

## APPENDIX A

### PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
75070	Acetaldehyde	21	-125	900.710
60355	Acetamide	222	79-81	1.00
75058	Acetonitrile	82	-48	86.8
98862	Acetophenone	202	19-20	0.298
53963	2-Acetylaminofluorene		194	
107028	Acrolein	53	-87	423.130
79061	Acrylamide	125/25mm	84-86	0.012
79107	Acrylic acid	139	13	5.470
107131	Acrylonitrile	77	-83	106.300
107051	Allyl chloride	44-46	-134.5	357.270
92671	4-Aminobiphenyl	191/15mm	52-54	
62533	Aniline	184	-6	0.367
90040	o-Anisidine	225	5-6	
71432	Benzene	80	5	95.038
92875	Benzidine	400/740mm	125	0.00001
98077	Benzotrichloride	219-223	-7	0.200
100447	Benzyl chloride	177-181	-43	1.210
92524	Biphenyl	255	69-72	0.029
117817	Bis(2-ethylhexyl) phthalate	384	-50	9.8 X 10-8
542881	Bis(chloromethyl) ether	106	-41.5	30.000
75252	Bromoform	150-151	8.3	5.600
106990	1,3-Butadiene	-4.5	-109	2100.169
105602	Caprolactam	268	70-72	0.700

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
133062	Captan		158-164	<1,2.10-9 mbar @20°C
63252	Carbaryl		145	0.00004
75150	Carbon disulfide	46	-112	360.227
56235	Carbon tetrachloride	77	-23	115.246
463581	Carbonyl sulfide	-50	-138	
120809	Catechol	245	104-106	710.000
133904	Chloramben		200.5	0.002
57749	Chlordane	175	107.9	0.00001
79118	Chloroacetic acid	189	62-64	1.000
532274	2-Chloroacetophenone	244-245	54-56	0.012
108907	Chlorobenzene	132	-45	11.967
510156	Chlorobenzilate	147	36.65	
67663	Chloroform	60.5-61.5	-63	194.071
107302	Chloromethyl methyl ether	55-57	-103.5	224.000
126998	Chloroprene	59.4	-130	178.000
95487	o-Cresol	191	32-34	0.230
108394	m-Cresol	203	8-10	0.167
106445	p-Cresol	202	32-34	0.089
1319773	Cresylic acid	197	30.00	0.300
98828	Cumene	152-154	-96	4.871
94757	2,4-D salts and esters	160/.4mm	138	<10-7 mbar @20°C
3547044	DDE		88-90	
334883	Diazomethane	-23	-145 (fp)	

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
132649	Dibenzofurans			
96128	1,2-Dibromo-3-chloropropane	196	5.0	0.800
84742	Dibutyl phthalate	340	-35	0.00016
106467	1,4-Dichlorobenzene(p)	173	54-56	0.6
91941	3,3'-Dichlorobenzidine		165	
111444	Dichloroethyl ether	65-67/15 mm	-47	0.507
542756	1,3-Dichloropropene	105-106/730mm	np	43.000
62737	Dichlorvos	117/10mm		2.9E3 mb @ 20°C
111422	Diethanolamine	268.4	27-30	0.01
121697	N,N-Diethylaniline	217	-38	0.003
64675	Diethyl sulfate	208	-24	0.190
119904	3,3'-Dimethoxybenzidine		132-133	0.00000029
60117	Dimethylaminoazobenzene		111	
119937	3,3'-Dimethylbenzidine		129-131	
79447	Dimethyl carbamoyl chloride	165	-33.0	
68122	Dimethyl formamide	153	-61	3.995
57147	1,1-Dimethylhydrazine	62-64/753mm	-58	156.823
131113	Dimethyl phthalate	282	2	<0.01
77781	Dimethyl sulfate	188	-32	0.100
534521	4,6-Dinitro-o-cresol and salts	312	87.5	0.0051
51285	2,4-Dinitrophenol	106-108	114.5	53.8
121142	2,4-Dinitrotoluene	300	67-70	0.005
123911	1,4-Dioxane	100-102	11.8	37.308
122667	1,2-Diphenylhydrazine	220	123-126	0.00005230

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
106898	Epichlorohydrin	115-117	-57	17.002
106887	1,2-Epoxybutane	63	-50 (fp)	5.8 psia (Reid)
140885	Ethyl acrylate	99	-71	40.000
100414	Ethylbenzene	136	-95	9.909
51796	Ethyl carbamate	180	49	0.360
75003	Ethyl chloride	12	-136	1198.601
106934	Ethylene dibromide	131-132	9-10	11.814
107062	Ethylene dichloride	83	-35	78.107
107211	Ethylene glycol	196-198	-13	0.089
151564	Ethylene imine	56.6	-71.5	160.0
75218	Ethylene oxide	11	-111	511.492
96457	Ethylene thiourea		197-200	
75343	Ethylidene dichloride	57	-97	80.000
50000	Formaldehyde	-20	-92	2.200
	Glycol ethers			
76448	Heptachlor	145	95.5	0.0003 mm Hg @25°C
118741	Hexachlorobenzene	323-326	227-229	1.000
87683	Hexachlorobutadiene	210-220	-22 to -19	0.1
77474	Hexachlorocyclopentadiene	239	-9	0.081
67721	Hexachloroethane	186	190-195	0.081
822060	Hexamethylene-1,6-diisocyanate	225	-67	0.0500
680319	Hexamethylphosphoramide	230-232	7	.0300
110543	Hexane	69	-95	150.00
302012	Hydrazine	113.5	2	14.4

