

Maine CDC
Maximum Exposure Guidelines (MEGs) for drinking water



September 30, 2011

Environmental and Occupational Health Program
Center for Disease Control and Prevention

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
INORGANICS					
Aluminum	7429-90-5	ATSDR	7000		
Ammonia	7664-41-7	EPA HA	30000	30000	
Ammonium sulfamate (a)	7773-06-0	IRIS	1000	2000	
Antimony	7440-36-0	IRIS	3	6	6
Arsenic	7440-38-2	EPA MCL	10		10
Barium	7440-39-3	IRIS	1000		2000
Beryllium	7440-41-7	IRIS	10		4
Boron	7440-42-8	IRIS	1000	6000	
Cadmium	7440-43-9	ATSDR	1	5	5
Chloramine	10599-90-3	EPA DWEL	700	3000	4000
Chlorate	14866-68-3	ME-CDC	7		
Chlorine dioxide	10049-04-4	IRIS	200	800	800
Chlorite	7758-19-2	IRIS	200	800	1000
Chromium (total)	7440-47-3	EPA DWEL	20		100
Chromium III	16065-83-1	IRIS	10000		
Chromium VI	18540-29-9	IRIS	20		
Cobalt	7440-48-4	PPRTV	10		
Copper	7440-50-8	ATSDR	500		1300
Cyanide (a)	57-12-5	IRIS	4	200	200
Fluoride (a)	7782-41-4	IRIS	2000		4000
Iodide (a)	20461-54-5	ME-CDC	300		
Iron	7439-89-6	PPRTV	5000		
Lead	7439-92-1	ME-CDC	10		15
Manganese	7439-96-5	IRIS	500	300	
Mercury (inorganic; mercuric salts)	7487-94-7	IRIS	2	2	2
Molybdenum	7439-98-7	IRIS	40	40	
Nickel (soluble salts)	7440-02-0	ITER	20	100	
Nitrate (as N)	14797-55-8	IRIS	10000		10000
Nitrite (as N)	14797-65-0	IRIS	1000		1000
Radon	10043-92-2	ME-CDC	4000 pCi/L		300 pCi/L
Selenium (a)	7782-49-2	ATSDR	40	50	50
Silver (a)	7440-22-4	IRIS	40	100	
Sodium	7440-23-5	EPA DWEL	20000		
Strontium (a)	7440-24-6	IRIS	4000	4000	
Thallium (chloride)	7791-12-0	IRIS	0.6		2
Uranium	7440-61-1	EPA OW	20		30
Vanadium	7440-62-2	HEAST	200		
White Phosphorous (a)	7723-14-0	IRIS	0.1	0.1	
Zinc	7440-66-6	IRIS	2000	2000	
ORGANICS					
Acenaphthene	83-32-9	IRIS	400		
Acetamidiprid (a)	135410-20-7	OPP	500		
Acetochlor	34256-82-1	OPP	10		
Acetone (a)	67-64-1	IRIS	6000		
Acrolein	107-02-8	IRIS	4		
Acrylamide	79-06-1	IRIS	0.7		
Acrylonitrile	107-13-1	IRIS	0.6		
Alachlor	15972-60-8	CA-OEHHA	6		2
Aldicarb	116-06-3	IRIS	7	7	3
Aldicarb sulfone	1646-88-4	IRIS	7	7	2
Aldrin	309-00-2	IRIS	0.02		

