

Environmental Protection Agency

HAP at the point of discharge to the atmosphere (or at the point of entry into a control device, if any).

(e) The air oxidation reactor, distillation unit, or reactor is part of a chemical manufacturing process unit that meets the criteria of § 63.100(b).

(f) The gas stream is in the gas phase from the point of origin at the air oxidation reactor, distillation unit, or reactor to the point of discharge to the atmosphere (or to the point of entry into a control device, if any).

(g) The gas stream is discharged to the atmosphere either on-site, off-site, or both.

(h) The gas stream is not any of the items identified in paragraphs (h)(1) through (9) of this section.

(1) A relief valve discharge.

(2) A leak from equipment subject to subpart H of this part.

(3) A gas stream going to a fuel gas system as defined in § 63.101.

(4) A gas stream exiting a control device used to comply with § 63.113.

(5) A gas stream transferred to other processes (on-site or off-site) for reaction or other use in another process (i.e., for chemical value as a product, isolated intermediate, byproduct, or coproduct, or for heat value).

(6) A gas stream transferred for fuel value (i.e., net positive heating value), use, reuse, or for sale for fuel value, use, or reuse.

(7) A storage vessel vent or transfer operation vent subject to § 63.119 or § 63.126.

(8) A vent from a waste management unit subject to §§ 63.132 through 63.137.

(9) A gas stream exiting an analyzer.

(i) The gas stream would meet the characteristics specified in paragraphs (b) through (g) of this section, but, for purposes of avoiding applicability, has been deliberately interrupted, temporarily liquefied, routed through any item of equipment for no process purpose, or disposed of in a flare that does not meet the criteria in § 63.11(b), or an incinerator that does not reduce emissions of organic HAP by 98 percent or to a concentration of 20 parts per million by volume, whichever is less stringent.

[66 FR 6928, Jan. 22, 2001]

