

US EPA ARCHIVE DOCUMENT

ANALYTE NAME	CAS #	HNV Nondrinking Value	WV Value	HCV Nondrinking Value	FCV Value	AMV Value
1,1,1,2-Tetrachloroethane #	630206	3500	NA	100	ID	ID
1,1,1-Trichloroethane	71556	42000	NA	NA	89	800
1,1,2,2-Tetrachloroethane #	79345	4300	NA	78	200	910
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	1834000	NA	NA	32	280
1,1,2-Trichloroethane #	79005	3000	NA	330	730	3200
1,1-Dichloroethane	75343	62000	NA	NA	740	6600
1,1-Dichloroethylene	75354	33000	NA	NA	130	1200
1,2,3-Trichlorobenzene	87616	73	NA	NA	ID	ID
1,2,4-Trichlorobenzene	120821	99	NA	NA	30	100
1,2,4-Trimethylbenzene	95636	330	NA	NA	17	150
1,2-Dibromo-3-chloropropane #	96128	ID*	NA	4.9	ID	ID
1,2-Dibromoethane #	106934	8200	NA	5.7	15	140
1,2-Dichlorobenzene	95501	11000	NA	NA	13	120
1,2-Dichloroethane #	107062	420000	NA	360	2000	8200
1,2-Dichloropropane #	78875	380000	NA	290	230	2000
1,3,5-Trimethylbenzene	108678	4200	NA	NA	45	410
1,3-Dichlorobenzene	541731	65	NA	NA	28	100
1,4-Dichlorobenzene #	106467	11000	NA	240	17	100
1,4-Dioxane #	123911	320000	NA	2800	22000	200000
2,2-Dichloropropane	594207	ID	NA	NA	ID	ID
2-Hexanone	591786	630000	NA	NA	ID	ID
2-Propanol	67630	2200000	NA	NA	57000	500000
4-Methyl-2-pentanone	108101	ID	NA	NA	ID	ID
Acenaphthylene	208968	ID	NA	NA	ID	ID
Acetone	67641	450000	NA	NA	1700	15000
Acrylonitrile #	107131	320	NA	1.2	66	590
Anthracene	120127	2400	NA	NA	ID	ID
Benzene #	71432	510	NA	310	200	950
Benzo(a)anthracene	56553	NLS	NA	NLS	ID	ID
Benzo(a)pyrene #	50328	NLS	NA	NLS	ID	ID
Benzo(b)fluoranthene #	205992	NLS	NA	NLS	ID	ID
Bromochloromethane	74975	59000	NA	NA	ID	ID
Bromoform #	75252	8100	NA	890	ID	ID
Bromomethane	74839	2600	NA	NA	35	320
Carbon disulfide	75150	34000	NA	NA	ID	ID
Carbon tetrachloride #	56235	140	NA	45	77	690
Chlorobenzene	108907	3200	NA	NA	25	220
Chloroethane #	75003	27000000	NA	9400	1100	10000
Chloroform #	67663	11000	NA	*	630	5700
Chloromethane #	74873	1300000	NA	7300	ID	ID
Chrysene #	218019	ID	NA	ID	ID	ID
cis-1,2-Dichloroethylene	156592	36000	NA	NA	620	5500
cis-1,3-Dichloropropylene #	10061026	39000	NA	140	9	81
Cyclohexane	110827	ID	NA	NA	ID	ID
Dibenz(a,h)anthracene #	53703	NLS	NA	NLS	ID	ID

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Dibromochloromethane #	124481	12000	NA	150	ID	ID
Dichlorodifluoromethane	75718	90000	NA	NA	ID	ID
Ethanol	64175	120000000	NA	NA	NLS	NLS
Ethylbenzene #	100414	8900	NA	110	18	160
Fluoranthene	206440	18	NA	NA	1.6	14
Fluorene	86737	160	NA	NA	12	110
Hexachlorobutadiene # @	87683	0.098	0.053	0.35	1	7
Hexachloroethane #	67721	7.6	NA	6.7	13	110
Indeno (1,2,3-cd) pyrene #	193395	NLS	NA	NLS	ID	ID
Isopropylbenzene	98828	3800	NA	NA	28	250
Methyl ethyl ketone	78933	3800000	NA	NA	2200	20000
Methylene chloride #	75092	90000	NA	2600	1500	8500
Naphthalene	91203	2300	NA	NA	11	100
n-Butylbenzene	104518	ID	NA	NA	ID	ID
Nickel	7440020	210000	NA	NA	(EXP(0.846*(LnH)+0.0584))*0.997D	(EXP(0.846*(LnH)+2.255))*0.998D
Phenanthrene	85018	ID*	NA	NA	1.4	4.7
p-Isopropyltoluene	99876	ID	NA	NA	ID	ID
Pyrene	129000	15	NA	NA	ID	ID
sec-Butylbenzene	135988	ID	NA	NA	ID	ID
Styrene #	100425	18000	NA	80	160	1400
tert-Butylbenzene	98066	ID	NA	NA	ID	ID
Tetrachloroethylene #	127184	1800	NA	60	190	1400
Tetrahydrofuran	109999	26000	NA	NA	11000	74000
Toluene	108883	51000	NA	NA	270	1300
trans-1,2-Dichloroethylene	156605	19000	NA	NA	1500	14000
trans-1,3-Dichloropropylene #	10061015	39000	NA	140	9	81
Trichloroethylene #	79016	550	NA	370	200	1800
Vanadium	7440622	540	NA	NA	12	110
Vinyl chloride #	75014	4400	NA	13	930	8400

Michigan water quality values for the protection of human health (Human Noncancer Value-HNV and Human Cancer Value-HCV), wildlife (Wildlife Value-WV), and aquatic life (Final Chronic Value-FCV and Aquatic Maximum Value-AMV). See table legend for definitions of these values. All values are reported in units of micrograms per cubic liter or ug/L.

Definitions:

Human noncancer value (HNV): HNV (nondrinking) means the maximum ambient water concentration of a substance at which adverse noncancer effects are not likely to occur in human population from lifetime exposure from consuming fish from the water (15 grams of fish/day) and conducting water-related recreation activities (ingestion of 0.01 liters of water/day).

Human cancer value (HCV): HCV (nondrinking) means the maximum ambient water concentration of a substance at which a lifetime of exposure from consuming fish from the water (15 grams of fish/day) and conducting water-related recreation activities (ingestion of 0.01 liters of water/day) will represent a plausible upper bound risk of contracting cancer of 1 in 100,000. These values are only calculated for carcinogens.

Wildlife value (WV) (*calculated only for Bioaccumulative Chemicals of Concern*). WV means the maximum ambient water concentration of a substance at which adverse effects are not likely to result in population-level impacts to mammalian and avian wildlife populations from lifetime exposure through drinking water and aquatic food supply.

Final chronic value (FCV). FCV means the level of a substance that does not allow injurious or debilitating effects in an aquatic organism resulting from repeated long-term exposure to a substance relative to the organism's lifespan.

Aquatic maximum value (AMV). AMV means the highest concentration of a material in the ambient water column to which an aquatic community can be exposed briefly without resulting in unacceptable effects.

All chemical specific values are in ug/L and expressed as total unless otherwise indicated

Codes found in the table:

EXP = exponent in log base e

H = hardness (in mg/L)

ID = insufficient data to derive value

NLS = no literature search has been conducted

NA = not applicable

@ = Bioaccumulative Chemical of Concern

= carcinogen

* = the lowest HNV, WV, HCV or FCV given for this chemical will adequately protect the uses identified with "ID*"

D = value is expressed as dissolved