

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

		Soil Quality Guidelines for the Protection of Environmental and Human Health				
		Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Date
Chemical name	Chemical groups	Agricultural	Residential/ parkland	Commercial	Industrial	
1,1,1-Trichloroethane CASRN 71556	Organic Halogenated aliphatic compounds Chlorinated ethanes	0.1	5	50	50	1991
1,1,1-Trichloroethane	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
1,1,2,2- Tetrachloroethene PCE (Tetrachloroethylene) CASRN 127184	Organic Halogenated aliphatic compounds Chlorinated ethenes	0.1	0.2	0.5	0.6	1997
1,1,2,2-Tetrachlorethane CASRN 79345	Organic Halogenated aliphatic compounds Chlorinated ethanes	0.1	5	50	50	1991
1,1,2-Trichloroethane	Organic Halogenated aliphatic compounds Chlorinated ethanes	0.1	5	50	50	1991
1,1,2-Trichloroethane	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
1,1,2-Trichloroethene TCE (Trichloroethylene) CASRN 79-01-6	Organic Halogenated aliphatic compounds Chlorinated ethenes	0.01	0.01	0.01	0.01	2006
1,1-Dichloroethane	Organic Halogenated aliphatic compounds Chlorinated ethanes	0.1	5	50	50	1991
1,1-Dichloroethene Dichloroethylene	Organic Halogenated aliphatic compounds Chlorinated ethenes	0.1	5	50	50	1991

1,2,3,4-Tetrachlorobenzene CASRN 634662	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,2,3,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,2,3-Trichlorobenzene CASRN 87616	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,2,4,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,2,4-Trichlorobenzene CASRN 120801	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,2-Dichlorobenzene CASRN 95501	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.1	1	10	10	1991
1,2-Dichloroethane CASRN 1070602	Organic Halogenated aliphatic compounds Chlorinated ethanes	0.1	5	50	50	1991
1,2-Dichloroethene	Organic Halogenated aliphatic compounds Chlorinated ethenes	0.1	5	50	50	1991
1,2-Dichloropropane	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
1,2-Dichloropropene (cis and trans)	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
1,3,5-Trichlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
1,3-Dichlorobenzene CASRN 541731	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.1	1	10	10	1991

1,4-Dichlorobenzene CASRN 106467	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.1	1	10	10	1991
2,3,4,6-Tetrachlorophenol	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
2,4,6-Trichlorophenol	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
2,4-Dichlorophenol	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
Acenaphthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Acenaphthylene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Aliphatics nonchlorinated (each)	Organic Non-halogenated aliphatic compounds	0.3	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Anthracene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Antimony	Inorganic Metals	20	20	40	40	1991
Arsenic CASRN none	Inorganic Metals	12	12	12	12	1997
Barium	Inorganic Metals	750	500	2000	2000	2013
Benz(a)anthracene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Benzene CASRN 71432	Organic Monocyclic aromatic compounds	Table	Table	Table	Table	2004
Benzo(a)pyrene	Organic Polyaromatic compounds	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008

PAHs	Polycyclic aromatic hydrocarbons					
Benzo(b)fluoranthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Benzo(k)fluoranthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Beryllium	Inorganic Metals	4	4	8	8	2015
Boron	Inorganic Metals	2	No data	No data	No data	1991
Cadmium CASRN 7440439	Inorganic Metals	1.4	10	22	22	1999
Chromium (total) CASRN 7440-47-3	Inorganic Metals	64	64	87	87	1997
Chromium, hexavalent (Cr(VI)) CASRN 7440473	Inorganic Metals	0.4	0.4	1.4	1.4	1999
Chrysene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Cobalt	Inorganic Metals	40	50	300	300	1991
Conductivity	Physical	2 dS/m	2 dS/m	4 dS/m	4 dS/m	1991
Copper	Inorganic Metals	63	63	91	91	1999
Cyanide	Inorganic	0.9	0.9	8	8	1997
Dibenz(a,h)anthracene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Dichloro diphenyl trichloroethane; 2,2-Bis(p- chlorophenyl)-1,1,1- trichloroethane DDT (total)	Organic Pesticides Organochlorine compounds	0.7	0.7	12	12	1999

