

Table 1. Prioritized Chronic Dose-Response Values for Screening Risk Assessments				CHRONIC INHALATION						CHRONIC ORAL						
				NONCANCER		CANCER				NONCANCER		CANCER				
				CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(µg/m3)	EPA MOA	SOURCE	mg/kg-d	SOURCE	EPA WOE
Acetaldehyde	75-07-0	1	1	0.009	IRIS	B2	0.0000022		IRIS							
Acetamide	60-35-5	2	2B				0.00002		CAL							
Acetonitrile	75-05-8	3		0.06	IRIS	InI										
Acetophenone	98-86-2	4				D										
Acrolein	107-02-8	6	2A	0.00035	CAL	InI										
Acrylamide	79-06-1	7	2A	0.006	IRIS	LH	0.0001	M	IRIS							
Acrylic acid	79-10-7	8	3	0.001	IRIS											
Acrylonitrile	107-13-1	9	2B	0.002	IRIS	B1	0.000068		IRIS							
Allyl chloride	107-05-1	10	3	0.001	IRIS	C	0.000006		CAL							
Aniline	62-53-3	12	2A	0.001	IRIS	B2	0.0000016		CAL							
<i>o</i> -Anisidine	90-04-0	13	2A													
Antimony trioxide	1309-64-4	173	2B	0.0002	IRIS											
Arsenic compounds	7440-38-2	174	1	0.000015	CAL	A	0.0043		IRIS							
Arsine	7784-42-1	174		0.00005	IRIS											
Benzene	71-43-2	15	1	0.03	IRIS	CH	0.0000078		IRIS							
Benzidine	92-87-5	16	1			A	0.067	M	IRIS							
Benzotrithloride	98-07-7	17	2A			B2										
Benzyl chloride	100-44-7	18	2A			B2	0.000049		CAL							
Beryllium compounds	7440-41-7	175	1	0.00002	IRIS	LH	0.0024		IRIS							
Biphenyl	92-52-4	19				SE										
Bis(2-ethylhexyl)phthalate	117-81-7	20	2B			B2	0.0000024		CAL							
Bis(chloromethyl)ether	542-88-1	21	1			A	0.062		IRIS							
Bromoform	75-25-2	22	3			B2	0.0000011		IRIS							
1,3-Butadiene	106-99-0	23	1	0.002	IRIS	CH	0.00003		IRIS							
Cadmium compounds	7440-43-9	176	1	0.00001	ATSDR	B1	0.0018		IRIS	0.0005	IRIS	B1				
Captan	133-06-2	26	3			B2										
Carbaryl	63-25-2	27	3													
Carbon disulfide	75-15-0	28		0.7	IRIS											
Carbon tetrachloride	56-23-5	29	2B	0.1	IRIS	LH	0.000006		IRIS							

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CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(µg/m3)	EPA MOA	SOURCE	mg/kg-d	SOURCE	EPA WOE	1/(mg/kg-d)	EPA MOA	SOURCE
				Chlordane	57-74-9	33	2B	0.0007	IRIS	LH	0.0001		IRIS	0.0005	IRIS
Chlorine	7782-50-5	34		0.00015	ATSDR										
2-Chloroacetophenone	532-27-4	36		0.00003	IRIS										
Chlorobenzene	108-90-7	37		1	CAL	D									
Chlorobenzilate	510-15-6	38	3			B2	0.000078		HEAST						
Chloroform	67-66-3	39	2B	0.098	ATSDR	LH									
Chloroprene	126-99-8	41	2B	0.02	IRIS	LH	0.0003	M	IRIS						
Chromium (III) compounds	16065-83-1	177	3			Inl									
Chromium (VI) compounds	18540-29-9	177	1	0.0001	IRIS	CH	0.012		IRIS						
Chromium (VI) trioxide, chromic acid mist	11115-74-5	177	1	0.000008	IRIS										
Cobalt compounds	7440-48-4	178	2B	0.0001	ATSDR										
Coke Oven Emissions	8007-45-2	179	1			A	0.00062	M	IRIS						
m-Cresol	108-39-4	44				C									
o-Cresol	95-48-7	43				C									
