

The Risk Assessment Information System Compendium of Ecological Screening Benchmarks for Chemicals and Radionuclides (2025) (Volume III – Chemicals for Surface Water: Fresh Water)



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November 2025



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Environmental Sciences Division

**THE RISK ASSESSMENT INFORMATION SYSTEM COMPENDIUM OF
ECOLOGICAL SCREENING BENCHMARKS FOR CHEMICALS AND
RADIONUCLIDES (2025) (VOLUME III – CHEMICALS FOR SURFACE WATER:
FRESH WATER)**

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November 2025

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Oak Ridge, TN 37831
managed by
UT-BATTELLE LLC
for the
US DEPARTMENT OF ENERGY
under contract DE-AC05-00OR22725

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1. INTRODUCTION

Volume III presents the chemical benchmarks for surface water: Fresh water. Consult Volume I for information on the sources.

2. CHEMICAL BENCHMARKS FOR SURFACE WATER (FRESH WATER)

Table 1: Benchmark Values for Abamectin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71751-41-2	OPP	Freshwater Invertebrates Acute	Not specified	0.00017	
71751-41-2	OPP	Freshwater Fish Chronic	Not specified	0.00052	
71751-41-2	OPP	Freshwater Fish Acute	Not specified	0.00160	
71751-41-2	OPP	Freshwater Vascular Plant	Not specified	3.90000	
71751-41-2	OPP	Freshwater Nonvascular Plant	Not specified	100.00000	22

Benchmark Values for Abamectin in Surface Water (Fresh Water)

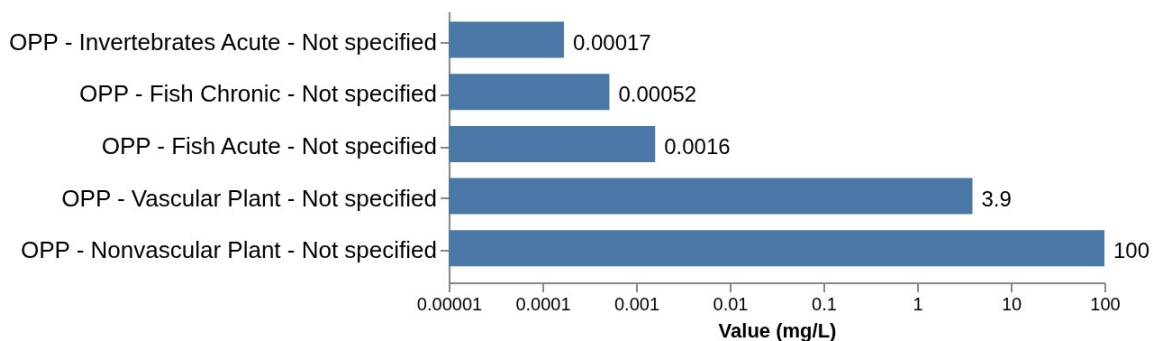


Table 2: Benchmark Values for Acenaphthene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
83-32-9	British Columbia	Freshwater LTC	Not specified	0.0060
83-32-9	California	Freshwater other toxicity	Not specified	0.5200
83-32-9	California	Freshwater acute toxicity	Not specified	1.7000
83-32-9	Canada	Freshwater Long Term	Not specified	0.0058
83-32-9	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.0230
83-32-9	EPA Region 3	BTAG – Freshwater	Not specified	0.0058
83-32-9	EPA Region 4	Chronic Freshwater	Not specified	0.0150
83-32-9	EPA Region 4	Acute Freshwater	Not specified	0.0190
83-32-9	EPA Region 6	Freshwater Chronic	Not specified	0.0230
83-32-9	EPA Region 6	Freshwater Acute	Not specified	0.0800
83-32-9	Florida	SWQS for Fish Consumption Freshwater	Not specified	2.7000

Benchmark Values for Acenaphthene in Surface Water (Fresh Water)

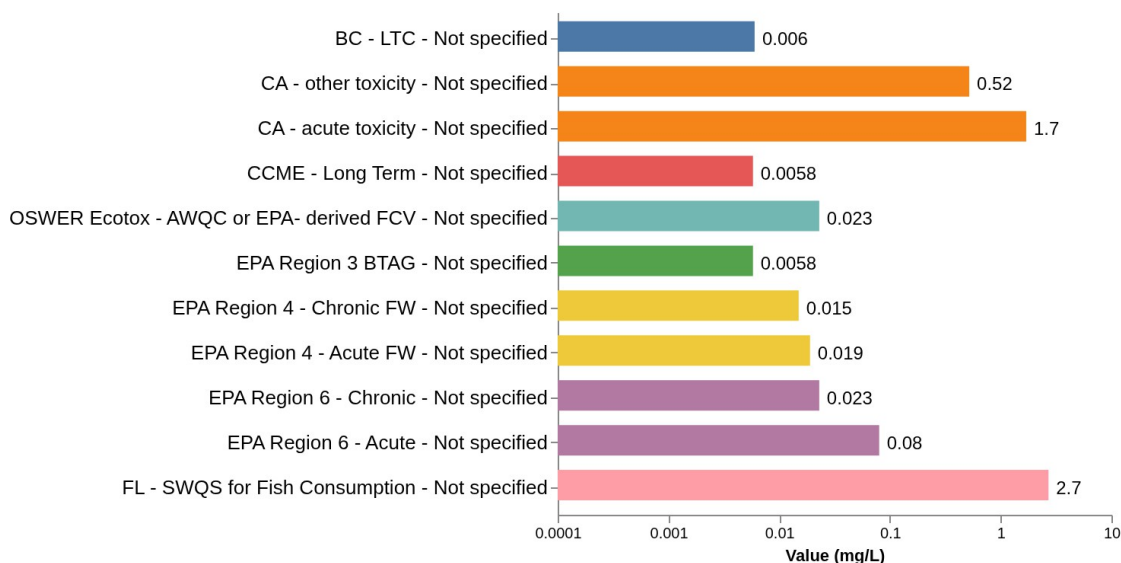


Table 3: Benchmark Values for Acenaphthylene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
208-96-8	EPA Region 4	Chronic Freshwater	Not specified	0.013
208-96-8	EPA Region 4	Acute Freshwater	Not specified	0.120

Benchmark Values for Acenaphthylene in Surface Water (Fresh Water)

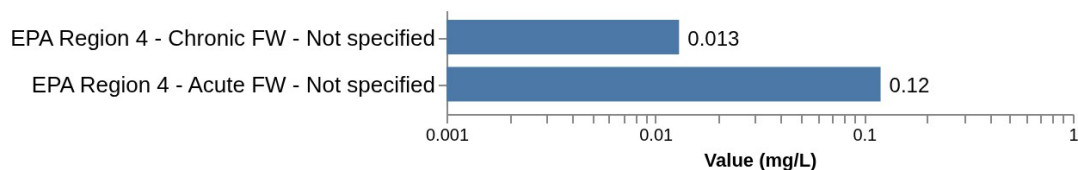


Table 4: Benchmark Values for Acephate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
30560-19-1	EPA Region 4	Chronic Freshwater	Not specified	0.15	
30560-19-1	EPA Region 4	Acute Freshwater	Not specified	0.55	
30560-19-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.15	
30560-19-1	OPP	Freshwater Invertebrates Acute	Not specified	0.55	
30560-19-1	OPP	Freshwater Fish Chronic	Not specified	5.76	
30560-19-1	OPP	Freshwater Nonvascular Plant	Not specified	50.00	22
30560-19-1	OPP	Freshwater Fish Acute	Not specified	416.00	

Benchmark Values for Acephate in Surface Water (Fresh Water)

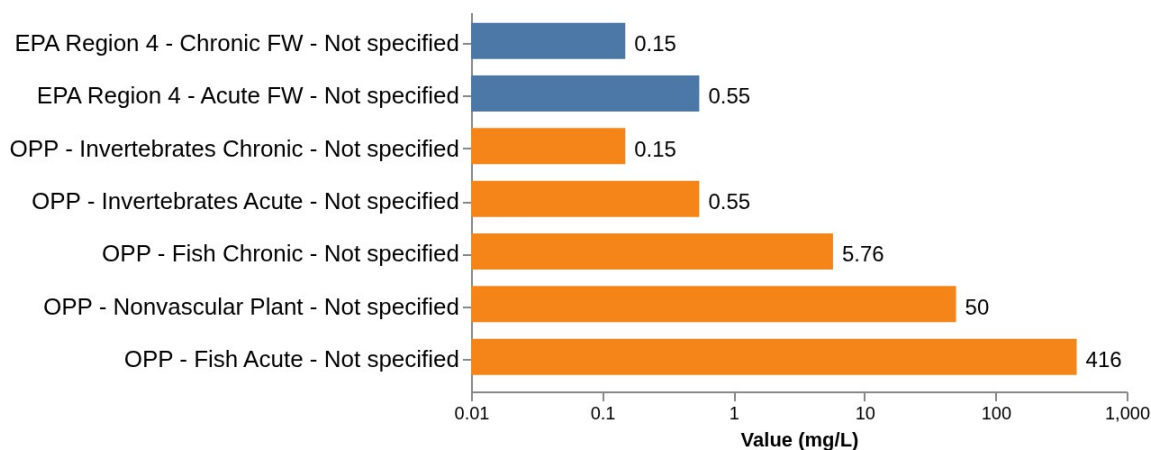


Table 5: Benchmark Values for Acequinocyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57960-19-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00098	
57960-19-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00135	
57960-19-7	OPP	Freshwater Fish Acute	Not specified	0.55000	22
57960-19-7	OPP	Freshwater Nonvascular Plant	Not specified	0.96000	

Benchmark Values for Acequinocyl in Surface Water (Fresh Water)

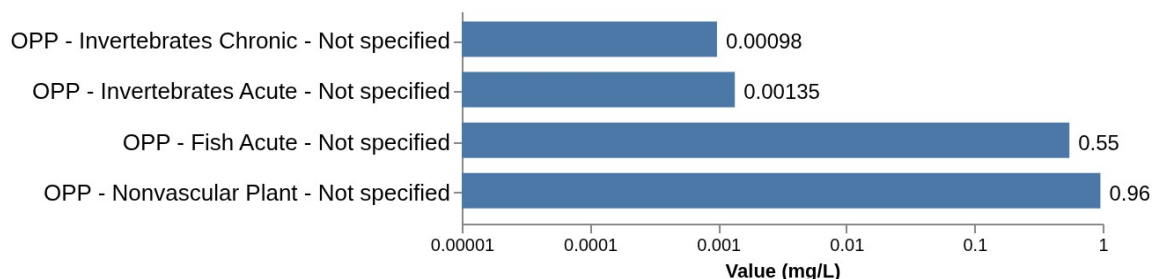


Table 6: Benchmark Values for Acetaldehyde in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-07-0	EPA Region 4	Chronic Freshwater	Not specified	0.13
75-07-0	EPA Region 4	Acute Freshwater	Not specified	1.20

Benchmark Values for Acetaldehyde in Surface Water (Fresh Water)

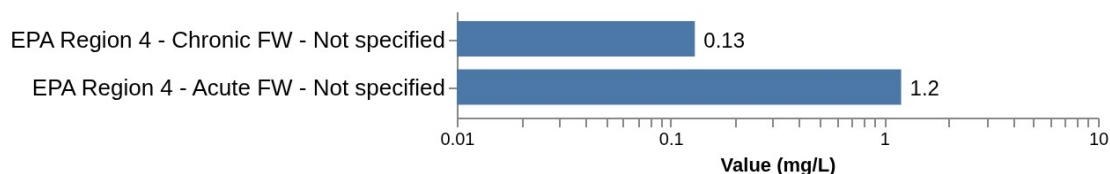


Table 7: Benchmark Values for Acetamido-4-methylphosphinico-butanoic acid, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-6	OPP	Freshwater Fish Acute	Not specified	50.45	22

Benchmark Values for Acetamido-4-methylphosphinico-butanoic acid, 2- in Surface Water (Fresh Water)

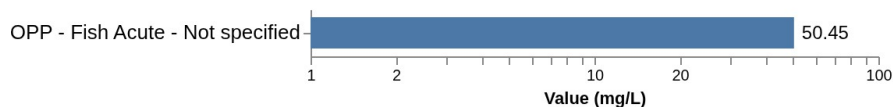


Table 8: Benchmark Values for Acetaminophen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
103-90-2	OPP	Freshwater Invertebrates Acute	Not specified	14.75

Benchmark Values for Acetaminophen in Surface Water (Fresh Water)

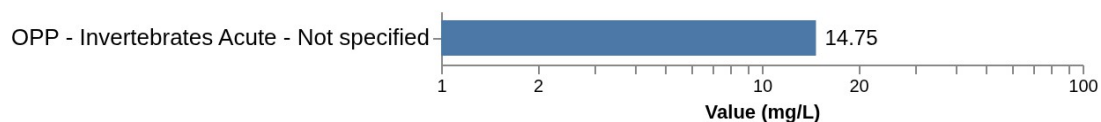


Table 9: Benchmark Values for Acetamiprid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
135410-20-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.0021	
135410-20-7	OPP	Freshwater Invertebrates Acute	Not specified	0.0105	
135410-20-7	OPP	Freshwater Nonvascular Plant	Not specified	1.0000	22
135410-20-7	OPP	Freshwater Vascular Plant	Not specified	1.0000	22
135410-20-7	OPP	Freshwater Fish Chronic	Not specified	19.2000	
135410-20-7	OPP	Freshwater Fish Acute	Not specified	50.0000	22

Benchmark Values for Acetamiprid in Surface Water (Fresh Water)

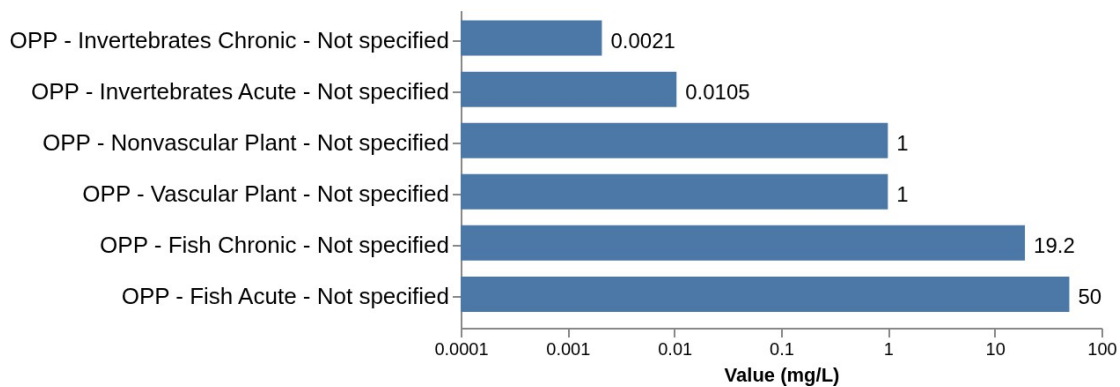


Table 10: Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
94-74-6	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0014	83
94-74-6	Canada	Freshwater Long Term	Not specified	0.0026	
94-74-6	EPA Region 4	Chronic Freshwater	Not specified	0.0026	
94-74-6	EPA Region 4	Acute Freshwater	Not specified	0.0900	
94-74-6	OPP	Freshwater Vascular Plant	Not specified	0.1700	
94-74-6	OPP	Freshwater Nonvascular Plant	Not specified	0.6300	

Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water (Fresh Water)

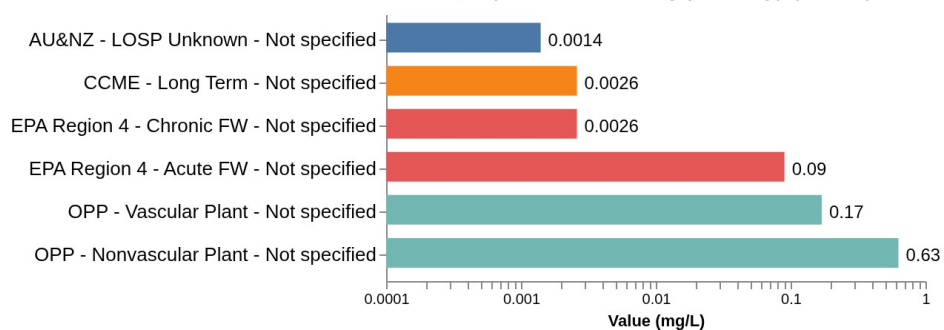


Table 11: Benchmark Values for Acetic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
64-19-7	OPP	Freshwater Invertebrates Acute	Not specified	32.5
64-19-7	OPP	Freshwater Fish Acute	Not specified	151.5
64-19-7	OPP	Freshwater Vascular Plant	Not specified	844.3

Benchmark Values for Acetic acid in Surface Water (Fresh Water)

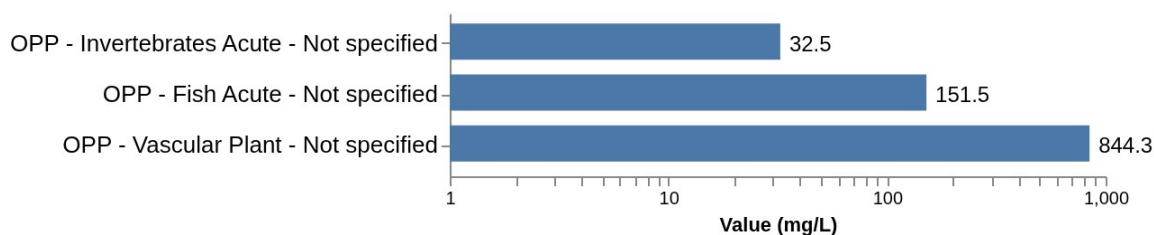


Table 12: Benchmark Values for Acetochlor degradate ethanesulfonic acid (ESA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
187022-11-3	OPP	Freshwater Nonvascular Plant	Not specified	9.9	
187022-11-3	OPP	Freshwater Invertebrates Acute	Not specified	62.5	22
187022-11-3	OPP	Freshwater Fish Acute	Not specified	90.0	22

Benchmark Values for Acetochlor degradate ethanesulfonic acid (ESA) in Surface Water (Fresh Water)

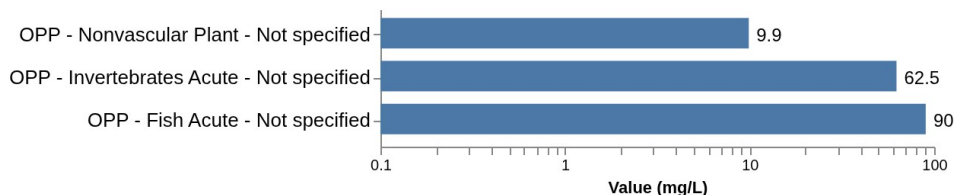


Table 13: Benchmark Values for Acetochlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
34256-82-1	OPP	Freshwater Nonvascular Plant	Not specified	0.00143
34256-82-1	OPP	Freshwater Vascular Plant	Not specified	0.00340
34256-82-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.02210
34256-82-1	OPP	Freshwater Fish Chronic	Not specified	0.13000
34256-82-1	OPP	Freshwater Fish Acute	Not specified	0.19000
34256-82-1	OPP	Freshwater Invertebrates Acute	Not specified	4.10000

Benchmark Values for Acetochlor in Surface Water (Fresh Water)

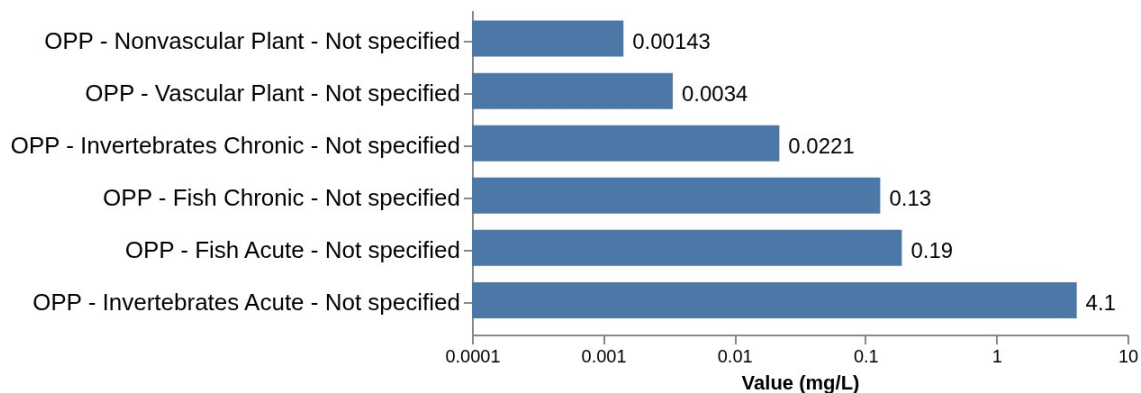


Table 14: Benchmark Values for Acetone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
67-64-1	EPA Region 3	BTAG – Freshwater	Not specified	1.5
67-64-1	EPA Region 4	Chronic Freshwater	Not specified	1.7
67-64-1	EPA Region 4	Acute Freshwater	Not specified	15.0
67-64-1	EPA Region 6	Freshwater Chronic	Not specified	101.2
67-64-1	EPA Region 6	Freshwater Acute	Not specified	607.4

Benchmark Values for Acetone in Surface Water (Fresh Water)

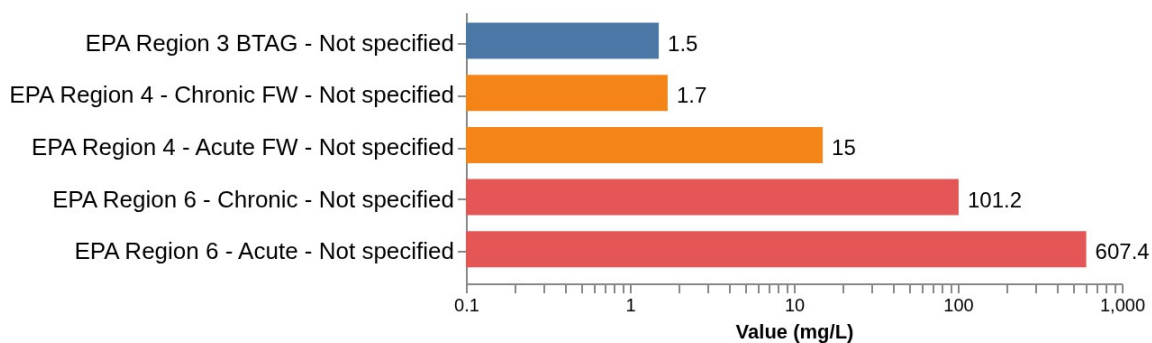


Table 15: Benchmark Values for Acetonitrile, 4-tert-Butylphenyl- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
3288-99-1	OPP	Freshwater Fish Acute	Not specified	3.545
3288-99-1	OPP	Freshwater Invertebrates Acute	Not specified	5.260

Benchmark Values for Acetonitrile, 4-tert-Butylphenyl- in Surface Water (Fresh Water)

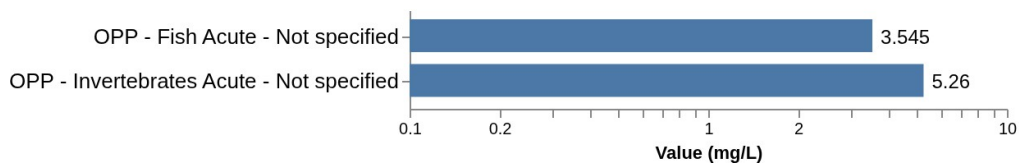


Table 16: Benchmark Values for Acetonitrile in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-05-8	EPA Region 3	BTAG – Freshwater	Not specified	12
75-05-8	EPA Region 4	Chronic Freshwater	Not specified	12
75-05-8	EPA Region 4	Acute Freshwater	Not specified	100

Benchmark Values for Acetonitrile in Surface Water (Fresh Water)

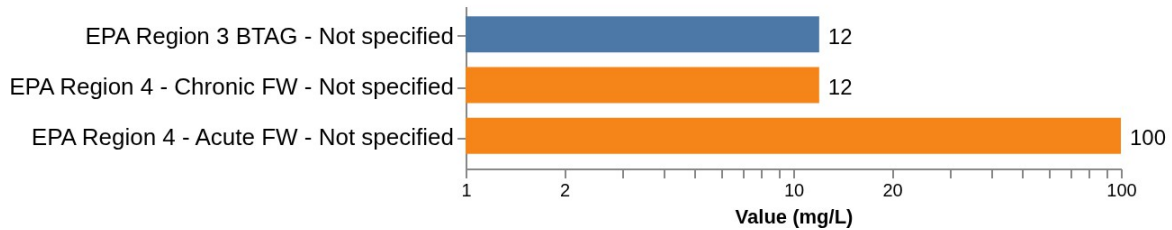


Table 17: Benchmark Values for Acibenzolar-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
135158-54-2	OPP	Freshwater Fish Chronic	Not specified	0.026	
135158-54-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.048	
135158-54-2	OPP	Freshwater Vascular Plant	Not specified	0.423	22
135158-54-2	OPP	Freshwater Fish Acute	Not specified	0.440	
135158-54-2	OPP	Freshwater Nonvascular Plant	Not specified	0.445	
135158-54-2	OPP	Freshwater Invertebrates Acute	Not specified	1.450	

Benchmark Values for Acibenzolar-methyl in Surface Water (Fresh Water)

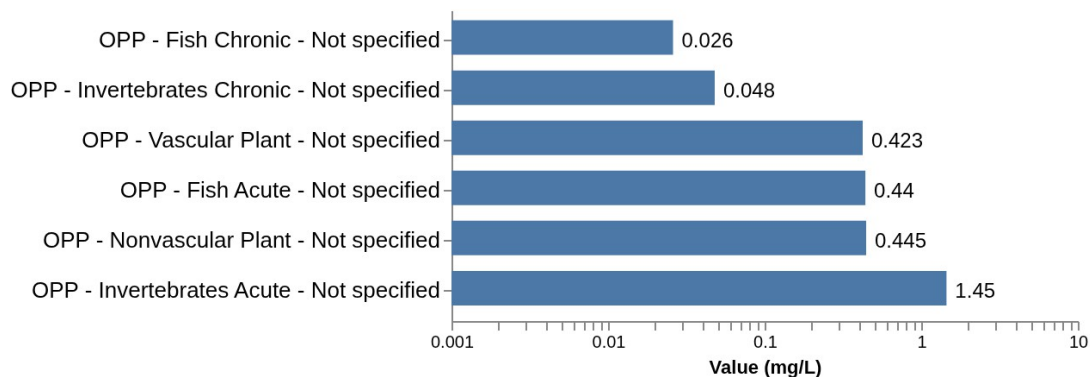


Table 18: Benchmark Values for Acridine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
260-94-6	British Columbia	Freshwater LTC	Not specified	0.0030	120
260-94-6	Canada	Freshwater Long Term	Not specified	0.0044	

Benchmark Values for Acridine in Surface Water (Fresh Water)

