Comparison Chart of Drinking Water Standards from around the World

All values are in units of mg/L unless stated otherwise

	Guidelines for Canadian Drinking Water Quality[1]		National Primary Drinking Water Regulations (USA)[2]		WHO Guidelines for Drinking Water Quality[3]	Drinking Water Directives (EU)[4]
Parameter	MAC[a]	AO [or OG][b]	MCL 1[c]	MCL 2[d]	Guideline Value	Parametric Value
Acrylamide				TT	0.0005	0.0001
Adipate			0.4			
Alachor			0.002		0.02	
Aldicarb					0.01	
Aldrin and Dieldrin					0.00003	
Aluminum		OG:0.1/0.2		0.05 - 0.2		0.2
Ammonium						0.5
Antimony	0.006		0.006		0.02	0.005
Arsenic	0.01		0.01		0.01	0.01
Atrazine	0.005		0.003		0.01	
Azinphos-methyl	0.02					
Barium	1.0		2.0		0.7	
Benzene	0.005		0.005		0.01	0.001
Benzo[a]pyrene	0.00004		0.0002		0.0007	0.00001
Beryllium			0.004			
Boron	5.0				2.4	1.00
Bromate	0.01		0.01		0.01	0.01
Bromodichloromethane (BDCM)	0.016				0.06	
Bromoform					0.1	
Bromoxynil	0.005					
Cadmium	0.005		0.005		0.003	0.005
Carbaryl	0.09					
Carbofuran	0.09		0.04		0.007	
Carbon tetrachloride	0.005		0.005		0.004	
Chloramines--total	3.0		4		3	
Chlorate	1.0				0.7	
Chlordane			0.002		0.0002	
Chloride		AO:≤250		250		250
Chlorite	1.0		1		0.7	
Chloroform					0.3	
Chlorotoluron					0.03	
Chlorpyrifos	0.09				0.03	
Chromium	0.05		0.1		0.05	0.05

Coliforms, total	None detectable per 100mL		less than 1 per 100 mL	50%		
Colour		AO:≤15 TCU				Inoffensive
Copper		AO:≤1.0	1.3	TT 1.3	2.0	2.0
Cyanazine					0.0006	
Cyanide	0.2		0.2		0.07	0.05
Cyanobacterial toxins	0.0015				0.001	
Diazinon	0.02					
Dicamba	0.12					
1,2-Dichlorobenzene	0.2	AO:≤0.003	0.6		1.0	
1,4-Dichlorobenzene	0.005	AO:≤0.001	0.075		0.3	
1,2-Dichloroethane	0.005		0.005		0.05	0.003
1,1-Dichloroethylene	0.014		0.007			
Dichloromethane	0.05		0.005		0.02	
2,4-Dichlorophenol	0.9	≤0.0003				
2,4-Dichlorophenoxyacetic acid	0.1		0.07		0.03	
DDT and metabolites					0.001	
Di(2-ethylhexyl)phthalate			0.006		0.008	
1,2-Dichloroethylene			0.07			
1,2-Dichloropropane			0.005		0.04	
Diclofop-methyl	0.009					
Dimethoate	0.02				0.006	
Dinoseb			0.007			
1,4-Dioxane					0.05	
Diquat	0.07		0.02			
Diuron	0.15					
Edetic acid (EDTA)					0.6	
Endothall			0.1			
Endrin			0.002		0.0006	
Epichlorohydrin				TT	0.0004	0.0001
Ethylbenzene	0.14	AO:≤0.0016	0.7		0.3	
Fenoprop					0.009	
Fluoride	1.5		4	2.0	1.5	1.5
Glyphosate	0.28		0.7			
Haloacetic Acids-Total (HAAs)	0.08		0.06			
Heptachlor			0.0004			
Heptachlor epoxide			0.0002			
Hexachlorobenzene			0.001			
Hexachlorobutadiene					0.0006	
Hexachlorocyclopentadiene			0.05			
Hydrogen ion concentration						≥ 6.5 and ≤ 9.5
Iron		AO:≤0.3		0.3		0.2
Isoproturon					0.009	
Lead	0.01		0.015	TTS	0.01	0.01
Lindane			0.0002		0.002	
Malathion	0.19					