p-Cresol	106-44-5	45				C									
Cresols (mixed)	1319-77-3	42		0.6	CAL	C									
Cumene	98-82-8	46	2B	0.4	IRIS	Inl									
Cyanazine	21725-46-2	180				C									
Cyanide compounds	57-12-5	180				D									
Acetone cyanohydrin	75-86-5	180		0.01	HEAST										
Cyanogen	460-19-5	180		0.0008	IRIS	Inl									
Hydrogen cyanide	74-90-8	180		0.0008	IRIS	Inl									
Potassium cyanide	151-50-8	180		0.0008	IRIS	Inl									
Potassium silver cyanide	506-61-6	180		0.0008	IRIS	Inl									
Sodium cyanide	143-33-9	180		0.0008	IRIS	Inl									
2,4-D, salts and esters	94-75-7	47	2B												
DDE	72-55-9	48				B2				0.0001	ATSDR	B2	0.34		IRIS
1,2-Dibromo-3-chloropropane	96-12-8	51	2B	0.0002	IRIS	B2	0.002		CAL						
Dibutylphthalate	84-74-2	52				D									
p-Dichlorobenzene	106-46-7	53	2B	0.06	ATSDR	C	0.000011		CAL						
3,3'-Dichlorobenzidine	91-94-1	54	2B			B2	0.00034		CAL						
Dichloroethyl ether	111-44-4	55	3			B2	0.00033		IRIS						
1,3-Dichloropropene	542-75-6	56	2B	0.02	IRIS	LH	0.000004		IRIS						
Dichlorvos	62-73-7	57	2B	0.0005	IRIS	B2									
Diesel engine emissions	DIESEL EMIS.	999	1	0.005	IRIS	LH									
Diethanolamine	111-42-2	58	2B	0.003	CAL										
3,3'-Dimethoxybenzidine	119-90-4	61	2B			B2									
p-Dimethylaminoazobenzene	60-11-7	62	2B				0.0013		CAL						
3,3'-Dimethylbenzidine	119-93-7	63	2B			B2									
Dimethyl formamide	68-12-2	65	2A	0.03	IRIS										
N,N-dimethylaniline	121-69-7	59	3												
1,1-Dimethylhydrazine	57-14-7	66	2B			B2									

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CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(µg/m3)	EPA MOA	SOURCE	mg/kg-d	SOURCE	EPA WOE	1/(mg/kg-d)	EPA MOA	SOURCE
				2,4-Dinitrotoluene	121-14-2	71	2B			B2	0.000089		CAL		
2,4/2,6-Dinitrotoluene (mixture)	25321-14-6	71	2B			B2									
1,4-Dioxane	123-91-1	72	2B	0.03	IRIS	LH	0.000005		IRIS						
1,2-Diphenylhydrazine	122-66-7	73				B2	0.00022		IRIS						
Epichlorohydrin	106-89-8	74	2A	0.001	IRIS	B2	0.0000012		IRIS						
1,2-Epoxybutane	106-88-7	75	2B	0.02	IRIS										
Ethyl acrylate	140-88-5	76	2B			B2									
Ethyl benzene	100-41-4	77	2B	0.26	ATSDR	D	0.0000025		CAL						
Ethyl carbamate (urethane)	51-79-6	78	2A				0.00029	M	CAL						
Ethyl chloride	75-00-3	79	3	10	IRIS										
Ethylene dibromide	106-93-4	80	2A	0.009	IRIS	LH	0.0006		IRIS						
Ethylene dichloride	107-06-2	81	2B	2.4	ATSDR	B2	0.000026		IRIS						
Ethylene glycol	107-21-1	82		0.4	CAL										
Ethylene oxide	75-21-8	84	1	0.03	CAL	CH	0.003	M	IRIS						
Ethylene thiourea	96-45-7	85	3				0.000013		CAL						
Ethylidene dichloride (1,1-Dichloroethane)	75-34-3	86		0.5	HEAST	C	0.0000016		CAL						
Formaldehyde	50-00-0	87	1	0.0098	ATSDR	B1	0.000013		IRIS						
Diethylene glycol monobutyl ether	112-34-5	181		0.02	HEAST										
Ethylene glycol ethyl ether	110-80-5	181		0.2	IRIS										