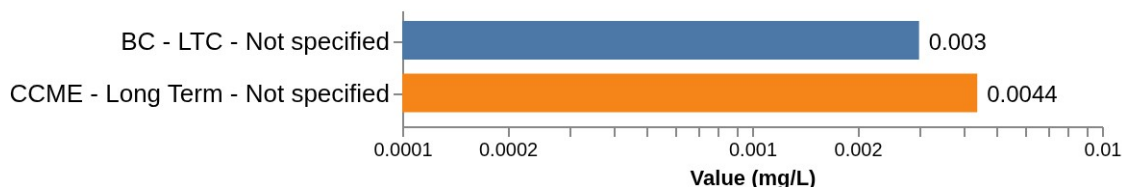


Table 19: Benchmark Values for Acrolein in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-02-8	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.00001	83
107-02-8	California	Freshwater CMC, 1-hour average	Not specified	0.00300	
107-02-8	California	Freshwater CCC, 4-day average	Not specified	0.00300	
107-02-8	California	Freshwater chronic toxicity	Not specified	0.02100	
107-02-8	California	Freshwater acute toxicity	Not specified	0.06800	
107-02-8	Delaware	Freshwater Chronic Criterion	Not specified	0.00300	
107-02-8	Delaware	Freshwater Acute Criterion	Not specified	0.00300	
107-02-8	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00300	
107-02-8	EPA NRWQC	Freshwater CMC Acute	Not specified	0.00300	
107-02-8	EPA Region 4	Acute Freshwater	Not specified	0.00300	
107-02-8	EPA Region 4	Chronic Freshwater	Not specified	0.00300	
107-02-8	EPA Region 6	Freshwater Acute	Not specified	0.00300	
107-02-8	EPA Region 6	Freshwater Chronic	Not specified	0.00300	
107-02-8	OPP	Freshwater Acute	Not specified	0.00300	
107-02-8	OPP	Freshwater Chronic	Not specified	0.00300	
107-02-8	OPP	Freshwater Fish Acute	Not specified	0.00700	
107-02-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00710	
107-02-8	OPP	Freshwater Fish Chronic	Not specified	0.01140	
107-02-8	OPP	Freshwater Invertebrates Acute	Not specified	0.01550	23
107-02-8	OPP	Freshwater Nonvascular Plant	Not specified	0.02800	
107-02-8	OPP	Freshwater Vascular Plant	Not specified	0.07200	

Benchmark Values for Acrolein in Surface Water (Fresh Water)

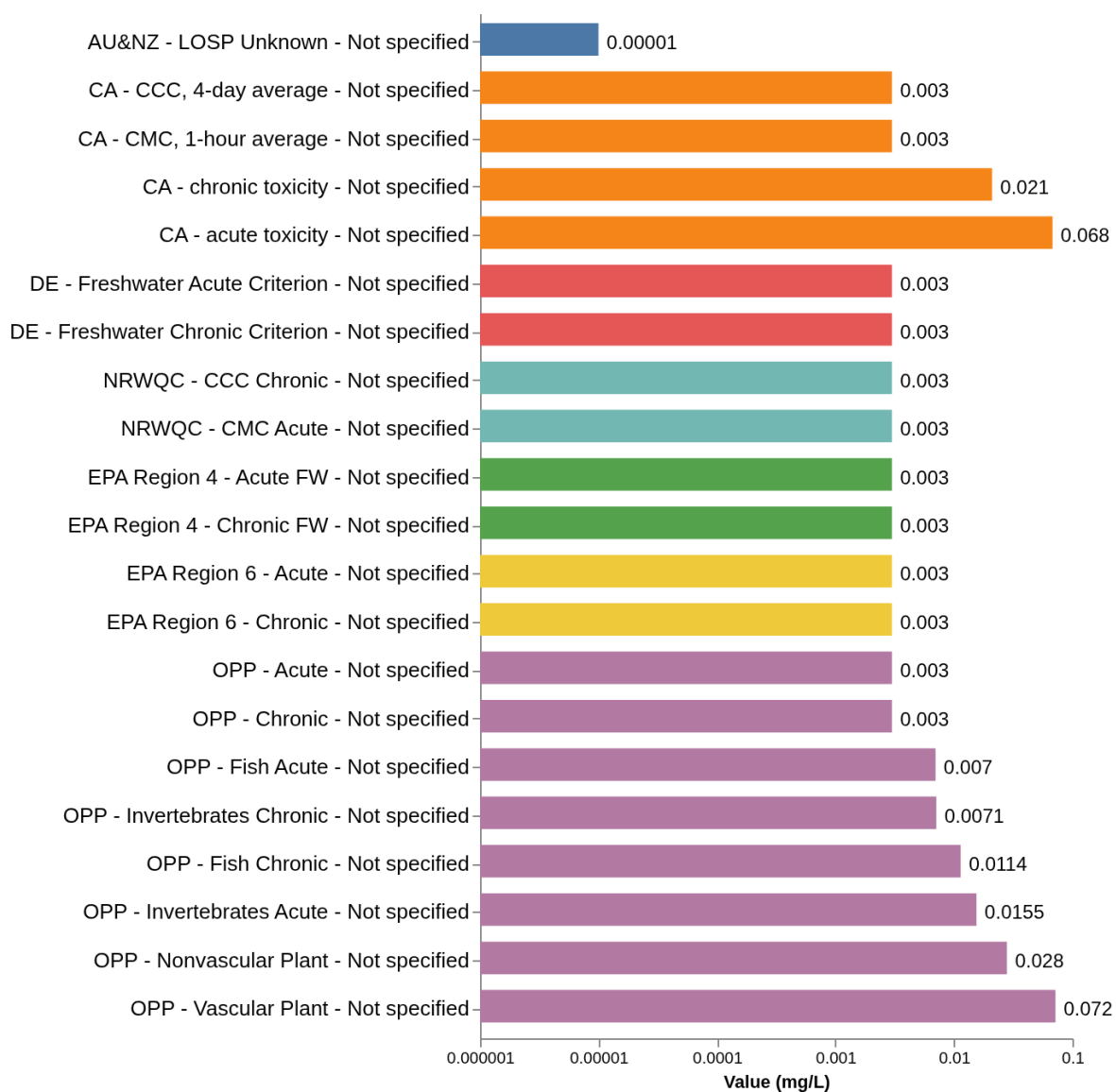


Table 20: Benchmark Values for Acrylonitrile in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
107-13-1	California	Freshwater other toxicity	Not specified	2.600
107-13-1	California	Freshwater acute toxicity	Not specified	7.550
107-13-1	EPA Region 4	Chronic Freshwater	Not specified	0.078
107-13-1	EPA Region 4	Acute Freshwater	Not specified	0.650
107-13-1	EPA Region 6	Freshwater Chronic	Not specified	0.920
107-13-1	EPA Region 6	Freshwater Acute	Not specified	2.760

Benchmark Values for Acrylonitrile in Surface Water (Fresh Water)

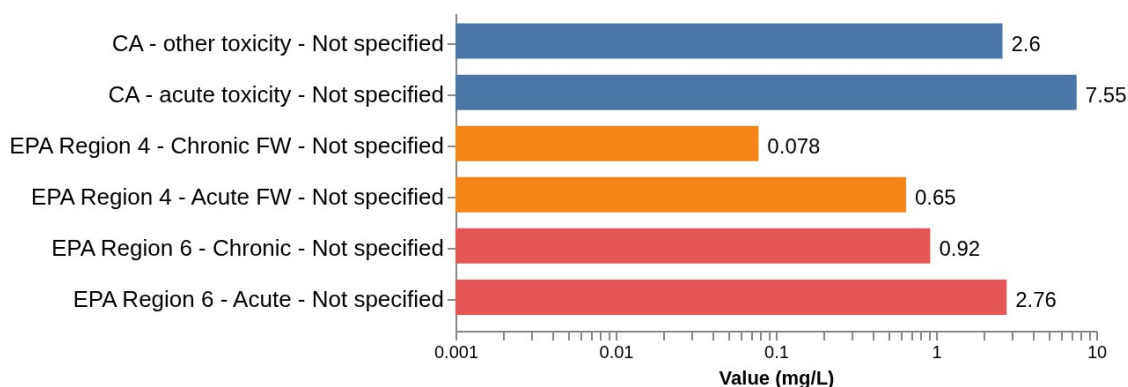


Table 21: Benchmark Values for Afidopyropen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
915972-17-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.000123
915972-17-7	OPP	Freshwater Fish Chronic	Not specified	0.300000
915972-17-7	OPP	Freshwater Nonvascular Plant	Not specified	2.040000
915972-17-7	OPP	Freshwater Invertebrates Acute	Not specified	4.450000
915972-17-7	OPP	Freshwater Fish Acute	Not specified	8.590000
915972-17-7	OPP	Freshwater Vascular Plant	Not specified	8.740000

Benchmark Values for Afidopyropen in Surface Water (Fresh Water)

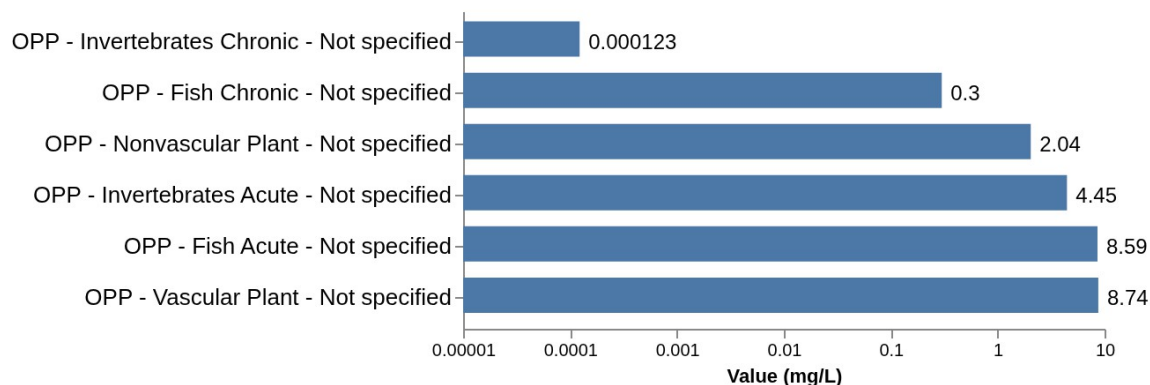
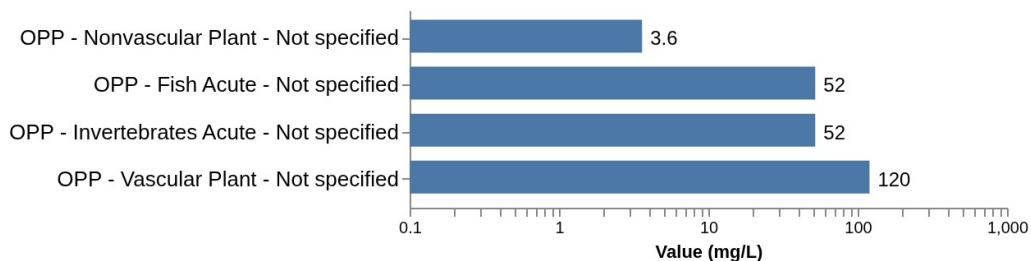


Table 22: Benchmark Values for Alachlor ethane sulfonic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
142363-53-9	OPP	Freshwater Nonvascular Plant	Not specified	3.6	
142363-53-9	OPP	Freshwater Invertebrates Acute	Not specified	52.0	22
142363-53-9	OPP	Freshwater Fish Acute	Not specified	52.0	22
142363-53-9	OPP	Freshwater Vascular Plant	Not specified	120.0	22

Benchmark Values for Alachlor ethane sulfonic acid in Surface Water (Fresh Water)**Table 23: Benchmark Values for Alachlor oxanilic acid in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
171262-17-2	OPP	Freshwater Invertebrates Acute	Not specified	47.5	22
171262-17-2	OPP	Freshwater Fish Acute	Not specified	50.0	22

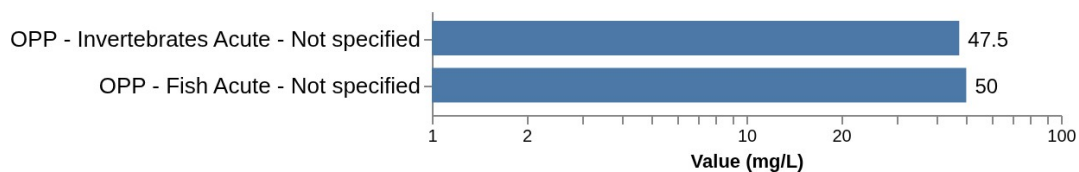
Benchmark Values for Alachlor oxanilic acid in Surface Water (Fresh Water)

Table 24: Benchmark Values for Alachlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
15972-60-8	California	Freshwater instantaneous max	Not specified	0.07600
15972-60-8	OPP	Freshwater Nonvascular Plant	Not specified	0.00164
15972-60-8	OPP	Freshwater Vascular Plant	Not specified	0.00230
15972-60-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.11000
15972-60-8	OPP	Freshwater Fish Chronic	Not specified	0.18700
15972-60-8	OPP	Freshwater Fish Acute	Not specified	0.90000
15972-60-8	OPP	Freshwater Invertebrates Acute	Not specified	1.25000

Benchmark Values for Alachlor in Surface Water (Fresh Water)

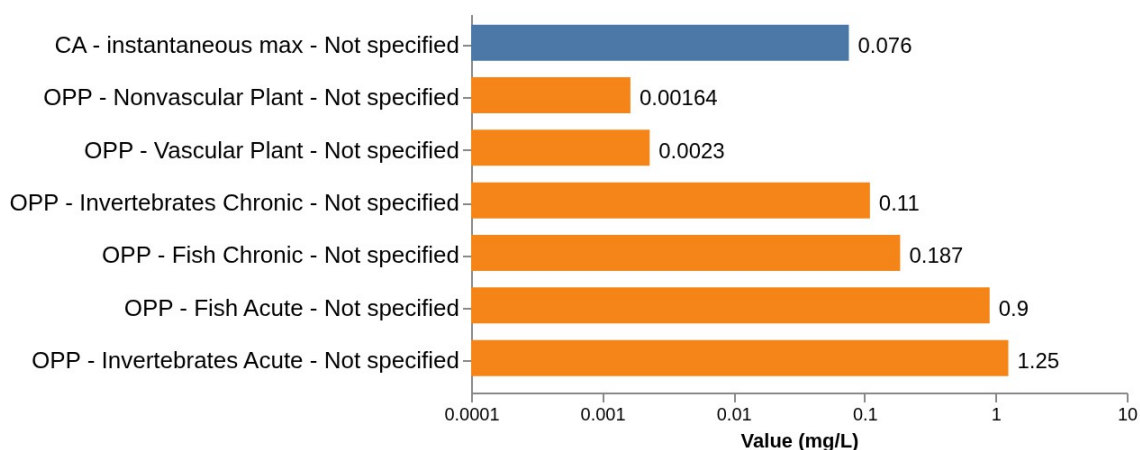


Table 25: Benchmark Values for Alcohol ethoxylated sulfate (AES) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68585-34-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.34	87
68585-34-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.65	87, 89
68585-34-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.85	87, 94
68585-34-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.10	87, 94

Benchmark Values for Alcohol ethoxylated sulfate (AES) in Surface Water (Fresh Water)

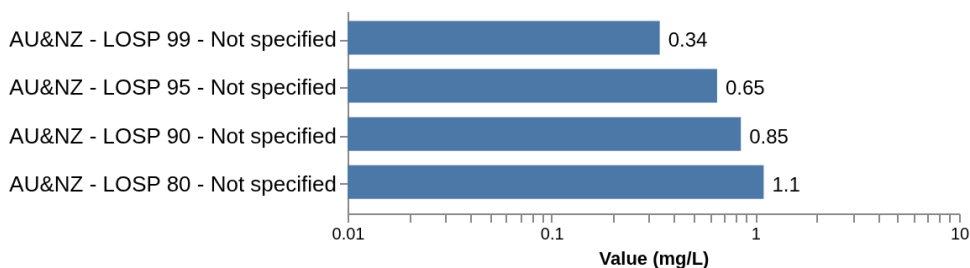


Table 26: Benchmark Values for Alcohol ethoxylated surfacants (AE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-02-0	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.05	88
000000-02-0	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.14	88, 89
000000-02-0	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.22	88
000000-02-0	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.36	88, 94

Benchmark Values for Alcohol ethoxylated surfacants (AE) in Surface Water (Fresh Water)

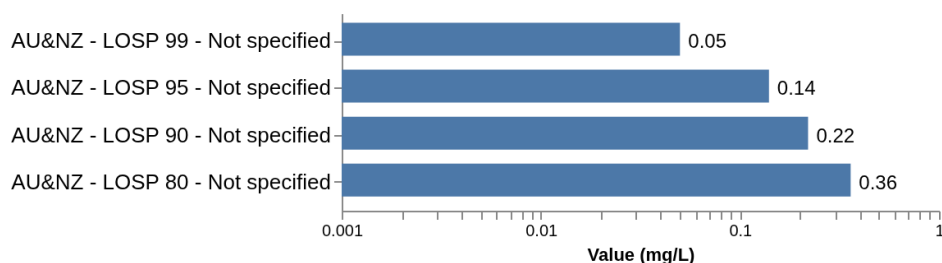


Table 27: Benchmark Values for Aldicarb Sulfone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1646-88-4	OPP	Freshwater Invertebrates Acute	Not specified	0.14
1646-88-4	OPP	Freshwater Fish Acute	Not specified	21.00

Benchmark Values for Aldicarb Sulfone in Surface Water (Fresh Water)

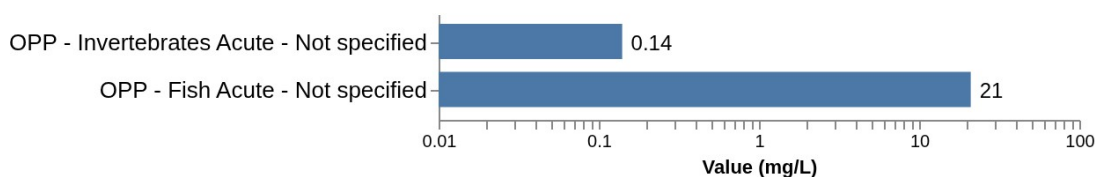


Table 28: Benchmark Values for Aldicarb sulfoxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1646-87-3	OPP	Freshwater Invertebrates Acute	Not specified	0.0215
1646-87-3	OPP	Freshwater Fish Acute	Not specified	3.5700

Benchmark Values for Aldicarb sulfoxide in Surface Water (Fresh Water)

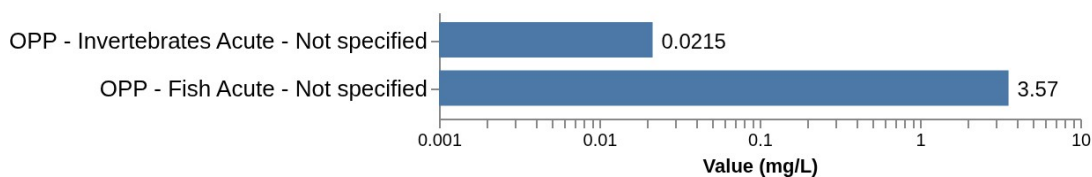


Table 29: Benchmark Values for Aldicarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
116-06-3	Canada	Freshwater Long Term	Not specified	0.00100	
116-06-3	OPP	Freshwater Fish Chronic	Not specified	0.00046	
116-06-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.00100	
116-06-3	OPP	Freshwater Invertebrates Acute	Not specified	0.01000	
116-06-3	OPP	Freshwater Fish Acute	Not specified	0.02600	
116-06-3	OPP	Freshwater Nonvascular Plant	Not specified	50.00000	22
116-06-3	OPP	Freshwater Vascular Plant	Not specified	88.70000	22

Benchmark Values for Aldicarb in Surface Water (Fresh Water)

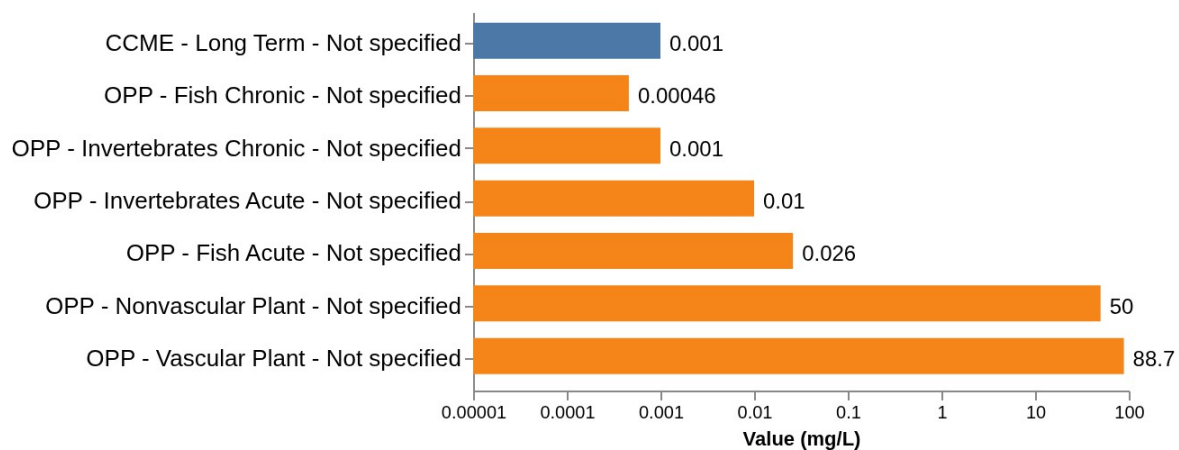


Table 30: Benchmark Values for Aldrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
309-00-2	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	1.000000e-06	83, 101
309-00-2	California	Freshwater instantaneous max	Not specified	3.000000e-03	
309-00-2	California	Freshwater instantaneous maximum	Not specified	3.000000e-03	
309-00-2	Delaware	Freshwater Acute Criterion	Not specified	3.000000e-03	
309-00-2	EPA NRWQC	Freshwater CMC Acute	Not specified	3.000000e-03	
309-00-2	EPA Region 3	BTAG – Freshwater	Not specified	3.000000e-03	
309-00-2	EPA Region 4	Chronic Freshwater	Not specified	4.000000e-05	7
309-00-2	EPA Region 4	Acute Freshwater	Not specified	3.000000e-03	7
309-00-2	EPA Region 6	Freshwater Chronic	Not specified	3.000000e-04	
309-00-2	EPA Region 6	Freshwater Acute	Not specified	3.000000e-03	
309-00-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	1.400000e-07	
309-00-2	New Jersey	Freshwater Acute	Not specified	3.000000e-03	

Benchmark Values for Aldrin in Surface Water (Fresh Water)

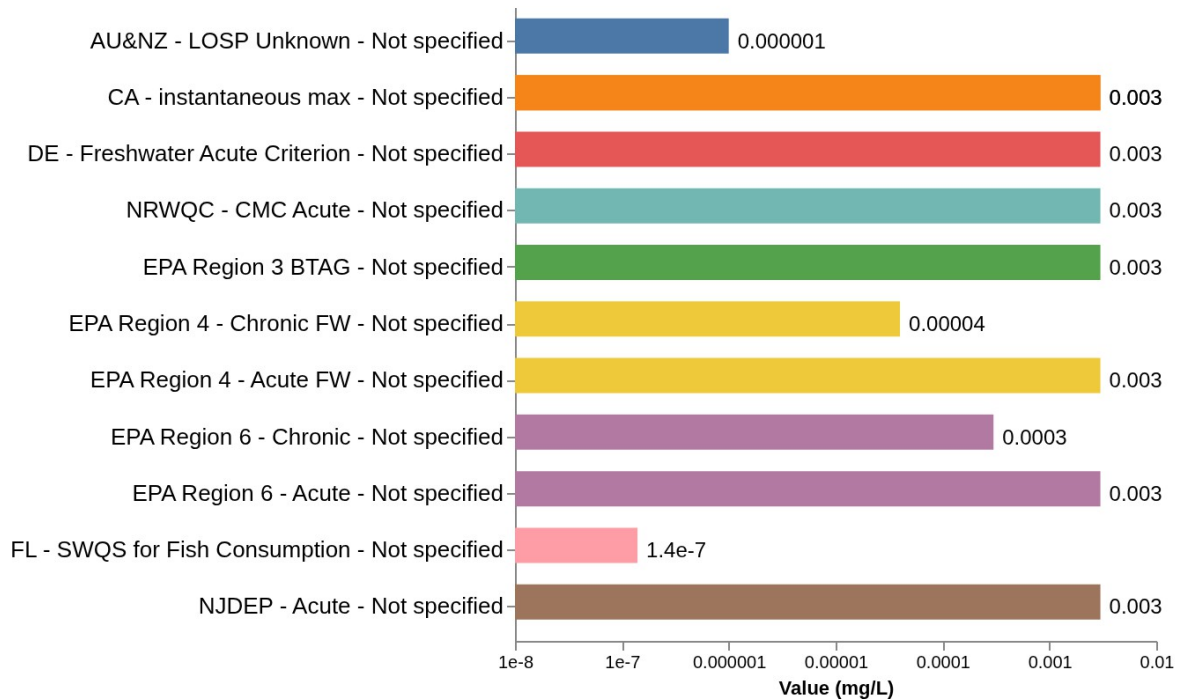


Table 31: Benchmark Values for Aliphatic esters in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67762-39-4	OPP	Freshwater Invertebrates Acute	Not specified	0.85	
67762-39-4	OPP	Freshwater Fish Acute	Not specified	4.75	

Benchmark Values for Aliphatic esters in Surface Water (Fresh Water)

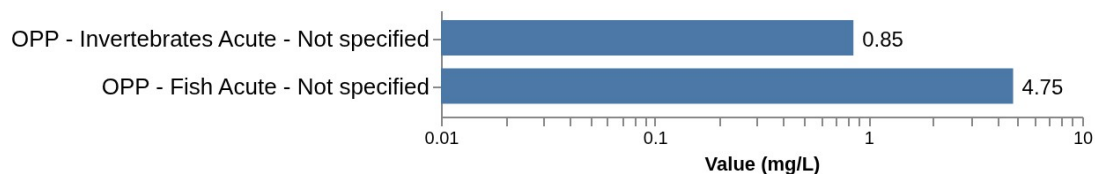


Table 32: Benchmark Values for Aliphatic Oils- 100 Paraffine Oil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
64742-54-7	OPP	Freshwater Invertebrates Acute	Not specified	0.205	
64742-54-7	OPP	Freshwater Fish Acute	Not specified	50.000	22

Benchmark Values for Aliphatic Oils- 100 Paraffine Oil in Surface Water (Fresh Water)

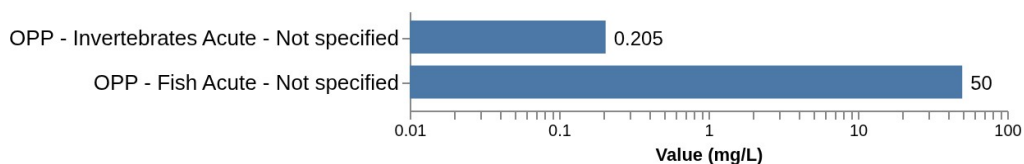


Table 33: Benchmark Values for Aliphatic Oils- 70 Orchard Spray in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
64742-55-8	OPP	Freshwater Invertebrates Acute	Not specified	1.2

Benchmark Values for Aliphatic Oils- 70 Orchard Spray in Surface Water (Fresh Water)

