

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.

Ethylbenzene

CASRN: 100414

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 (µg/L) 90

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) 25

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

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 |
|------|------|

Livestock

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|----------------------|-----|
| Concentration (µg/L) | 2.4 |
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No fact sheet created.

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

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| 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 |
|------|---------|

Marine

| | |
|---|---------|
| Concentration (µg/kg dry weight) - ISQG | No data |
|---|---------|

| | |
|--|---------|
| 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 |
|---|--------|-------|
| Ethylbenzene (mg/kg) | | |
| Surface (≤1.5m) | 0.082 | 0.018 |
| Subsoil (>1.5m) | 0.082 | 0.018 |
| Notes: | | |
| Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG _{HH}) and a Soil Quality Guideline for Environmental Health (SQG _E). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use. | | |
| This guideline value may be less than the common limit of detection in some jurisdictions. Contact jurisdictions for guidance. | | |
| 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 430 mg·kg ⁻¹ soil, formation of free-phase ethylbenzene will likely occur. Contact jurisdiction for guidance. | | |

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

Table

| Guideline | Coarse | Fine |
|---|--------|-------|
| Ethylbenzene (mg/kg) | | |
| Surface (≤1.5m) | 0.082 | 0.018 |
| Subsoil (>1.5m) | 0.082 | 0.018 |
| Notes: | | |
| Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG _{HH}) and a Soil Quality Guideline for Environmental Health (SQG _E). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use. | | |
| This guideline value may be less than the common limit of detection in some jurisdictions. Contact jurisdictions for guidance. | | |
| 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 430 mg·kg ⁻¹ soil, formation of free-phase ethylbenzene will likely occur. Contact jurisdiction for guidance. | | |

Concentration (mg/kg dry weight) - Commercial

Table

| Guideline | Coarse | Fine |
|---|--------|-------|
| Ethylbenzene (mg/kg) | | |
| Surface (≤1.5m) | 0.082 | 0.018 |
| Subsoil (>1.5m) | 0.082 | 0.018 |
| Notes: | | |
| Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG _{HH}) and a Soil Quality Guideline for Environmental Health (SQG _E). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use. | | |
| This guideline value may be less than the common limit of detection in some jurisdictions. Contact jurisdictions for guidance. | | |
| 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 430 mg·kg ⁻¹ soil, formation of free-phase ethylbenzene will likely occur. Contact jurisdiction for guidance. | | |

Concentration (mg/kg dry weight) - Industrial

Table

| Guideline | Coarse | Fine |
|---|--------|-------|
| Ethylbenzene (mg/kg) | | |
| Surface (≤1.5m) | 0.082 | 0.018 |
| Subsoil (>1.5m) | 0.082 | 0.018 |
| Notes: | | |
| Data are sufficient and adequate to calculate a Soil Quality Guideline for Human Health (SQG _{HH}) and a Soil Quality Guideline for Environmental Health (SQG _E). Therefore the soil quality guideline is the lower of the two and represents a fully integrated and de novo guideline for this land use. | | |

This guideline value may be less than the common limit of detection in some jurisdictions. Contact jurisdictions for guidance.

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 430 mg·kg⁻¹ soil, formation of free-phase ethylbenzene will likely occur. Contact jurisdiction for guidance.

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| Date | 2004 |
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Tissue Residue Quality for the Protection of Wildlife Consumer of Aquatic Biota

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|---------------------------------------|---------|
| Concentration (µg/kg diet wet weight) | No data |
|---------------------------------------|---------|

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|------|---------|
| Date | No data |
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