benzene | 71432 | I |
| Benzenedisulfonic acid | 98486 | I |
| Benzenesulfonic acid | 98113 | I |
| Benzil | 134816 | III |
| Benzilic acid | 76937 | III |
| Benzoic acid | 65850 | III |
| Benzoin | 119539 | III |
| Benzonitrile | 100470 | III |
| Benzophenone | 119619 | I |
| Benzotrichloride | 98077 | III |
| Benzoyl chloride | 98884 | III |
| Benzyl acetate | 140114 | III |
| Benzyl alcohol | 100516 | III |
| Benzyl benzoate | 120514 | III |
| Benzyl chloride | 100447 | III |
| Benzyl dichloride | 98873 | III |
| Biphenyl | 92524 | I |
| Bisphenol A | 80057 | III |
| Bis(Chloromethyl) Ether | 542881 | I |
| Bromobenzene | 108861 | I |
| Bromoform | 75252 | V |
| Bromonaphthalene | 27497514 | IV |
| Butadiene (1,3-) | 106990 | II |
| Butanediol (1,4-) | 110634 | I |
| Butyl acrylate (n-) | 141322 | V |
| Butylene glycol (1,3-) | 107880 | II |
| Butyrolactone | 96480 | I |
| Caprolactam | 105602 | II |
| Carbaryl | 63252 | V |
| Carbazole | 86748 | V |
| Carbon disulfide | 75150 | IV |
| Carbon tetrabromide | 558134 | II |
| Carbon tetrachloride | 56235 | I |
| Carbon tetrafluoride | 75730 | II |
| Chloral | 75876 | II |
| Chloroacetic acid | 79118 | II |
| Chloroacetophenone (2-) | 532274 | I |
| Chloroaniline (p-) | 106478 | II |
| Chlorobenzene | 108907 | I |
| 2-Chloro-1,3-butadiene (Chloroprene) | 126998 | II |
| Chlorodifluoroethane | 25497294 | V |
| Chlorodifluoromethane | 75456 | I |
| Chloroform | 67663 | I |
| Chloronaphthalene | 25586430 | IV |
| Chloronitrobenzene | 121733 | I |
| (m-). |  |  |
| Chloronitrobenzene | 88733 | I |
| (o-). |  |  |
| Chloronitrobenzene | 100005 | I |
| (p-). |  |  |
| Chlorophenol (m-) | 108430 | II |
| Chlorophenol (o-) | 95578 | II |
| Chlorophenol (p-) | 106489 | II |
| Chlorotoluene (m-) | 108418 | III |
| Chlorotoluene (o-) | 95498 | III |
| Chlorotoluene (p-) | 106434 | III |
| Chlorotrifluoromethane | 75729 | II |
| Chrysene | 218019 | V |
| Cresol and cresylic acid (m-) | 108394 | III |
| Cresol and cresylic acid (o-) | 95487 | III |
| Cresol and cresylic acid (p-) | 106445 | III |
| Cresols and cresylic acids (mixed) | 1319773 | III |
| Cumene | 98828 | I |
| Cumene hydroperoxide | 80159 | I |
| Cyanoacetic acid | 372098 | II |
| Cyclohexane | 110827 | I |
| Cyclohexanol | 108930 | I |
| Cyclohexanone | 108941 | I |
| Cyclohexylamine | 108918 | III |
| Cyclooctadienes | 29965977 | II |
| Decahydronaphthalene | 91178 | IV |
| Diacetoxy-2-Butene (1,4-) | 0012 | V |
| Diaminophenol hydrochloride | 137097 | V |
| Dibromomethane | 74953 | V |
| Dichloroaniline (mixed isomers) | 27134276 | I |
| Dichlorobenzene (p-) | 106467 | I |
| Dichlorobenzene (m-) | 541731 | I |
| Dichlorobenzene (o-) | 95501 | I |
| Dichlorobenzidine | 91941 | I |
| (3,3′-). |  |  |
| Dichlorodifluoromethane | 75718 | I |
| Dichloroethane (1,2-) (Ethylenedichloride) (EDC) | 107062 | I |
| Dichloroethyl ether (bis(2-chloroethyl)ether) | 111444 | I |
| Dichloroethylene (1,2-) | 540590 | II |
| Dichlorophenol (2,4-) | 120832 | III |
| Dichloropropene (1,3-) | 542756 | II |
| Dichlorotetrafluoro- | 1320372 | V |
| ethane. |  |  |
| Dichloro-1-butene (3,4-) | 760236 | II |
| Dichloro-2-butene (1,4-) | 764410 | V |
| Diethanolamine (2,2′-Iminodiethanol) | 111422 | I |
| Diethyl sulfate | 64675 | II |
| Diethylamine | 109897 | IV |
| Diethylaniline (2,6-) | 579668 | V |
| Diethylene glycol | 111466 | I |
| Diethylene glycol dibutyl ether | 112732 | I |