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
Allyl chloride	107-05-1	CA-OEHHA	20		
Ametryn	834-12-8	IRIS	60	60	
Anthracene	120-12-7	IRIS	2000		
Asulam (a)	3337-71-1	IRIS	40		
Atrazine	1912-24-9	CA-OEHHA	2		3
Azinophos - methyl (a)	86-50-0	OPP	10		
Baygon (propoxur) (a)	114-26-1	IRIS	30	3	
Bentazon	25057-89-0	IRIS	200	200	
Benzo(a)anthracene	56-55-3	IRIS	0.5		
Benzene	71-43-2	ATSDR	4		5
Benzo(a)pyrene	50-32-8	IRIS	0.05		0.2
Benzo(b)fluoranthene	205-99-2	IRIS	0.5		
Benzoic Acid (a)	65-85-0	IRIS	30000		
Benzo(k)fluoranthene	207-08-9	IRIS	5		
Benzyl chloride	100-44-7	IRIS	2		
Biphenyl (1,1-)	92-52-4	IRIS	400		
Boscalid (a)	188425-85-6	OPP	200		
Bromacil	314-40-9	OPP	70	70	
Bromochloromethane	74-97-5	EPA DWEL	100	90	
Bromodichloromethane	75-27-4	IRIS	6		80
Bromoform (a)	75-25-2	IRIS	40		80
Bromomethane	74-83-9	IRIS	10	10	
Butadiene (1,3-)	106-99-0	CA-OEHHA	0.1		
Butylate (a)	2008-41-5	IRIS	400	400	
Butyl benzyl phthalate	85-68-7	PPRTV	200		
Captan	133-06-2	CA-OEHHA	200		
Carbaryl	63-25-2	IRIS	70		
Carbofuran (a)	1563-66-2	IRIS	40		40
Carbon disulfide	75-15-0	IRIS	600		
Carbon tetrachloride	56-23-5	IRIS	5		5
Carboxin	5234-68-4	IRIS	700	700	
Chloral hydrate (hydrated trichloroacetaldehyde)	302-17-0	IRIS	70		
Chloramben (Amiben) (a)	133-90-4	IRIS	100	100	
Chlordane	12789-03-6	IRIS	1		2
Chlorendic Acid	115-28-6	CA-OEHHA	4		
Chloroaniline (4-)	106-47-8	PPRTV	2		
Chlorobenzene	108-90-7	IRIS	100		
Chloroform	67-66-3	IRIS	70	70	80
bis-2-Chloroethyl ether	111-44-4	IRIS	0.3		
bis-2-Chloro isopropyl ether	108-60-1	IRIS	300	300	
Chloromethane	74-87-3	EPA DWEL	20	30	
Chlorophenol (2-) (a)	95-57-8	IRIS	40	40	
Chlorothalonil	1897-45-6	IRIS	100		
Chlorotoluene (2- or ortho-) (a)	95-49-8	IRIS	100	100	
Chlorotoluene (4- or para-)	106-43-4	PPRTV	500	100	
Chlorpyrifos	2921-88-2	IRIS	20	2	
Chrysene	218-01-9	IRIS	50		
Cyanazine (a)	21725-46-2	HEAST	1	1	
Dacthal (DCPA)	1861-32-1	IRIS	70	70	
Dalapon	75-99-0	IRIS	200	200	200
DDD	72-54-8	IRIS	1		
DDE	72-55-9	IRIS	1		
DDT	50-29-3	IRIS	1		
Di-(2-ethylhexyl)adipate (a)	103-23-1	IRIS	300	400	400

