

APPENDIX B

Clean Air Act Amendments of 1990 Hazardous Air Pollutant (HAP) List

Sorted by CAS Number		VOC	PM
CAS #	Name		
----	Fine mineral fibers*	No	Yes
----	Glycol ethers* - Note the glycol ether ethylene glycol monobutyl ether (EGBE or butyl cellosolve solvent, CAS # 111762), was delisted 11/29/04	Yes	No
----	Polycyclic organic matter	Yes	No
----	Radionuclides (including radon)*	No	No
50000	Formaldehyde	Yes	No
51285	2,4-Dinitrophenol	No	Yes
51796	Ethyl carbamate (Urethane)	Yes	No
53963	2-Acetylaminofluorene	No	Yes
56235	Carbon tetrachloride	Yes	No
56382	Parathion	Yes	No
57125	Cyanide*	No	No
57147	1,1-Dimethyl hydrazine	Yes	No
57578	beta-Propiolactone	Yes	No
57749	Chlordane	Yes	No
58899	Lindane (all isomers)	Yes	No
59892	N-Nitrosomorpholine	Yes	No
60117	Dimethyl aminoazobenzene	Yes	No
60344	Methyl hydrazine	Yes	No
60355	Acetamide	No	Yes
62533	Aniline	Yes	No
62737	Dichlorvos	Yes	No
62759	N-Nitrosodimethylamine	Yes	No
63252	Carbaryl	Yes	No
64675	Diethyl sulfate	Yes	No
67561	Methanol	Yes	No
67663	Chloroform	Yes	No
67721	Hexachloroethane	Yes	No
68122	Dimethyl formamide	Yes	No
71432	Benzene (including benzene from gasoline)	Yes	No
71556	Methyl chloroform (1,1,1-Trichloroethane)	No	No
72435	Methoxychlor	Yes	No
74839	Methyl bromide (Bromomethane)	Yes	No

* Denotes a reportable base chemical for aggregate groups of compounds, where the associated compounds could be VOCs or PM. Please contact KDHE for questions.

Sorted by CAS Number		VOC	PM
CAS #	Name		
74873	Methyl chloride (Chloromethane)	Yes	No
74884	Methyl iodide (Iodomethane)	Yes	No
75003	Ethyl chloride (Chloroethane)	Yes	No
75014	Vinyl chloride	Yes	No
75058	Acetonitrile	Yes	No
75070	Acetaldehyde	Yes	No
75092	Methylene chloride (Dichloromethane)	No	No
75150	Carbon disulfide	Yes	No
75218	Ethylene oxide	Yes	No
75252	Bromoform	Yes	No
75343	Ethylidene dichloride (1,1-Dichloroethane)	Yes	No
75354	Vinylidene chloride (1,1-Dichloroethylene)	Yes	No
75445	Phosgene	Yes	No
75558	1,2-Propylenimine (2-Methyl aziridine)	Yes	No
75569	Propylene oxide	Yes	No
76448	Heptachlor	Yes	No
77474	Hexachlorocyclopentadiene	Yes	No
77781	Dimethyl sulfate	Yes	No
78591	Isophorone	Yes	No
78875	Propylene dichloride (1,2-Dichloropropane)	Yes	No
79005	1,1,2-Trichloroethane	Yes	No
79016	Trichloroethylene	Yes	No
79061	Acrylamide	Yes	No
79107	Acrylic acid	Yes	No
79118	Chloroacetic acid	Yes	No
79345	1,1,2,2-Tetrachloroethane	Yes	No
79447	Dimethyl carbamoyl chloride	Yes	No
79469	2-Nitropropane	Yes	No
80626	Methyl methacrylate	Yes	No
82688	Pentachloronitrobenzene (Quintobenzene)	Yes	No
84742	Dibutyl phthalate	Yes	No
85449	Phthalic anhydride	Yes	No
87683	Hexachlorobutadiene	Yes	No
87865	Pentachlorophenol	Yes	No
88062	2,4,6-Trichlorophenol	Yes	No
90040	o-Anisidine	Yes	No
91203	Naphthalene	Yes	No
91225	Quinoline	Yes	No
91941	3,3'-Dichlorobenzidene	Yes	No
92524	Biphenyl	Yes	No
92671	4-Aminobiphenyl	Yes	No