Ethylene glycol ethyl ether acetate	111-15-9	181		0.3	CAL										
Ethylene glycol methyl ether	109-86-4	181		0.02	IRIS										
Ethylene glycol methyl ether acetate	110-49-6	181		0.09	CAL										
Heptachlor	76-44-8	88	2B			B2	0.0013		IRIS	0.0005	IRIS	B2	4.5		IRIS
Hexachlorobenzene	118-74-1	89	2B			B2	0.00046		IRIS	0.0008	IRIS	B2	1.6		IRIS
Hexachlorobutadiene	87-68-3	90	3			C	0.000022		IRIS						
Hexachlorocyclopentadiene	77-47-4	91		0.0002	IRIS	NH									
Hexachlorodibenzo-p-dioxin, mixture	19408-74-3	187				B2	1.3		IRIS			B2	6200		IRIS
Hexachloroethane	67-72-1	92	2B	0.03	IRIS	LH									
Hexamethylene-1,6-diisocyanate	822-06-0	93		0.00001	IRIS										
n-Hexane	110-54-3	95		0.7	IRIS	InI									
Hydrazine	302-01-2	96	2A	0.0002	CAL	B2	0.0049		IRIS						
Hydrochloric acid	7647-01-0	97	3	0.02	IRIS										
Hydrofluoric acid	7664-39-3	98		0.014	CAL										
Hydrogen sulfide	7783-06-4	999		0.002	IRIS	InI									
Hydroquinone	123-31-9	99	3												
Isophorone	78-59-1	100		2	CAL	C									
Lead compounds	7439-92-1	182	2B	0.00015	EPA-OAQPS	B2						B2			
Tetraethyl lead	78-00-2	182	3							0.0000001	IRIS				
Lindane (gamma-HCH)	58-89-9	101	1			B2-C	0.00031		CAL	0.0003	IRIS	B2-C	1.1		CAL
alpha-Hexachlorocyclohexane (a-HCH)	319-84-6	101	1			B2	0.0018		IRIS	0.008	ATSDR	B2	6.3		IRIS
beta-Hexachlorocyclohexane (b-HCH)	319-85-7	101	1			C	0.00053		IRIS			C	1.8		IRIS
technical Hexachlorocyclohexane (HCH)	608-73-1	101	1			B2	0.00051		IRIS			B2	1.8		IRIS

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				Maleic anhydride	108-31-6	102		0.0007	CAL						
Manganese compounds	7439-96-5	183		0.0003	ATSDR	D									
Mercuric chloride	7487-94-7	184				C				0.0003	IRIS	C			
Mercury (elemental)	7439-97-6	184	3	0.0003	IRIS	D						D			
Methyl mercury	22967-92-6	184	2B			C				0.0001	IRIS	C			
Phenylmercuric acetate	62-38-4	184								0.00008	IRIS				
Methanol	67-56-1	103		20	IRIS										
Methoxychlor	72-43-5	104	3			D				0.005	IRIS	D			
Methyl bromide	74-83-9	105	3	0.005	IRIS	D									
Methyl chloride	74-87-3	106	3	0.09	IRIS	Inl									
Methyl chloroform (1,1,1-Trichloroethane)	71-55-6	107		5	IRIS	Inl									
Methyl isobutyl ketone	108-10-1	111	2B	3	IRIS	Inl									
Methyl isocyanate	624-83-9	112		0.001	CAL										
Methyl methacrylate	80-62-6	113	3	0.7	IRIS	E									
Methyl tert-butyl ether	1634-04-4	114	3	3	IRIS		2.6E-07		CAL						
4,4'-Methylene bis(2-chloroaniline)	101-14-4	115	1			B2	0.00043		CAL						
Methylene chloride	75-09-2	116	2A	0.6	IRIS	LH	1E-08	M	IRIS						
Methylene diphenyl diisocyanate	101-68-8	117	3	0.0006	IRIS	Inl									
4,4'-Methylenedianiline	101-77-9	118	2B	0.02	CAL		0.00046		CAL						
Naphthalene	91-20-3	119	2B	0.003	IRIS	C	0.000034		CAL						
Nickel compounds	7440-02-0	186	1	0.00009	ATSDR	A									
Nickel refinery dust	NI_DUST	186				A	0.00024		IRIS						
Nickel subsulfide	12035-72-2	186				A	0.00048		IRIS						
