

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.

Toluene

CASRN: 108883

Parameter 1: ORGANIC

Parameter 2: Monocyclic aromatic compounds

Water Quality for the Protection of Aquatic Life

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

[Download
Factsheet](#)

Freshwater

Concentration ($\mu\text{g/L}$) 2

Interim guideline.

The technical document for the guideline is available from the Ontario Ministry of the Environment.

Substance has been re-evaluated since CCREM 1987 + Appendixes. Either a new guideline has been derived or insufficient data existed to derive a new guideline.

Date 1996

Marine

Concentration ($\mu\text{g/L}$) 215

Interim guideline.

Substance has been re-evaluated since CCREM 1987 + Appendixes. Either a new guideline has been derived or insufficient data existed to derive a new guideline.

Date 1996

Water Quality for the Protection of Agriculture

Irrigation

Concentration ($\mu\text{g/L}$) Insufficient data

No fact sheet created.

The technical document for this guideline is available from the Ontario Ministry of the Environment.

Date	1996
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Livestock

Concentration (µg/L)	24
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No fact sheet created.

The technical document for this guideline is available from the Ontario Ministry of the Environment.

Date	1996
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Sediment Quality for the Protection of Aquatic Life

Freshwater

Concentration (µg/kg dry weight) - ISQG	No data
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Concentration (µg/kg dry weight) - PEL	No data
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Date	No data
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Marine

Concentration (µg/kg dry weight) - ISQG	No data
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Concentration (µg/kg dry weight) - PEL	No data
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Date	No data
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Soil Quality for the Protection of Environmental and Human Health

Further documentation on these guidelines can be found in the Canadian Environment Quality Guidelines.

[Download Factsheet](#)

Concentration (mg/kg dry weight) - Agricultural

Table

Guideline	Coarse	Fine
Toluene (mg/kg)		
Surface (≤1.5m)	0.37	0.08
Subsoil (>1.5m)	0.37	0.08
Notes :		
Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQGHH) and a Soil Quality Guideline for Environmental health (SQGE). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use.		
Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on a number of factors, including soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 660 mg·kg ⁻¹ in coarse soil, or 680 mg·kg ⁻¹ in fine soil, formation of free-phase toluene will likely occur. Contact jurisdiction for guidance.		

Concentration (mg/kg dry weight) - Residential / parkland

Table

Guideline	Coarse	Fine
Toluene (mg/kg)		
Surface (≤1.5m)	0.37	0.08
Subsoil (>1.5m)	0.37	0.08

Notes :

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQGHH) and a Soil Quality Guideline for Environmental health (SQGE). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use.

Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on a number of factors, including soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 660 mg·kg⁻¹ in coarse soil, or 680 mg·kg⁻¹ in fine soil, formation of free-phase toluene will likely occur. Contact jurisdiction for guidance.

Concentration (mg/kg dry weight) - Commercial

Table

Guideline	Coarse	Fine
Toluene (mg/kg)		
Surface (≤1.5m)	0.37	0.08
Subsoil (>1.5m)	0.37	0.08

Notes :

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQGHH) and a Soil Quality Guideline for Environmental health (SQGE). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use.

Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on a number of factors, including soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 660 mg·kg⁻¹ in coarse soil, or 680 mg·kg⁻¹ in fine soil, formation of free-phase toluene will likely occur. Contact jurisdiction for guidance.

Concentration (mg/kg dry weight) - Industrial

Table

Guideline	Coarse	Fine
Toluene (mg/kg)		
Surface (≤1.5m)	0.37	0.08
Subsoil (>1.5m)	0.37	0.08

Notes :

Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQGHH) and a Soil Quality Guideline for Environmental health (SQGE). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use.

Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on a number of factors, including soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 660 mg·kg⁻¹ in coarse soil, or 680 mg·kg⁻¹ in fine soil, formation of free-phase toluene will likely occur. Contact jurisdiction for guidance.

Date	2004
Tissue Residue Quality for the Protection of Wildlife Consumer of Aquatic Biota	
Concentration ($\mu\text{g}/\text{kg}$ diet wet weight)	<i>No data</i>
Date	<i>No data</i>