

US EPA ARCHIVE DOCUMENT

Table 1. Prioritized Chronic Dose-Response Values (6/12/2007). CAS NO. = Chemical Abstracts Services number for the compound. HAP NO. = Position of the compound on the HAP list in the Clean Air Act (112[b][2]). "999" denotes substances under consideration for listing. IARC WOE = weight-of-evidence for carcinogenicity in humans (1 - carcinogenic; 2A - probably carcinogenic; 2B - possibly carcinogenic; 3 - not classifiable; 4 - probably not carcinogenic). EPA WOE = weight-of-evidence for carcinogenicity under the 1986 EPA cancer guidelines, as superseded for specific compounds by the 1999 interim guidelines (1986 guidelines: A - human carcinogen; B1 - probable carcinogen, limited human evidence; B2 - probable carcinogen, sufficient evidence in animals; C - possible human carcinogen; D - not classifiable E - evidence of noncarcinogenicity. 1999 guidelines: CH - carcinogenic to humans; LH - likely to be carcinogenic; SE - suggestive evidence for carcinogenicity; InI - inadequate information to determine carcinogenicity; NH - not likely to be carcinogenic). **Revisions since 2/28/05 are shown**

Table 1. Prioritized Chronic Dose-Response Values for Screening Risk Assessments (6/12/2007)				CHRONIC INHALATION					CHRONIC ORAL				
				NONCANCER		CANCER			NONCANCER		CANCER		
CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(ug/m3)	SOURCE	mg/kg/d	SOURCE	EPA WOE	1/(mg/kg/d)	SOURCE
Acetaldehyde	75-07-0	1	2B	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	3	0.00002	IRIS	InI							
Acrylamide	79-06-1	7	2A	0.0007	P-CAL	B2	0.0013	IRIS					
Acrylic acid	79-10-7	8		0.001	IRIS								
Acrylonitrile	107-13-1	9	2A	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	3	0.001	IRIS	B2	0.0000016	CAL					
Antimony compounds	7440-36-0	173											
Antimony pentoxide	1314-60-9	173											
Antimony potassium tartrate	304-61-0	173											
Antimony tetroxide	1332-81-6	173											
Antimony trioxide	1309-64-4	173	2B	0.0002	IRIS								
Arsenic compounds	7440-38-2	174	1	0.00003	CAL	A	0.0043	IRIS					
Arsenic pentoxide	1303-28-2	174		0.00003	CAL								
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		0.01	P-CAL	A	0.067	IRIS					
Benzotrithloride	98-07-7	17	2B			B2	0.0037	Conv. Oral					
Benzyl chloride	100-44-7	18	2B			B2	0.000049	CAL					
Beryllium compounds	7440-41-7	175	1	0.00002	IRIS	LH	0.0024	IRIS					
Beryllium oxide	1304-56-9	175		0.000007	CAL								
Biphenyl	92-52-4	19				D							
Bis(2-ethylhexyl)phthalate	117-81-7	20	2B	0.01	P-CAL	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	2A	0.002	IRIS	CH	0.00003	IRIS					
Cadmium compounds	7440-43-9	176	1	0.00002	CAL	B1	0.0018	IRIS	0.0005	IRIS	B1		
Captan	133-06-2	26	3			B2	0.000001	Conv. Oral					
Carbaryl	63-25-2	27											
Carbon disulfide	75-15-0	28		0.7	IRIS								

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CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(ug/m3)	SOURCE	mg/kg/d	SOURCE	EPA WOE	1/(mg/kg/d)	SOURCE
Sodium cyanide	143-33-9	180											
Thiocyanic acid, 2-(benzothiazolylthio) methyl est	21564-17-0	180											
Zinc cyanide	557-21-1	180											
2,4-D, salts and esters	94-75-7	47											
DDE	72-55-9	48				B2	0.000097	Conv. Oral			B2	0.34	IRIS
1,2-Dibromo-3-chloropropane	96-12-8	51		0.0002	IRIS	B2	0.002	CAL					
Dibutylphthalate	84-74-2	52				D							
p-Dichlorobenzene	106-46-7	53 2B		0.8	IRIS	C	0.000011	CAL					
3,3'-Dichlorobenzidine	91-94-1	54 2B				B2	0.00034	CAL					
Dichloroethyl ether	111-44-4	55				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	0.000083	Conv. Oral					
Diesel engine emissions	DIESEL EMIS.	999		0.005	IRIS	LH							
Diethanolamine	111-42-2	58		0.003	CAL								
3,3'-Dimethoxybenzidine	119-90-4	61 2B				B2	0.000004	Conv. Oral					
p-Dimethylaminoazobenzene	60-11-7	62 2B					0.0013	CAL					
3,3'-Dimethylbenzidine	119-93-7	63				B2	0.0026	Conv. Oral					
Dimethyl formamide	68-12-2	65 2B		0.03	IRIS								
N,N-dimethylaniline	121-69-7	59 3											
1,1-Dimethylhydrazine	57-14-7	66 2B				B2							
2,4-dinitrophenol	51-28-5	70											
2,4-Dinitrotoluene	121-14-2	71 2B		0.007	P-CAL	B2	0.000089	CAL					
2,4/2,6-Dinitrotoluene (mixture)	25321-14-6	71 2B				B2	0.00019	Conv. Oral					
1,4-Dioxane	123-91-1	72 2B		3.6	D-ATSDR	B2	0.000077	CAL					
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		0.02	IRIS								
Ethyl acrylate	140-88-5	76 2B				B2							
Ethyl benzene	100-41-4	77		1	IRIS	D							
Ethyl carbamate	51-79-6	78 2B					0.00029	CAL					
Ethyl chloride	75-00-3	79		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					

