

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.

Ammonia (total)

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

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

Table

Water quality guidelines for total ammonia for the protection of aquatic life (mg/L NH_3).

		pH							
		6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
Temp (°C)	0	231	73.0	23.1	7.32	2.33	0.749	0.25	0.042
	5	153	48.3	15.3	4.84	1.54	0.502	0.172	0.034
	10	102	32.4	10.3	3.26	1.04	0.343	0.121	0.029
	15	69.7	22.0	6.98	2.22	0.715	0.239	0.089	0.026
	20	48.0	15.2	4.82	1.54	0.499	0.171	0.067	0.024
	25	33.5	10.6	3.37	1.08	0.354	0.125	0.053	0.022
	30	23.7	7.50	2.39	0.767	0.256	0.094	0.043	0.021

Note: Measurements of total ammonia in the aquatic environment are often expressed as mg/L total ammonia-N. The present guideline values (mg/L NH_3) can be converted to mg/L total ammonia-N by multiplying the corresponding guideline value by 0.8224. Values falling outside of shaded area should be used with caution. Consult the factsheet for more details. No recommended guideline for marine waters.

Date

2001

Marine

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

No data

Date

No data

Water Quality for the Protection of Agriculture

Irrigation

Concentration ($\mu\text{g/L}$)	<i>No data</i>
Date	<i>No data</i>

Livestock

Concentration ($\mu\text{g/L}$)	<i>No data</i>
Date	<i>No data</i>

Sediment Quality for the Protection of Aquatic Life

Freshwater

Concentration ($\mu\text{g/kg}$ dry weight) - ISQG	<i>No data</i>
Concentration ($\mu\text{g/kg}$ dry weight) - PEL	<i>No data</i>
Date	<i>No data</i>

Marine

Concentration ($\mu\text{g/kg}$ dry weight) - ISQG	<i>No data</i>
Concentration ($\mu\text{g/kg}$ 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 ($\mu\text{g/kg}$ diet wet weight)	<i>No data</i>
Date	<i>No data</i>