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Sorted by CAS Number		VOC	PM
CAS #	Name		
92875	Benzidine	Yes	No
92933	4-Nitrobiphenyl	Yes	No
94757	2,4-D, salts and esters	Yes	No
95476	o-Xylene (xylene isomer)	Yes	No
95487	o-Cresol (cresol isomer)	Yes	No
95534	o-Toluidine	Yes	No
95807	2,4-Toluene diamine	Yes	No
95954	2,4,5-Trichlorophenol	Yes	No
96093	Styrene oxide	Yes	No
96128	1,2-Dibromo-3-chloropropane	Yes	No
96457	Ethylene thiourea	Yes	No
98077	Benzotrichloride	Yes	No
98828	Cumene	Yes	No
98862	Acetophenone	Yes	No
98953	Nitrobenzene	Yes	No
100027	4-Nitrophenol	Yes	No
100414	Ethylbenzene	Yes	No
100425	Styrene	Yes	No
100447	Benzyl chloride	Yes	No
101144	4,4'-Methylene bis(2-chloroaniline)	Yes	No
101688	Methylene diphenyl diisocyanate (MDI)	Yes	No
101779	4,4'-Methylenedianiline	Yes	No
106423	p-Xylene (xylene isomer)	Yes	No
106445	p-Cresol (cresol isomer)	Yes	No
106467	1,4-Dichlorobenzene (Paradichlorobenzene)	Yes	No
106503	p-Phenylenediamine	Yes	No
106514	Quinone	Yes	No
106887	1,2-Epoxybutane	Yes	No
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	Yes	No
106934	Ethylene dibromide (Dibromoethane)	Yes	No
106990	1,3-Butadiene	Yes	No
107028	Acrolein	Yes	No
107051	Allyl chloride	Yes	No
107062	Ethylene dichloride (1,2-Dichloroethane)	Yes	No
107131	Acrylonitrile	Yes	No
107211	Ethylene glycol	Yes	No
107302	Chloromethyl methyl ether	Yes	No
108054	Vinyl acetate	Yes	No
108101	Methyl isobutyl ketone (Hexone)	Yes	No
108316	Maleic anhydride	Yes	No
108383	m-Xylene (xylene isomer)	Yes	No

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Sorted by CAS Number		VOC	PM
CAS #	Name		
108394	m-Cresol (cresol isomer)	Yes	No
108883	Toluene	Yes	No
108907	Chlorobenzene	Yes	No
108952	Phenol	Yes	No
110543	Hexane (n-Hexane)	Yes	No
111422	Diethanolamine	Yes	No
111444	Dichloroethyl ether (bis(2-Chloroethyl)ether)	Yes	No
114261	Propoxur (Baygon)	Yes	No
117817	bis(2-Ethylhexyl)phthalate (DEHP)	Yes	No
118741	Hexachlorobenzene	Yes	No
119904	3,3'-Dimethoxybenzidine	Yes	No
119937	3,3'-Dimethylbenzidine	Yes	No
120809	Catechol	Yes	No
120821	1,2,4-Trichlorobenzene	Yes	No
121142	2,4-Dinitrotoluene	Yes	No
121448	Triethylamine	Yes	No
121697	N,N-Dimethylaniline	Yes	No
122667	1,2-Diphenylhydrazine	Yes	No
123319	Hydroquinone	Yes	No
123386	Propionaldehyde	Yes	No
123911	1,4-Dioxane (1,4-Diethyleneoxide)	Yes	No
126998	Chloroprene	Yes	No
127184	Tetrachloroethylene (Perchloroethylene)	No	No
131113	Dimethyl phthalate	Yes	No
132649	Dibenzofuran	Yes	No
133062	Captan	Yes	No
133904	Chloramben	Yes	No
140885	Ethyl acrylate	Yes	No
151564	Ethylene imine (Aziridine)	Yes	No
156627	Calcium cyanamide	No	Yes
302012	Hydrazine	No	No
334883	Diazomethane	Yes	No
463581	Carbonyl sulfide	Yes	No
510156	Chlorobenzilate	Yes	No
532274	2-Chloroacetophenone	Yes	No
534521	4,6-Dinitro-o-cresol, and salts	Yes	No
540841	2,2,4-Trimethylpentane	Yes	No
542756	1,3-Dichloropropene	Yes	No
542881	bis(Chloromethyl)ether	Yes	No
584849	2,4-Toluene diisocyanate	Yes	No
593602	Vinyl bromide	Yes	No