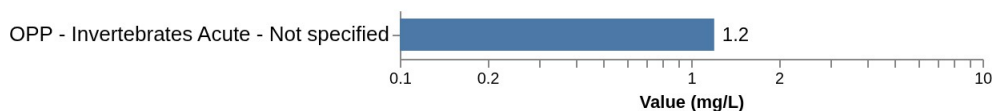


Table 34: Benchmark Values for Aliphatic Oils– GB–1111 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–33–3	OPP	Freshwater Invertebrates Acute	Not specified	0.05	
000000–33–3	OPP	Freshwater Fish Acute	Not specified	60.00	22

Benchmark Values for Aliphatic Oils- GB-1111 in Surface Water (Fresh Water)

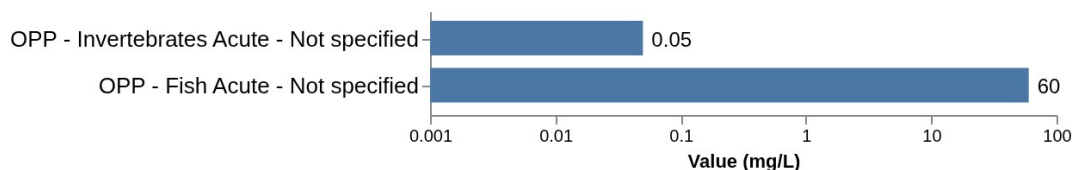


Table 35: Benchmark Values for Aliphatic Oils– N65DW in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–33–4	OPP	Freshwater Fish Acute	Not specified	250000	22

Benchmark Values for Aliphatic Oils- N65DW in Surface Water (Fresh Water)

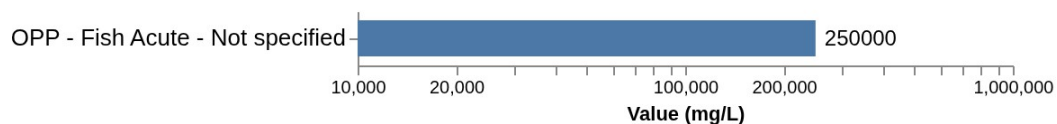


Table 36: Benchmark Values for Aliphatic Oils– VHVI–4 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–33–5	OPP	Freshwater Invertebrates Acute	Not specified	0.45	23
000000–33–5	OPP	Freshwater Fish Acute	Not specified	38.00	22

Benchmark Values for Aliphatic Oils- VHVI-4 in Surface Water (Fresh Water)

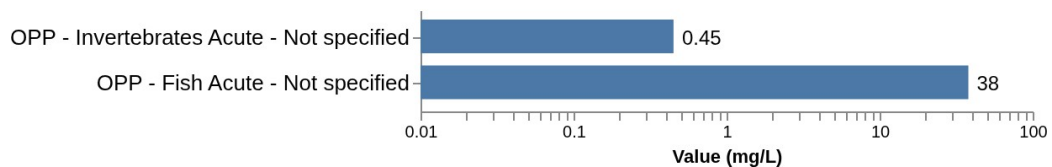


Table 37: Benchmark Values for Allethrin, d- (Pynamin Forte) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
584-79-2	OPP	Freshwater Invertebrates Acute	Not specified	0.00105
584-79-2	OPP	Freshwater Fish Acute	Not specified	0.00390

Benchmark Values for Allethrin, d- (Pynamin Forte) in Surface Water (Fresh Water)

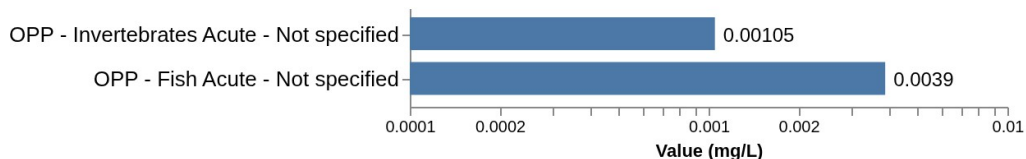


Table 38: Benchmark Values for Allyl Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-05-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.003	83

Benchmark Values for Allyl Chloride in Surface Water (Fresh Water)

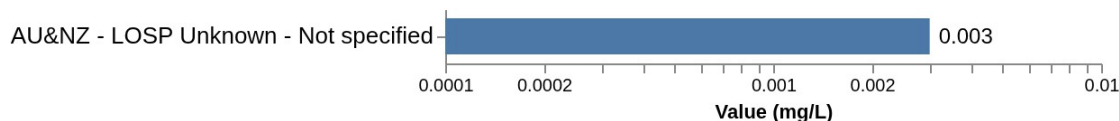


Table 39: Benchmark Values for Alpha-Chlorohydrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
96-24-2	OPP	Freshwater Invertebrates Acute	Not specified	486.0
96-24-2	OPP	Freshwater Fish Acute	Not specified	2103.5

Benchmark Values for Alpha-Chlorohydrin in Surface Water (Fresh Water)

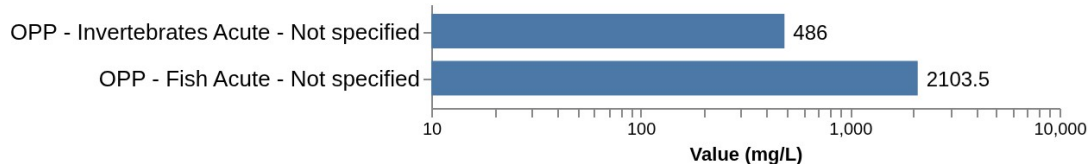


Table 40: Benchmark Values for Alpha-cypermethrin degradate (3-phenoxybenzoic acid) 3-phenoxybenzoic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-33-6	OPP	Freshwater Fish Acute	Not specified	6.65
000000-33-6	OPP	Freshwater Invertebrates Acute	Not specified	44.50

Benchmark Values for Alpha-cypermethrin degradate (3-phenoxybenzoic acid) 3-phenoxybenzoic acid in Surface Water (Fresh Water)

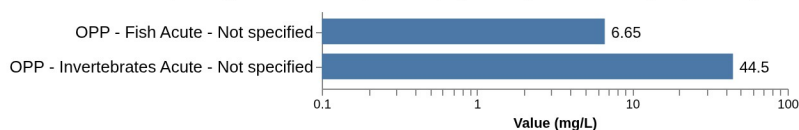


Table 41: Benchmark Values for Aluminum in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7429-90-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.027	81, 87
7429-90-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.055	81, 87, 89
7429-90-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.08	81, 87
7429-90-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.15	81, 87
7429-90-5	British Columbia	Freshwater LTC	Not specified		121
7429-90-5	California	Freshwater CCC, 4-day average	Not specified	0.087	218, 227
7429-90-5	California	Freshwater CMC, 1-hour average	Not specified	0.75	218, 227
7429-90-5	Canada	Freshwater Long Term	Not specified		57
7429-90-5	Delaware	Freshwater Chronic Criterion	Not specified	0.087	235
7429-90-5	Delaware	Freshwater Acute Criterion	Not specified	0.75	235
7429-90-5	EPA Region 3	BTAG – Freshwater	Not specified	0.087	
7429-90-5	EPA Region 4	Chronic Freshwater	Not specified	0.087	
7429-90-5	EPA Region 4	Acute Freshwater	Not specified	0.75	
7429-90-5	EPA Region 6	Freshwater Chronic	Not specified	0.087	21
7429-90-5	EPA Region 6	Freshwater Acute	Not specified	0.99	21
7429-90-5	Florida	Freshwater Contaminant Cleanup	Not specified	0.013	

Benchmark Values for Aluminum in Surface Water (Fresh Water)

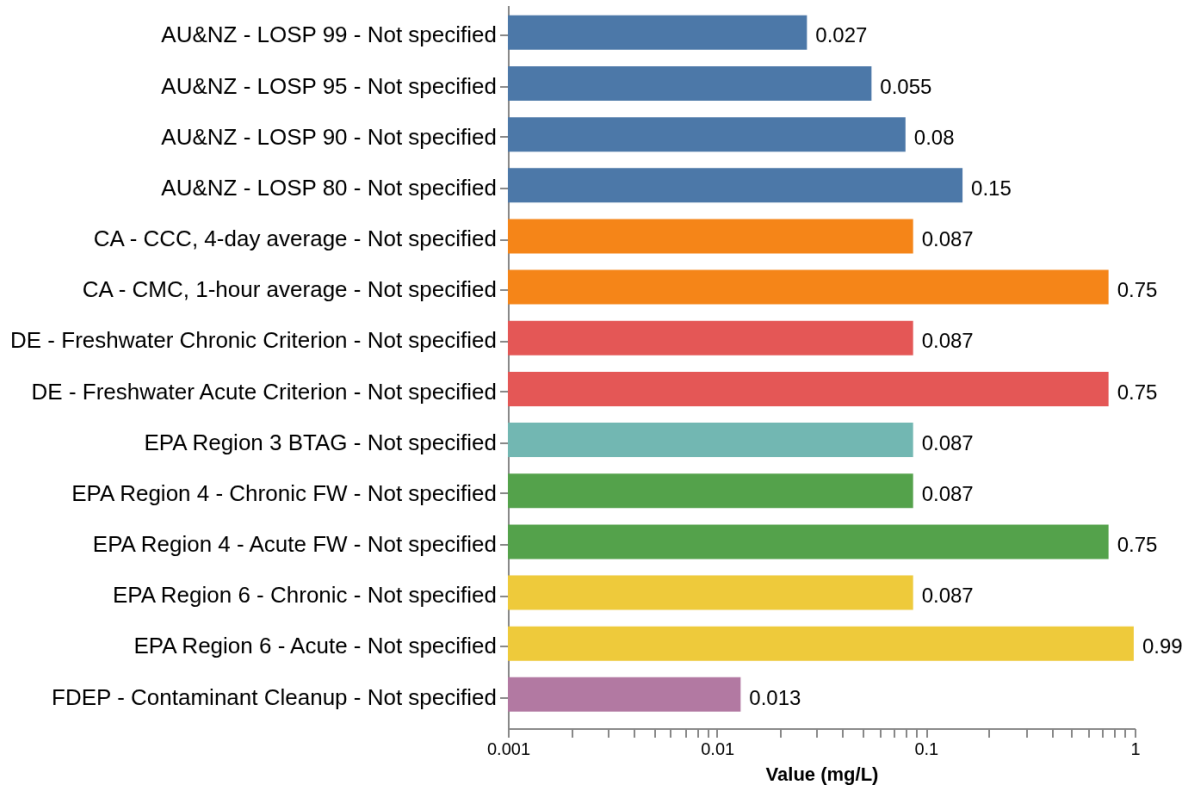


Table 42: Benchmark Values for Ametryn in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
834-12-8	OPP	Freshwater Nonvascular Plant	Not specified	0.00367
834-12-8	OPP	Freshwater Vascular Plant	Not specified	0.01300
834-12-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.24000
834-12-8	OPP	Freshwater Fish Chronic	Not specified	0.70000
834-12-8	OPP	Freshwater Fish Acute	Not specified	1.80000
834-12-8	OPP	Freshwater Invertebrates Acute	Not specified	14.00000

Benchmark Values for Ametryn in Surface Water (Fresh Water)

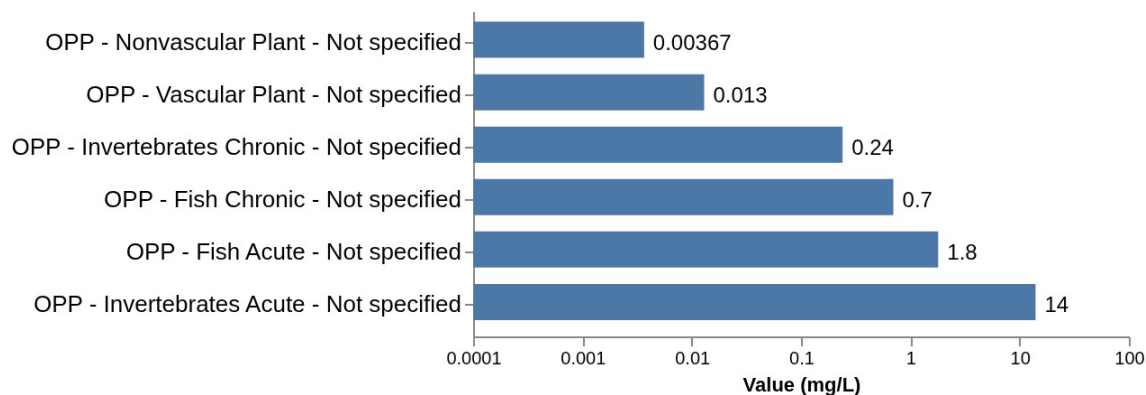


Table 43: Benchmark Values for Amicarbazone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129909-90-6	OPP	Freshwater Nonvascular Plant	Not specified	0.017	
129909-90-6	OPP	Freshwater Vascular Plant	Not specified	0.210	
129909-90-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.730	
129909-90-6	OPP	Freshwater Fish Chronic	Not specified	7.300	
129909-90-6	OPP	Freshwater Invertebrates Acute	Not specified	59.500	22
129909-90-6	OPP	Freshwater Fish Acute	Not specified	64.250	22

Benchmark Values for Amicarbazone in Surface Water (Fresh Water)

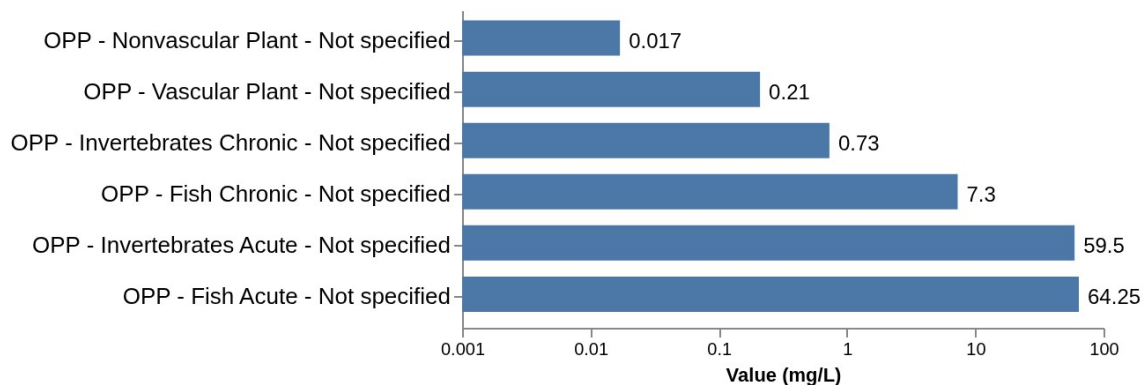


Table 44: Benchmark Values for Aminocyclopyrachlor ester in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-33-7	OPP	Freshwater Fish Acute	Not specified	6.50
000000-33-7	OPP	Freshwater Invertebrates Acute	Not specified	9.95

Benchmark Values for Aminocyclopyrachlor ester in Surface Water (Fresh Water)

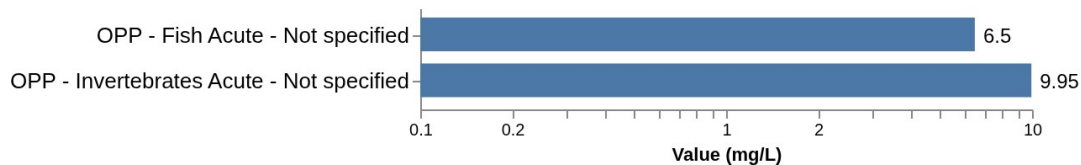


Table 45: Benchmark Values for Aminocyclopyrachlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
858956-08-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.37	23
858956-08-8	OPP	Freshwater Nonvascular Plant	Not specified	7.40	
858956-08-8	OPP	Freshwater Fish Chronic	Not specified	11.00	
858956-08-8	OPP	Freshwater Invertebrates Acute	Not specified	19.85	
858956-08-8	OPP	Freshwater Fish Acute	Not specified	60.00	22
858956-08-8	OPP	Freshwater Vascular Plant	Not specified	122.00	22

Benchmark Values for Aminocyclopyrachlor in Surface Water (Fresh Water)

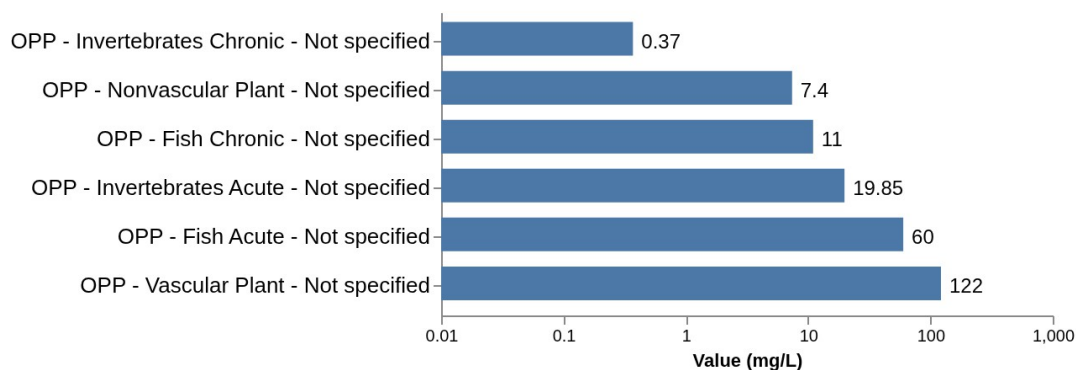


Table 46: Benchmark Values for Aminomethyl phosphoric acid (AMPA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1066-51-9	OPP	Freshwater Fish Acute	Not specified	249.5
1066-51-9	OPP	Freshwater Invertebrates Acute	Not specified	341.5

Benchmark Values for Aminomethyl phosphoric acid (AMPA) in Surface Water (Fresh Water)

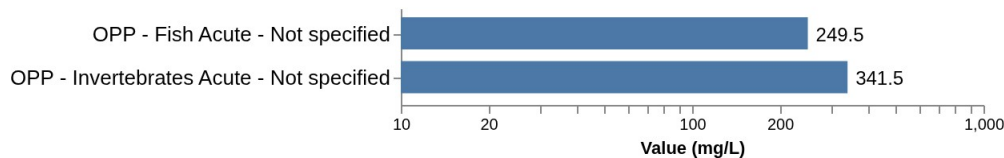


Table 47: Benchmark Values for Aminopyralid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
150114-71-9	OPP	Freshwater Fish Chronic	Not specified	1.36	
150114-71-9	OPP	Freshwater Invertebrates Acute	Not specified	7.50	
150114-71-9	OPP	Freshwater Nonvascular Plant	Not specified	18.00	
150114-71-9	OPP	Freshwater Fish Acute	Not specified	50.00	22
150114-71-9	OPP	Freshwater Vascular Plant	Not specified	88.00	22
150114-71-9	OPP	Freshwater Invertebrates Chronic	Not specified	102.00	

Benchmark Values for Aminopyralid in Surface Water (Fresh Water)

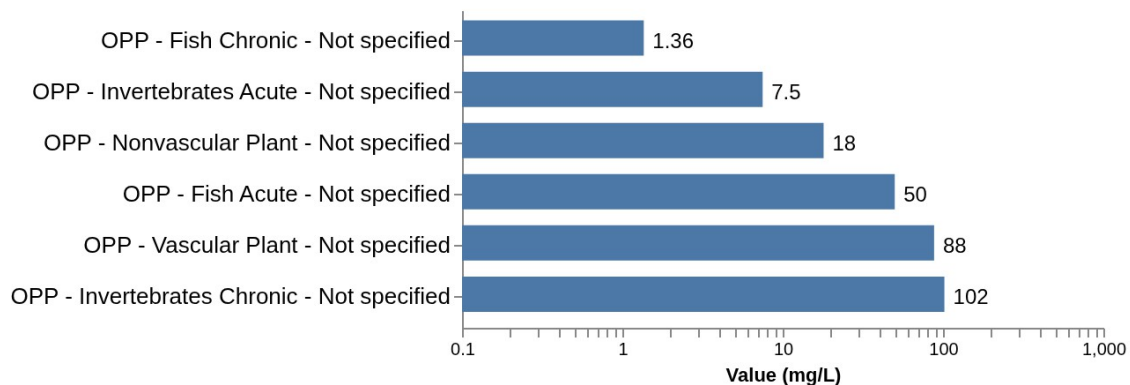


Table 48: Benchmark Values for Aminopyridine, 4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
504-24-5	OPP	Freshwater Invertebrates Acute	Not specified	0.185
504-24-5	OPP	Freshwater Fish Acute	Not specified	1.215

Benchmark Values for Aminopyridine, 4- in Surface Water (Fresh Water)

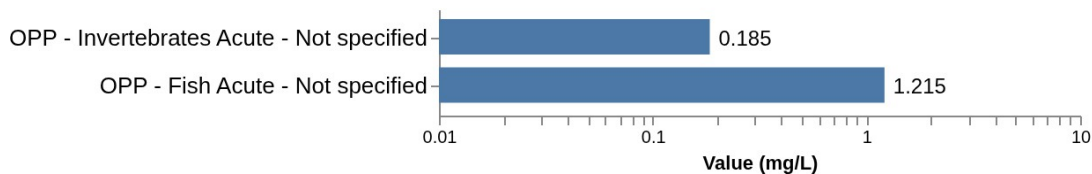


Table 49: Benchmark Values for Amitraz BTS 27271 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-33-8	OPP	Freshwater Invertebrates Acute	Not specified	1.295
000000-33-8	OPP	Freshwater Fish Acute	Not specified	14.200

Benchmark Values for Amitraz BTS 27271 in Surface Water (Fresh Water)

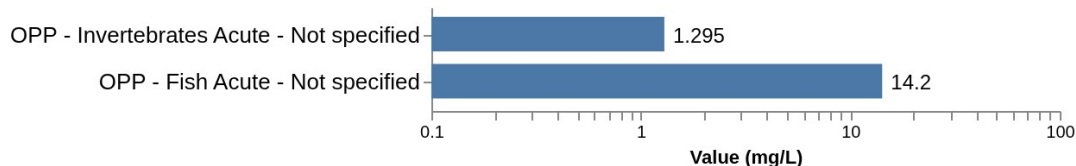


Table 50: Benchmark Values for Amitraz BTS 27919 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-33-9	OPP	Freshwater Fish Acute	Not specified	33.1	
000000-33-9	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22

Benchmark Values for Amitraz BTS 27919 in Surface Water (Fresh Water)

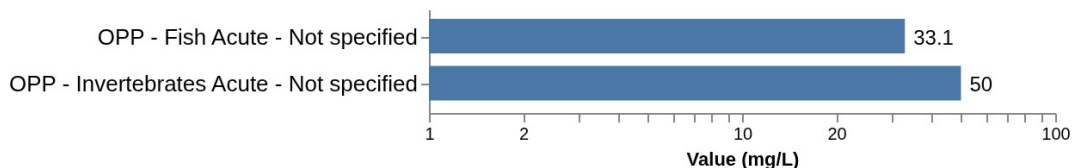


Table 51: Benchmark Values for Amitraz in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
33089-61-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.0011	
33089-61-1	OPP	Freshwater Fish Chronic	Not specified	0.0015	22
33089-61-1	OPP	Freshwater Invertebrates Acute	Not specified	0.0175	
33089-61-1	OPP	Freshwater Fish Acute	Not specified	0.1700	

Benchmark Values for Amitraz in Surface Water (Fresh Water)

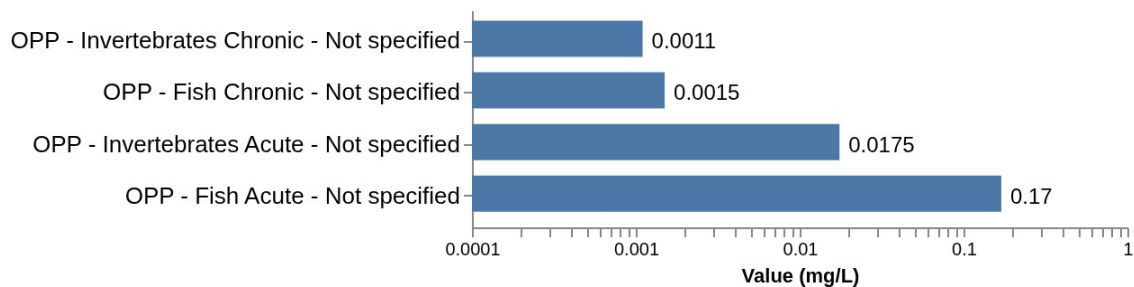


Table 52: Benchmark Values for Ammonia in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7664-41-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.32	85
7664-41-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.9	85, 90, 102
7664-41-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.43	85, 94, 102
7664-41-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.3	85, 92, 102
7664-41-7	British Columbia	Freshwater STA	Not specified	0.752	113
7664-41-7	British Columbia	Freshwater LTC	Not specified	1.22	122
7664-41-7	Canada	Freshwater Long Term	Not specified	0.019	
7664-41-7	Delaware	Freshwater Chronic Criterion	Not specified		240
7664-41-7	Delaware	Freshwater Acute Criterion	Not specified		239
7664-41-7	EPA Region 3	BTAG – Freshwater	Not specified	0.019	
7664-41-7	EPA Region 4	Chronic Freshwater	Not specified	0	4
7664-41-7	EPA Region 4	Acute Freshwater	Not specified	0	4
7664-41-7	EPA Region 6	Freshwater Chronic	Not specified	0.41	
7664-41-7	EPA Region 6	Freshwater Acute	Not specified	1.7	
7664-41-7	New Jersey	Freshwater Chronic Shellfish Harvesting Aline Estuary	Not specified	0.03	204
7664-41-7	New Jersey	Freshwater Chronic Trout Production and Trout Maintenance	Not specified	0.06964	204
7664-41-7	New Jersey	Freshwater Acute Trout Production and Trout Maintenance	Not specified	0.06964	204
7664-41-7	New Jersey	Freshwater Chronic Lakes, Ponds, and Reservoirs Summer Not Trout	Not specified	0.0817	204
7664-41-7	New Jersey	Freshwater Acute Lakes, Ponds, and Reservoirs Summer Not Trout	Not specified	0.0817	204
7664-41-7	New Jersey	Freshwater Chronic Lakes, Ponds, and Reservoirs Winter Not Trout	Not specified	0.09026	204
7664-41-7	New Jersey	Freshwater Acute Lakes, Ponds, and Reservoirs Winter Not Trout	Not specified	0.09026	204
7664-41-7	New Jersey	Freshwater Chronic Pinelands Waters	Not specified	0.09259	204
7664-41-7	New Jersey	Freshwater Acute Pinelands Waters	Not specified	0.09259	204
7664-41-7	New Jersey	Freshwater Chronic Saline Coastal General Waters	Not specified	0.094	204
7664-41-7	New Jersey	Freshwater Acute Saline Coastal General Waters	Not specified	0.094	204
7664-41-7	New Jersey	Freshwater Acute Shellfish Harvesting Aline Estuary	Not specified	0.115	204