Nitrobenzene	98-95-3	120	2B	0.009	IRIS	LH	0.00004		IRIS						
2-Nitropropane	79-46-9	123	2B	0.02	IRIS	B2	0.0000056		OAQPS						
Nitrosodimethylamine	62-75-9	125	2A			B2	0.014	M	IRIS						
N-Nitrosomorpholine	59-89-2	126	2B				0.0019		CAL						
Parathion	56-38-2	127	2B			C									
Polychlorinated biphenyls	1336-36-3	136	1			B2	0.0001		IRIS			B2	2		IRIS
Aroclor 1016	12674-11-2	136								0.00007	IRIS				
Aroclor 1254	11097-69-1	136								0.00002	IRIS				
Pentachloronitrobenzene	82-68-8	128	3			C									
Pentachlorophenol	87-86-5	129	1			LH	0.0000051		CAL						
Phenol	108-95-2	130	3	0.2	CAL	Inl									
Phosgene	75-44-5	132		0.0003	IRIS	Inl									
Phosphine	7803-51-2	133		0.0003	IRIS	Inl									
Phosphorus	7723-14-0	134				D									
Phthalic anhydride	85-44-9	135		0.02	CAL										
Polybrominated biphenyls	59536-65-1	187	2A			B2				0.000007	HEAST	B2	8.9		HEAST
Acenaphthene	83-32-9	187	3			D				0.06	IRIS	D			
Acenaphthylene	208-96-8	187				D						D			
2-Aminoanthraquinone	117-79-3	187	3				0.0000094		CAL				0.033		CAL

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				Anthracene	120-12-7	187	3			D				0.3	IRIS
Benz(a)anthracene	56-55-3	187	2B			B2	0.00006	m-rpf	EPA-ORD			B2	0.1	m-rpf	EPA-ORD
Benzo(b)fluoranthene	205-99-2	187	2B			B2	0.00006	m-rpf	EPA-ORD			B2	0.1	m-rpf	EPA-ORD
Benzo(j)fluoranthene	205-82-3	187	2B				0.00006	m-rpf	CAL				0.1	m-rpf	CAL
Benzo(k)fluoranthene	207-08-9	187	2B			B2	0.000006	m-rpf	EPA-ORD			B2	0.01	m-rpf	EPA-ORD
Benzo(g,h,i)perylene	191-24-2	187	3			D						D			
Benzo(a)pyrene	50-32-8	187	1	0.000002	IRIS	CH	0.0006	M	IRIS	0.0003	IRIS	CH	1	M	IRIS
Benzo(e)pyrene	192-97-2	187	3												
Carbazole	86-74-8	187	2B			B2						B2	0.02		HEAST
beta-Chloronaphthalene	91-58-7	187								0.08	IRIS				
Chrysene	218-01-9	187	2B			B2	0.0000006	m-rpf	EPA-ORD			B2	0.001	m-rpf	EPA-ORD
Dibenz[a,h]acridine	226-36-8	187	2B				0.00006	m-rpf	CAL				0.1	m-rpf	CAL
Dibenz[a,j]acridine	224-42-0	187	2A				0.00006	m-rpf	CAL				0.1	m-rpf	CAL
Dibenz(a,h)anthracene	53-70-3	187	2A			B2	0.0006	M	EPA-ORD			B2	1	M	EPA-ORD
7H-Dibenzo[c,g]carbazole	194-59-2	187	2B				0.0006	m-rpf	CAL				1	m-rpf	CAL
Dibenzo[a,e]pyrene	192-65-4	187	3				0.0006	m-rpf	CAL				1	m-rpf	CAL
Dibenzo[a,h]pyrene	189-64-0	187	2B				0.006	m-rpf	CAL				10	m-rpf	CAL
Dibenzo[a,i]pyrene	189-55-9	187	2B				0.006	m-rpf	CAL				10	m-rpf	CAL
Dibenzo[a,l]pyrene	191-30-0	187	2A				0.006	m-rpf	CAL				10	m-rpf	CAL
7,12-Dimethylbenz(a)anthracene	57-97-6	187					0.071	M	CAL				250	M	CAL
1,6-Dinitropyrene	42397-64-8	187	2B				0.006	m-rpf	CAL				10	m-rpf	CAL
1,8-Dinitropyrene	42397-65-9	187	2B				0.0006	m-rpf	CAL				1	m-rpf	CAL
Fluoranthene	206-44-0	187	3			D				0.04	IRIS	D			
Fluorene	86-73-7	187	3			D				0.04	IRIS	D			
Indeno(1,2,3-cd)pyrene	193-39-5	187	2B			B2	0.00006	m-rpf	EPA-ORD			B2	0.1	m-rpf	EPA-ORD