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Sorted by CAS Number		VOC	PM
CAS #	Name		
624839	Methyl isocyanate	Yes	No
680319	Hexamethylphosphoramide	Yes	No
684935	N-Nitroso-N-methylurea	Yes	No
822060	Hexamethylene diisocyanate	Yes	No
1120714	1,3-Propane sultone	Yes	No
1319773	Cresols/cresylic acid (isomers and mixture)	Yes	No
1330207	Xylenes (isomers and mixture)	Yes	No
1332214	Asbestos	No	Yes
1336363	Polychlorinated biphenyls (Aroclors)	Yes	No
1582098	Trifluralin	Yes	No
1634044	Methyl tert-butyl ether (MTBE)	Yes	No
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	No
3547044	DDE	Yes	No
7439921	Lead*	No	Yes
7439965	Manganese*	No	Yes
7439976	Mercury*	No	No
7440020	Nickel*	No	Yes
7440360	Antimony*	No	Yes
7440382	Arsenic*	No	Yes
7440417	Beryllium*	No	Yes
7440439	Cadmium*	No	Yes
7440473	Chromium*	No	Yes
7440484	Cobalt*	No	Yes
7550450	Titanium tetrachloride	No	Yes
7647010	Hydrochloric acid	No	No
7664393	Hydrogen fluoride (Hydrofluoric acid)	No	No
7723140	Phosphorus	No	No
7782492	Selenium*	No	Yes
7782505	Chlorine	No	No
7803512	Phosphine	No	No
8001352	Toxaphene (chlorinated camphene)	Yes	No

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Sorted by Chemical Name		VOC	PM
CAS #	Name		
79345	1,1,2,2-Tetrachloroethane	Yes	No
79005	1,1,2-Trichloroethane	Yes	No
57147	1,1-Dimethyl hydrazine	Yes	No
120821	1,2,4-Trichlorobenzene	Yes	No
96128	1,2-Dibromo-3-chloropropane	Yes	No
122667	1,2-Diphenylhydrazine	Yes	No
106887	1,2-Epoxybutane	Yes	No
75558	1,2-Propylenimine (2-Methyl aziridine)	Yes	No
106990	1,3-Butadiene	Yes	No
542756	1,3-Dichloropropene	Yes	No
1120714	1,3-Propane sultone	Yes	No
106467	1,4-Dichlorobenzene (Paradichlorobenzene)	Yes	No
123911	1,4-Dioxane (1,4-Diethyleneoxide)	Yes	No
540841	2,2,4-Trimethylpentane	Yes	No
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	Yes	No
95954	2,4,5-Trichlorophenol	Yes	No
88062	2,4,6-Trichlorophenol	Yes	No
94757	2,4-D, salts and esters	Yes	No
51285	2,4-Dinitrophenol	No	Yes
121142	2,4-Dinitrotoluene	Yes	No
95807	2,4-Toluene diamine	Yes	No
584849	2,4-Toluene diisocyanate	Yes	No
53963	2-Acetylaminofluorene	No	Yes
532274	2-Chloroacetophenone	Yes	No
79469	2-Nitropropane	Yes	No
91941	3,3'-Dichlorobenzidine	Yes	No
119904	3,3'-Dimethoxybenzidine	Yes	No
119937	3,3'-Dimethylbenzidine	Yes	No
101144	4,4'-Methylene bis(2-chloroaniline)	Yes	No
101779	4,4'-Methylenedianiline	Yes	No
534521	4,6-Dinitro-o-cresol, and salts	Yes	No
92671	4-Aminobiphenyl	Yes	No
92933	4-Nitrobiphenyl	Yes	No
100027	4-Nitrophenol	Yes	No