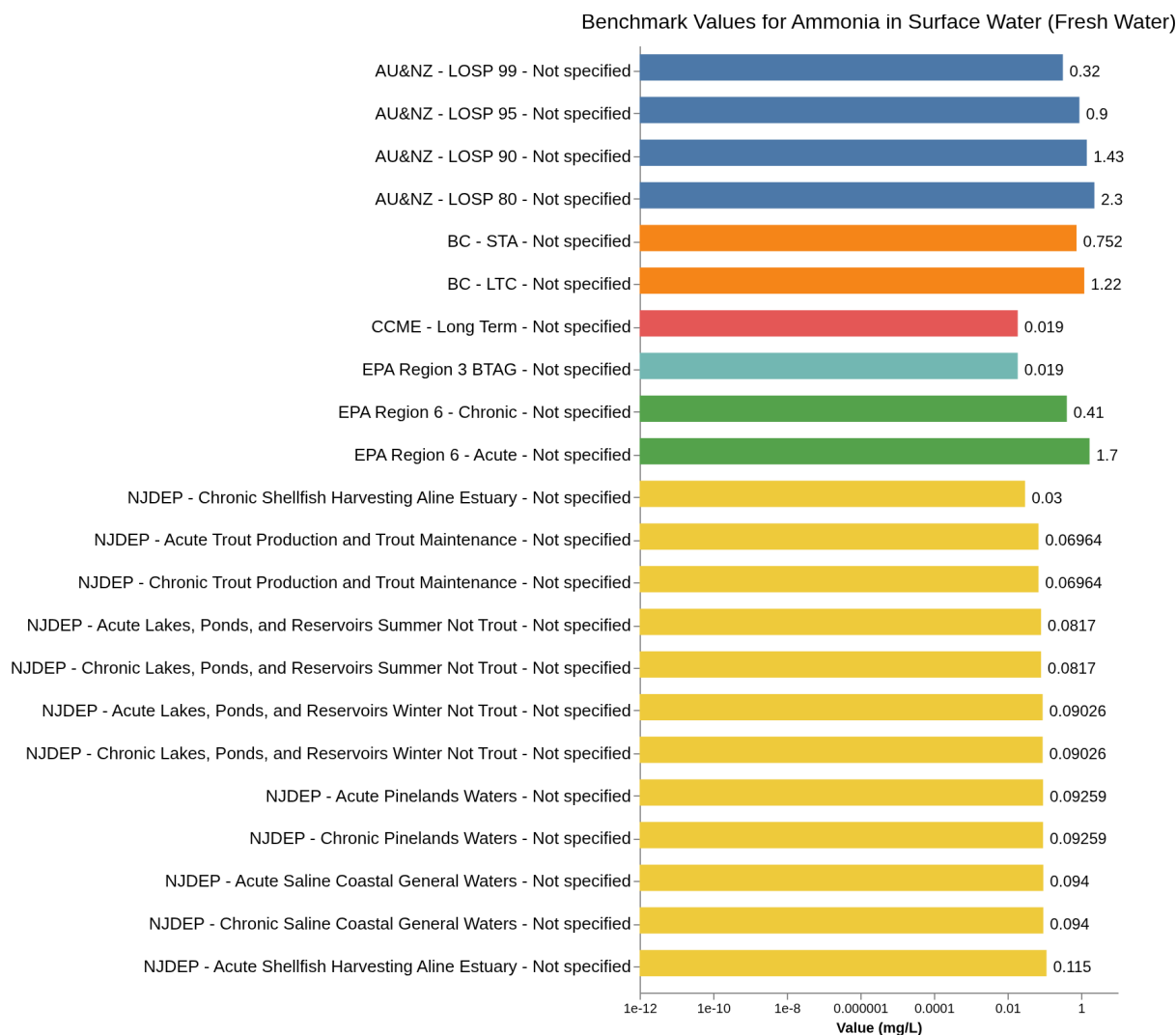


Table 53: Benchmark Values for Ammonium perfluorooctanoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3825-26-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.01	234
3825-26-1	EPA NRWQC	Freshwater CMC Acute	Not specified	3.10	

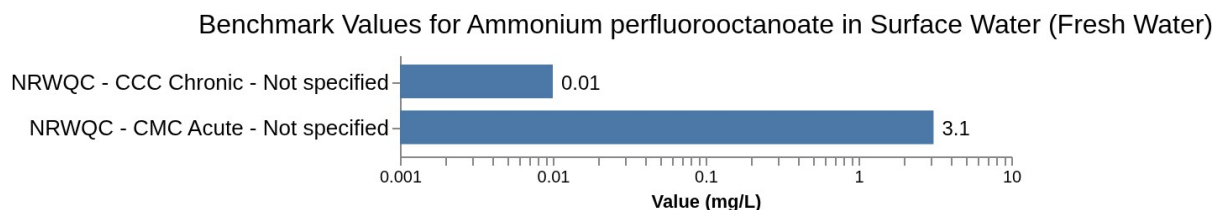
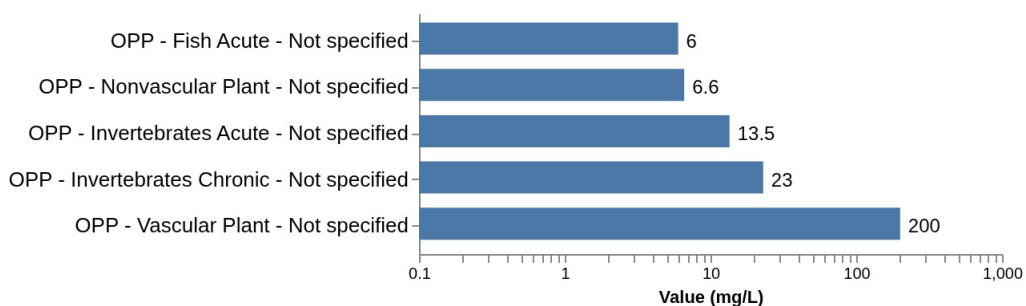


Table 54: Benchmark Values for Ammonium Salts of Fatty Acids in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-34-0	OPP	Freshwater Fish Acute	Not specified	6.0
000000-34-0	OPP	Freshwater Nonvascular Plant	Not specified	6.6
000000-34-0	OPP	Freshwater Invertebrates Acute	Not specified	13.5
000000-34-0	OPP	Freshwater Invertebrates Chronic	Not specified	23.0
000000-34-0	OPP	Freshwater Vascular Plant	Not specified	200.0

Benchmark Values for Ammonium Salts of Fatty Acids in Surface Water (Fresh Water)**Table 55: Benchmark Values for Ancymidol in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
12771-68-5	OPP	Freshwater Vascular Plant	Not specified	0.292	
12771-68-5	OPP	Freshwater Nonvascular Plant	Not specified	26.900	
12771-68-5	OPP	Freshwater Invertebrates Acute	Not specified	48.200	22
12771-68-5	OPP	Freshwater Fish Acute	Not specified	49.600	22

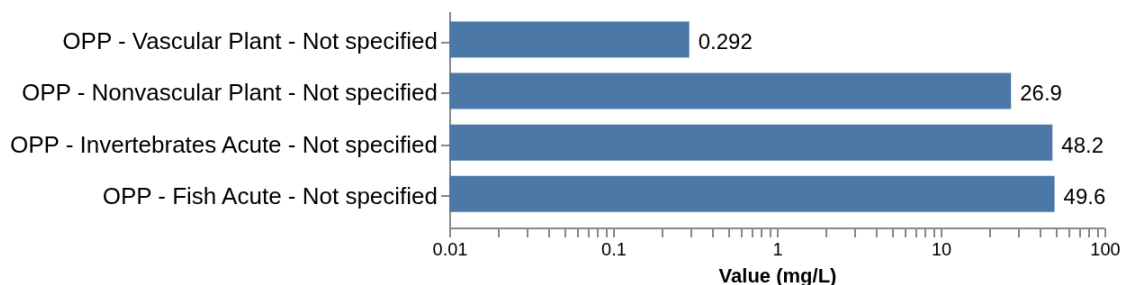
Benchmark Values for Ancymidol in Surface Water (Fresh Water)

Table 56: Benchmark Values for Aniline in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
62-53-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0080	88, 89
62-53-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.2500	88, 92
62-53-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.1000	88, 92
62-53-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	4.8000	88, 92
62-53-3	California	Freshwater CCC, 4-day average	Not specified	0.0140	
62-53-3	California	Freshwater CMC, 1-hour average	Not specified	0.0280	
62-53-3	Canada	Freshwater Long Term	Not specified	0.0022	
62-53-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0022	
62-53-3	EPA Region 4	Chronic Freshwater	Not specified	0.0041	
62-53-3	EPA Region 4	Acute Freshwater	Not specified	0.0300	

Benchmark Values for Aniline in Surface Water (Fresh Water)

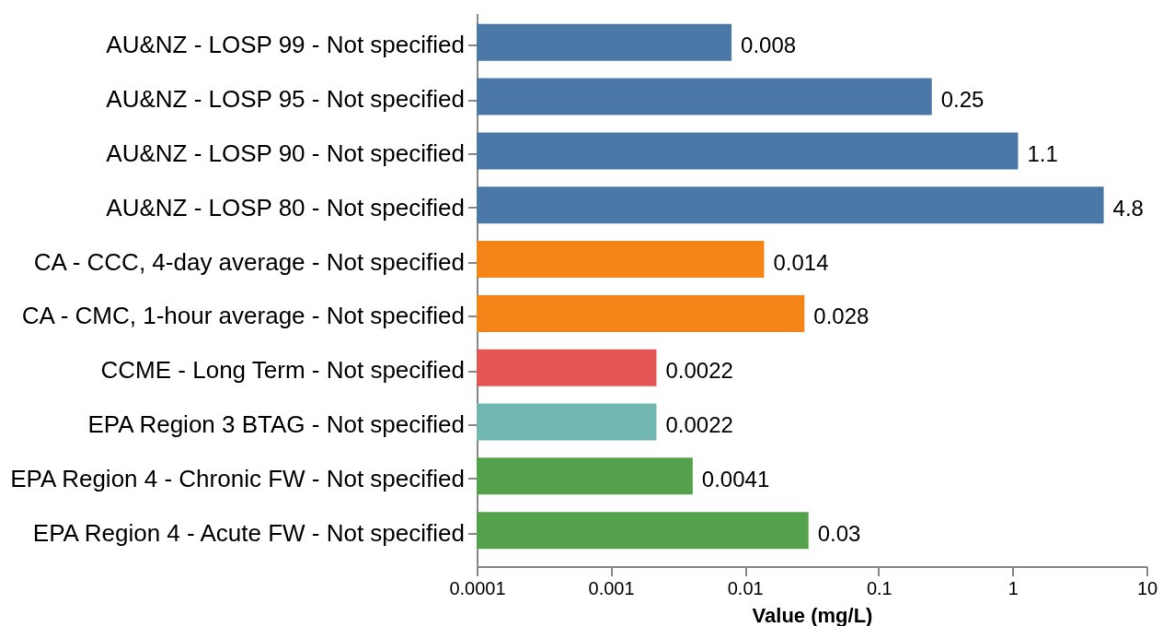


Table 57: Benchmark Values for Anthracene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-12-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000010	83, 89, 97
120-12-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000400	83, 97
120-12-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.001500	83, 97
120-12-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.007000	83, 97
120-12-7	British Columbia	Freshwater LTC	Not specified	0.004000	123
120-12-7	Canada	Freshwater Long Term	Not specified	0.000012	
120-12-7	EPA Region 3	BTAG – Freshwater	Not specified	0.000012	
120-12-7	EPA Region 4	Chronic Freshwater	Not specified	0.000020	
120-12-7	EPA Region 4	Acute Freshwater	Not specified	0.000180	
120-12-7	EPA Region 6	Freshwater Chronic	Not specified	0.000064	
120-12-7	EPA Region 6	Freshwater Acute	Not specified	0.001940	
120-12-7	Florida	SWQS for Fish Consumption Freshwater	Not specified	110.000000	

Benchmark Values for Anthracene in Surface Water (Fresh Water)

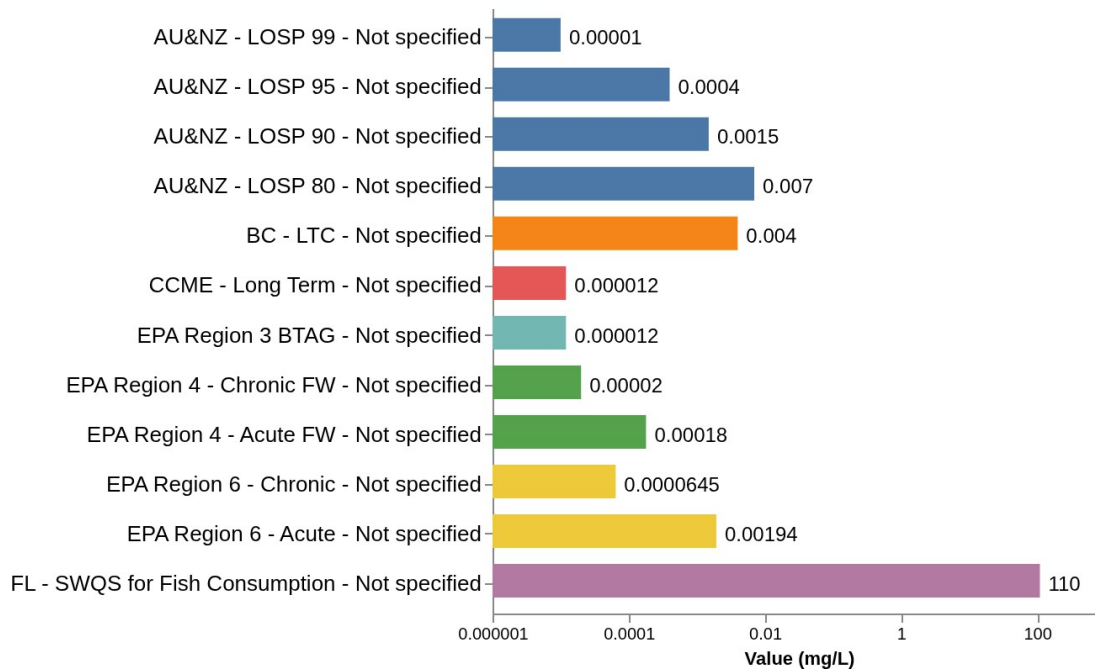


Table 58: Benchmark Values for Antimony (metallic) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-36-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.009	83
7440-36-0	British Columbia	Freshwater LTC	Not specified	0.074	
7440-36-0	British Columbia	Freshwater Maximum	Not specified	0.250	
7440-36-0	California	Freshwater other toxicity	Not specified	0.610	
7440-36-0	California	Freshwater chronic toxicity	Not specified	1.600	
7440-36-0	California	Freshwater acute toxicity	Not specified	9.000	
7440-36-0	EPA Region 3	BTAG – Freshwater	Not specified	0.030	
7440-36-0	EPA Region 4	Chronic Freshwater	Not specified	0.190	
7440-36-0	EPA Region 4	Acute Freshwater	Not specified	0.900	
7440-36-0	EPA Region 6	Freshwater Chronic	Not specified	2.200	
7440-36-0	EPA Region 6	Freshwater Acute	Not specified	6.600	
7440-36-0	Florida	SWQS for Fish Consumption Freshwater	Not specified	4.300	

Benchmark Values for Antimony (metallic) in Surface Water (Fresh Water)

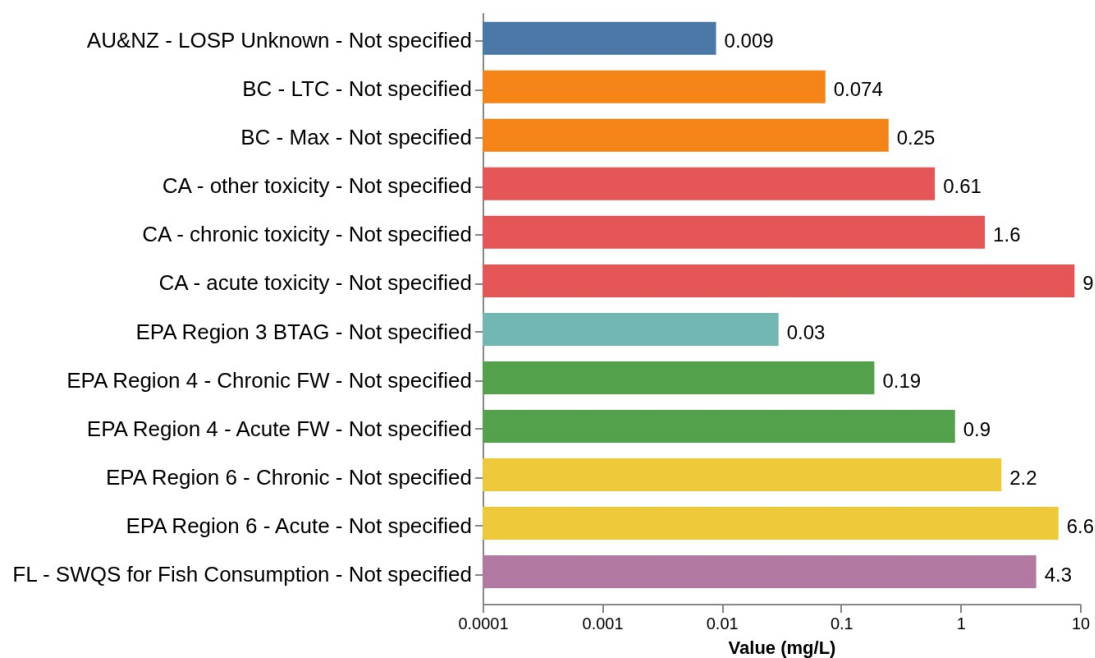


Table 59: Benchmark Values for Antimycin A in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1397-94-0	OPP	Freshwater Fish Acute	Not specified	5.000000e-07
1397-94-0	OPP	Freshwater Invertebrates Acute	Not specified	4.000000e-06

Benchmark Values for Antimycin A in Surface Water (Fresh Water)

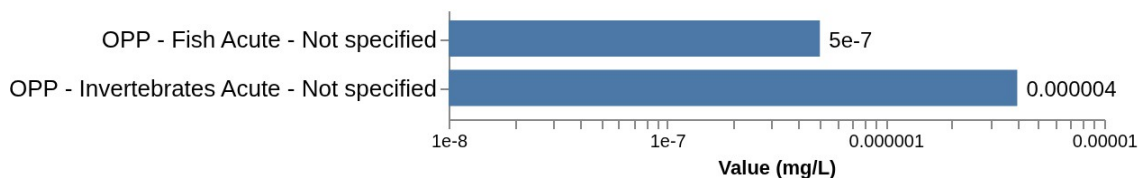


Table 60: Benchmark Values for Aroclor 1016 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
12674-11-2	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08

Benchmark Values for Aroclor 1016 in Surface Water (Fresh Water)

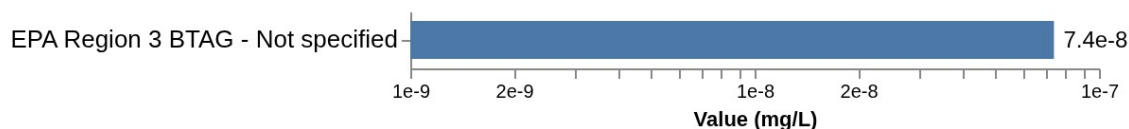


Table 61: Benchmark Values for Aroclor 1221 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
11104-28-2	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08

Benchmark Values for Aroclor 1221 in Surface Water (Fresh Water)

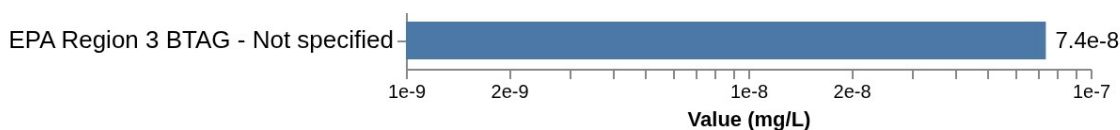


Table 62: Benchmark Values for Aroclor 1232 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
11141-16-5	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08

Benchmark Values for Aroclor 1232 in Surface Water (Fresh Water)

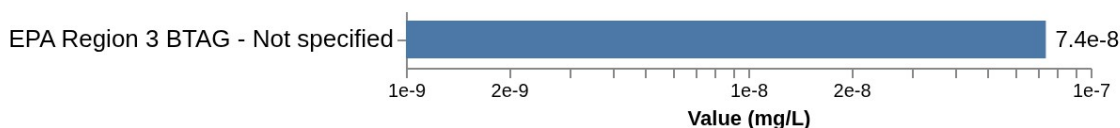


Table 63: Benchmark Values for Aroclor 1242 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53469-21-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	3.000000e-04	87, 89, 97
53469-21-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	6.000000e-04	87, 97
53469-21-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.000000e-03	87, 97
53469-21-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.700000e-03	87, 97
53469-21-9	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08	

Benchmark Values for Aroclor 1242 in Surface Water (Fresh Water)

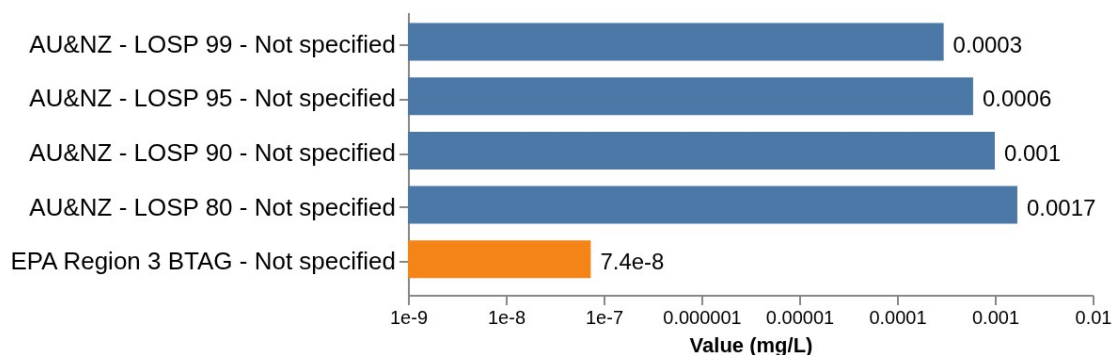


Table 64: Benchmark Values for Aroclor 1248 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
12672-29-6	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08

Benchmark Values for Aroclor 1248 in Surface Water (Fresh Water)

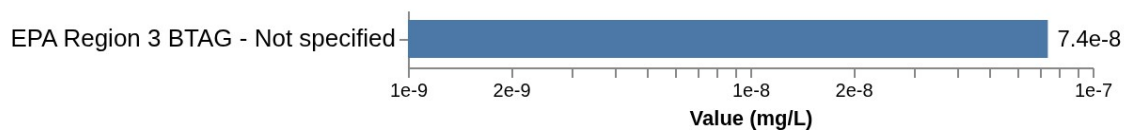


Table 65: Benchmark Values for Aroclor 1254 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11097-69-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	1.000000e-05	88, 89, 97
11097-69-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	3.000000e-05	88, 97
11097-69-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	7.000000e-05	88, 97
11097-69-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.000000e-04	88, 97
11097-69-1	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08	

Benchmark Values for Aroclor 1254 in Surface Water (Fresh Water)

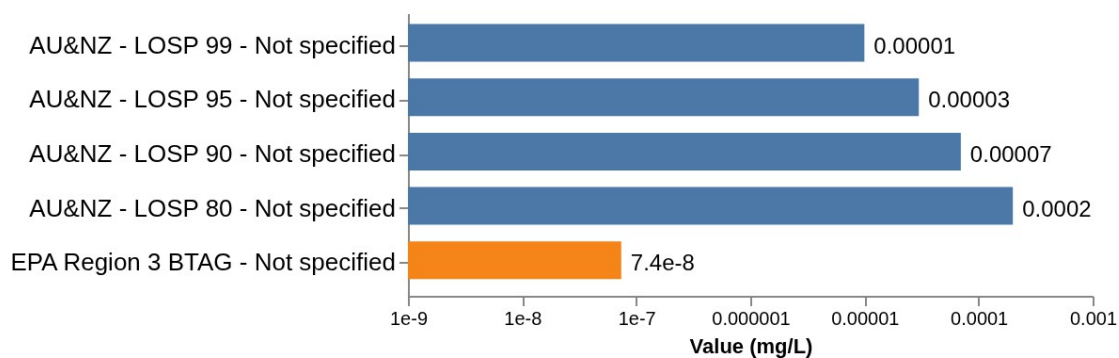


Table 66: Benchmark Values for Aroclor 1260 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
11096-82-5	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08

Benchmark Values for Aroclor 1260 in Surface Water (Fresh Water)

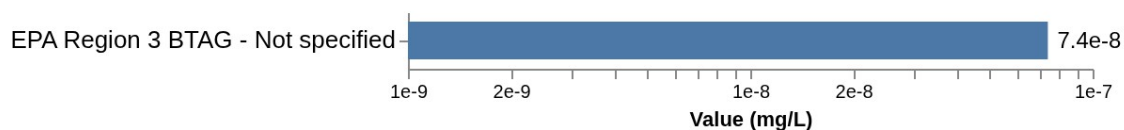


Table 67: Benchmark Values for Arsenic (III) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
22541-54-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.001	88
22541-54-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.024	88, 89
22541-54-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.094	88, 94
22541-54-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.360	88, 94
22541-54-4	Delaware	Freshwater Chronic Criterion	Not specified	0.150	236
22541-54-4	Delaware	Freshwater Acute Criterion	Not specified	0.340	236
22541-54-4	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.190	
22541-54-4	EPA Region 3	BTAG – Freshwater	Not specified	0.055	
22541-54-4	EPA Region 4	Chronic Freshwater	Not specified	0.148	1
22541-54-4	EPA Region 4	Acute Freshwater	Not specified	0.340	1

Benchmark Values for Arsenic (III) in Surface Water (Fresh Water)

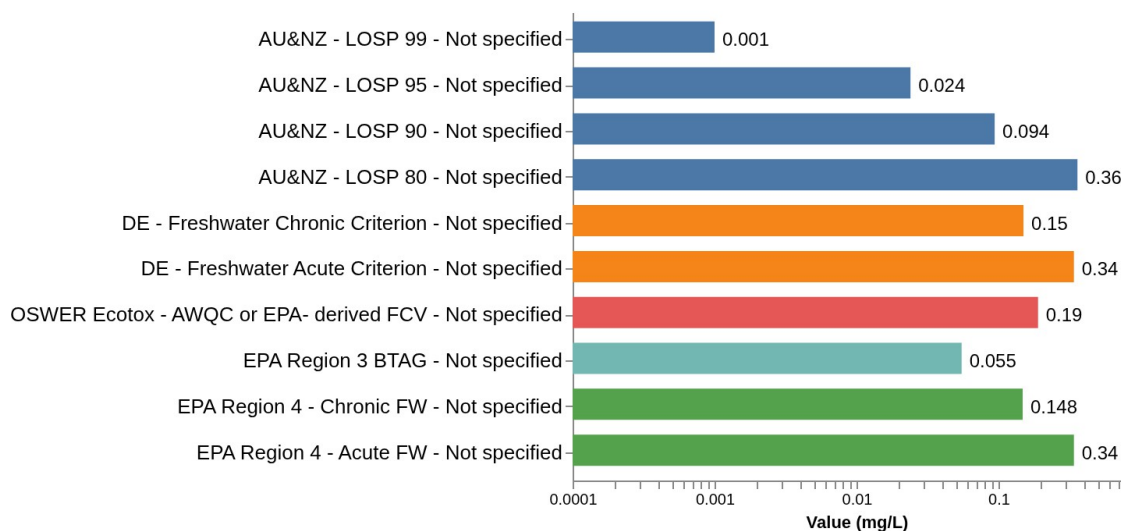


Table 68: Benchmark Values for Arsenic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7778-39-4	OPP	Freshwater Nonvascular Plant	Not specified	0.0092	
7778-39-4	OPP	Freshwater Invertebrates Acute	Not specified	7.5000	
7778-39-4	OPP	Freshwater Vascular Plant	Not specified	9.8000	22
7778-39-4	OPP	Freshwater Fish Acute	Not specified	25.0000	