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
123319	Hydroquinone	285	172-175	
78591	Isophorone	213-214	-8	0.439
58899	Lindane	323.4	112.5	1,2.10-5mb @20C
108316	Maleic anhydride	200	54-56	0.000
67561	Methanol	64.6	-98	124.883
72435	Methoxychlor		89	very low
74839	Methyl bromide	4	-94	1591.890
74873	Methyl chloride	-24.2	-97	3830.000
71556	Methyl chloroform	74-76	-50	133.353
78933	Methyl ethyl ketone	80	-87	90.181
60344	Methyl hydrazine	87	-52.4	49.6
74884	Methyl iodide	41-43	-64	400.00
108101	Methyl isobutyl ketone	117-118	-80	19.283
624839	Methyl isocyanate	37-39	-17	348.0
80626	Methyl methacrylate	100	-48	36.333
1634044	Methyl tert-butyl ether	53-56	-115	245.0
101144	4,4-Methylene bis(2-chloroaniline)		99-107	
75092	Methylene chloride	39.8-40	-97	429.243
101688	Methylene diphenyl diisocyanate		37	.001
101779	4,4'-Methylenedianiline	265	89-91	
91203	Naphthalene	217.7	80-82	0.087
98953	Nitrobenzene	210-211	5-6	0.259
92933	4-Nitrobiphenyl	340	112-114	
100027	4-Nitrophenol	279	113-115	0.380

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
79469	2-Nitropropane	120	-93	20.120
684935	N-Nitroso-N-methylurea		123-124	
62759	N-Nitrosodimethylamine	153/774mm		2.7
59892	N-Nitrosomorpholine	139-140/25mm	29	
56382	Parathion	375	6	0.003
82688	Pentachloronitrobenzene	328	144	0.13
87865	Pentachlorophenol	309.5	190	~0.005
108952	Phenol	182	40-42	0.352
106503	p-Phenylenediamine	267	143-145	0.005
75445	Phosgene	8.2/760mm	-118	1418
85449	Phthalic anhydride	284	131-134	0.002
1336363	Polychlorinated biphenyls			
1120714	1,3-Propane sultone	180	31-33	
57578	beta-Propiolactone	162	-33	3.4
123386	Propionaldehyde	46-50	-81	318.730
114261	Propoxur		32.19	<10-5 mbar @20°C
78875	Propylene dichloride	95-96	-100	40.000
75569	Propylene oxide	34	-112	539.319
75558	1,2-Propylenimine	66-67	-65	112.0
91255	Quinoline	237.7	-15	Not available
106514	Quinone		113-115	0.1000
100425	Styrene	145-146	-31	6.591
96093	Styrene oxide	194	-37	0.300
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin			

APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
79345	1,1,2,2-Tetrachloroethane	147	-43	4.339
127184	Tetrachloroethylene	121	-22	18.090
108883	Toluene	111	-93	28.402
95807	2,4-Toluene diamine	283-285	97-99	0.001
584849	2,4-Toluene diisocyanate	251/760mm	20	0.1
95534	o-Toluidine	199-200	-28	0.242
8001352	Toxaphene		77.5	0.40
120821	1,2,4-Trichlorobenzene	214	16	0.180
79005	1,1,2-Trichloroethane	110-115	-37	21.573
79016	Trichloroethylene	86.9	-84.8	69.037
95954	2,4,5-Trichlorophenol	248/740mm	67-69	0.05
88062	2,4,6-Trichlorophenol	246	64-66	0.300
121448	Triethylamine	88.8	-115	67.970
1582098	Trifluralin	139-149	49	0
540841	2,2,4-Trimethylpentane	98-99	-107	40.600
108054	Vinyl acetate	72-73	-93	114.730
593602	Vinyl bromide	16/750mm	-139	1058.3
75014	Vinyl chloride	-13.4	-153.8	2660.725
75354	Vinylidene chloride	30-32	-122	601.198
1330207	Xylenes (isomers and mixture)			
95476	o-Xylene	143-145	-25 to -23	6.604
108383	m-Xylene	138-139	-47.9 (Fp)	11.721
106423	p-Xylene	138	12-13	8.747
	Antimony compounds			



APPENDIX A: PHYSICAL PROPERTIES OF PROPOSED CLEAN AIR ACT COMPOUNDS/CHEMICALS

CAS #	Compound/Chemical	Boiling Point (celsius)	Melting Point (celsius)	Vapor Pressure (mm @ 20°C)
1332214	Asbestos			
	Arsenic compounds			
	Beryllium compounds			
	Cadmium compounds			
156627	Calcium cyanamide		1340	
7782505	Chlorine	-34.1	-101	4800 @ 20C
	Chromium compounds			
	Cobalt compounds			
	Coke oven emissions			
	Cyanide compounds			
7647010	Hydrochloric acid	-85.1/760mm	-114.2	
7664393	Hydrogen fluoride	19.5	-83.6	
	Lead compounds			
	Manganese compounds			
	Mercury compounds			
	Mineral fibers			
	Nickel compounds			
7803512	Phosphine	-87.7	-133	
7723140	Phosphorus			
	Polycyclic organic matter			
	Radionuclides			
	Selenium compounds			
7550450	Titanium tetrachloride	136.4	-24.1	