** Denotes a reportable base chemical for aggregate groups of compounds, where the associated compounds could be VOCs or PM. Please contact KDHE for questions.*

Sorted by Chemical Name		VOC	PM
CAS #	Name		
75070	Acetaldehyde	Yes	No
60355	Acetamide	No	Yes
75058	Acetonitrile	Yes	No
98862	Acetophenone	Yes	No
107028	Acrolein	Yes	No
79061	Acrylamide	Yes	No
79107	Acrylic acid	Yes	No
107131	Acrylonitrile	Yes	No
107051	Allyl chloride	Yes	No
62533	Aniline	Yes	No
7440360	Antimony*	No	Yes
7440382	Arsenic*	No	Yes
1332214	Asbestos	No	Yes
71432	Benzene (including benzene from gasoline)	Yes	No
92875	Benzidine	Yes	No
98077	Benzotrichloride	Yes	No
100447	Benzyl chloride	Yes	No
7440417	Beryllium*	No	Yes
57578	beta-Propiolactone	Yes	No
92524	Biphenyl	Yes	No
117817	bis(2-Ethylhexyl)phthalate (DEHP)	Yes	No
542881	bis(Chloromethyl)ether	Yes	No
75252	Bromoform	Yes	No
7440439	Cadmium*	No	Yes
156627	Calcium cyanamide	No	Yes
133062	Captan	Yes	No
63252	Carbaryl	Yes	No
75150	Carbon disulfide	Yes	No
56235	Carbon tetrachloride	Yes	No
463581	Carbonyl sulfide	Yes	No
120809	Catechol	Yes	No
133904	Chloramben	Yes	No
57749	Chlordane	Yes	No
7782505	Chlorine	No	No
79118	Chloroacetic acid	Yes	No
108907	Chlorobenzene	Yes	No
510156	Chlorobenzilate	Yes	No
67663	Chloroform	Yes	No
107302	Chloromethyl methyl ether	Yes	No
126998	Chloroprene	Yes	No
7440473	Chromium*	No	Yes

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Sorted by Chemical Name		VOC	PM
CAS #	Name		
7440484	Cobalt*	No	Yes
1319773	Cresols/cresylic acid (isomers and mixture)	Yes	No
98828	Cumene	Yes	No
57125	Cyanide*	No	No
3547044	DDE	Yes	No
334883	Diazomethane	Yes	No
132649	Dibenzofuran	Yes	No
84742	Dibutyl phthalate	Yes	No
111444	Dichloroethyl ether (bis(2-Chloroethyl)ether)	Yes	No
62737	Dichlorvos	Yes	No
111422	Diethanolamine	Yes	No
64675	Diethyl sulfate	Yes	No
60117	Dimethyl aminoazobenzene	Yes	No
79447	Dimethyl carbamoyl chloride	Yes	No
68122	Dimethyl formamide	Yes	No
131113	Dimethyl phthalate	Yes	No
77781	Dimethyl sulfate	Yes	No
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	Yes	No
140885	Ethyl acrylate	Yes	No
51796	Ethyl carbamate (Urethane)	Yes	No
75003	Ethyl chloride (Chloroethane)	Yes	No
100414	Ethylbenzene	Yes	No
106934	Ethylene dibromide (Dibromoethane)	Yes	No
107062	Ethylene dichloride (1,2-Dichloroethane)	Yes	No
107211	Ethylene glycol	Yes	No
151564	Ethylene imine (Aziridine)	Yes	No
75218	Ethylene oxide	Yes	No
96457	Ethylene thiourea	Yes	No
75343	Ethylidene dichloride (1,1-Dichloroethane)	Yes	No
----	Fine mineral fibers*	No	Yes
50000	Formaldehyde	Yes	No
----	Glycol ethers* - Note the glycol ether ethylene glycol monobutyl ether (EGBE or butyl cellosolve solvent, CAS # 111762), was delisted 11/29/04	Yes	No
76448	Heptachlor	Yes	No
118741	Hexachlorobenzene	Yes	No
87683	Hexachlorobutadiene	Yes	No
77474	Hexachlorocyclopentadiene	Yes	No
67721	Hexachloroethane	Yes	No
822060	Hexamethylene diisocyanate	Yes	No
680319	Hexamethylphosphoramide	Yes	No