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
Di-(2-ethylhexyl)phthalate (PAE) (a)	117-81-7	IRIS	30		6
Diallate (Avadex)	2303-16-4	HEAST	6		
Diazinon	333-41-5	ATSDR	5	1	
Dibenz(a,h)anthracene	53-70-3	IRIS	0.05		
Dibromo-3-chloropropane (1,2-) (DBCP)	96-12-8	PPRTV	0.4		0.2
Dibromochloromethane	124-48-1	IRIS	4	60	80
Dicamba	1918-00-9	IRIS	200	4000	
Dichlobenil	1194-65-6	OPP	9		
Dichlorobenzamide (2,6-) (BAM)	2008-58-4	OPP	10		
Dichlorobenzene (1,3- or meta)	541-73-1	ATSDR	1	600	
Dichlorobenzene (1,2- or ortho)	95-50-1	ATSDR	200	600	600
Dichlorobenzene (1,4- or para-)	106-46-7	CA-OEHHA	70	75	75
Dichlorobenzidine (3,3-)	91-94-1	IRIS	1		
Dichlorodifluoromethane (a)	75-71-8	IRIS	1000	1000	
Dichloroethane (1,1-)	75-34-3	CA-OEHHA	60		
Dichloroethane (1,2-)	107-06-2	IRIS	4		5
Dichloroethylene (1,1-)	75-35-4	IRIS	40		7
Dichloroethylene (cis-1,2-)	156-59-2	IRIS	20	70	70
Dichloroethylene (trans-1,2-) (a)	156-60-5	IRIS	100	100	100
Dichloromethane (a)	75-09-2	IRIS	50		5
Dichlorophenol (2,4-) (a)	120-83-2	IRIS	20	20	
Dichlorophenoxyacetic acid (2,4-)	94-75-7	IRIS	70		70
Dichloropropane (1,2-)	78-87-5	CA-OEHHA	10		5
Dichloropropane (1,3-)	142-28-9	PPRTV	100		
Dichloropropene (1,3-)	542-75-6	IRIS	4		
Dieldrin	60-57-1	IRIS	0.02		
Diethyl phthalate (PAE)	84-66-2	IRIS	6000		
Diisopropyl methylphosphonate	1445-75-6	IRIS	600	600	
Dimethylformamide (N,N-)	68-12-2	HEAST	700		
Dimethylphenol (2,4-)	105-67-9	IRIS	100		
Dimethylphenol (2,6-)	576-26-1	IRIS	4		
Dibutyl phthalate (PAE)	84-74-2	IRIS	700		
Dinitrobenzene (1,2- or ortho-)	528-29-0	PPRTV	0.7		
Dinitrobenzene (1,3- or meta-)	99-65-0	IRIS	0.7	1	
Dinitrobenzene (1,4- or para-)	100-25-4	PPRTV	0.7		
Dinitrophenol (2,4-) (a)	51-28-5	IRIS	10		
Dinitrotoluene (2,4-)	121-14-2	CA-OEHHA	1		
Dinitrotoluene (2,6-)	606-20-2	IRIS	0.5		
Dinoseb	88-85-7	IRIS	7	7	7
Dioxane (1,4-) (a)	123-91-1	IRIS	4		
Diphenamid	957-51-7	IRIS	200	200	
Diphenylamine (a)	122-39-4	IRIS	200		
Diquat (a)	85-00-7	IRIS	20		20
Disulfoton	298-04-4	IRIS	0.3	0.7	
Dithiane (1,4-)	505-29-3	IRIS	70	80	
Diuron (a)	330-54-1	IRIS	10		
Endosulfan (a)	115-29-7	IRIS	40		
Endothall (a)	145-73-3	IRIS	100	50	100
Endrin	72-20-8	IRIS	2	2	2
Epichlorohydrin (a)	106-89-8	IRIS	40		
Ethylbenzene	100-41-4	CA-OEHHA	30	700	700
Ethyl chloride	75-00-3	PPRTV	7		
Ethylene dibromide (EDB)	106-93-4	IRIS	0.2		0.05
Ethylene glycol (a)	107-21-1	IRIS	10000	14000	

