

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.

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Factsheet](#)

#### Freshwater

Concentration (µg/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 (µg/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 (µg/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
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Guideline	Coarse	Fine
<b>Toluene (mg/kg)</b>		
Surface (≤1.5m)	0.37	0.08
Subsoil (>1.5m)	0.37	0.08
<b>Notes :</b>		
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 <sup>-1</sup> in coarse soil, or 680 mg·kg <sup>-1</sup> in fine soil, formation of free-phase toluene will likely occur. Contact jurisdiction for guidance.		

Concentration (mg/kg dry weight) - Residential / parkland	Table
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Guideline	Coarse	Fine
<b>Toluene (mg/kg)</b>		
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<sup>-1</sup> in coarse soil, or 680 mg·kg<sup>-1</sup> 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
<b>Toluene (mg/kg)</b>		
<b>Surface (≤1.5m)</b>	0.37	0.08
<b>Subsoil (&gt;1.5m)</b>	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<sup>-1</sup> in coarse soil, or 680 mg·kg<sup>-1</sup> 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
<b>Toluene (mg/kg)</b>		
<b>Surface (≤1.5m)</b>	0.37	0.08
<b>Subsoil (&gt;1.5m)</b>	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<sup>-1</sup> in coarse soil, or 680 mg·kg<sup>-1</sup> 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 (µg/kg diet wet weight)	<i>No data</i>
Date	<i>No data</i>