Pt. 63, Subpt. F, Table 1

TABLE 1 TO SUBPART F OF PART 63—
SYNTHETIC ORGANIC CHEMICAL MANUFACTURING INDUSTRY CHEMICALS

Chemical name ^a	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

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Chemical name ^a	CAS No. ^b	Group	Chemical name ^a	CAS No. ^b	Group
2-Chloro-1,3-butadiene (Chloroprene)	126998	II	(3,3').		
Chlorodifluoroethane	25497294	V	Dimethyl ether	115106	IV
Chlorodifluoromethane	75456	I	Dimethylformamide (N,N-)	68122	II
Chloroform	67663	I	Dimethylhydrazine	57147	II
Chloronaphthalene	25586430	IV	(1,1').		
Chloronitrobenzene	121733	I	Dimethyl sulfate	77781	I
(m-).			Dimethyl terephthalate	120616	II
Chloronitrobenzene	88733	I	Dimethylamine	124403	IV
(o-).			Dimethylaminoethanol (2-)	108010	I
Chloronitrobenzene	100005	I	Dimethylaniline (N,N')	121697	III
(p-).			Dinitrobenzenes (NOS) ^c	25154545	I
Chlorophenol (m-)	108430	II	Dinitrophenol (2,4-)	51285	III
Chlorophenol (o-)	95578	II	Dinitrotoluene (2,4-)	121142	III
Chlorophenol (p-)	106489	II	Dioxane (1,4-) (1,4-Diethyleneoxide)	1239	11
Chlorotoluene (m-)	108418	III	Dioxolane (1,3-)	646060	I
Chlorotoluene (o-)	95498	III	Diphenyl methane	101815	I
Chlorotoluene (p-)	106434	III	Diphenyl oxide	101848	I
Chlorotrifluoromethane	75729	II	Diphenyl thiourea	102089	III
Chrysene	218019	V	Diphenylamine	122394	III
Cresol and cresylic acid (m-)	108394	III	Dipropylene glycol	110985	I
Cresol and cresylic acid (o-)	95487	III	Di-o-tolyguanidine	97392	III
Cresol and cresylic acid (p-)	106445	III	Dodecanedioic acid	693232	I
Cresols and cresylic acids (mixed) ...	1319773	III	Dodecyl benzene (branched)	123013	V
Cumene	98828	I	Dodecyl phenol (branched)	121158585	V
Cumene hydroperoxide	80159	I	Dodecylaniline	28675174	V
Cyanoacetic acid	372098	II	Dodecylbenzene (n-)	121013	I
Cyclohexane	110827	I	Dodecylphenol	27193868	III
Cyclohexanol	108930	I	Epichlorohydrin (1-chloro-2,3-epoxypropane).	106898	I
Cyclohexanone	108941	I	Ethanolamine	141435	I
Cyclohexylamine	108918	III	Ethyl acrylate	140885	II
Cyclooctadienes	29965977	II	Ethylbenzene	100414	I
Decahydronaphthalene	91178	IV	Ethyl chloride (Chloroethane)	75003	IV
Diacetox-2-Butene (1,4-)	0012	V	Ethyl chloroacetate	105395	II
Diaminophenol hydrochloride	137097	V	Ethylamine	75047	V
Dibromomethane	74953	V	Ethylaniline (N-)	103695	III
Dichloroaniline (mixed isomers)	27134276	I	Ethylaniline (o-)	578541	III
Dichlorobenzene (p-)	106467	I	Ethylcellulose	9004573	V
Dichlorobenzene (m-)	541731	I	Ethylcyanoacetate	105566	V
Dichlorobenzene (o-)	95501	I	Ethylene carbonate	96491	I
Dichlorobenzidine	91941	I	Ethylene dibromide (Dibromoethane)	106934	I
(3,3').			Ethylene glycol	107211	I
Dichlorodifluoromethane	75718	I	Ethylene glycol diacetate	111557	I
Dichloroethane (1,2-) (Ethylenedichloride) (EDC).	107062	I	Ethylene glycol dibutyl ether	112481	V
Dichloroethyl ether (bis(2-chloroethyl)ether).	111444	I	Ethylene glycol diethyl ether (1,2-dietoxyethane).	629141	I
Dichloroethylene (1,2-)	540590	II	Ethylene glycol	110714	I
Dichlorophenol (2,4-)	120832	III	dimethyl ether		
Dichloropropene (1,3-)	542756	II	Ethylene glycol monoacetate	542596	V
Dichlortetrafluoro-ethane	1320372	V	Ethylene glycol monobutyl ether acetate	112072	I
Dichloro-1-butene (3,4-)	760236	II	Ethylene glycol monobutyl ether	111762	I
Dichloro-2-butene (1,4-)	764410	V	Ethylene glycol monoethyl ether acetate	111159	I
Diethanolamine (2,2'-Iminodiethanol)	111422	I	Ethylene glycol monoethyl ether	110805	I
Diethyl sulfate	64675	II	monoethyl ether	112254	V
Diethylamine	109897	IV	Ethylene glycol monomethyl ether acetate	110496	I
Diethylaniline (2,6-)	579668	V	Ethylene glycol monomethyl ether	109864	I
Diethylene glycol	111466	I	Ethylene glycol monoethyl ether	002	V
Diethylene glycol dibutyl ether	112732	I	Ethylene glycol monooctyl ether	122996	I
Diethylene glycol diethyl ether	112367	I	Ethylene glycol monophenyl ether	2807309	I
Diethylene glycol dimethyl ether	111966	I	Ethylene glycol monopropyl ether	75218	I
Diethylene glycol monobutyl ether acetate	124174	I	Ethylene oxide	107153	II
Diethylene glycol monobutyl ether	112345	I	Ethylenediamine	60004	V
Diethylene glycol monoethyl ether acetate	112152	I	Ethylenimine (Aziridine)	151564	II
Diethylene glycol monoethyl ether	111900	I	Ethylhexyl acrylate (2-isomer)	103117	II
Diethylene glycol monoethyl ether	112594	V	Fluoranthen	206440	V
Diethylene glycol monomethyl ether acetate	629389	V	Formaldehyde	50000	I
Diethylene glycol monomethyl ether	111773	I	Formamide	75127	II
Dihydroxybenzoic acid (Resorcylic acid).	27138574	V	Formic acid	64186	II
Dimethylbenzidine	119937	II	Fumaric acid	110178	I
			Glutaraldehyde	111308	IV
			Glyceraldehyde	367475	V

