

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.

## Nitrate

---

**CASRN:** 14797-55-8

**Parameter 1:** INORGANIC

**Parameter 2:** Inorganic nitrogen 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

Short Term Concentration (µg/L)

550,000 µg/L or 550 mg/L

All nitrate concentrations presented here will be for the ion only (i.e., as  $\text{mg NO}_3^- \cdot \text{L}^{-1}$ ).

Conversion factors for some of the commonly reported units in the literature are provided in the factsheet.

For protection from direct toxic effects; the guidelines do not consider indirect effects due to eutrophication.

Derived from toxicity tests utilizing  $\text{NaNO}_3$

Derived with severe-effects data (such as lethality) and are not intended to protect all components of aquatic ecosystem structure and function but rather to protect most species against lethality during severe but transient events (e.g. inappropriate application or disposal of the substance of concern).

Long Term Concentration (µg/L)

13,000 µg/L or 13 mg/L

All nitrate concentrations presented here will be for the ion only (i.e., as  $\text{mg NO}_3^- \cdot \text{L}^{-1}$ ).

Conversion factors for some of the commonly reported units in the literature are provided in the factsheet.

For protection from direct toxic effects; the guidelines do not consider indirect effects due to eutrophication.

Derived from toxicity tests utilizing  $\text{NaNO}_3$ .

Derived with mostly no- and some low-effect data and are intended to protect against negative effects to aquatic ecosystem structure and function during indefinite exposures (e.g. abide by the guiding principle as per CCME 2007).

Date

2012

## Marine

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

1,500,000  $\mu\text{g/L}$  or 1500  
 $\text{mg/L}$

All nitrate concentrations presented here will be for the ion only (i.e., as  $\text{mg NO}_3^- \cdot \text{L}^{-1}$ ).  
Conversion factors for some of the commonly reported units in the literature are provided in the factsheet.

For protection from direct toxic effects; the guidelines do not consider indirect effects due to eutrophication.

Derived from toxicity tests utilizing  $\text{NaNO}_3$  and  $\text{KNO}_3$ .

Derived with severe-effects data (such as lethality) and are not intended to protect all components of aquatic ecosystem structure and function but rather to protect most species against lethality during severe but transient events (e.g. inappropriate application or disposal of the substance of concern).

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

200,000  $\mu\text{g/L}$  or 200  $\text{mg/L}$

All nitrate concentrations presented here will be for the ion only (i.e., as  $\text{mg NO}_3^- \cdot \text{L}^{-1}$ ).  
Conversion factors for some of the commonly reported units in the literature are provided in the factsheet.

For protection from direct toxic effects; the guidelines do not consider indirect effects due to eutrophication.

Derived from toxicity tests utilizing  $\text{NaNO}_3$  and  $\text{KNO}_3$ .

Derived with mostly no- and some low-effect data and are intended to protect against negative effects to aquatic ecosystem structure and function during indefinite exposures (e.g. abide by the guiding principle as per CCME 2007).

Date

2012

---

**Irrigation**

Concentration (µg/L)	<i>No data</i>
----------------------	----------------

Date	<i>No data</i>
------	----------------

---

**Livestock**

Concentration (µg/L)	<i>No data</i>
----------------------	----------------

Date	<i>No data</i>
------	----------------

---

**Sediment Quality for the Protection of Aquatic Life**

---

**Freshwater**

Concentration (µg/kg dry weight) - ISQG	<i>No data</i>
---	----------------

Concentration (µg/kg dry weight) - PEL	<i>No data</i>
--	----------------

Date	<i>No data</i>
------	----------------

---

**Marine**

Concentration (µg/kg dry weight) - ISQG	<i>No data</i>
---	----------------

Concentration (µg/kg dry weight) - PEL	<i>No data</i>
--	----------------

Date	<i>No data</i>
------	----------------

---

**Soil Quality for the Protection of Environmental and Human Health**

---

Concentration (mg/kg dry weight) - Agricultural	<i>No data</i>
---	----------------

Concentration (mg/kg dry weight) - Residential / parkland	<i>No data</i>
---	----------------

Concentration (mg/kg dry weight) - Commercial	<i>No data</i>
---	----------------

Concentration (mg/kg dry weight) - Industrial	<i>No data</i>
---	----------------

Date	<i>No data</i>
------	----------------

---

**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>
------	----------------

---