Benchmark Values for Arsenic Acid in Surface Water (Fresh Water)

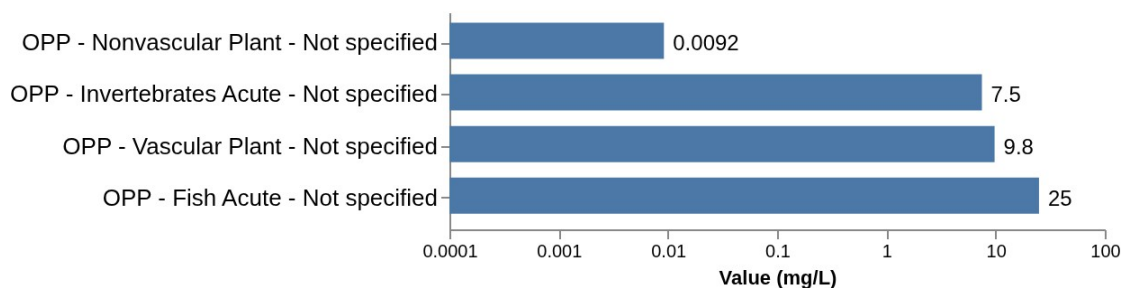


Table 69: Benchmark Values for Arsenic Trioxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1327-53-3	OPP	Freshwater Fish Acute	Not specified	12.8

Benchmark Values for Arsenic Trioxide in Surface Water (Fresh Water)

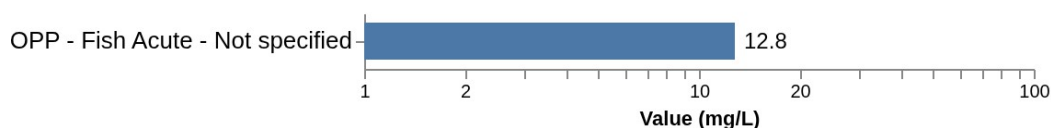


Table 70: Benchmark Values for Arsenic V in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
17428-41-0	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0008	88
17428-41-0	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0130	88, 89
17428-41-0	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0420	88
17428-41-0	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.1400	88, 94
17428-41-0	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0810	
17428-41-0	EPA Region 3	BTAG – Freshwater	Not specified	0.0031	

Benchmark Values for Arsenic V in Surface Water (Fresh Water)

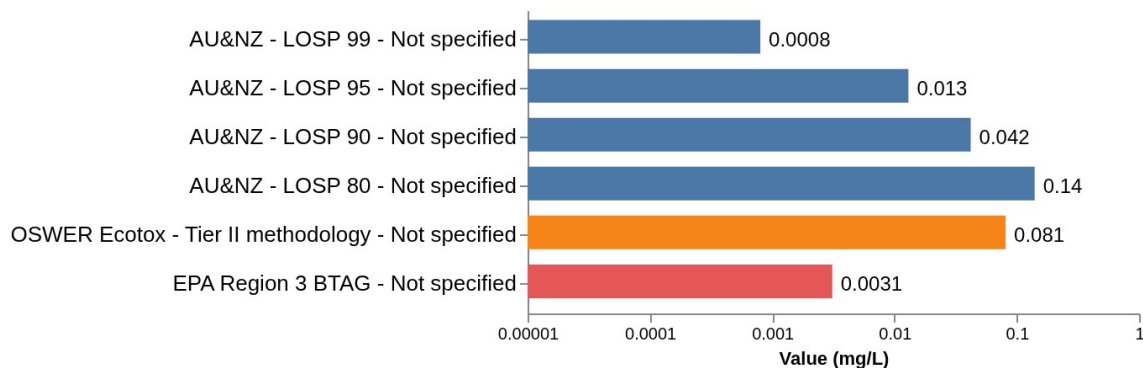


Table 71: Benchmark Values for Arsenic, Inorganic in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-38-2	British Columbia	Freshwater LTC	Not specified	0.005	
7440-38-2	California	Freshwater CCC, 4-day average	Not specified	0.150	
7440-38-2	California	Freshwater CMC, 1-hour average	Not specified	0.340	214
7440-38-2	California	Freshwater CMC, 1-hour average	Not specified	0.340	214, 216
7440-38-2	Canada	Freshwater Long Term	Not specified	0.005	
7440-38-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.150	
7440-38-2	EPA NRWQC	Freshwater CMC Acute	Not specified	0.340	
7440-38-2	EPA Region 3	BTAG – Freshwater	Not specified	0.005	
7440-38-2	EPA Region 4	Chronic Freshwater	Not specified	0.150	1
7440-38-2	EPA Region 4	Acute Freshwater	Not specified	0.340	1
7440-38-2	EPA Region 6	Freshwater Chronic	Not specified	0.150	21
7440-38-2	EPA Region 6	Freshwater Acute	Not specified	0.340	21
7440-38-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.050	
7440-38-2	New Jersey	Freshwater Chronic	Not specified	0.150	199, 200
7440-38-2	New Jersey	Freshwater Acute	Not specified	0.340	199, 200

Benchmark Values for Arsenic, Inorganic in Surface Water (Fresh Water)

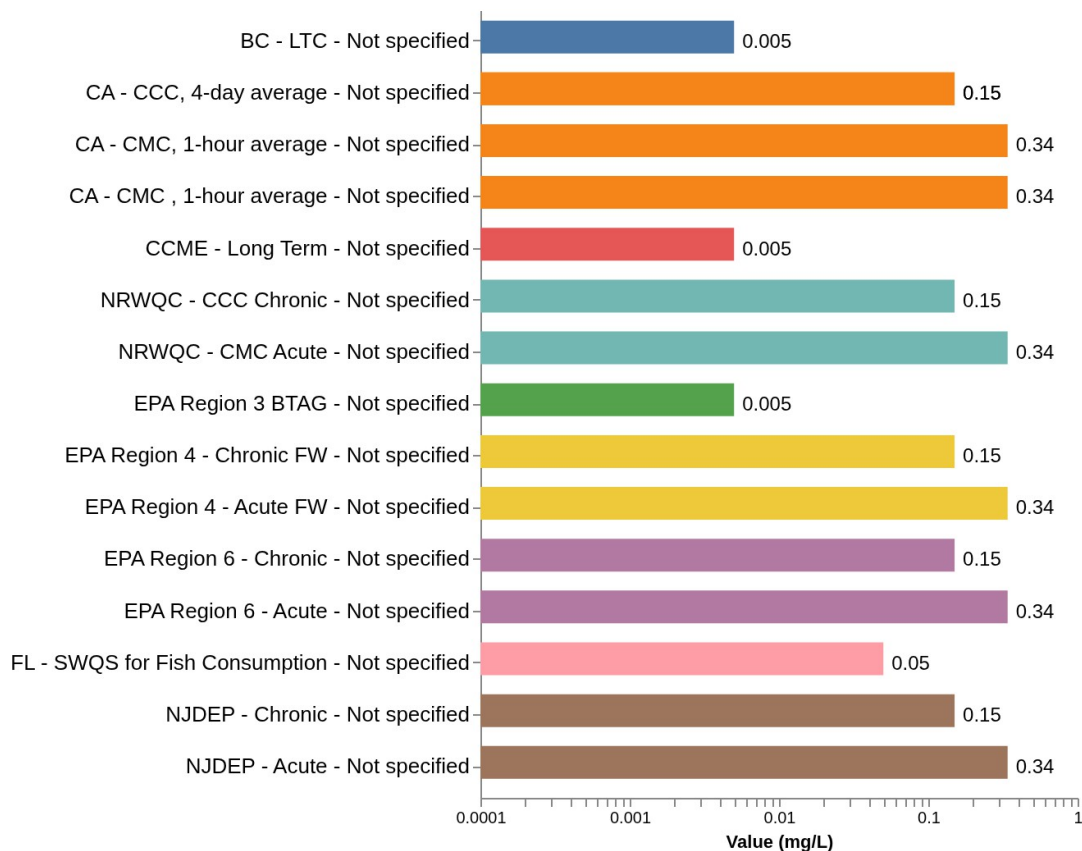


Table 72: Benchmark Values for Asulam, Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2302-17-2	OPP	Freshwater Vascular Plant	Not specified	0.14	
2302-17-2	OPP	Freshwater Nonvascular Plant	Not specified	0.18	
2302-17-2	OPP	Freshwater Fish Chronic	Not specified	10.90	
2302-17-2	OPP	Freshwater Invertebrates Acute	Not specified	13.55	
2302-17-2	OPP	Freshwater Invertebrates Chronic	Not specified	36.40	
2302-17-2	OPP	Freshwater Fish Acute	Not specified	87.50	22

Benchmark Values for Asulam, Sodium in Surface Water (Fresh Water)

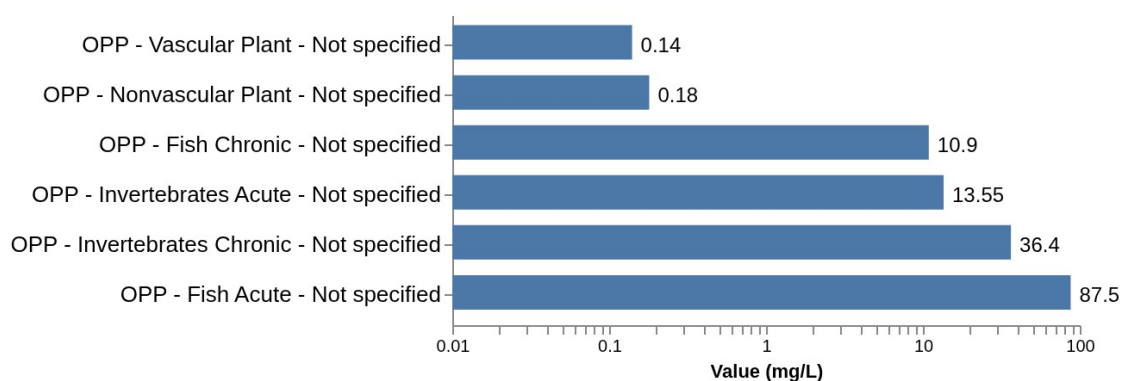


Table 73: Benchmark Values for Atrazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1912-24-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00070	88
1912-24-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.01300	88, 89
1912-24-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.04500	88, 94
1912-24-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.15000	88, 94
1912-24-9	California	Freshwater instantaneous max	Not specified	0.00100	
1912-24-9	California	Freshwater CMC, 1-hour average	Not specified	1.50000	
1912-24-9	Canada	Freshwater Long Term	Not specified	0.00180	
1912-24-9	EPA Region 3	BTAG – Freshwater	Not specified	0.00180	
1912-24-9	EPA Region 4	Chronic Freshwater	Not specified	0.00003	
1912-24-9	EPA Region 4	Acute Freshwater	Not specified	0.00005	
1912-24-9	EPA Region 6	Freshwater Chronic	Not specified	0.00180	
1912-24-9	OPP	Freshwater Nonvascular Plant	Not specified	0.00100	23
1912-24-9	OPP	Freshwater Vascular Plant	Not specified	0.00460	
1912-24-9	OPP	Freshwater Fish Chronic	Not specified	0.00500	
1912-24-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.06000	
1912-24-9	OPP	Freshwater Invertebrates Acute	Not specified	0.36000	
1912-24-9	OPP	Freshwater Fish Acute	Not specified	2.65000	

Benchmark Values for Atrazine in Surface Water (Fresh Water)

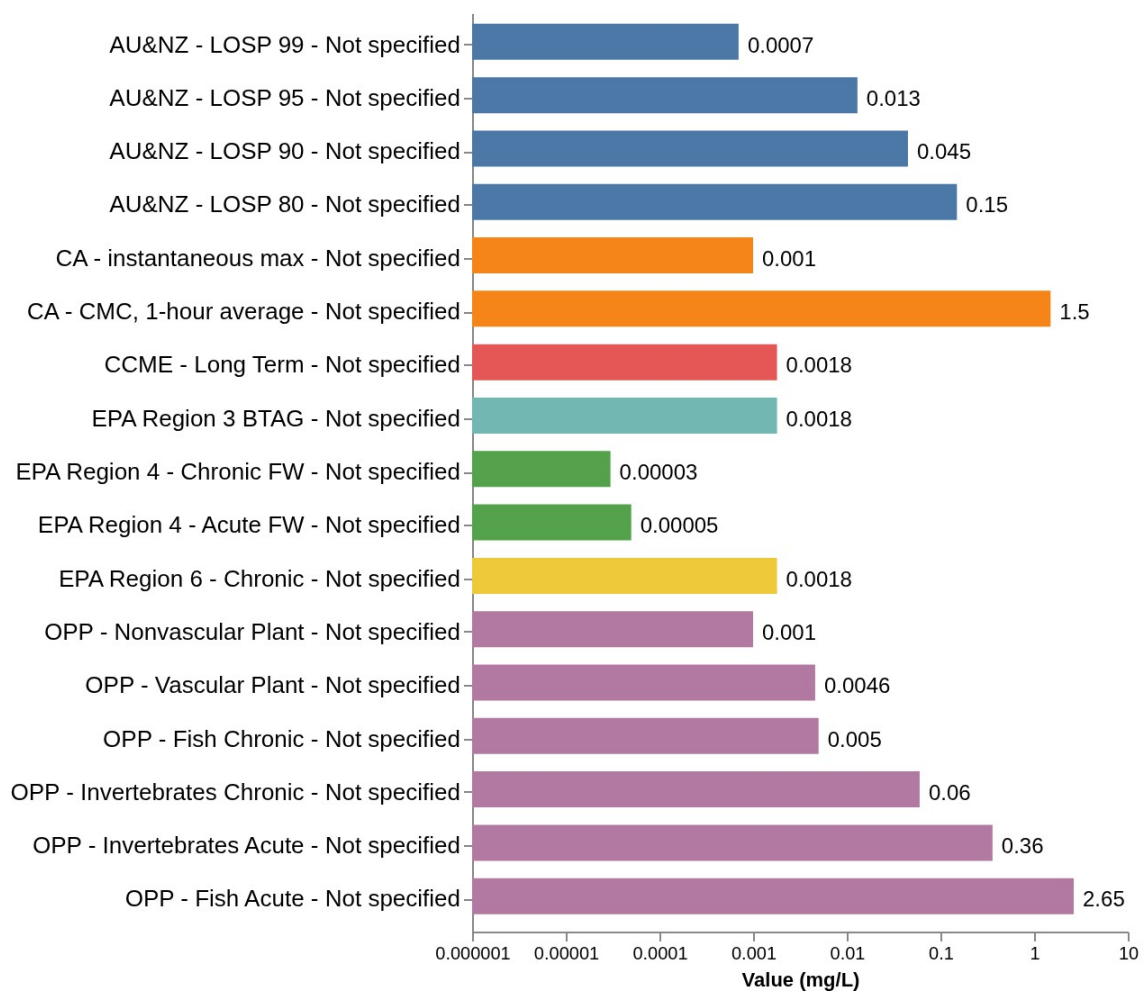


Table 74: Benchmark Values for Azinphos–methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
86–50–0	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00001	88
86–50–0	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00002	88, 92
86–50–0	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00005	88, 92
86–50–0	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00011	88, 92
86–50–0	California	Freshwater instantaneous max	Not specified	0.00001	
86–50–0	Delaware	Freshwater Chronic Criterion	Not specified	0.00001	
86–50–0	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00001	
86–50–0	EPA Region 3	BTAG – Freshwater	Not specified	0.00001	
86–50–0	EPA Region 4	Chronic Freshwater	Not specified	0.00001	
86–50–0	EPA Region 4	Acute Freshwater	Not specified	0.00008	
86–50–0	EPA Region 6	Freshwater Chronic	Not specified	0.00001	
86–50–0	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00001	
86–50–0	New Jersey	Freshwater Chronic	Not specified	0.00001	
86–50–0	OPP	Freshwater Chronic	Not specified	0.00001	
86–50–0	OPP	Freshwater Invertebrates Acute	Not specified	0.00008	
86–50–0	OPP	Freshwater Fish Acute	Not specified	0.00018	
86–50–0	OPP	Freshwater Invertebrates Chronic	Not specified	0.00025	
86–50–0	OPP	Freshwater Fish Chronic	Not specified	0.00044	

Benchmark Values for Azinphos-methyl in Surface Water (Fresh Water)

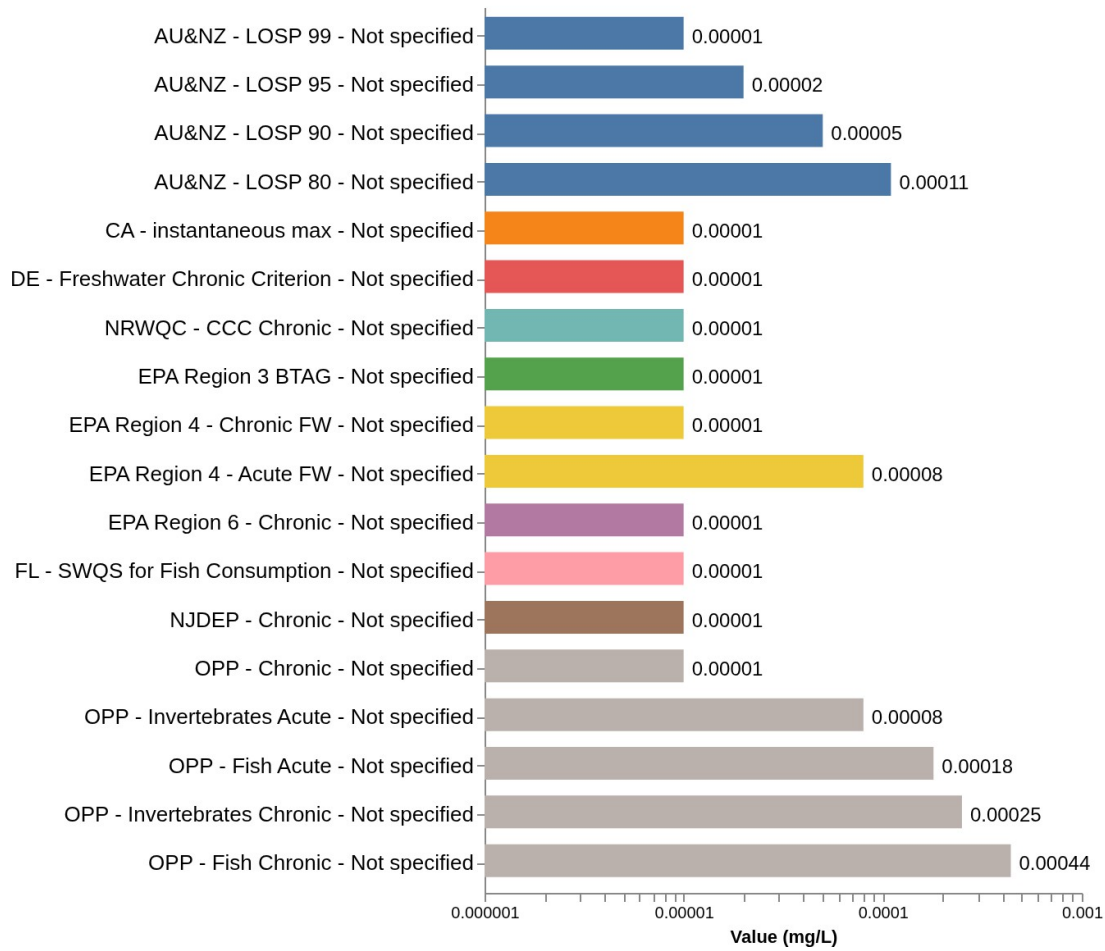


Table 75: Benchmark Values for Azoxystrobin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
131860-33-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.044
131860-33-8	OPP	Freshwater Nonvascular Plant	Not specified	0.049
131860-33-8	OPP	Freshwater Invertebrates Acute	Not specified	0.130
131860-33-8	OPP	Freshwater Fish Chronic	Not specified	0.147
131860-33-8	OPP	Freshwater Fish Acute	Not specified	0.235
131860-33-8	OPP	Freshwater Vascular Plant	Not specified	3.400

Benchmark Values for Azoxystrobin in Surface Water (Fresh Water)

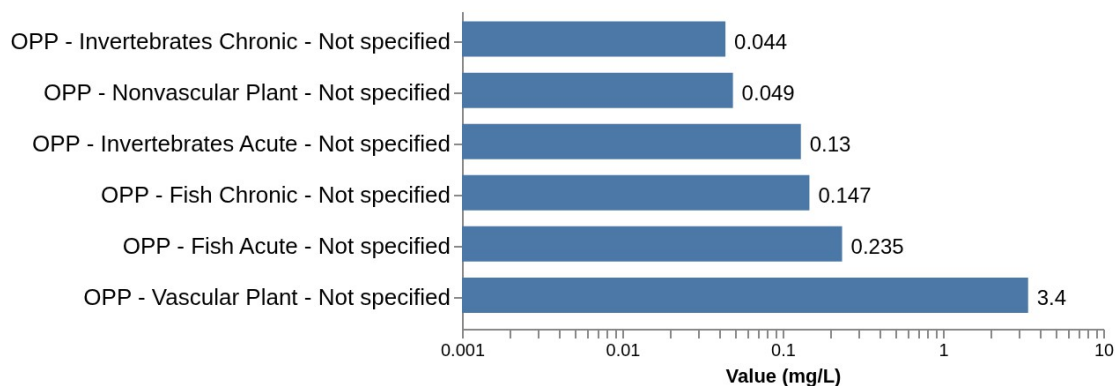


Table 76: Benchmark Values for Barium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-39-3	British Columbia	Freshwater LTC	Not specified	1.0000
7440-39-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0039
7440-39-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0040
7440-39-3	EPA Region 4	Chronic Freshwater	Not specified	0.2200
7440-39-3	EPA Region 4	Acute Freshwater	Not specified	2.0000
7440-39-3	EPA Region 6	Freshwater Chronic	Not specified	20.5000
7440-39-3	EPA Region 6	Freshwater Acute	Not specified	123.0000

Benchmark Values for Barium in Surface Water (Fresh Water)

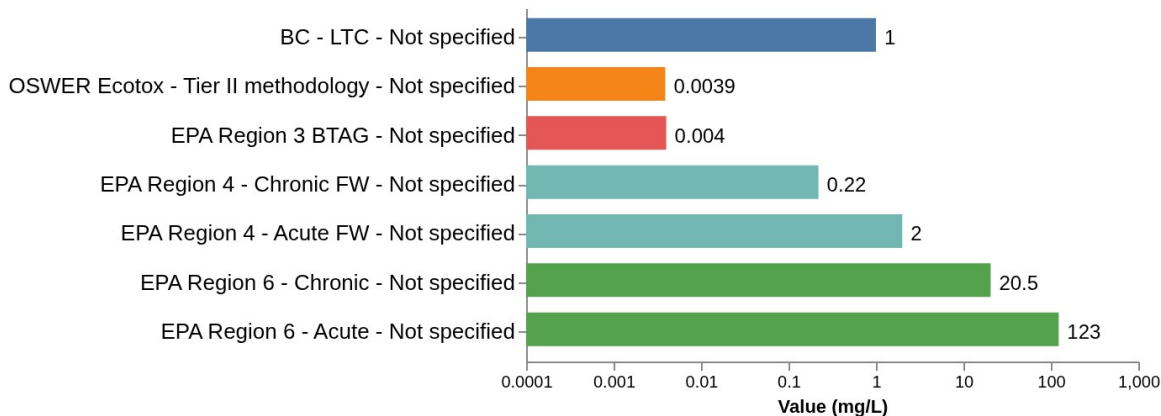


Table 77: Benchmark Values for Benfluralin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1861-40-1	OPP	Freshwater Fish Chronic	Not specified	0.00190	
1861-40-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.01550	
1861-40-1	OPP	Freshwater Fish Acute	Not specified	0.03485	
1861-40-1	OPP	Freshwater Nonvascular Plant	Not specified	0.10000	22
1861-40-1	OPP	Freshwater Invertebrates Acute	Not specified	1.09000	

Benchmark Values for Benfluralin in Surface Water (Fresh Water)

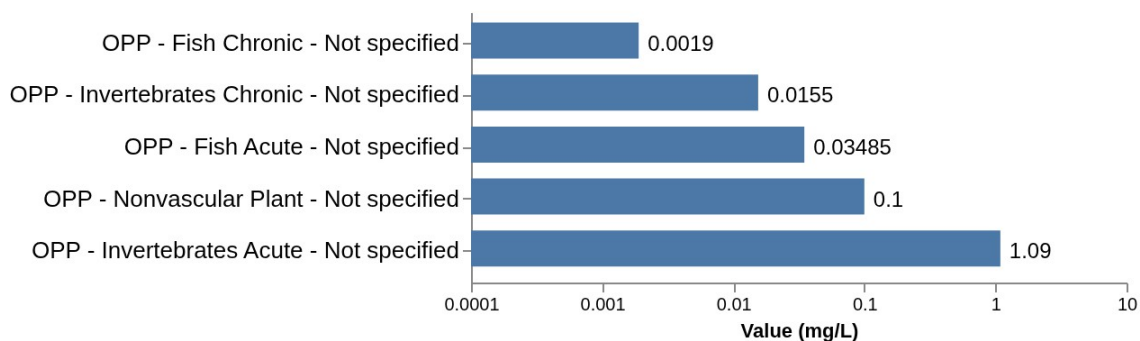


Table 78: Benchmark Values for Benomyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
17804-35-2	California	Freshwater CMC, 1-hour average	Not specified	0.0088

Benchmark Values for Benomyl in Surface Water (Fresh Water)

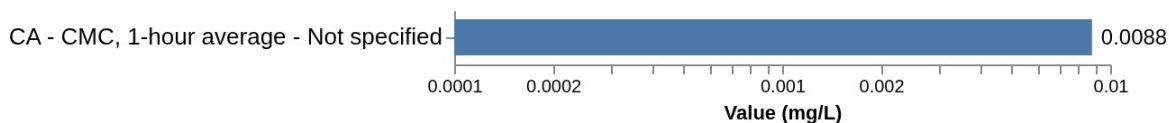


Table 79: Benchmark Values for Bensulfuron-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
83055-99-6	OPP	Freshwater Nonvascular Plant	Not specified	0.0078
83055-99-6	OPP	Freshwater Vascular Plant	Not specified	0.0083

Benchmark Values for Bensulfuron-methyl in Surface Water (Fresh Water)

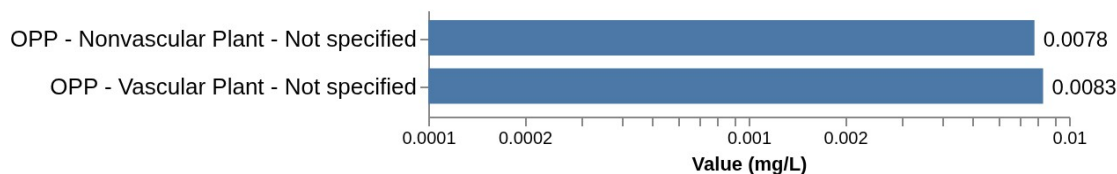


Table 80: Benchmark Values for Bensulide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
741-58-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.011
741-58-2	OPP	Freshwater Vascular Plant	Not specified	0.140
741-58-2	OPP	Freshwater Fish Chronic	Not specified	0.169
741-58-2	OPP	Freshwater Invertebrates Acute	Not specified	0.290
741-58-2	OPP	Freshwater Fish Acute	Not specified	0.550
741-58-2	OPP	Freshwater Nonvascular Plant	Not specified	0.780