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Ethylene glycol	107-21-1	82		0.4	CAL								
Ethylene oxide	75-21-8	84	1	0.03	CAL	B1	0.000088	CAL					
Ethylene thiourea	96-45-7	85	2B	0.003	P-CAL	B2	0.000013	CAL					
Ethylidene dichloride (1,1-Dichloroethane)	75-34-3	86		0.5	HEAST	C	0.0000016	CAL					
Formaldehyde	50-00-0	87	2A	0.0098	ATSDR	B1	5.5E-09	OAQPS					
Diethylene glycol monobutyl ether	112-34-5	181		0.02	HEAST								
Diethylene glycol monoethyl ether	111-90-0	181											
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	0.003	P-CAL	B2	0.00046	IRIS	0.0008	IRIS	B2	1.6	IRIS
Hexachlorobutadiene	87-68-3	90	3	0.09	P-CAL	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	3	0.08	P-CAL	C	0.000004	IRIS					
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	2B	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											
Isophorone	78-59-1	100		2	CAL	C	2.7E-07	Conv. Oral					
Lead compounds	7439-92-1	182	2B	0.0015	EPA OAQPS	B2					B2		
Tetraethyl lead	78-00-2	182							0.0000001	IRIS			
Lindane (gamma-HCH)	58-89-9	101	2B	0.0003	P-CAL	B2-C	0.00031	CAL	0.0003	IRIS	B2-C	1.1	CAL
alpha-Hexachlorocyclohexane (a-HCH)	319-84-6	101	2B	0.02	P-CAL	B2	0.0018	IRIS	0.008	D-ATSDR	B2	6.3	IRIS
beta-Hexachlorocyclohexane (b-HCH)	319-85-7	101	2B	0.002	P-CAL	C	0.00053	IRIS			C	1.8	IRIS
technical Hexachlorocyclohexane (HCH)	608-73-1	101	2B			B2	0.00051	IRIS			B2	1.8	IRIS
Maleic anhydride	108-31-6	102		0.0007	CAL								
Manganese compounds	7439-96-5	183		0.00005	IRIS	D							

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Mercuric chloride	7487-94-7	184				C			0.0003	IRIS	C		
Mercury (elemental)	7439-97-6	184		0.0003	IRIS	D					D		
Methyl mercury	22967-92-6	184				C			0.0001	IRIS	C		
Phenylmercuric acetate	62-38-4	184							0.00008	IRIS			
Methanol	67-56-1	103		4	CAL								
Methoxychlor	72-43-5	104	3			D			0.005	IRIS	D		
Methyl bromide	74-83-9	105		0.005	IRIS	D							
Methyl chloride	74-87-3	106		0.09	IRIS	InI							
Methyl chloroform (1,1,1-Trichloroethane)	71-55-6	107		1	CAL	D							
Methyl isobutyl ketone	108-10-1	111		3	IRIS	InI							
Methyl isocyanate	624-83-9	112		0.001	CAL								
Methyl methacrylate	80-62-6	113		0.7	IRIS	E							
Methyl tert-butyl ether	1634-04-4	114		3	IRIS		2.6E-07	CAL					
4,4'-Methylene bis(2-chloroaniline)	101-14-4	115	2A			B2	0.00043	CAL					
Methylene chloride	75-09-2	116	2B	1	ATSDR	B2	4.7E-07	IRIS					
Methylene diphenyl diisocyanate	101-68-8	117		0.0006	IRIS	InI							
4,4'-Methylenedianiline	101-77-9	118	2B	0.02	CAL		0.00046	CAL					
Naphthalene	91-20-3	119		0.003	IRIS	SE	0.000034	CAL					
Nickel compounds	7440-02-0	186	2B	0.00009	D-ATSDR	A							
Nickel oxide	1313-99-1	186		0.0001	CAL								
Nickel refinery dust	NI_DUST	186				A	0.00024	IRIS					
Nickel subsulfide	12035-72-2	186		0.00005	CAL	A	0.00048	IRIS					
Nitrobenzene	98-95-3	120	2B	0.03	P-CAL	D							
2-Nitropropane	79-46-9	123	2B	0.02	IRIS	B2	0.0000056	OAQPS					
Nitrosodimethylamine	62-75-9	125	2A			B2	0.014	IRIS					
N-Nitrosomorpholine	59-89-2	126	2B				0.0019	CAL					
Parathion	56-38-2	127	3			C							
Polychlorinated biphenyls	1336-36-3	136	2A			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	0.000074	Conv. Oral					
Pentachlorophenol	87-86-5	129	2B	0.1	P-CAL	B2	0.0000051	CAL					
Phenol	108-95-2	130	3	0.2	CAL	InI							