Dichloromethane Methylene chloride CASRN 75092	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
Dichlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
Diisopropanolamine DIPA CASRN 110974	Organic	180	180	180	180	2006
Ethylbenzene CASRN 100414	Organic Monocyclic aromatic compounds	Table	Table	Table	Table	2004
Ethylene glycol CASRN 107211	Organic Glycols	960	960	960	960	1999
Fluoranthene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Fluorene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Fluoride	Inorganic	200	400	2000	2000	1991
Hexachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
Hexachlorocyclohexane Lindane	Organic Pesticides Organochlorine compounds	0.01	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Indeno(1,2,3-c,d)pyrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Lead	Inorganic Metals	70	140	260	600	1999
Mercury CASRN 7439976	Inorganic Metals	6.6	6.6	24	50	1999
Methanol		Table	Table	Table	Table	2017

CASRN 67-56-1						
Molybdenum	Inorganic Metals	5	10	40	40	1991
Monochlorobenzene CASRN 108907	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.1	1	10	10	1991
Monochlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
Naphthalene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Nickel	Inorganic Metals	45	45	89	89	2015
Nonylphenol and its ethoxylates CASRN 84852153	Organic Nonylphenol and its ethoxylates	5.7	5.7	14	14	2002
n-hexane CASRN 110-54-3	Aliphatic hydrocarbon	Table	Table	Table	Table	2011
Pentachlorobenzene CASRN 608935	Organic Monocyclic aromatic compounds Chlorinated benzenes	0.05	2	10	10	1991
Pentachlorophenol PCP	Organic Monocyclic aromatic compounds Chlorinated phenols	7.6	7.6	7.6	7.6	1997
Phenanthrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
Phenolic compounds, nonchlorinated	Organic Non-halogenated aromatic hydroxy compounds	0.1	1	10	10	1991
Phenols (mono- & dihydric) CASRN 108952	Organic Aromatic hydroxy compounds	3.8	3.8	3.8	3.8	1997
Phthalic acid esters (each)	Organic Phthalate esters	30	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Polychlorinated biphenyls	Organic					

PCBs	Polyaromatic compounds Polychlorinated biphenyls	0.5	1.3	33	33	1999
Polychlorinated dibenzo-p-dioxins/dibenzo furans PCDDs, PCDFs	Organic Polyaromatic compounds Polychlorinated dioxins and furans	4 ng TEQ.kg-1	4 ng TEQ.kg-1	4 ng TEQ.kg-1	4 ng TEQ.kg-1	2002
Propylene glycol CASRN 57556	Organic Glycols	insufficient information	insufficient information	insufficient information	insufficient information	2006
Pyrene PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	Consult Factsheet	Consult Factsheet	Consult Factsheet	Consult Factsheet	2008
pH	Inorganic Acidity, alkalinity and pH	6 to 8	6 to 8	6 to 8	6 to 8	1991
Quinoline PAHs	Organic Polyaromatic compounds Polycyclic aromatic hydrocarbons	0.1	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Selenium	Inorganic Metals	1	1	2.9	2.9	2009
Silver	Inorganic Metals	20	20	40	40	1991
Sodium adsorption ratio SAR		5	5	12	12	1991
		Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Concentration (mg/kg dry weight)	Date
Chemical name	Chemical groups	Agricultural	Residential/ parkland	Commercial	Industrial	
Styrene CASRN 100425	Organic Monocyclic aromatic compounds	0.1	5	50	50	1991
Sulfolane Bondelane CASRN 126330	Organic Organic sulphur compound	0.8	0.8	0.8	0.8	2006
Sulphur (elemental)	Inorganic Inorganic sulphur compounds	500	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Tetrachloroethene	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991

Tetrachloromethane Carbon tetrachloride CASRN 56235	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
Tetrachlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
Thallium	Inorganic Metals	1	1	1	1	1999
Thiophene	Miscellaneous organic compound	0.1	<i>No data</i>	<i>No data</i>	<i>No data</i>	1991
Tin	Inorganic Metals	5	50	300	300	1991
Toluene CASRN 108883	Organic Monocyclic aromatic compounds	Table	Table	Table	Table	2004
Trichloromethane Chloroform CASRN 67663	Organic Halogenated aliphatic compounds Halogenated methanes	0.1	5	50	50	1991
Trichlorophenols	Organic Monocyclic aromatic compounds Chlorinated phenols	0.05	0.5	5	5	1991
Uranium CASRN 7440-61-1	Inorganic Metals	23	23	33	300	2007
Vanadium	Inorganic Metals	130	130	130	130	1997
Xylene	Organic Monocyclic aromatic compounds	Table	Table	Table	Table	2004
Zinc	Inorganic Metals	250	250	410	410	2018

Chemical name	Chemical groups
Sodium adsorption ratio SAR	