Benchmark Values for Bensulide in Surface Water (Fresh Water)

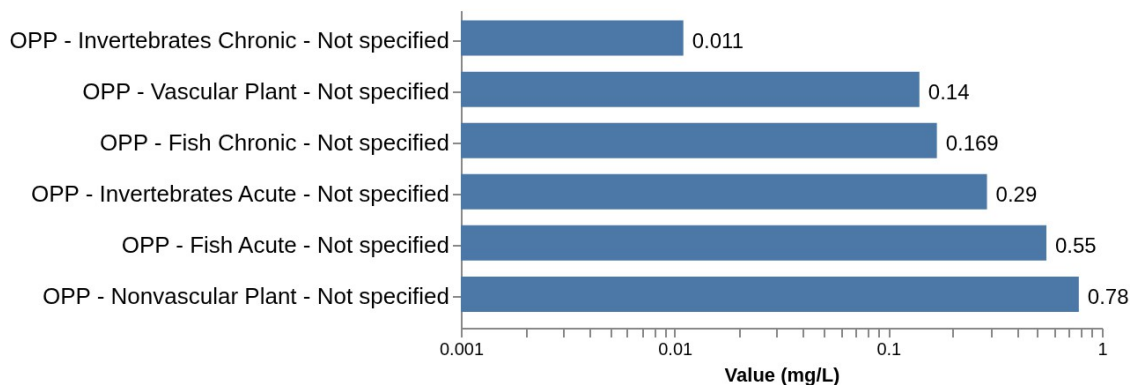


Table 81: Benchmark Values for Bentazon Sodium Salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50723-80-3	OPP	Freshwater Nonvascular Plant	Not specified	4.50	
50723-80-3	OPP	Freshwater Vascular Plant	Not specified	5.35	
50723-80-3	OPP	Freshwater Fish Chronic	Not specified	9.83	
50723-80-3	OPP	Freshwater Invertebrates Acute	Not specified	31.15	
50723-80-3	OPP	Freshwater Fish Acute	Not specified	95.00	22
50723-80-3	OPP	Freshwater Invertebrates Chronic	Not specified	101.20	

Benchmark Values for Bentazon Sodium Salt in Surface Water (Fresh Water)

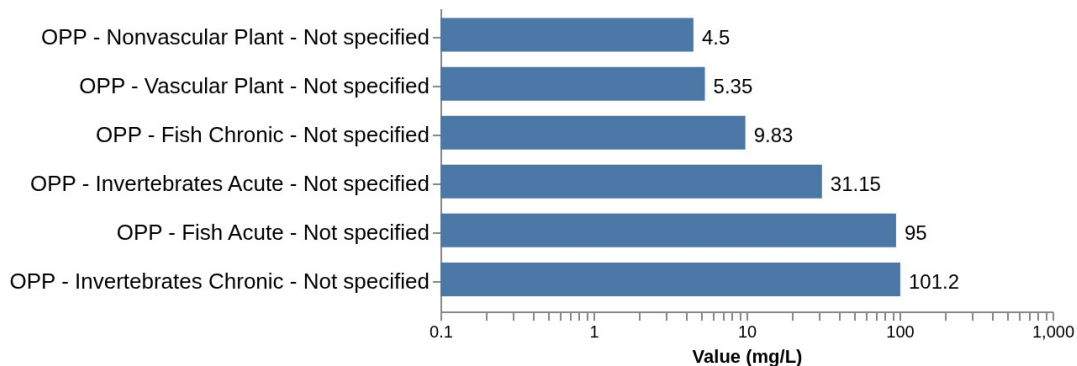


Table 82: Benchmark Values for Bentazon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25057-89-0	OPP	Freshwater Nonvascular Plant	Not specified	4.50
25057-89-0	OPP	Freshwater Vascular Plant	Not specified	5.35
25057-89-0	OPP	Freshwater Fish Chronic	Not specified	9.83
25057-89-0	OPP	Freshwater Invertebrates Acute	Not specified	31.15
25057-89-0	OPP	Freshwater Fish Acute	Not specified	95.00
25057-89-0	OPP	Freshwater Invertebrates Chronic	Not specified	101.20

Benchmark Values for Bentazon in Surface Water (Fresh Water)

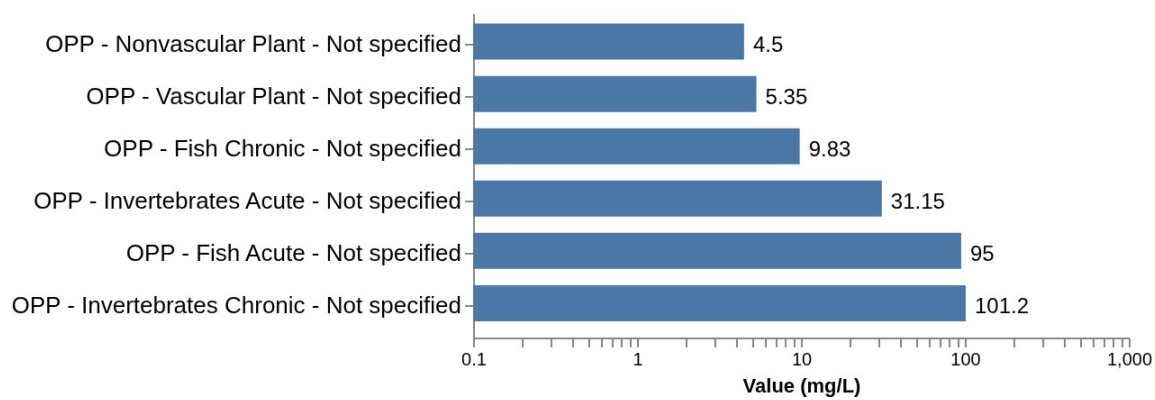


Table 83: Benchmark Values for Benz[a]anthracene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-55-3	British Columbia	Freshwater LTC	Not specified	0.000100	124
56-55-3	Canada	Freshwater Long Term	Not specified	0.000018	
56-55-3	EPA Region 3	BTAG – Freshwater	Not specified	0.000018	
56-55-3	EPA Region 4	Chronic Freshwater	Not specified	0.004700	7
56-55-3	EPA Region 4	Acute Freshwater	Not specified	0.042000	7
56-55-3	EPA Region 6	Freshwater Chronic	Not specified	0.000970	
56-55-3	EPA Region 6	Freshwater Acute	Not specified	0.029000	

Benchmark Values for Benz[a]anthracene in Surface Water (Fresh Water)

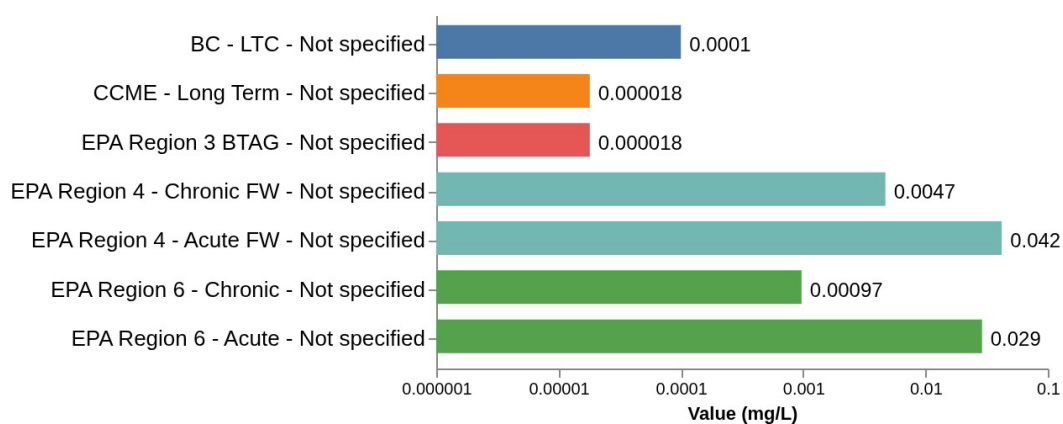


Table 84: Benchmark Values for Benzaldehyde in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-52-7	EPA Region 4	Chronic Freshwater	Not specified	0.143	
100-52-7	EPA Region 4	Acute Freshwater	Not specified	0.592	

Benchmark Values for Benzaldehyde in Surface Water (Fresh Water)

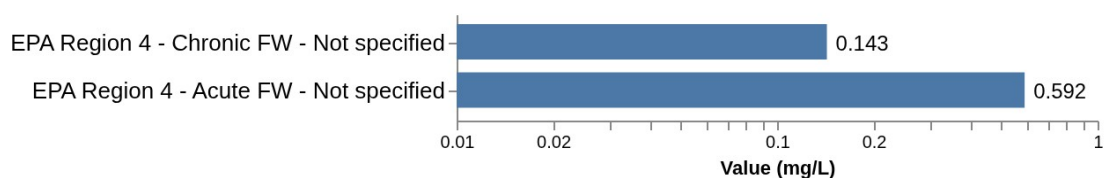


Table 85: Benchmark Values for Benzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-43-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.60000	88, 89
71-43-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.95000	88, 89
71-43-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.30000	88
71-43-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.00000	88
71-43-2	British Columbia	Freshwater LTC	Not specified	0.04000	
71-43-2	California	Freshwater acute toxicity	Not specified	5.30000	
71-43-2	Canada	Freshwater Long Term	Not specified	0.37000	
71-43-2	EPA OSWER	Freshwater Tier II methodology	Not specified	0.04600	
71-43-2	EPA Region 3	BTAG – Freshwater	Not specified	0.37000	
71-43-2	EPA Region 4	Chronic Freshwater	Not specified	0.16000	
71-43-2	EPA Region 4	Acute Freshwater	Not specified	0.70000	
71-43-2	EPA Region 6	Freshwater Chronic	Not specified	0.13000	
71-43-2	EPA Region 6	Freshwater Acute	Not specified	2.30000	
71-43-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.07128	

Benchmark Values for Benzene in Surface Water (Fresh Water)

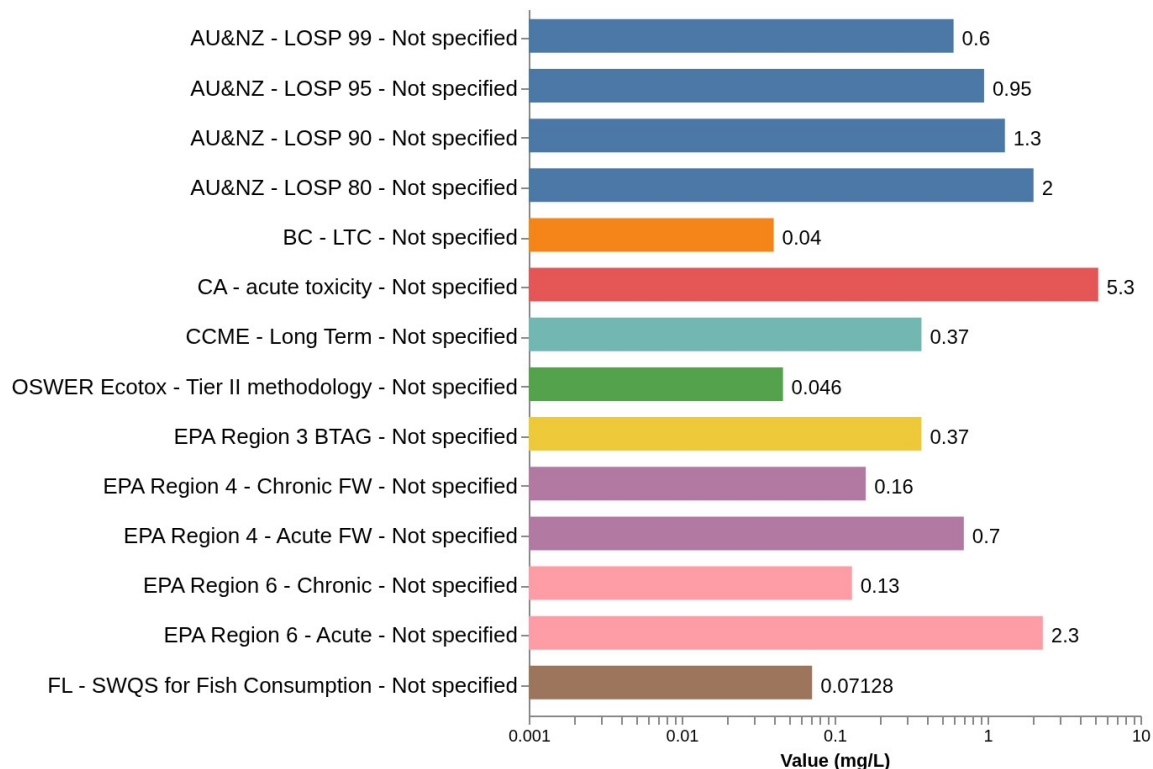


Table 86: Benchmark Values for Benzenes, chlorinated in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-2	California	Freshwater other toxicity	Not specified	0.05

Benchmark Values for Benzenes, chlorinated in Surface Water (Fresh Water)

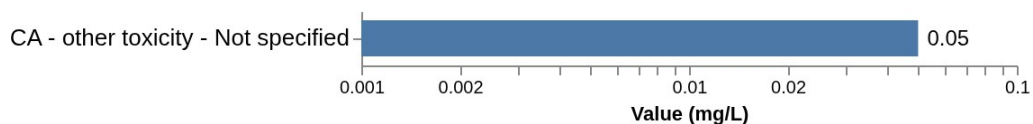


Table 87: Benchmark Values for Benzidine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
92-87-5	California	Freshwater acute toxicity	Not specified	2.5000
92-87-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0039
92-87-5	EPA Region 4	Chronic Freshwater	Not specified	0.0015
92-87-5	EPA Region 4	Acute Freshwater	Not specified	0.0140
92-87-5	EPA Region 6	Freshwater Chronic	Not specified	0.0900
92-87-5	EPA Region 6	Freshwater Acute	Not specified	0.2700

Benchmark Values for Benzidine in Surface Water (Fresh Water)

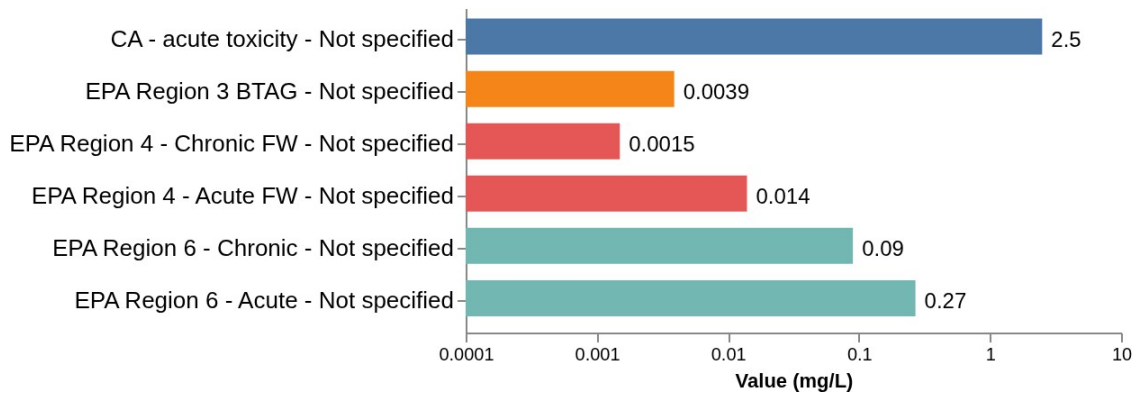


Table 88: Benchmark Values for Benzisothiazol-3(2H)-one, 2-butyl (BBIT), 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
4299-07-4	OPP	Freshwater Nonvascular Plant	Not specified	0.019
4299-07-4	OPP	Freshwater Fish Acute	Not specified	0.270
4299-07-4	OPP	Freshwater Fish Chronic	Not specified	0.280
4299-07-4	OPP	Freshwater Invertebrates Acute	Not specified	0.750
4299-07-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.910
4299-07-4	OPP	Freshwater Vascular Plant	Not specified	9.308

Benchmark Values for Benzisothiazol-3(2H)-one, 2-butyl (BBIT), 1,2- in Surface Water (Fresh Water)

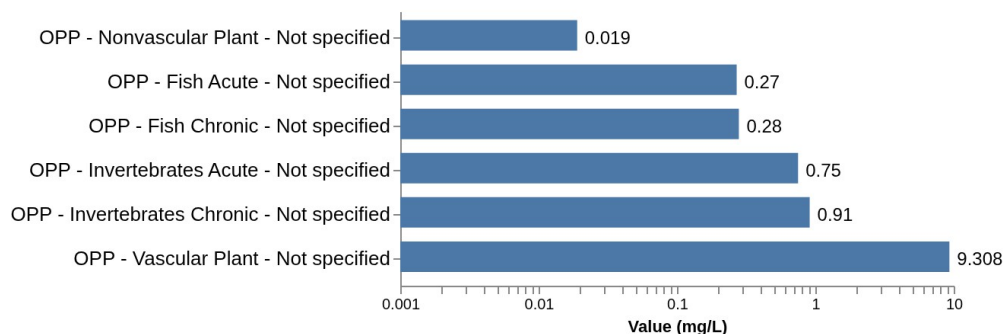


Table 89: Benchmark Values for Benzisothiazolin-3-one (BIT), 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2634-33-5	OPP	Freshwater Nonvascular Plant	Not specified	0.019
2634-33-5	OPP	Freshwater Fish Acute	Not specified	0.270
2634-33-5	OPP	Freshwater Fish Chronic	Not specified	0.280
2634-33-5	OPP	Freshwater Invertebrates Acute	Not specified	0.750
2634-33-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.910
2634-33-5	OPP	Freshwater Vascular Plant	Not specified	9.308

Benchmark Values for Benzisothiazolin-3-one (BIT), 1,2- in Surface Water (Fresh Water)

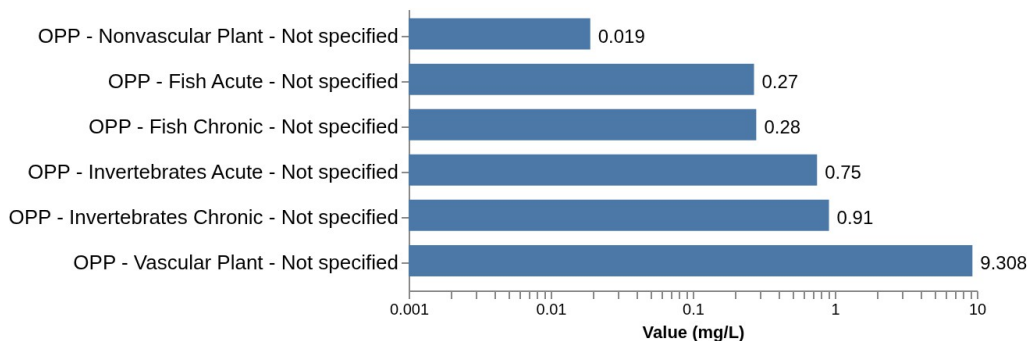


Table 90: Benchmark Values for Benzo[a]pyrene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50-32-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000100	83, 89, 97
50-32-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000200	83, 97
50-32-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000400	83, 97
50-32-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.000700	83, 97
50-32-8	British Columbia	Freshwater LTC	Not specified	0.000010	
50-32-8	Canada	Freshwater Long Term	Not specified	0.000015	
50-32-8	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000014	
50-32-8	EPA Region 3	BTAG – Freshwater	Not specified	0.000015	
50-32-8	EPA Region 4	Chronic Freshwater	Not specified	0.000060	7
50-32-8	EPA Region 4	Acute Freshwater	Not specified	0.000540	7
50-32-8	EPA Region 6	Freshwater Chronic	Not specified	0.000125	
50-32-8	EPA Region 6	Freshwater Acute	Not specified	0.003760	

Benchmark Values for Benzo[a]pyrene in Surface Water (Fresh Water)

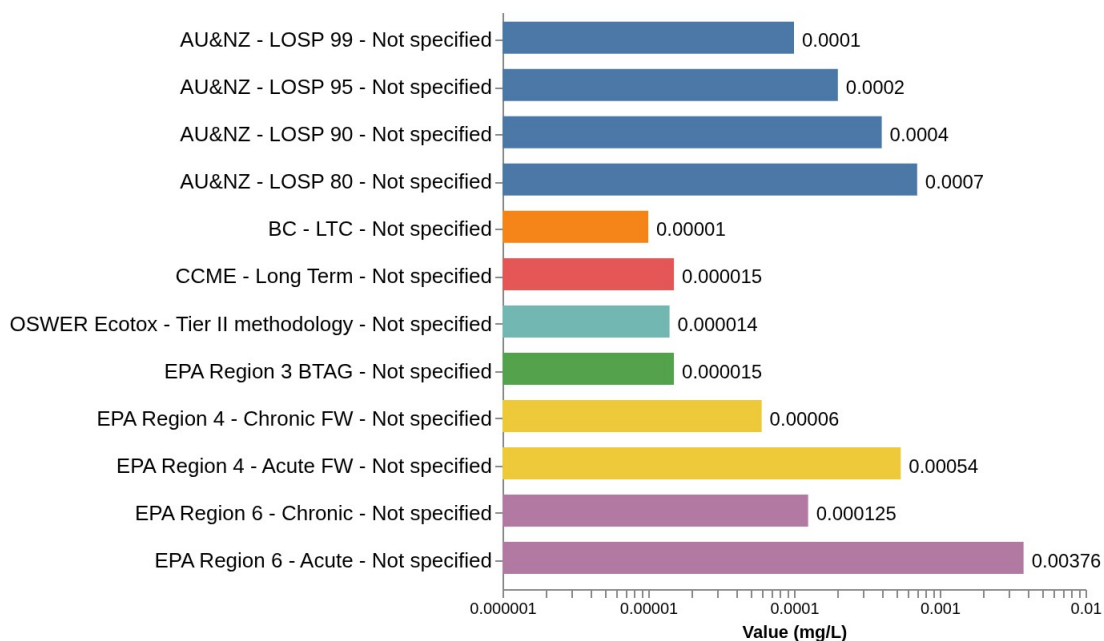


Table 91: Benchmark Values for Benzo[b]fluoranthene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
205-99-2	EPA Region 4	Chronic Freshwater	Not specified	0.0026	7
205-99-2	EPA Region 4	Acute Freshwater	Not specified	0.0230	7

Benchmark Values for Benzo[b]fluoranthene in Surface Water (Fresh Water)

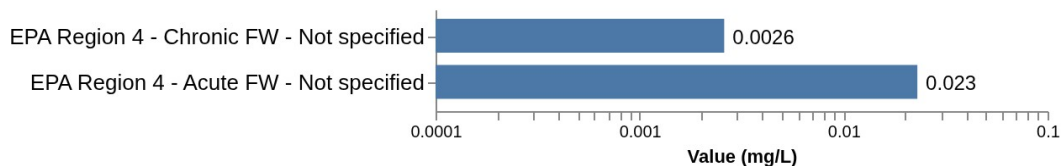


Table 92: Benchmark Values for Benzo[g,h,i]perylene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
191-24-2	EPA Region 4	Chronic Freshwater	Not specified	0.000012	7
191-24-2	EPA Region 4	Acute Freshwater	Not specified	0.000190	7

Benchmark Values for Benzo[g,h,i]perylene in Surface Water (Fresh Water)

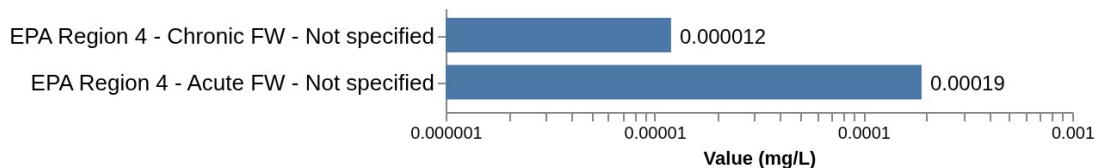


Table 93: Benchmark Values for Benzo[k]fluoranthene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
207-08-9	EPA Region 4	Chronic Freshwater	Not specified	0.00006	7
207-08-9	EPA Region 4	Acute Freshwater	Not specified	0.00130	7

Benchmark Values for Benzo[k]fluoranthene in Surface Water (Fresh Water)

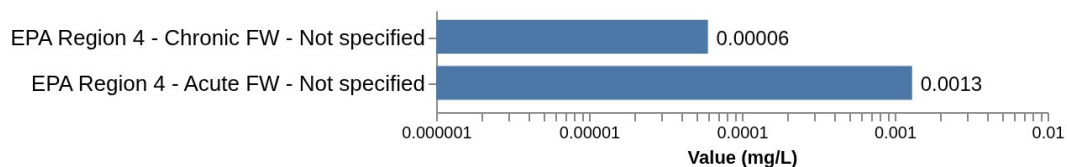


Table 94: Benchmark Values for Benzobicyclon (Metabolite B) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
126656-88-0	OPP	Freshwater Fish Chronic	Not specified	0.0023	
126656-88-0	OPP	Freshwater Fish Acute	Not specified	0.2405	22
126656-88-0	OPP	Freshwater Invertebrates Chronic	Not specified	61.7000	
126656-88-0	OPP	Freshwater Invertebrates Acute	Not specified	62.5000	22

Benchmark Values for Benzobicyclon (Metabolite B) in Surface Water (Fresh Water)

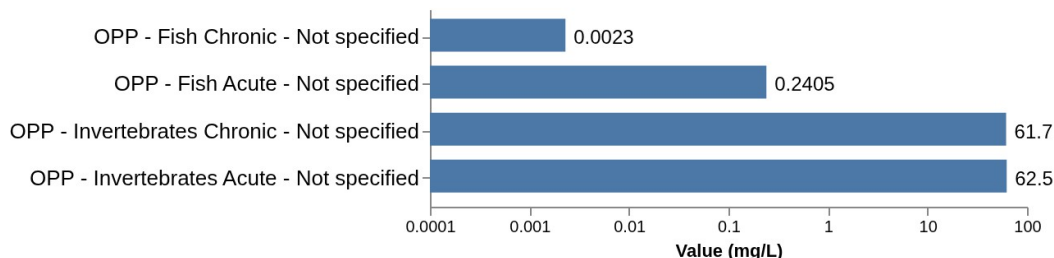


Table 95: Benchmark Values for Benzobicyclon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
156963-66-5	OPP	Freshwater Vascular Plant	Not specified	0.001475	
156963-66-5	OPP	Freshwater Fish Chronic	Not specified	0.019200	
156963-66-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.083800	
156963-66-5	OPP	Freshwater Nonvascular Plant	Not specified	0.162000	
156963-66-5	OPP	Freshwater Invertebrates Acute	Not specified	0.184000	22
156963-66-5	OPP	Freshwater Fish Acute	Not specified	0.240500	22

Benchmark Values for Benzobicyclon in Surface Water (Fresh Water)