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p-Phenylenediamine	106-50-3	131											
Phosgene	75-44-5	132		0.0003	IRIS	InI							
Phosphine	7803-51-2	133		0.0003	IRIS	D							
Phosphorus, white	7723-14-0	134		0.00007	P-CAL	D							
Phthalic anhydride	85-44-9	135		0.02	CAL								
Polybrominated biphenyls	59536-65-1	187				B2	0.0025	Conv. Oral	0.000007	HEAST	B2	8.9	HEAST
Acenaphthene	83-32-9	187				D			0.06	IRIS	D		
Acenaphthylene	206-96-8	187				D					D		
2-Aminoanthraquinone	117-79-3	187					0.0000094	CAL				0.033	CAL
Anthracene	120-12-7	187	3			D			0.3	IRIS	D		
Benzo(a)anthracene	56-55-3	187	2A			B2	0.00011	CAL			B2	1.2	CAL
Benzo(b)fluoranthene	205-99-2	187	2B			B2	0.00011	CAL			B2	1.2	CAL
Benzo(j)fluoranthene	205-82-3	187	2B				0.00011	CAL				1.2	CAL
Benzo(k)fluoranthene	207-08-9	187	2B			B2	0.00011	CAL			B2	1.2	CAL
Benzo(g,h,i)perylene	191-24-2	187	3			D					D		
Benzo(a)pyrene	50-32-8	187	2A			B2	0.0011	CAL			B2	7.3	IRIS
Benzo(e)pyrene	192-97-2	187	3										
Carbazole	86-74-8	187	3			B2	0.0000057	Conv. Oral			B2	0.02	HEAST
beta-Chloronaphthalene	91-58-7	187							0.08	IRIS			
Chrysene	218-01-9	187	3			B2	0.000011	CAL			B2	0.12	CAL
Dibenz[a,h]acridine	226-36-8	187	2B				0.00011	CAL				1.2	CAL
Dibenz[a,j]acridine	224-42-0	187	2B				0.00011	CAL				1.2	CAL
Dibenz(a,h)anthracene	53-70-3	187	2A			B2	0.0012	CAL			B2	4.1	CAL
7H-Dibenzo[c,g]carbazole	194-59-2	187	2B				0.0011	CAL				12	CAL
Dibenzo[a,e]pyrene	192-65-4	187	2B				0.0011	CAL				12	CAL
Dibenzo[a,h]pyrene	189-64-0	187	2B				0.011	CAL				120	CAL
Dibenzo[a,i]pyrene	189-55-9	187	2B				0.011	CAL				120	CAL
Dibenzo[a,l]pyrene	191-30-0	187	2B				0.011	CAL				120	CAL
7,12-Dimethylbenz(a)anthracene	57-97-6	187					0.071	CAL				250	CAL
1,6-Dinitropyrene	42397-64-8	187	2B				0.011	CAL				120	CAL
1,8-Dinitropyrene	42397-65-9	187	2B				0.0011	CAL				12	CAL
Fluoranthene	206-44-0	187	3			D			0.04	IRIS	D		
Fluorene	86-73-7	187	3			D			0.04	IRIS	D		