| Diethylene glycol diethyl ether | 112367 | I |
| Diethylene glycol dimethyl ether | 111966 | I |
| Diethylene glycol monobutyl ether acetate | 124174 | I |
| Diethylene glycol monobutyl ether | 112345 | I |
| Diethylene glycol monoethyl ether acetate | 112152 | I |
| Diethylene glycol monoethyl ether | 111900 | I |
| Diethylene glycol monohexyl ether | 112594 | V |
| Diethylene glycol monomethyl ether acetate | 629389 | V |
| Diethylene glycol monomethyl ether | 111773 | I |
| Dihydroxybenzoic acid (Resorcylic acid) | 27138574 | V |
| Dimethylbenzidine | 119937 | II |
| (3,3′-). |  |  |
| Dimethyl ether | 115106 | IV |
| Dimethylformamide (N,N-) | 68122 | II |
| Dimethylhydrazine | 57147 | II |
| (1,1-). |  |  |
| Dimethyl sulfate | 77781 | I |
| Dimethyl terephthalate | 120616 | II |
| Dimethylamine | 124403 | IV |
| Dimethylaminoethanol (2-) | 108010 | I |
| Dimethylaniline (N,N′) | 121697 | III |
| Dinitrobenzenes (NOS)c | 25154545 | I |
| Dinitrophenol (2,4-) | 51285 | III |
| Dinitrotoluene (2,4-) | 121142 | III |
| Dioxane (1,4-) (1,4-Diethyleneoxide) | 1239 | 11I |
| Dioxolane (1,3-) | 646060 | I |
| Diphenyl methane | 101815 | I |
| Diphenyl oxide | 101848 | I |
| Diphenyl thiourea | 102089 | III |
| Diphenylamine | 122394 | III |
| Dipropylene glycol | 110985 | I |
| Di-o-tolyguanidine | 97392 | III |
| Dodecanedioic acid | 693232 | I |
| Dodecyl benzene (branched) | 123013 | V |
| Dodecyl phenol (branched) | 121158585 | V |
| Dodecylaniline | 28675174 | V |
| Dodecylbenzene (n-) | 121013 | I |
| Dodecylphenol | 27193868 | III |
| Epichlorohydrin (1-chloro-2,3-epoxypropane) | 106898 | I |
| Ethanolamine | 141435 | I |
| Ethyl acrylate | 140885 | II |
| Ethylbenzene | 100414 | I |
| Ethyl chloride (Chloroethane) | 75003 | IV |
| Ethyl chloroacetate | 105395 | II |
| Ethylamine | 75047 | V |
| Ethylaniline (N-) | 103695 | III |
| Ethylaniline (o-) | 578541 | III |
| Ethylcellulose | 9004573 | V |
| Ethylcyanoacetate | 105566 | V |
| Ethylene carbonate | 96491 | I |
| Ethylene dibromide (Dibromoethane) | 106934 | I |
| Ethylene glycol | 107211 | I |
| Ethylene glycol diacetate | 111557 | I |
| Ethylene glycol dibutyl ether | 112481 | V |
| Ethylene glycol diethyl ether | 629141 | I |
| (1,2-diethoxyethane). |  |  |
| Ethylene glycol | 110714 | I |
| dimethyl ether |  |  |
| Ethylene glycol monoacetate | 542596 | V |
| Ethylene glycol monobutyl ether | 112072 | I |
| acetate. |  |  |
| Ethylene glycol monobutyl ether | 111762 | I |
| Ethylene glycol monoethyl ether | 111159 | I |
| acetate. |  |  |
| Ethylene glycol monoethyl ether | 110805 | I |
| Ethylene glycol monohexyl ether | 112254 | V |
| Ethylene glycol monomethyl ether acetate | 110496 | I |
| Ethylene glycol monomethyl ether | 109864 | I |
| Ethylene glycol monooctyl ether | 002 | V |
| Ethylene glycol monophenyl ether | 122996 | I |
| Ethylene glycol monopropyl ether | 2807309 | I |
| Ethylene oxide | 75218 | I |
| Ethylenediamine | 107153 | II |
| Ethylenediamine tetraacetic acid | 60004 | V |
| Ethylenimine (Aziridine) | 151564 | II |
| Ethylhexyl acrylate (2-isomer) | 103117 | II |
| Fluoranthene | 206440 | V |
| Formaldehyde | 50000 | I |
| Formamide | 75127 | II |
| Formic acid | 64186 | II |
| Fumaric acid | 110178 | I |
| Glutaraldehyde | 111308 | IV |
| Glyceraldehyde | 367475 | V |
| Glycerol | 56815 | II |
| Glycine | 56406 | II |
| Glyoxal | 107222 | II |