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Chemical name ^a	CAS No. ^b	Group	Chemical name ^a	CAS No. ^b	Group
Glycerol	56815	II	Nitrotoluene (o-)	88722	III
Glycine	56406	II	Nitrotoluene (m-)	99081	III
Glyoxal	107222	II	Nitrotoluene (p-)	99990	III
Hexachlorobenzene	118741	II	Nitroxylene	25168041	V
Hexachlorobutadiene	87683	II	Nonylbenzene (branched)	1081772	V
Hexachloroethane	67721	II	Nonylphenol	25154523	V
Hexadiene (1,4-)	592450	II	Octene-1	111660	I
Hexamethylene-tetramine.	100970	I	Octylphenol	27193288	III
Hexane	110543	V	Paraformaldehyde	30525894	I
Hexanetriol (1,2,6-)	106694	IV	Paraldehyde	123637	II
Hydroquinone	123319	I	Pentachlorophenol	87865	III
Hydroxyadipaldehyde	141311	V	Pentaerythritol	115775	I
Isobutyl acrylate	106638	V	Peracetic acid	79210	II
Isobutylene	115117	V	Perchloromethyl mercaptan	594423	IV
Isophorone	78591	IV	Phenanthrene	85018	V
Isophorone nitrile	0017	V	Phenetidine (p-)	156434	III
Isophthalic acid	121915	III	Phenol	108952	III
Isopropylphenol	25168063	III	Phenolphthalein	77098	III
Linear alkylbenzene	d	I	Phenolsulfonic acids (all isomers)	1333397	III
Maleic anhydride	108316	I	Phenyl anthranilic acid (all isomers)	91407	III
Maleic hydrazide	123331	I	Phenylenediamine (p-)	106503	I
Malic acid	6915157	I	Phloroglucinol	108736	III
Metanilic acid	121471	I	Phosgene	75445	IV
Methacrylic acid	79414	V	Phthalic acid	88993	III
Methanol	67561	IV	Phthalic anhydride	85449	III
Methionine	63683	I	Phthalimide	85416	III
Methyl acetate	79209	IV	Phthalonitrile	91156	III
Methyl acrylate	96333	V	Picoline (b-)	108996	II
Methyl bromide (Bromomethane)	74839	IV	Piperazine	110850	I
Methyl chloride (Chloromethane)	74873	IV	Propiolactone (beta-)	57578	I
Methyl ethyl ketone (2-butanone)	78933	V	Propionaldehyde	123386	IV
Methyl formate	107313	II	Propionic acid	79094	I
Methyl hydrazine	60344	IV	Propylene carbonate	108327	V
Methyl isobutyl carbinol	108112	IV	Propylene dichloride (1,2-dichloropropane).	78875	IV
Methyl isobutyl ketone (Hexone)	108101	IV	Propylene glycol	57556	I
Methyl isocyanate	624839	IV	Propylene glycol monomethyl ether ..	107982	I
Methyl mercaptan	74931	IV	Propylene oxide	75569	I
Methyl methacrylate	80626	IV	Pyrene	129000	V
Methyl phenyl carbinol	98851	II	Pyridine	110861	II
Methyl tert-butyl ether	1634044	V	p-tert-Butyl toluene	98511	III
Methylamine	74895	IV	Quinone	106514	III
Methylaniline (N-)	100618	III	Resorcinol	108463	I
Methylcyclohexane	108872	III	Salicylic acid	69727	III
Methylcyclohexanol	25639423	V	Sodium methoxide	124414	IV
Methylcyclohexanone	1331222	III	Sodium phenate	139026	III
Methylene chloride (Dichloromethane).	75092	I	Stilbene	588590	III
Methylene dianiline (4,4'-isomer)	101779	I	Styrene	100425	I
Methylene diphenyl diisocyanate (4,4') (MDI).	101688	III	Succinic acid	110156	I
Methylionones (a-)	79696	V	Succinonitrile	110612	I
Methylpentanol	77758	V	Sulfanic acid	121573	III
Methylstyrene (a-)	98839	I	Sulfolane	126330	II
Naphthalene	91203	IV	Tartaric acid	526830	I
Naphthalene sulfonic acid (a-)	85472	IV	Terephthalic acid	100210	II
Naphthalene sulfonic acid (b-)	120183	IV	Tetrabromophthalic anhydride	632791	III
Naphthol (a-)	90153	IV	Tetrachlorobenzene (1,2,4,5-)	95943	I
Naphthol (b-)	135193	IV	Tetrachloroethane (1,1,2,2-)	79345	II
Naphtholsulfonic acid (1-)	567180	V	Tetrachloroethylene (Perchloroethylene).	127184	I
Naphthylamine sulfonic acid (1,4-)	84866	V	Tetrachlorophthalic-anhydride	117088	III
Naphthylamine sulfonic acid (2,1-)	81163	V	Tetraethyl lead	78002	IV
Naphthylamine (1-)	134327	V	Tetraethylene glycol	112607	I
Naphthylamine (2-)	91598	V	Tetraethylene-pentamine.	112572	V
Nitroaniline (m-)	99092	II	Tetrahydrofuran	109999	I
Nitroaniline (c-)	88744	I	Tetrahydronaphthalene	119642	IV
Nitroanisole (o-)	91236	III	Tetrahydrophthalic anhydride	85438	II
Nitroanisole (p-)	100174	III	Tetramethylene-diamine	110601	II
Nitrobenzene	98953	I	Tetramethyleneethylenediamine	110189	V
Nitronaphthalene (1-)	86577	IV	Tetramethyllead	75741	V
Nitrophenol (p-)	100027	III	Toluene	108883	I
Nitrophenol (o-)	88755	III	Toluene 2,4 diamine	95807	II
Nitropropane (2-)	79469	II			
Nitrotoluene (all isomers)	1321126	III			