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Indeno(1,2,3-cd)pyrene	193-39-5	187	2B			B2	0.00011	CAL			B2	1.2	CAL
3-Methylcholanthrene	56-49-5	187					0.0063	CAL				22	CAL
5-Methylchrysene	3697-24-3	187	2B				0.0011	CAL				12	CAL
1-Methylnaphthalene	90-12-0	187							0.07	D-ATSDR			
2-Methylnaphthalene	91-57-6	187				InI			0.05	D-ATSDR	InI		
5-Nitroacenaphthene	602-87-9	187	2B				0.000037	CAL				0.13	CAL
6-Nitrochrysene	7496-02-8	187	2B				0.011	CAL				120	CAL
2-Nitrofluorene	607-57-8	187	2B				0.000011	CAL				0.12	CAL
1-Nitropyrene	5522-43-0	187	2B				0.00011	CAL				1.2	CAL
4-Nitropyrene	57835-92-4	187	2B				0.00011	CAL				1.2	CAL
Octabromodiphenyl ether	32536-52-0	187				D			0.003	IRIS	D		
Phenanthrene	85-01-8	187				D					D		
Pyrene	129-00-0	187				D			0.03	IRIS	D		
1,3-Propane sultone	1120-71-4	137	2B				0.00069	CAL					
Propoxur	114-26-1	140				B2							
Propylene dichloride	78-87-5	141		0.004	IRIS	B2	0.000019	Conv. Oral					
Propylene oxide	75-56-9	142	2B	0.03	IRIS	B2	0.0000037	IRIS					
Quinoline	91-22-5	144				LH							
Selenium compounds	7782-49-2	189		0.02	CAL	D							
Hydrogen selenide	7783-07-5	189		0.00008	P-CAL								
Selenious acid	7783-00-8	189				D							
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							
Selenourea	630-10-4	189											
Styrene	100-42-5	146	2B	1	IRIS								
Styrene oxide	96-09-3	147	2A	0.006	P-CAL								
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	148		4E-08	CAL	B2	33	EPA ORD	1E-09	ATSDR	B2	150000	EPA ORD
1,1,2,2-Tetrachloroethane	79-34-5	149	3			C	0.000058	IRIS					
Tetrachloroethene	127-18-4	150	2A	0.27	ATSDR	B2-C	0.0000059	CAL					
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				B2	0.0011	CAL					

Table 1. Prioritized Chronic Dose-Response Values (6/12/2007). CAS NO. = Chemical Abstracts Services number for the compound. HAP NO. = Position of the compound on the HAP list in the Clean Air Act (112[b][2]). "999" denotes substances under consideration for listing. IARC WOE = weight-of-evidence for carcinogenicity in humans (1 - carcinogenic; 2A - probably carcinogenic; 2B - possibly carcinogenic; 3 - not classifiable; 4 - probably not carcinogenic). EPA WOE = weight-of-evidence for carcinogenicity under the 1986 EPA cancer guidelines, as superseded for specific compounds by the 1999 interim guidelines (1986 guidelines: A - human carcinogen; B1 - probable carcinogen, limited human evidence; B2 - probable carcinogen, sufficient evidence in animals; C - possible human carcinogen; D - not classifiable E - evidence of noncarcinogenicity. 1999 guidelines: CH - carcinogenic to humans; LH - likely to be carcinogenic; SE - suggestive evidence for carcinogenicity; InI - inadequate information to determine carcinogenicity; NH - not likely to be carcinogenic). **Revisions since 2/28/05 are shown**

Table 1. Prioritized Chronic Dose-Response Values for Screening Risk Assessments (6/12/2007)				CHRONIC INHALATION					CHRONIC ORAL				
				NONCANCER		CANCER			NONCANCER		CANCER		
CHEMICAL NAME	CAS NO.	HAP NO.	IARC WOE	mg/m3	SOURCE	EPA WOE	1/(ug/m3)	SOURCE	mg/kg/d	SOURCE	EPA WOE	1/(mg/kg/d)	SOURCE
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	2B			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	0.4	P-CAL	C	0.000016	IRIS					
Trichloroethylene	79-01-6	159	2A	0.6	CAL	B2-C	0.000002	CAL					
2,4,5-Trichlorophenol	95-95-4	160											
2,4,6-Trichlorophenol	88-06-2	161				B2	0.0000031	IRIS					
Triethylamine	121-44-8	162		0.007	IRIS								
Trifluralin	1582-09-8	163	3			C	0.0000022	Conv. Oral	0.0075	IRIS	C	0.0077	IRIS
Uranium compounds	7440-61-1	188		0.0003	ATSDR								
Uranium, soluble salts	URANSOLS	188											
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		0.2	IRIS	SE							
m-Xylene	108-38-3	171											
o-Xylene	95-47-6	170											
Xylenes (mixed)	1330-20-7	169		0.1	IRIS	InI							
Xylenes (mixed)	1330-20-7	169		0.1	IRIS	InI							