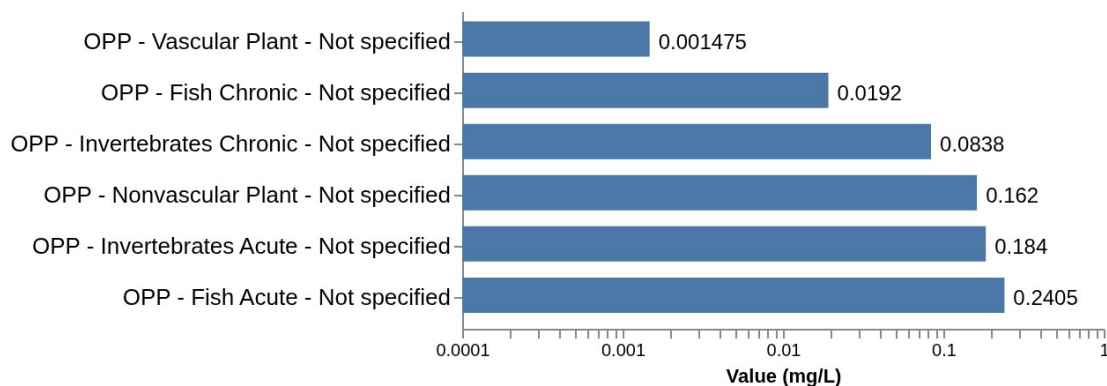


Table 96: Benchmark Values for Benzoic acid, 2-(trifluoro methyl) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
433-97-6	OPP	Freshwater Fish Acute	Not specified	48.95	22
433-97-6	OPP	Freshwater Invertebrates Acute	Not specified	88.75	22
433-97-6	OPP	Freshwater Nonvascular Plant	Not specified	102.70	22

Benchmark Values for Benzoic acid, 2-(trifluoro methyl) in Surface Water (Fresh Water)

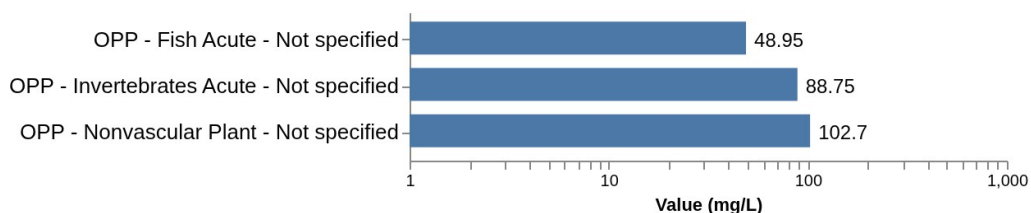


Table 97: Benchmark Values for Benzoic acid, 2-Amino-4-(methylsulfonyl) (AMBA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
393085-45-5	OPP	Freshwater Nonvascular Plant	Not specified	8.9
393085-45-5	OPP	Freshwater Fish Acute	Not specified	75.0
393085-45-5	OPP	Freshwater Invertebrates Acute	Not specified	80.0

Benchmark Values for Benzoic acid, 2-Amino-4-(methylsulfonyl) (AMBA) in Surface Water (Fresh Water)

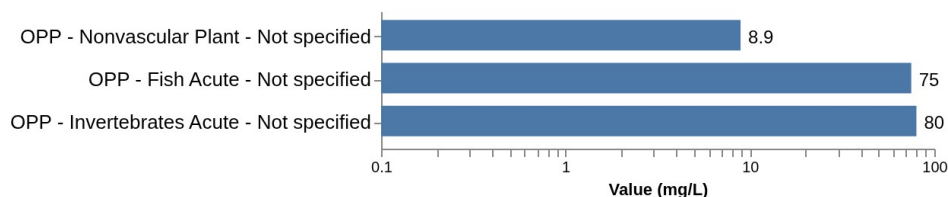


Table 98: Benchmark Values for Benzoic acid, 2-Nitro-4-methylsulfonyl (MNBA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110964-79-9	OPP	Freshwater Fish Acute	Not specified	60.0	22
110964-79-9	OPP	Freshwater Invertebrates Acute	Not specified	67.0	

Benchmark Values for Benzoic acid, 2-Nitro-4-methylsulfonyl (MNBA) in Surface Water (Fresh Water)

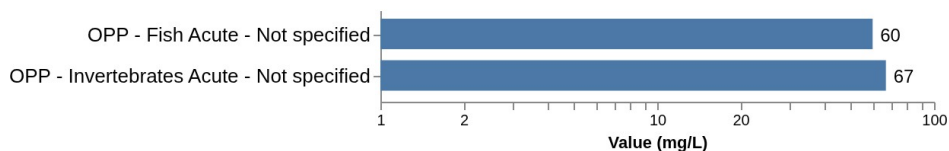


Table 99: Benchmark Values for Benzoic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
65-85-0	EPA Region 3	BTAG – Freshwater	Not specified	0.042
65-85-0	EPA Region 4	Chronic Freshwater	Not specified	0.042
65-85-0	EPA Region 4	Acute Freshwater	Not specified	0.740
65-85-0	EPA Region 6	Freshwater Chronic	Not specified	3.950
65-85-0	EPA Region 6	Freshwater Acute	Not specified	11.840

Benchmark Values for Benzoic Acid in Surface Water (Fresh Water)

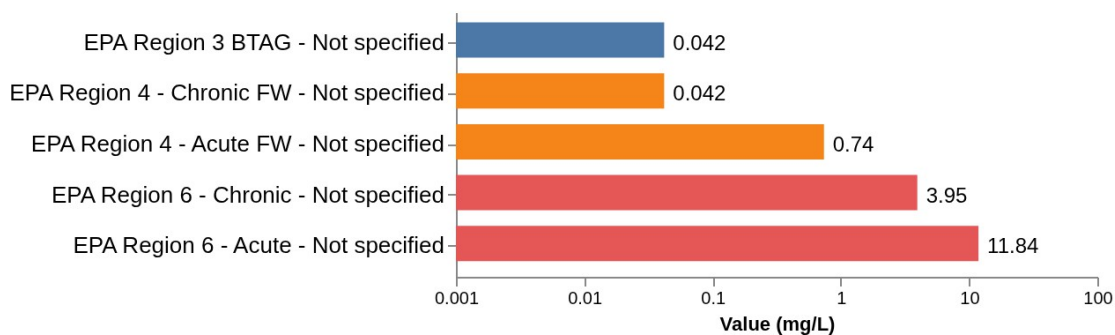


Table 100: Benchmark Values for Benzovindiflupyr degradate M700F001 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-1	OPP	Freshwater Fish Acute	Not specified	44.05	22
000000-34-1	OPP	Freshwater Invertebrates Acute	Not specified	49.10	22

Benchmark Values for Benzovindiflupyr degradate M700F001 in Surface Water (Fresh Water)

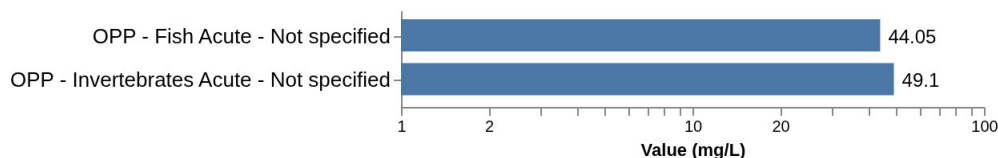


Table 101: Benchmark Values for Benzovindiflupyr degradate SYN546039 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-2	OPP	Freshwater Fish Acute	Not specified	1.250	
000000-34-2	OPP	Freshwater Invertebrates Acute	Not specified	2.725	
000000-34-2	OPP	Freshwater Nonvascular Plant	Not specified	6.400	22

Benchmark Values for Benzovindiflupyr degradate SYN546039 in Surface Water (Fresh Water)

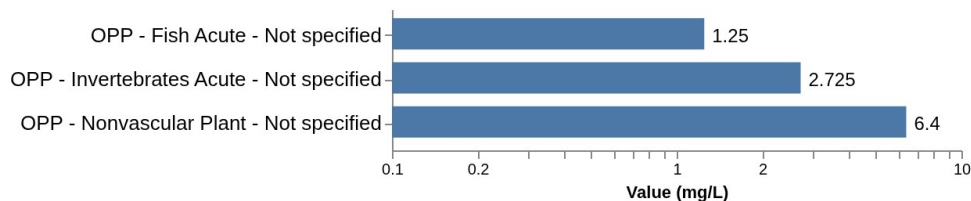


Table 102: Benchmark Values for Benzyl Alcohol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
100-51-6	EPA Region 3	BTAG – Freshwater	Not specified	0.0086
100-51-6	EPA Region 4	Chronic Freshwater	Not specified	0.0086
100-51-6	EPA Region 4	Acute Freshwater	Not specified	0.1500
100-51-6	EPA Region 6	Freshwater Chronic	Not specified	0.0086
100-51-6	EPA Region 6	Freshwater Acute	Not specified	0.1500

Benchmark Values for Benzyl Alcohol in Surface Water (Fresh Water)

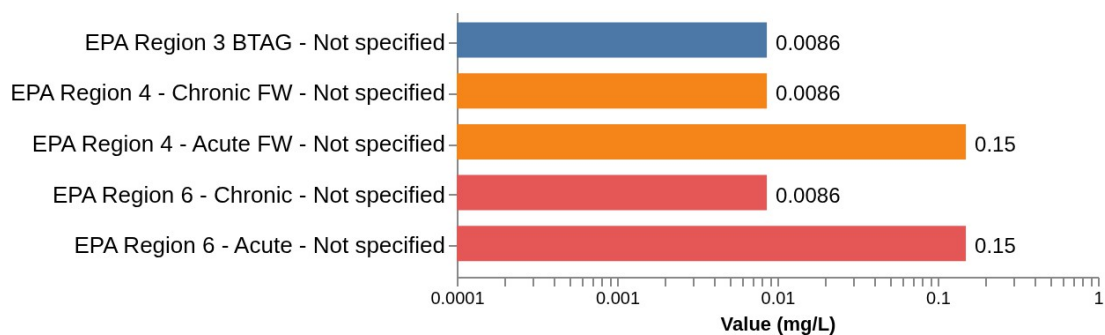


Table 103: Benchmark Values for Beryllium and compounds in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-41-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.00013	83
7440-41-7	California	Freshwater chronic toxicity	Not specified	0.00530	
7440-41-7	California	Freshwater acute toxicity	Not specified	0.13000	
7440-41-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.00510	
7440-41-7	EPA Region 3	BTAG – Freshwater	Not specified	0.00066	
7440-41-7	EPA Region 4	Chronic Freshwater	Not specified	0.01100	
7440-41-7	EPA Region 4	Acute Freshwater	Not specified	0.09300	
7440-41-7	EPA Region 6	Freshwater Chronic	Not specified	0.11000	
7440-41-7	EPA Region 6	Freshwater Acute	Not specified	0.69000	
7440-41-7	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00013	

Benchmark Values for Beryllium and compounds in Surface Water (Fresh Water)

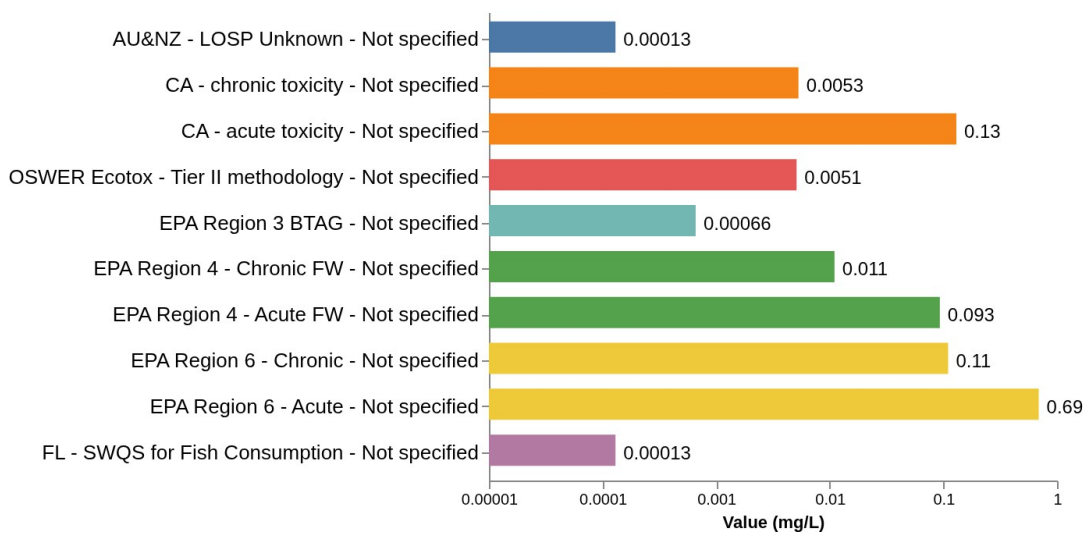


Table 104: Benchmark Values for BHC (non Lindane) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-07-9	EPA Region 3	BTAG – Freshwater	Not specified	0.0022

Benchmark Values for BHC (non Lindane) in Surface Water (Fresh Water)

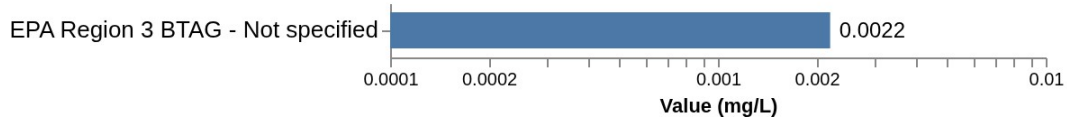


Table 105: Benchmark Values for Bicyclopyrone degradate CSAA589691 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
876-05-1	OPP	Freshwater Vascular Plant	Not specified	90.28	22

Benchmark Values for Bicyclopyrone degradate CSAA589691 in Surface Water (Fresh Water)

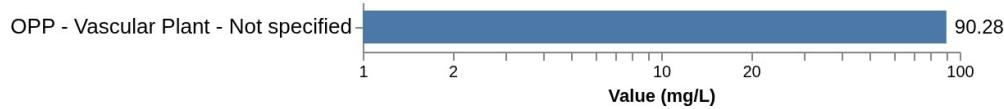


Table 106: Benchmark Values for Bicyclopyrone degradate CSCC163768 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
90376-94-6	OPP	Freshwater Vascular Plant	Not specified	100.25	22

Benchmark Values for Bicyclopyrone degradate CSCC163768 in Surface Water (Fresh Water)

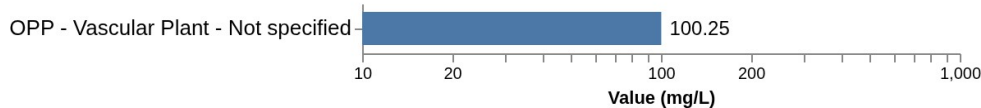


Table 107: Benchmark Values for Bicyclopyrone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
352010-68-5	OPP	Freshwater Vascular Plant	Not specified	0.013	
352010-68-5	OPP	Freshwater Nonvascular Plant	Not specified	2.000	
352010-68-5	OPP	Freshwater Fish Chronic	Not specified	10.000	
352010-68-5	OPP	Freshwater Invertebrates Acute	Not specified	46.650	22
352010-68-5	OPP	Freshwater Fish Acute	Not specified	46.700	22
352010-68-5	OPP	Freshwater Invertebrates Chronic	Not specified	103.700	

Benchmark Values for Bicyclopyrone in Surface Water (Fresh Water)

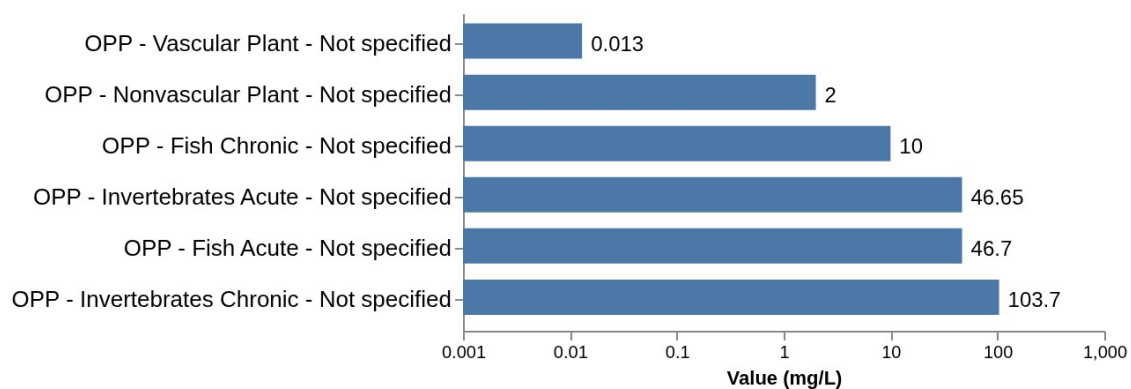


Table 108: Benchmark Values for Bifenazate degradate (D1989) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-34-5	OPP	Freshwater Invertebrates Acute	Not specified	0.121

Benchmark Values for Bifenazate degradate (D1989) in Surface Water (Fresh Water)

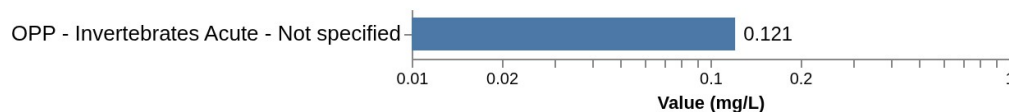


Table 109: Benchmark Values for Bifenazate degradate 2-[4-methoxy(1,1-biphenyl)-3-yl],1-methylethyl ester (D3598) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-4	OPP	Freshwater Fish Acute	Not specified	0.02280	
000000-34-4	OPP	Freshwater Invertebrates Acute	Not specified	0.02775	
000000-34-4	OPP	Freshwater Nonvascular Plant	Not specified	0.74530	

Benchmark Values for Bifenazate degradate 2-[4-methoxy(1,1-biphenyl)-3-yl],1-methylethyl ester (D3598) in Surface Water (Fresh Water)

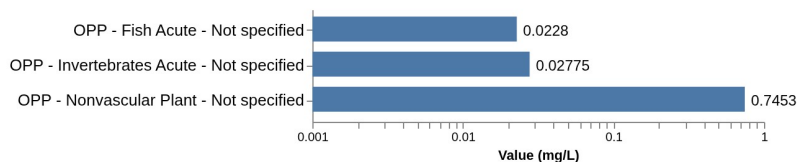


Table 110: Benchmark Values for Bifenazate degradate [1,1-Biphenyl]-3,4-diol (D9472) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-3	OPP	Freshwater Fish Acute	Not specified	0.1005	
000000-34-3	OPP	Freshwater Invertebrates Acute	Not specified	0.3820	
000000-34-3	OPP	Freshwater Nonvascular Plant	Not specified	0.9017	

Benchmark Values for Bifenazate degradate [1,1-Biphenyl]-3,4-diol (D9472) in Surface Water (Fresh Water)

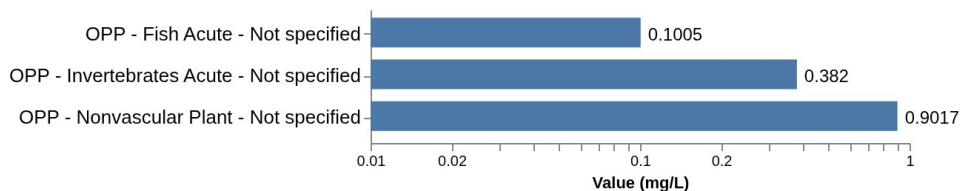


Table 111: Benchmark Values for Bifenazate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
149877-41-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.15	
149877-41-8	OPP	Freshwater Invertebrates Acute	Not specified	0.25	
149877-41-8	OPP	Freshwater Fish Acute	Not specified	0.29	
149877-41-8	OPP	Freshwater Nonvascular Plant	Not specified	0.89	
149877-41-8	OPP	Freshwater Vascular Plant	Not specified	3.82	22

Benchmark Values for Bifenazate in Surface Water (Fresh Water)

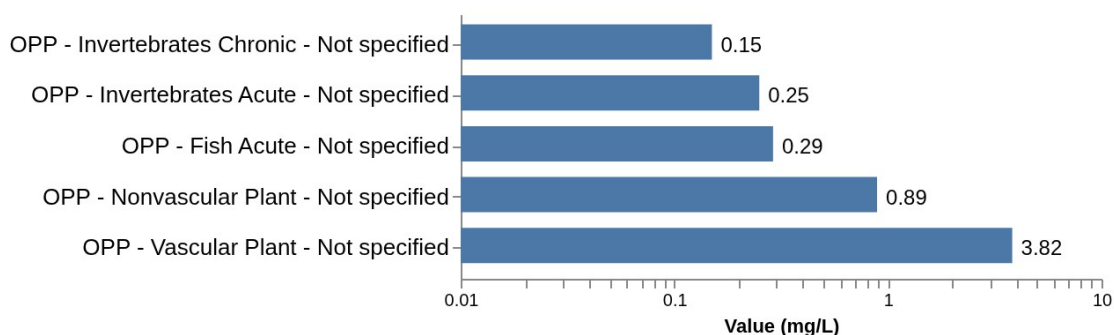


Table 112: Benchmark Values for Bioallethrin, S- (Esbiol) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
28434-00-6	OPP	Freshwater Fish Acute	Not specified	0.0047

Benchmark Values for Bioallethrin, S- (Esbiol) in Surface Water (Fresh Water)

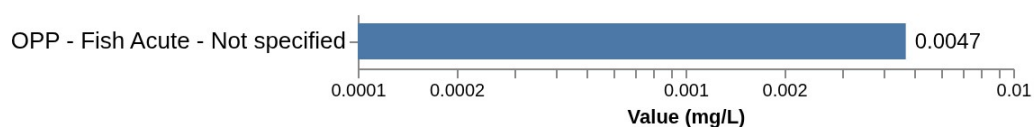


Table 113: Benchmark Values for Biphenthrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
82657-04-3	OPP	Freshwater Invertebrates Chronic	Not specified	5.000000e-08	
82657-04-3	OPP	Freshwater Invertebrates Acute	Not specified	2.465000e-07	
82657-04-3	OPP	Freshwater Fish Chronic	Not specified	4.000000e-06	
82657-04-3	OPP	Freshwater Fish Acute	Not specified	7.500000e-05	
82657-04-3	OPP	Freshwater Nonvascular Plant	Not specified	2.900000e-01	22
82657-04-3	OPP	Freshwater Vascular Plant	Not specified	3.300000e-01	22

Benchmark Values for Biphenthrin in Surface Water (Fresh Water)

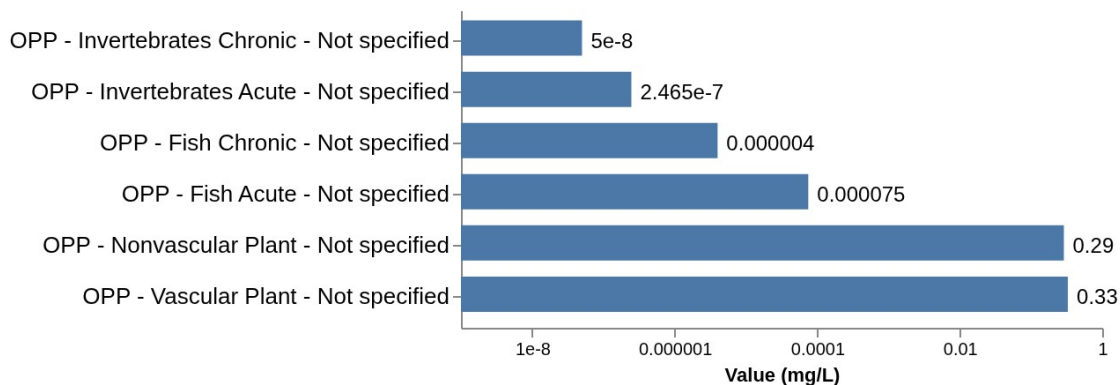


Table 114: Benchmark Values for Biphenyl, 1,1'- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
92-52-4	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0140
92-52-4	EPA Region 3	BTAG - Freshwater	Not specified	0.0140
92-52-4	EPA Region 4	Chronic Freshwater	Not specified	0.0065
92-52-4	EPA Region 4	Acute Freshwater	Not specified	0.0260
92-52-4	EPA Region 6	Freshwater Chronic	Not specified	0.0140

Benchmark Values for Biphenyl, 1,1'- in Surface Water (Fresh Water)

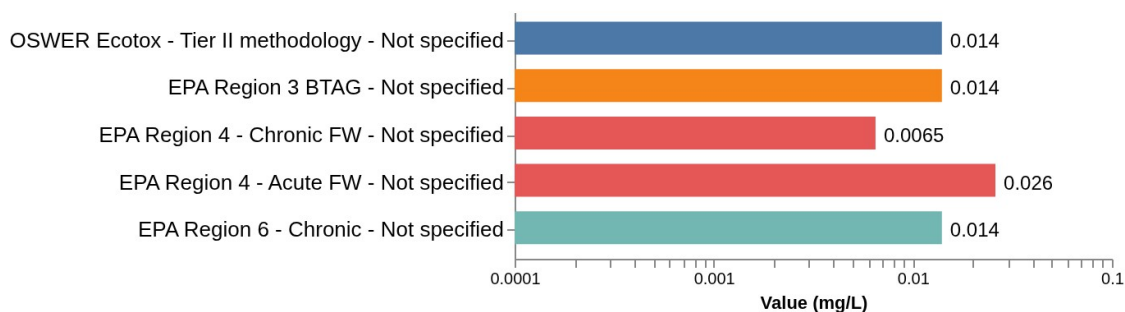


Table 115: Benchmark Values for Bis(2-chloro-1-methylethyl) ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-60-1	California	Freshwater chronic toxicity	Not specified	0.122
108-60-1	California	Freshwater acute toxicity	Not specified	238.000
108-60-1	EPA Region 6	Freshwater Chronic	Not specified	6.308
108-60-1	EPA Region 6	Freshwater Acute	Not specified	37.847

Benchmark Values for Bis(2-chloro-1-methylethyl) ether in Surface Water (Fresh Water)

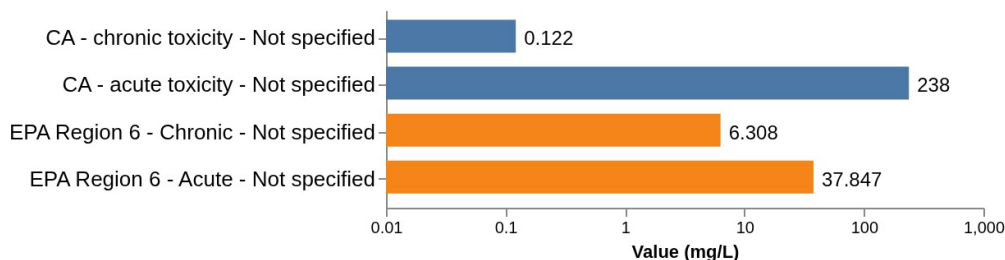


Table 116: Benchmark Values for Bis(2-chloroethyl)ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
111-44-4	California	Freshwater chronic toxicity	Not specified	0.122
111-44-4	California	Freshwater acute toxicity	Not specified	238.000
111-44-4	EPA Region 6	Freshwater Chronic	Not specified	12.000
111-44-4	EPA Region 6	Freshwater Acute	Not specified	72.000

Benchmark Values for Bis(2-chloroethyl)ether in Surface Water (Fresh Water)