3-Methylcholanthrene	56-49-5	187					0.0063	M	CAL				22	M	CAL
5-Methylchrysene	3697-24-3	187	2B				0.0006	m-rpf	CAL				1	m-rpf	CAL
1-Methylnaphthalene	90-12-0	187								0.07	ATSDR				
2-Methylnaphthalene	91-57-6	187				InI				0.04	ATSDR	InI			
5-Nitroacenaphthene	602-87-9	187	2B				0.000037		CAL				0.13		CAL
6-Nitrochrysene	7496-02-8	187	2A				0.006	m-rpf	CAL				10	m-rpf	CAL
2-Nitrofluorene	607-57-8	187	2B				0.000006	m-rpf	CAL				0.01	m-rpf	CAL
1-Nitropyrene	5522-43-0	187	2A				0.00006	m-rpf	CAL				0.1	m-rpf	CAL
4-Nitropyrene	57835-92-4	187	2B				0.00006	m-rpf	CAL				0.1	m-rpf	CAL
Octabromodiphenyl ether	32536-52-0	187				D				0.003	IRIS	D			
Phenanthrene	85-01-8	187	3			D						D			
Pyrene	129-00-0	187	3			D				0.03	IRIS	D			
1,3-Propane sultone	1120-71-4	137	2A				0.00069		CAL						
Propionaldehyde	123-38-6	139		0.008	IRIS	InI									
Propoxur	114-26-1	140				B2									
Propylene dichloride	78-87-5	141	1	0.004	IRIS	B2									
Propylene oxide	75-56-9	142	2B	0.03	IRIS	B2	0.0000037		IRIS						

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				Quinoline	91-22-5	144	2B									
Selenium compounds	7782-49-2	189	3	0.02	CAL											
Selenious acid	7783-00-8	189														
Selenium dioxide	7446-08-4	189		0.02	CAL											
Selenium disulfide	7488-56-4	189		0.02	CAL											
Selenium sulfide	7446-34-6	189		0.02	CAL	B2										
Styrene	100-42-5	146	2A	1	IRIS											
Styrene oxide	96-09-3	147	2A													
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	148	1	4E-08	CAL	B2	33		EPA-ORD	7E-10	IRIS	B2	150000			EPA-ORD
1,1,2,2-Tetrachloroethane	79-34-5	149	2B													
Tetrachloroethene	127-18-4	150	2A	0.04	IRIS	LH	2.6E-07		IRIS							
Titanium tetrachloride	7550-45-0	151		0.0001	ATSDR											
Toluene	108-88-3	152	3	5	IRIS	InI										
2,4-Toluene diamine	95-80-7	153	2B			B2	0.0011		CAL							
2,4/2,6-Toluene diisocyanate mixture (TDI)	26471-62-5	154	2B	0.00007	IRIS		0.000011		CAL							
o-Toluidine	95-53-4	155	1			B2	0.000051		CAL							
Toxaphene	8001-35-2	156	2B			B2	0.00032		IRIS			B2	1.1			IRIS
1,2,4-Trichlorobenzene	120-82-1	157		0.2	HEAST	D										
1,1,2-Trichloroethane	79-00-5	158	3			C	0.000016		IRIS							
Trichloroethylene	79-01-6	159	1	0.002	IRIS	CH	0.0000041	M	IRIS							
2,4,6-Trichlorophenol	88-06-2	161	2B			B2	0.0000031		IRIS							
Triethylamine	121-44-8	162		0.007	IRIS											
Trifluralin	1582-09-8	163	3			C				0.0075	IRIS	C	0.0077			IRIS
Uranium, insoluble salts	URANINSOLS	188		0.0008	ATSDR											
Uranium, soluble salts	URANSOLS	188		0.00004	ATSDR											
Vinyl acetate	108-05-4	165	2B	0.2	IRIS											
Vinyl bromide	593-60-2	166	2A	0.003	IRIS	B2	0.000032		HEAST							
Vinyl chloride	75-01-4	167	1	0.1	IRIS	CH	0.0000088		IRIS							
Vinylidene chloride	75-35-4	168	2B	0.2	IRIS	SE										
Xylenes (mixed)	1330-20-7	169	3	0.1	IRIS	InI										