| Hexachlorobenzene | 118741 | II |
| Hexachlorobutadiene | 87683 | II |
| Hexachloroethane | 67721 | II |
| Hexadiene (1,4-) | 592450 | II |
| Hexamethylene- | 100970 | I |
| tetramine. |  |  |
| Hexane | 110543 | V |
| Hexanetriol (1,2,6-) | 106694 | IV |
| Hydroquinone | 123319 | I |
| Hydroxyadipaldehyde | 141311 | V |
| Isobutyl acrylate | 106638 | V |
| Isobutylene | 115117 | V |
| Isophorone | 78591 | IV |
| Isophorone nitrile | 0017 | V |
| Isophthalic acid | 121915 | III |
| Isopropylphenol | 25168063 | III |
| Linear alkylbenzene | \_\_ d | I |
| Maleic anhydride | 108316 | I |
| Maleic hydrazide | 123331 | I |
| Malic acid | 6915157 | I |
| Metanilic acid | 121471 | I |
| Methacrylic acid | 79414 | V |
| Methanol | 67561 | IV |
| Methionine | 63683 | I |
| Methyl acetate | 79209 | IV |
| Methyl acrylate | 96333 | V |
| Methyl bromide (Bromomethane) | 74839 | IV |
| Methyl chloride (Chloromethane) | 74873 | IV |
| Methyl ethyl ketone (2-butanone) | 78933 | V |
| Methyl formate | 107313 | II |
| Methyl hydrazine | 60344 | IV |
| Methyl isobutyl carbinol | 108112 | IV |
| Methyl isobutyl ketone (Hexone) | 108101 | IV |
| Methyl isocyanate | 624839 | IV |
| Methyl mercaptan | 74931 | IV |
| Methyl methacrylate | 80626 | IV |
| Methyl phenyl carbinol | 98851 | II |
| Methyl tert-butyl ether | 1634044 | V |
| Methylamine | 74895 | IV |
| Methylaniline (N-) | 100618 | III |
| Methylcyclohexane | 108872 | III |
| Methylcyclohexanol | 25639423 | V |
| Methylcyclohexanone | 1331222 | III |
| Methylene chloride (Dichloromethane) | 75092 | I |
| Methylene dianiline (4,4′-isomer) | 101779 | I |
| Methylene diphenyl diisocyanate (4,4′-) (MDI) | 101688 | III |
| Methylionones (a-) | 79696 | V |
| Methylpentynol | 77758 | V |
| Methylstyrene (a-) | 98839 | I |
| Naphthalene | 91203 | IV |
| Naphthalene sulfonic acid (a-) | 85472 | IV |
| Naphthalene sulfonic acid (b-) | 120183 | IV |
| Naphthol (a-) | 90153 | IV |
| Naphthol (b-) | 135193 | IV |
| Naphtholsulfonic acid (1-) | 567180 | V |
| Naphthylamine sulfonic acid (1,4-) | 84866 | V |
| Naphthylamine sulfonic acid (2,1-) | 81163 | V |
| Naphthylamine (1-) | 134327 | V |
| Naphthylamine (2-) | 91598 | V |
| Nitroaniline (m-) | 99092 | II |
| Nitroaniline (o-) | 88744 | I |
| Nitroanisole (o-) | 91236 | III |
| Nitroanisole (p-) | 100174 | III |
| Nitrobenzene | 98953 | I |
| Nitronaphthalene (1-) | 86577 | IV |
| Nitrophenol (p-) | 100027 | III |
| Nitrophenol (o-) | 88755 | III |
| Nitropropane (2-) | 79469 | II |
| Nitrotoluene (all isomers) | 1321126 | III |
| Nitrotoluene (o-) | 88722 | III |
| Nitrotoluene (m-) | 99081 | III |
| Nitrotoluene (p-) | 99990 | III |
| Nitroxylene | 25168041 | V |
| Nonylbenzene (branched) | 1081772 | V |
| Nonylphenol | 25154523 | V |
| Octene-1 | 111660 | I |
| Octylphenol | 27193288 | III |
| Paraformaldehyde | 30525894 | I |
| Paraldehyde | 123637 | II |
| Pentachlorophenol | 87865 | III |
| Pentaerythritol | 115775 | I |
| Peracetic acid | 79210 | II |
| Perchloromethyl mercaptan | 594423 | IV |
| Phenanthrene | 85018 | V |
| Phenetidine (p-) | 156434 | III |
| Phenol | 108952 | III |
| Phenolphthalein | 77098 | III |
| Phenolsulfonic acids (all isomers) | 1333397 | III |
| Phenyl anthranilic acid (all isomers) | 91407 | III |
| Phenylenediamine (p-) | 106503 | I |
| Phloroglucinol | 108736 | III |
| Phosgene | 75445 | IV |
| Phthalic acid | 88993 | III |