Manganese		AO:≤0.05		0.05	0.4	0.05
Mercury	0.001		0.002		0.006	0.001
Methoxychlor			0.04		0.02	
Methyl tertiary-butyl ether		0.015				
Metolachlor	0.05				0.01	
Metribuzin	0.08					
Microcystin-LR					0.001	
Molinate					0.006	
Molybdenum					0.07	
Monochloroacetate					0.02	
Monochlorobenzene	0.08	AO:≤0.03				
N -Nitrosodimethylamine					0.0001	
Nickel					0.07	0.02
Nitrate	45		10		50	50
Nitrilotriacetic acid (NTA)	0.4				0.2	
Nitrite	3		1		3	0.5
Odour		Inoffensive				Inoffensive
Oxamyl (Vydate)			0.2			
Paraquat (as dichloride)	0.01					
Pendimethalin					0.02	
Pentachlorophenol	0.06	AO:≤0.030	0.001		0.009	
Pesticides						0.0005
pH		7.0-10.5				
Phorate	0.002					
Picloram	0.19		0.5			
Polychlorinated biphenyls (PCBs)			0.0005			
Polycyclic aromatic hydrocarbons						0.0001
Pyriproxyfen						
Selenium	0.05		0.05		0.04	0.01
Silver				0.1		
Simazine	0.01		0.004		0.002	
Sodium		AO:≤200				200
Styrene			0.1		0.02	
Sulphate		AO:≤500		250		250
Sulphide (as H2S)		AO:≤0.05				
Taste		Inoffensive				Inoffensive
Temperature		AO:≤15°C				
Terbufos	0.001					
Terbuthylazine					0.007	
Tetrachloroethylene	0.01		0.005		0.04	0.01
2,3,4,6-Tetrachlorophenol	0.1	AO:≤0.001				
Thallium			0.002	500		
Toluene	0.06	AO:≤0.024	1.0		0.7	
Total dissolved solids (TDS)		AO:≤500		500		
Toxaphene			0.003			
Trichloroacetate					0.2	
Trichloroethylene	0.005		0.005		0.02	0.01

2,4,6-Trichlorophenol	0.005	AO:≤0.002			0.2	
1,2,4-Trichlorobenzene			0.07			
Trifluralin	0.045				0.02	
Trihalomethanes-total	0.1		0.08			0.1
Trutuim					10000 Bq/L	100 Bq/l
Turbidity	0.1-1.0 NTU			TT		Inoffensive
Uranium	0.0s		30 µg/L		0.03	
Vinyl chloride	0.002		0.002		0.0003	0.0005
Xylenes--total	0.09	AO:≤0.02	10		0.5	
Zinc		AO:≤5.0		5.0		

[a] Maximum Acceptable Concetration - guideline is health-based

[b] Aesthetic Objective [or Operational Guidance Value] - based on aethetic or opperational considerations

[c] Primary Maximum Contaminant Level - regulation is health-based

[d] Secondary Maximum Contaminant Level - regulation is based on aethetic considerations

[1] Health Canada (2017). *Guidelines for Canadian Drinking Water Quality—Summary Table* . Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.
Source: http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/sum_guide-res_recom/index-eng.php
Pdf link: http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf

[2] United States Environmental Protection Agency, *National Primary Drinking Water Regulation Table* , Updated May 2009
Source: https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulation-table
Pdf link: https://www.epa.gov/sites/production/files/2016-06/documents/npwdr_complete_table.pdf

[3] World Health Organization. (2011). *Guidelines for drinking-water quality: Fourth edition incorporating the first addendum*
Source: http://www.who.int/water_sanitation_health/publications/drinking-water-quality-guidelines-4-including-1st-addendum/en/
Pdf link: http://apps.who.int/iris/bitstream/10665/44584/1/9789241548151_eng.pdf

[4] Council of the European Union. (1998). *Council Directive 98/83/EC on the Quality of Water Intended for Human Consumption.* (consolidated text of the Directive with its latest amendments including Commission Directive (EU) 2015/1787 of 6 -2015)
Source: http://ec.europa.eu/environment/water/water-drink/legislation_en.html
Pdf link: http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:01998L0083-20151027&from=EN