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
Ethylene glycol monobutyl ether	111-76-2	IRIS	700		
Ethylene thiouria (ETU)	96-45-7	IRIS	0.6		
Fenamiphos (a)	22224-92-6	IRIS	2	0.7	
Ferbam	14484-63-1	ME-CDC	4		
Fluometuron	2164-17-2	IRIS	90	90	
Fluoranthene	206-44-0	IRIS	300		
Fluorene	86-73-7	IRIS	300		
Fluorotrichloromethane	75-69-4	IRIS	2000	2000	
Fluridone	59756-60-4	IRIS	600		
Folpet	133-07-3	IRIS	100		
Fonofos (a)	944-22-9	IRIS	10	10	
Formaldehyde (a)	50-00-0	IRIS	100	1000	
Glyphosate	1071-83-6	IRIS	700		700
Heptachlor	76-44-8	ATSDR	0.07		0.4
Heptachlor epoxide	1024-57-3	IRIS	0.04		0.2
Hexachlorobenzene	118-74-1	IRIS	0.2		1
Hexachlorobutadiene	87-68-3	IRIS	4		
Hexachlorocyclohexane (alpha-)	319-84-6	IRIS	0.1		
Hexachlorocyclohexane (beta-)	319-85-7	IRIS	0.2		
Hexachlorocyclohexane (gamma-) (Lindane)	58-89-9	ATSDR	0.03		0.2
Hexachlorocyclopentadiene (a)	77-47-4	IRIS	40		50
Hexachloroethane	67-72-1	IRIS	5	1	
Hexachlorophene	70-30-4	IRIS	2		
Hexane (n-) (a)	110-54-3	HEAST	400		
Hexazinone (a)	51235-04-2	IRIS	200	400	
HMX (cyclo-tetramethylenetetranitramine) (a)	2691-41-0	IRIS	400	400	
Imidacloprid	138261-41-3	OPP	400		
Indeno(1,2,3-cd)pyrene	193-39-5	IRIS	0.5		
Isophorone (a)	78-59-1	IRIS	400	100	
Isopropylmethylphosphonate	1832-54-8	IRIS	700	700	
Isopropyltoluene (p-cymene)	99-87-6	ME-CDC	70		
Malathion (a)	121-75-5	ATSDR	100	500	
Maleic hydrazide (a)	123-33-1	IRIS	4000	4000	
Mancozeb	8018-01-7	OPP	6		
Maneb	12427-38-2	OPP	6		
MCPA (2-Methyl-4-chlorophenoxyacetic acid)	94-74-6	IRIS	4	30	
Mesotrione	104206-82-8	OPP	50		
Metalaxyl (a)	57837-19-1	IRIS	400		
Methanol	67-56-1	IRIS	4000		
Methomyl (a)	16752-77-5	IRIS	200	200	
Methoxychlor (a)	72-43-5	IRIS	40	40	40
Methoxyfenozide	161050-58-4	OPP	700		
Methyl ethyl ketone (a)	78-93-3	IRIS	4000	4000	
Methyl isobutyl ketone	108-10-1	HEAST	500		
Methyl methacrylate (a)	80-62-6	IRIS	10000		
Methyl parathion	298-00-0	IRIS	2	1	
Methyl tert butyl ether (MTBE)	1634-04-4	ME-CDC	35		35
Methylnaphthalene (2-)	91-57-6	IRIS	30		
Methylphenol (2-)	95-48-7	IRIS	40		
Methylphenol (3-) (a)	108-39-4	IRIS	40		
Methylphenol (4-) (a)	106-44-5	HEAST	4		
Metolachlor	51218-45-2	IRIS	100	700	
Metribuzin (a)	21087-64-9	IRIS	200	70	
Monochlorobenzene (a)	108-90-7	IRIS	100	100	100

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
Naphthalene (a)	91-20-3	IRIS	10	100	
Napropamide (a)	15299-99-7	OPP	800		
Nitrobenzene	98-95-3	IRIS	1		
Nitroguanidine	556-88-7	IRIS	700	700	
Nitrophenol (p-)	100-02-7	EPA DWEL	60	60	
Norflurazon (a)	27314-13-2	OPP	10		
Oxamyl (Vydate) (a)	23135-22-0	IRIS	200		200
Paraquat	1910-42-5	IRIS	3	30	
Parathion	56-38-2	HEAST	4		
PCNB (pentachloronitrobenzene)	82-68-8	IRIS	2		
Pentachlorophenol	87-86-5	IRIS	0.9		1
Perchlorate	14797-73-0	ME-CDC	1		
Phenol (a)	108-95-2	IRIS	2000	2000	
Phorate	298-02-2	HEAST	1		
Picloram	1918-02-1	IRIS	500		500
Polychlorinated biphenyls (PCBs)	1336-36-3	IRIS	0.5		0.5
Prometon	1610-18-0	IRIS	100	400	
Prometryn	7287-19-6	IRIS	30		
Pronamide	23950-58-5	OPP	10		
Propachlor	1918-16-7	IRIS	90		
Propanil (a)	709-98-8	IRIS	40		
Propazine	139-40-2	IRIS	100	10	
Propham (a)	122-42-9	IRIS	100	100	
Propiconazole	60207-90-1	IRIS	9		
Propylene glycol	57-55-6	PPRTV	140000		
Pyrene	129-00-0	IRIS	200		
RDX (1,3,5-trinitro-1,3,5-triazine)	121-82-4	IRIS	3	2	
Resorcinol (1,3-Benzenediol) (a)	108-46-3	ME-CDC	100		
Rotenone (a)	83-79-4	IRIS	30		
Simazine (a)	122-34-9	IRIS	4		4
Styrene (a)	100-42-5	IRIS	100	100	100
Tebufenozide (a)	112410-23-8	OPP	100		
Tebuthiuron	34014-18-1	IRIS	500	500	
Terbacil	5902-51-2	IRIS	90	90	
Terbufos	13071-79-9	HEAST	0.2	0.4	
Tetrachlorodibenzo-p-dioxin (2,3,7,8-)	1746-01-6	CA-OEHHA	0.000003		3 E-5
Tetrachloroethane (1,1,1,2-) (a)	630-20-6	IRIS	10	70	
Tetrachloroethane (1,1,2,2-) (a)	79-34-5	IRIS	2		
Tetrachloroethylene	127-18-4	CA-OEHHA	0.6	10	5
Tetrahydrofuran	109-99-9	ME-CDC	70		
Thiram (a)	137-26-8	IRIS	40		
Toluene	108-88-3	IRIS	600		1000
Toxaphene	8001-35-2	IRIS	0.3		3
Tribenuron methyl	101200-48-0	IRIS	6		
Trichloroethane (1,1,1-)	71-55-6	IRIS	10000		200
Trichloroethane (1,1,2-)	79-00-5	IRIS	6	3	5
Trichloroethylene	79-01-6	IRIS	4		5
Trichlorofluoromethane (a)	75-69-4	IRIS	2000		
Trichlorophenol (2,4,5-)	95-95-4	IRIS	700		
Trichlorophenol (2,4,6-)	88-06-2	PPRTV	7		
Trichlorophenoxyacetic acid (2,4,5-)	93-76-5	IRIS	70	70	
Trichlorophenoxypropionic acid (2,4,5-)	93-72-1	IRIS	60		
Trichloropropane (1,2,3-)	96-18-4	HEAST	0.05		
Trichlorobenzene (1,2,4-)	120-82-1	IRIS	70		