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Sorted by Chemical Name		VOC	PM
CAS #	Name		
110543	Hexane (n-Hexane)	Yes	No
302012	Hydrazine	No	No
7647010	Hydrochloric acid	No	No
7664393	Hydrogen fluoride (Hydrofluoric acid)	No	No
123319	Hydroquinone	Yes	No
78591	Isophorone	Yes	No
7439921	Lead*	No	Yes
58899	Lindane (all isomers)	Yes	No
108316	Maleic anhydride	Yes	No
7439965	Manganese*	No	Yes
108394	m-Cresol (cresol isomer)	Yes	No
7439976	Mercury*	No	No
67561	Methanol	Yes	No
72435	Methoxychlor	Yes	No
74839	Methyl bromide (Bromomethane)	Yes	No
74873	Methyl chloride (Chloromethane)	Yes	No
71556	Methyl chloroform (1,1,1-Trichloroethane)	No	No
60344	Methyl hydrazine	Yes	No
74884	Methyl iodide (Iodomethane)	Yes	No
108101	Methyl isobutyl ketone (Hexone)	Yes	No
624839	Methyl isocyanate	Yes	No
80626	Methyl methacrylate	Yes	No
1634044	Methyl tert-butyl ether (MTBE)	Yes	No
75092	Methylene chloride (Dichloromethane)	No	No
101688	Methylene diphenyl diisocyanate (MDI)	Yes	No
108383	m-Xylene (xylene isomer)	Yes	No
121697	N,N-Dimethylaniline	Yes	No
91203	Naphthalene	Yes	No
7440020	Nickel*	No	Yes
98953	Nitrobenzene	Yes	No
62759	N-Nitrosodimethylamine	Yes	No
59892	N-Nitrosomorpholine	Yes	No
684935	N-Nitroso-N-methylurea	Yes	No
90040	o-Anisidine	Yes	No
95487	o-Cresol (cresol isomer)	Yes	No
95534	o-Toluidine	Yes	No
95476	o-Xylene (xylene isomer)	Yes	No
56382	Parathion	Yes	No
106445	p-Cresol (cresol isomer)	Yes	No
82688	Pentachloronitrobenzene (Quintobenzene)	Yes	No
87865	Pentachlorophenol	Yes	No

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Sorted by Chemical Name		VOC	PM
CAS #	Name		
108952	Phenol	Yes	No
75445	Phosgene	Yes	No
7803512	Phosphine	No	No
7723140	Phosphorus	No	No
85449	Phthalic anhydride	Yes	No
1336363	Polychlorinated biphenyls (Aroclors)	Yes	No
----	Polycyclic organic matter	Yes	No
106503	p-Phenylenediamine	Yes	No
123386	Propionaldehyde	Yes	No
114261	Propoxur (Baygon)	Yes	No
78875	Propylene dichloride (1,2-Dichloropropane)	Yes	No
75569	Propylene oxide	Yes	No
106423	p-Xylene (xylene isomer)	Yes	No
91225	Quinoline	Yes	No
106514	Quinone	Yes	No
----	Radionuclides (including radon)*	No	No
7782492	Selenium*	No	Yes
100425	Styrene	Yes	No
96093	Styrene oxide	Yes	No
127184	Tetrachloroethylene (Perchloroethylene)	No	No
7550450	Titanium tetrachloride	No	Yes
108883	Toluene	Yes	No
8001352	Toxaphene (chlorinated camphene)	Yes	No
79016	Trichloroethylene	Yes	No
121448	Triethylamine	Yes	No
1582098	Trifluralin	Yes	No
108054	Vinyl acetate	Yes	No
593602	Vinyl bromide	Yes	No
75014	Vinyl chloride	Yes	No
75354	Vinylidene chloride (1,1-Dichloroethylene)	Yes	No
1330207	Xylenes (isomers and mixture)	Yes	No

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