| Phthalic anhydride | 85449 | III |
| Phthalimide | 85416 | III |
| Phthalonitrile | 91156 | III |
| Picoline (b-) | 108996 | II |
| Piperazine | 110850 | I |
| Propiolactone (beta-) | 57578 | I |
| Propionaldehyde | 123386 | IV |
| Propionic acid | 79094 | I |
| Propylene carbonate | 108327 | V |
| Propylene dichloride (1,2-dichloropropane) | 78875 | IV |
| Propylene glycol | 57556 | I |
| Propylene glycol monomethyl ether | 107982 | I |
| Propylene oxide | 75569 | I |
| Pyrene | 129000 | V |
| Pyridine | 110861 | II |
| p-tert-Butyl toluene | 98511 | III |
| Quinone | 106514 | III |
| Resorcinol | 108463 | I |
| Salicylic acid | 69727 | III |
| Sodium methoxide | 124414 | IV |
| Sodium phenate | 139026 | III |
| Stilbene | 588590 | III |
| Styrene | 100425 | I |
| Succinic acid | 110156 | I |
| Succinonitrile | 110612 | I |
| Sulfanilic acid | 121573 | III |
| Sulfolane | 126330 | II |
| Tartaric acid | 526830 | I |
| Terephthalic acid | 100210 | II |
| Tetrabromophthalic anhydride | 632791 | III |
| Tetrachlorobenzene (1,2,4,5-) | 95943 | I |
| Tetrachloroethane (1,1,2,2-) | 79345 | II |
| Tetrachloroethylene (Perchloroethylene) | 127184 | I |
| Tetrachlorophthalic- | 117088 | III |
| anhydride. |  |  |
| Tetraethyl lead | 78002 | IV |
| Tetraethylene glycol | 112607 | I |
| Tetraethylene- | 112572 | V |
| pentamine. |  |  |
| Tetrahydrofuran | 109999 | I |
| Tetrahydronapthalene | 119642 | IV |
| Tetrahydrophthalic anhydride | 85438 | II |
| Tetramethylene- | 110601 | II |
| diamine. |  |  |
| Tetramethylethylenediamine | 110189 | V |
| Tetramethyllead | 75741 | V |
| Toluene | 108883 | I |
| Toluene 2,4 diamine | 95807 | II |
| Toluene 2,4 diisocyanate | 584849 | II |
| Toluene diisocyanates (mixture) | 26471625 | II |
| Toluene sulfonic acids | 104154 | III |
| Toluenesulfonyl chloride | 98599 | III |
| Toluidine (o-) | 95534 | II |
| Trichloroaniline- | 634935 | III |
| (2,4,6-). |  |  |
| Trichlorobenzene (1,2,3-) | 87616 | V |
| Trichlorobenzene (1,2,4-) | 120821 | I |
| Trichloroethane | 71556 | II |
| (1,1,1-) |  |  |
| Trichloroethane (1,1,2-) (Vinyl trichloride) | 79005 | II |
| Trichloroethylene | 79016 | I |
| Trichlorofluoromethane | 75694 | I |
| Trichlorophenol | 95954 | I |
| (2,4,5-). |  |  |
| (1,1,2-) Trichloro | 76131 | I |
| (1,2,2-) trifluoroethane. |  |  |
| Triethanolamine | 102716 | I |
| Triethylamine | 121448 | IV |
| Triethylene glycol | 112276 | I |
| Triethylene glycol | 112492 | I |
| dimethyl ether. |  |  |
| Triethylene glycol monoethyl ether | 112505 | V |
| Triethylene glycol monomethyl ether | 112356 | I |
| Trimethylamine | 75503 | IV |
| Trimethylcyclohexanol | 933482 | IV |
| Trimethylcyclo- | 2408379 | IV |
| hexanone. |  |  |
| Trimethylcyclo- | 34216347 | V |
| hexylamine. |  |  |
| Trimethylolpropane | 77996 | I |
| Trimethylpentane (2,2,4-) | 540841 | V |
| Tripropylene glycol | 24800440 | V |
| Vinyl acetate | 108054 | II |
| Vinyl chloride (Chloroethylene) | 75014 | I |
| Vinyl toluene | 25013154 | III |
| Vinylcyclohexene (4-) | 100403 | II |
| Vinylidene chloride | 75354 | II |
| (1,1-dichloroethylene). |  |  |
| Vinyl(N-)-pyrrolidone(2-) | 88120 | V |
| Xanthates | 140896 | V |
| Xylene sulfonic acid | 25321419 | III |
| Xylenes (NOS)c | 1330207 | I |
| Xylene (m-) | 108383 | I |
| Xylene (o-) | 95476 | I |
| Xylene (p-) | 106423 | I |
| Xylenols (Mixed) | 1300716 | V |
| Xylidene | 1300738 | III |