Maximum Exposure Guidelines (MEG) for Drinking Water

Maine Center for Disease Control, Maine Department of Human Services

September 30, 2011

CHEMICALS	CASRN#	MEG BASIS (b)	Maximum Exposure Guideline	EPA HEALTH ADVISORY	EPA OR STATE MCL
			(ppb)	(ppb)	(ppb)
Trichlorobenzene (1,3,5-)	108-70-3	EPA DWEL	40		
Triclopyr acid	55335-06-3	OPP	400		
Trifluralin (a)	1582-09-8	IRIS	50	10	
Trinitroglycerol (nitroglycerin)	55-63-0	EPA HA	5	5	
Trinitrophenol (2,4,6-) (a)	88-89-1	ME-CDC	60		
Trinitrotoluene (2,4,6-) (a)	118-96-7	IRIS	4	2	
Tris (1,3-dichloroisopropyl) phosphate (a)	13674-87-8	ME-CDC	10		
Vinyl acetate	108-05-4	HEAST	7000		
Vinyl chloride	75-01-4	IRIS	0.2		2
Xylenes (a)	1330-20-7	IRIS	1000		10000
Zineb (a)	12122-67-7	IRIS	400		
Ziram	137-30-4	OPP	4		
Petroleum Hydrocarbon Fractions					
C5-C8 Aliphatics	NA	MassDEP	300		
C9-C12 Aliphatics	NA	MassDEP	700		
C9-C18 Aliphatics	NA	MassDEP	700		
C19-C36 Aliphatics	NA	MassDEP	10000		
C9-C10 Aromatics	NA	MassDEP	200		
C11-C22 Aromatics	NA	MassDEP	200		

NOTES:

MEG = Maximum Exposure Guideline

MCL = Maximum Contaminant Level

EPA = U.S. Environmental Protection Agency

ppb = parts per billion, same as micrograms per liter

NA = Not applicable

(a) The MEG for this compound has not changed from the previously published value, but has been rounded to one significant figure.

(b) The Interim/Final status has been removed and replaced with the source of the toxicity information used for MEG development.

IRIS - Integrated Risk Information System; June 2010

CA-OEHHA - California Office of Environmental Health Hazard Assessment; June 2010

ATSDR - Agency for Toxic Substances and Disease Registry; December 2009

PPRTV - Provisional Peer-Reviewed Toxicity Values (developed by Superfund Technical Support Center); April 2010

HEAST - Health Effects Assessment Summary Tables; July 1997

ITER - International Toxicity Estimates for Risk; June 2010

EPA HA - EPA Lifetime Health Advisory

EPA DWEL - EPA Drinking Water Exposure Limit

EPA OW - EPA Office of Water

EPA MCL - EPA Maximum Contaminant Level

MassDEP - Massachusetts Department of Environmental Protection; 2008

OPP - Office of Pesticides Program; June 2010

ME-CDC - Maine Center for Disease Control and Protection