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Chemical name ^a	CAS No. ^b	Group
Toluene 2,4 diisocyanate	584849	II
Toluene diisocyanates (mixture)	26471625	II
Tolene 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
Trimethylolthane (2,2,4-)	540841	V
Tripropylene glycol	24800440	V
Vinyl acetate	108054	II
Vinyl chloride (Chloroethylene)	75014	I
Vinyl toluene	25013154	III
Vinylycyclohexene (4-)	100403	II
Vinyldiene 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
Xylylene	1300738	III

^aIsomer means all structural arrangements for the same number of atoms of each element and does not mean salts, esters, or derivatives.

^bCAS Number = Chemical Abstract Service number.

^cNOS = not otherwise specified.

^dNo CAS number assigned.

[59 FR 19454, Apr. 22, 1994, as amended at 59 FR 48176, Sept. 20, 1994; 61 FR 31439, June 20, 1996; 63 FR 26082, May 12, 1998]

TABLE 2 TO SUBPART F OF PART 63—ORGANIC HAZARDOUS AIR POLLUTANTS

Chemical name ^{a,b}	CAS No. ^c
Acenaphthene	83329
Acetaldehyde	75070
Acetamide	60355
Acetonitrile	75058
Acetophenone	98862
Acrolein	107028
Acrylamide	79061

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Chemical name ^{a,b}	CAS No. ^c
Acrylic acid	79107
Acrylonitrile	107131
Alizarin	72480
Allyl chloride	107051
Aniline	62533
Anisidine (o-)	90040
Anthracene	120127
Anthraquinone	84651
Benzene	71432
Benzotrichloride	98077
Benzyl chloride	100447
Biphenyl	92524
Bis(chlormethyl)ether	542881
Bromoform	75252
Bromonaphthalene	27497514
Butadiene (1,3-)	106990
Carbon disulfide	75150
Carbon tetrachloride	56235
Chloroacetic acid	79118
Chloroacetophenone (2-)	532274
Chlorobenzene	108907
2-Chloro-1,3-butadiene (Chloroprene)	126998
Chloroform	67663
Chloronaphthalene	25586430
Chrysene	218019
Cresols and cresylic acids (mixed)	1319773
Cresol and cresylic acid (o-)	95487
Cresol and cresylic acid (m-)	108394
Cresol and cresylic acid (p-)	106445
Cumene	98828
Dichlorobenzene (p-)	106467
Dichlorobenzidine (3,3')	91941
Dichloroethane (1,2-) (Ethylene dichloride) (EDC)	107062
Dichloroethylether (Bis(2-chloroethyl)ether)	111444
Dichloropropene (1,3-)	542756
Diethanolamine (2,2'-Iminodiethanol)	111422
Dimethylaniline (N,N-)	121697
Diethyl sulfate	64675
Dimethylbenzidine (3,3')	119937
Dimethylformamide (N,N-)	68122
Dimethylhydrazine (1,1-)	58147
Dimethylphthalate	131113
Dimethylsulfate	77781
Dinitrophenol (2,4-)	51285
Dinitrotoluene (2,4-)	121142
Dioxane (1,4-) (1,4-Diethyleneoxide)	123911
1,2-Diphenylhydrazine	122667
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106898
Ethyl acrylate	140885
Ethylbenzene	100414
Ethyl chloride (Chloroethane)	75003
Ethylene dibromide (Dibromoethane)	106934
Ethylene glycol	107211
Ethylene oxide	75218
Ethyldiene dichloride (1,1-Dichloroethane)	75343
Fluoranthene	206440
Formaldehyde	50000
Glycol ethers ^d	
Hexachlorobenzene	118741
Hexachlorobutadiene	87683
Hexachloroethane	67721
Hexane	110543
Hydroquinone	123319
Isophorone	78591
Maleic anhydride	108316
Methanol	67561
Methylbromide (Bromomethane)	74839
Methylchloride (Chloromethane)	74873
Methyl hydrazine	60344
Methyl isobutyl ketone (Hexone)	108101
Methyl isocyanate	624839
Methyl methacrylate	80626
Methyl tert-butyl ether	1634044