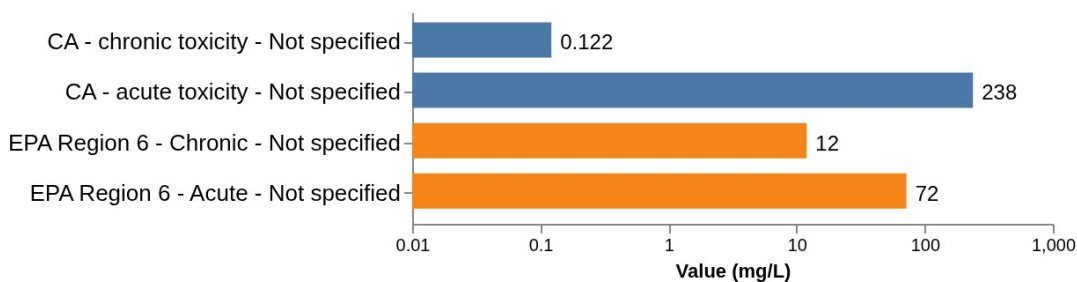


Table 117: Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117-81-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.001	83, 101
117-81-7	Canada	Freshwater Long Term	Not specified	0.016	
117-81-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.032	
117-81-7	EPA Region 3	BTAG – Freshwater	Not specified	0.016	
117-81-7	EPA Region 4	Chronic Freshwater	Not specified	0.008	7
117-81-7	EPA Region 4	Acute Freshwater	Not specified	1.100	7
117-81-7	EPA Region 6	Freshwater Chronic	Not specified	0.020	
117-81-7	EPA Region 6	Freshwater Acute	Not specified	0.060	

Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water (Fresh Water)

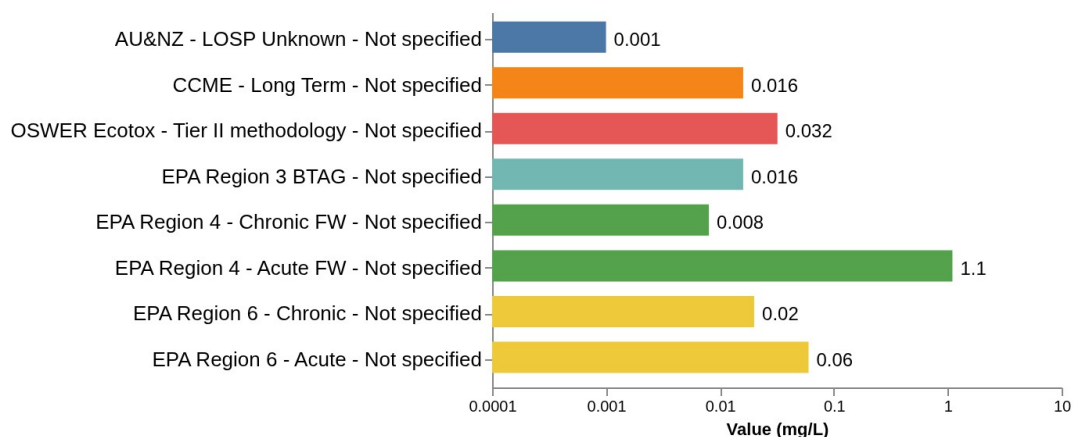


Table 118: Benchmark Values for Bis(chloromethyl)ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
542-88-1	California	Freshwater chronic toxicity	Not specified	0.122
542-88-1	California	Freshwater acute toxicity	Not specified	238.000

Benchmark Values for Bis(chloromethyl)ether in Surface Water (Fresh Water)

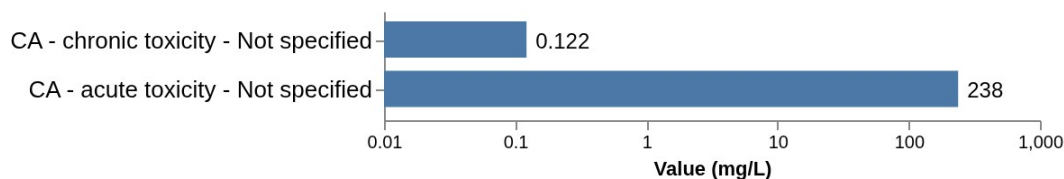


Table 119: Benchmark Values for Bis(diethylthiocarbamyl)disulfide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
97-77-8	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.001	83

Benchmark Values for Bis(diethylthiocarbamyl)disulfide in Surface Water (Fresh Water)

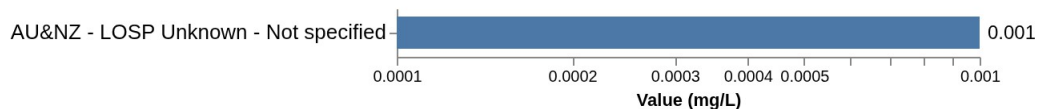


Table 120: Benchmark Values for Bis(dimethylthiocarbamyl)sulfide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
97-74-5	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.1	83

Benchmark Values for Bis(dimethylthiocarbamyl)sulfide in Surface Water (Fresh Water)

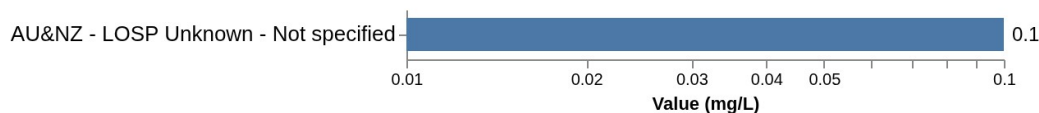


Table 121: Benchmark Values for Bisphenol A in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
80-05-7	ECC Canada	Freshwater LTC	Not specified	0.0009

Benchmark Values for Bisphenol A in Surface Water (Fresh Water)

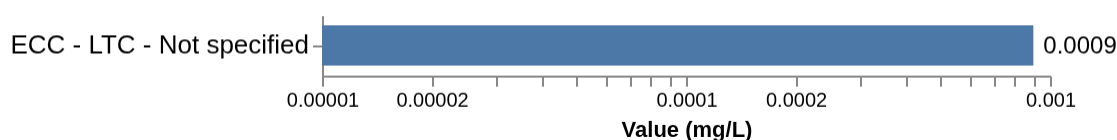


Table 122: Benchmark Values for Bispyrabac Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
125401-92-5	OPP	Freshwater Vascular Plant	Not specified	0.012	
125401-92-5	OPP	Freshwater Nonvascular Plant	Not specified	0.250	
125401-92-5	OPP	Freshwater Fish Chronic	Not specified	9.200	
125401-92-5	OPP	Freshwater Invertebrates Acute	Not specified	49.600	22
125401-92-5	OPP	Freshwater Fish Acute	Not specified	51.000	22

Benchmark Values for Bispyrabac Sodium in Surface Water (Fresh Water)

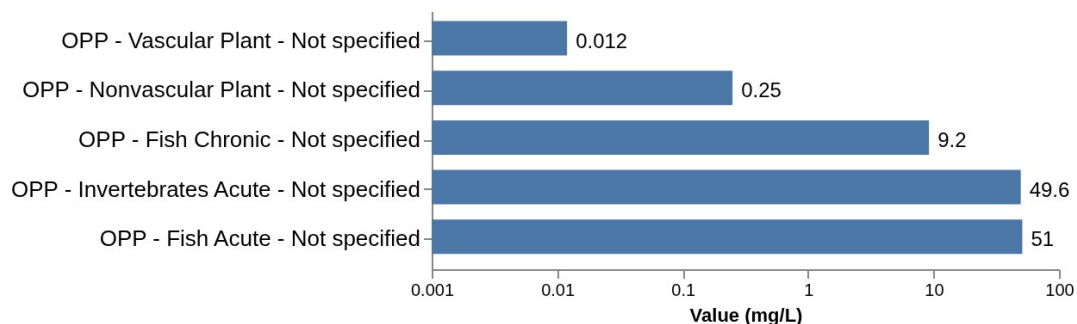


Table 123: Benchmark Values for Bixafen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
581809-46-3	OPP	Freshwater Fish Chronic	Not specified	0.00460	
581809-46-3	OPP	Freshwater Nonvascular Plant	Not specified	0.01594	
581809-46-3	OPP	Freshwater Fish Acute	Not specified	0.03700	
581809-46-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.05350	
581809-46-3	OPP	Freshwater Vascular Plant	Not specified	0.41000	22
581809-46-3	OPP	Freshwater Invertebrates Acute	Not specified	0.55000	

Benchmark Values for Bixafen in Surface Water (Fresh Water)

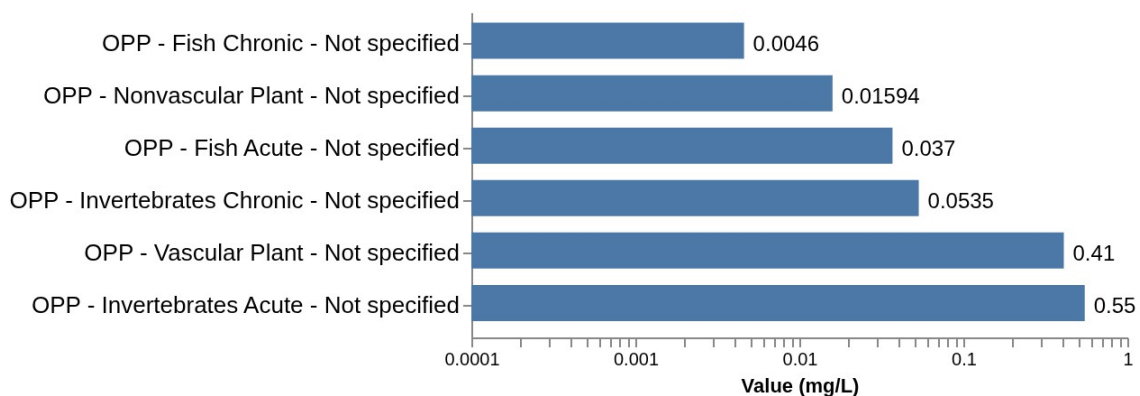


Table 124: Benchmark Values for Boric Acid Salts in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-6	OPP	Freshwater Invertebrates Acute	Not specified	66.5	
000000-34-6	OPP	Freshwater Fish Acute	Not specified	400.0	22

Benchmark Values for Boric Acid Salts in Surface Water (Fresh Water)

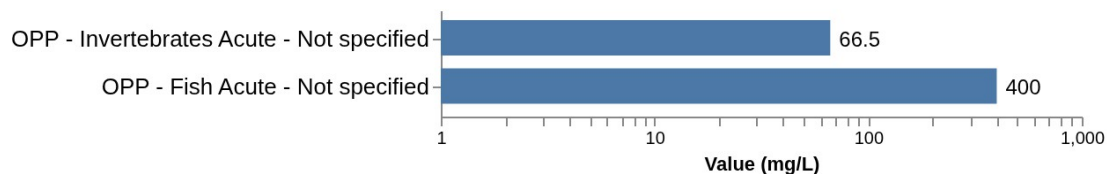


Table 125: Benchmark Values for Boric Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
10043-35-3	OPP	Freshwater Invertebrates Chronic	Not specified	8.9
10043-35-3	OPP	Freshwater Fish Chronic	Not specified	42.0
10043-35-3	OPP	Freshwater Nonvascular Plant	Not specified	81.3
10043-35-3	OPP	Freshwater Invertebrates Acute	Not specified	130.0
10043-35-3	OPP	Freshwater Vascular Plant	Not specified	163.0
10043-35-3	OPP	Freshwater Fish Acute	Not specified	202.0

Benchmark Values for Boric Acid in Surface Water (Fresh Water)

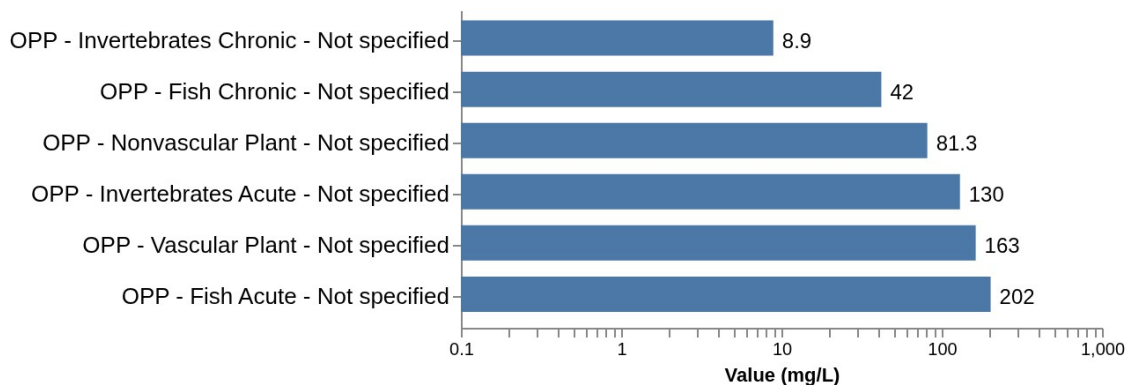


Table 126: Benchmark Values for Boron And Borates Only in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-42-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.3400	85, 103
7440-42-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.9400	85, 89, 103
7440-42-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.5000	85, 103
7440-42-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.5000	85, 103
7440-42-8	British Columbia	Freshwater LTC	Not specified	1.2000	
7440-42-8	Canada	Freshwater Long Term	Not specified	1.5000	
7440-42-8	Canada	Freshwater Short Term	Not specified	29.0000	
7440-42-8	EPA Region 3	BTAG – Freshwater	Not specified	0.0016	
7440-42-8	EPA Region 4	Chronic Freshwater	Not specified	7.2000	
7440-42-8	EPA Region 4	Acute Freshwater	Not specified	34.0000	
7440-42-8	EPA Region 6	Freshwater Chronic	Not specified	1.1000	
7440-42-8	EPA Region 6	Freshwater Acute	Not specified	20.2000	

Benchmark Values for Boron And Borates Only in Surface Water (Fresh Water)

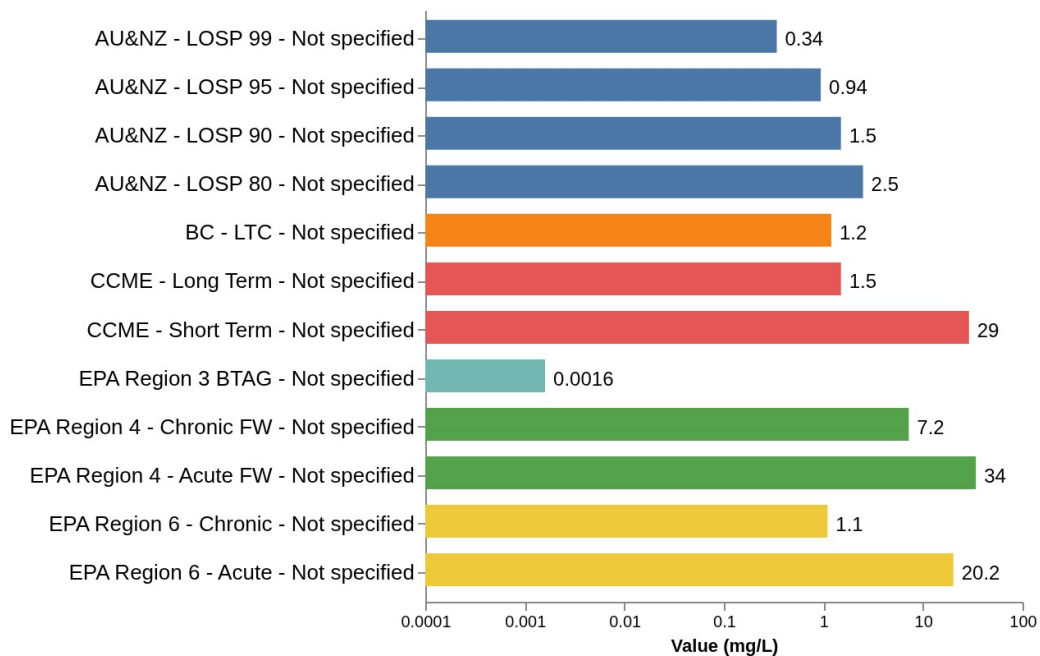


Table 127: Benchmark Values for Boscalid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
188425-85-6	OPP	Freshwater Fish Chronic	Not specified	0.116	
188425-85-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.790	
188425-85-6	OPP	Freshwater Nonvascular Plant	Not specified	1.340	
188425-85-6	OPP	Freshwater Fish Acute	Not specified	1.350	
188425-85-6	OPP	Freshwater Invertebrates Acute	Not specified	2.665	23
188425-85-6	OPP	Freshwater Vascular Plant	Not specified	3.900	22

Benchmark Values for Boscalid in Surface Water (Fresh Water)

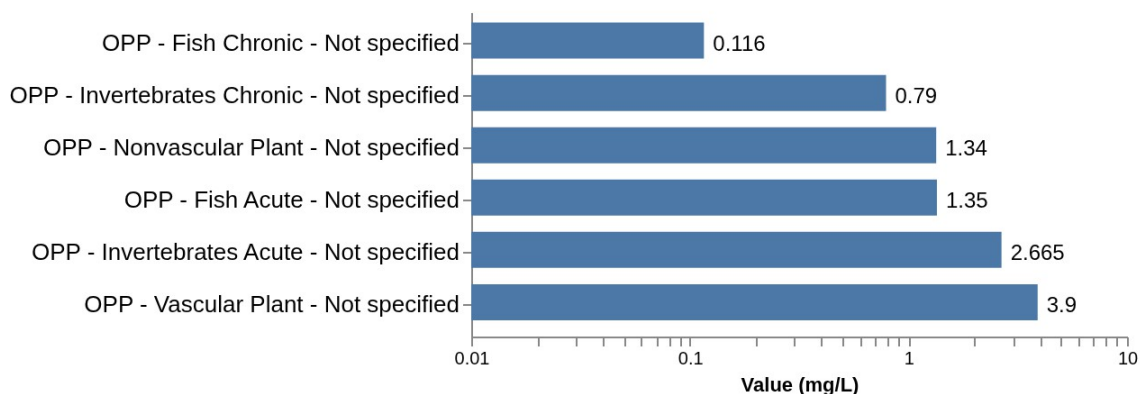


Table 128: Benchmark Values for Broflanilide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
207727-04-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00593	
207727-04-5	OPP	Freshwater Fish Chronic	Not specified	0.05100	
207727-04-5	OPP	Freshwater Fish Acute	Not specified	0.12550	
207727-04-5	OPP	Freshwater Invertebrates Acute	Not specified	0.16100	22
207727-04-5	OPP	Freshwater Nonvascular Plant	Not specified	0.57000	
207727-04-5	OPP	Freshwater Vascular Plant	Not specified	0.63000	22

Benchmark Values for Broflanilide in Surface Water (Fresh Water)

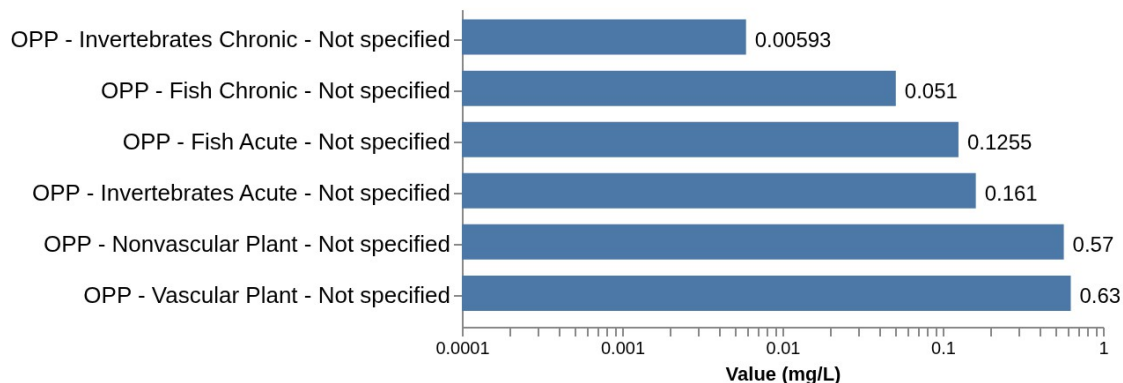


Table 129: Benchmark Values for Bromacil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
314-40-9	Canada	Freshwater Long Term	Not specified	0.0050
314-40-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0068
314-40-9	OPP	Freshwater Vascular Plant	Not specified	0.0450
314-40-9	OPP	Freshwater Fish Chronic	Not specified	3.0000
314-40-9	OPP	Freshwater Invertebrates Chronic	Not specified	8.2000
314-40-9	OPP	Freshwater Fish Acute	Not specified	18.0000
314-40-9	OPP	Freshwater Invertebrates Acute	Not specified	60.5000

Benchmark Values for Bromacil in Surface Water (Fresh Water)

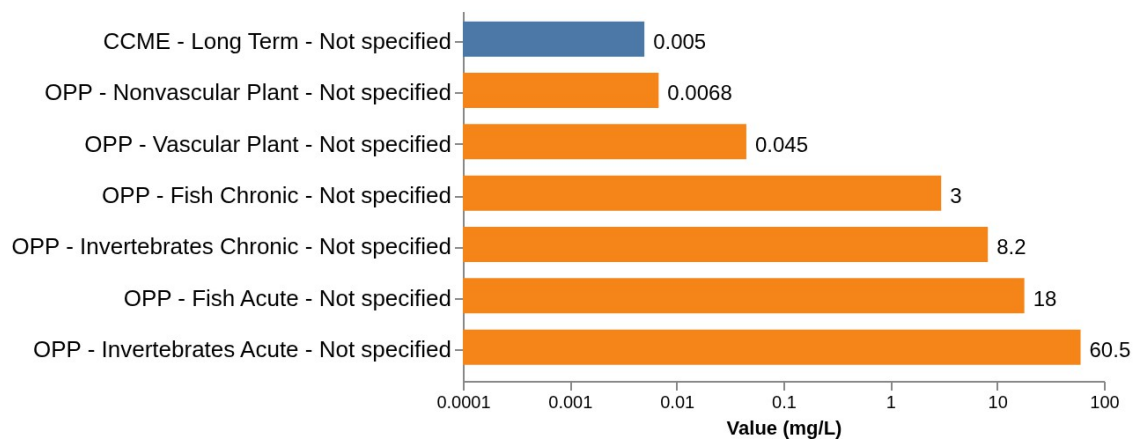


Table 130: Benchmark Values for Bromochloromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-97-5	California	Freshwater acute toxicity	Not specified	11

Benchmark Values for Bromochloromethane in Surface Water (Fresh Water)

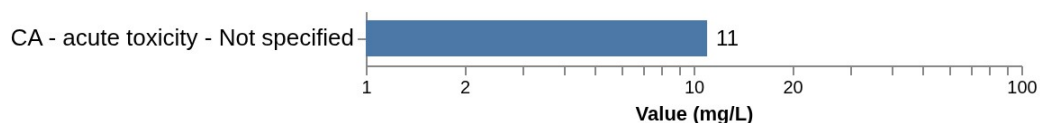


Table 131: Benchmark Values for Bromodichloromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-27-4	California	Freshwater acute toxicity	Not specified	11.000
75-27-4	EPA Region 4	Chronic Freshwater	Not specified	0.340
75-27-4	EPA Region 4	Acute Freshwater	Not specified	3.100
75-27-4	EPA Region 6	Freshwater Chronic	Not specified	2.160
75-27-4	EPA Region 6	Freshwater Acute	Not specified	12.962
75-27-4	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.022

Benchmark Values for Bromodichloromethane in Surface Water (Fresh Water)

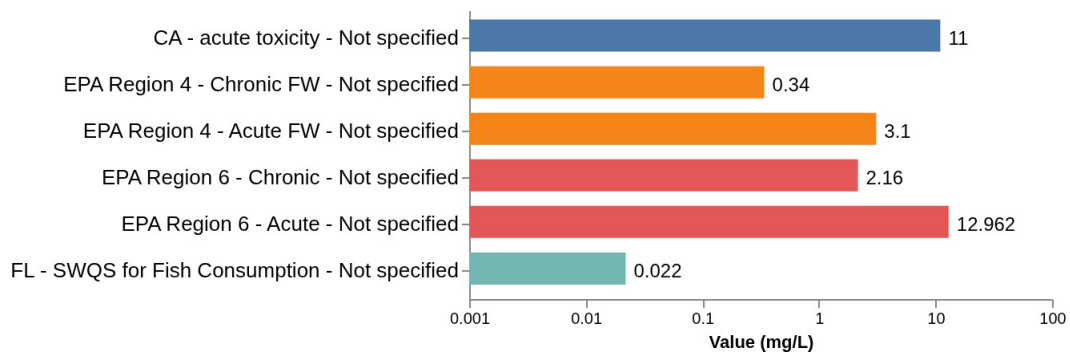


Table 132: Benchmark Values for Bromodiphenyl Ether, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
101-55-3	California	Freshwater chronic toxicity	Not specified	0.1220
101-55-3	California	Freshwater acute toxicity	Not specified	0.3600
101-55-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0015
101-55-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0015
101-55-3	EPA Region 4	Chronic Freshwater	Not specified	0.0015
101-55-3	EPA Region 4	Acute Freshwater	Not specified	0.0120
101-55-3	EPA Region 6	Freshwater Chronic	Not specified	0.0015

Benchmark Values for Bromodiphenyl Ether, p- in Surface Water (Fresh Water)

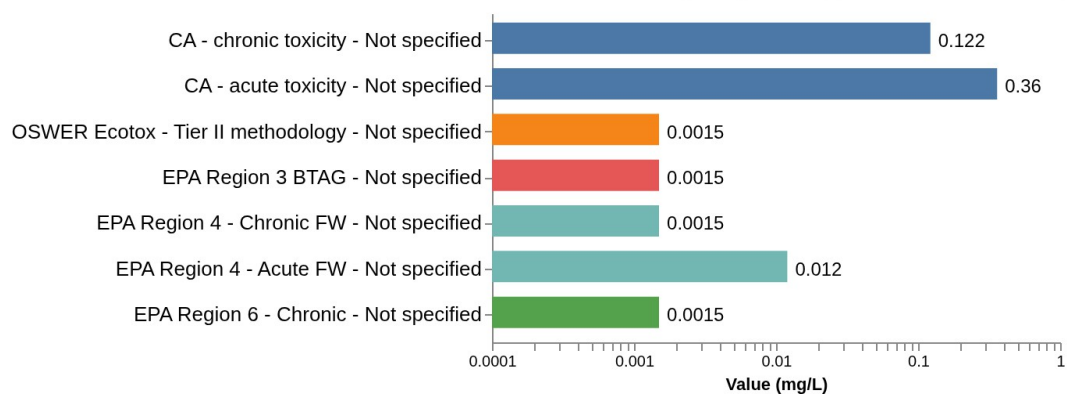


Table 133: Benchmark Values for Bromoform in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-25-2	California	Freshwater acute toxicity	Not specified	11.000
75-25-2	EPA OSWER	Freshwater Tier II methodology	Not specified	0.320
75-25-2	EPA Region 3	BTAG – Freshwater	Not specified	0.320
75-25-2	EPA Region 4	Chronic Freshwater	Not specified	0.230
75-25-2	EPA Region 4	Acute Freshwater	Not specified	1.100
75-25-2	EPA Region 6	Freshwater Chronic	Not specified	0.149
75-25-2	EPA Region 6	Freshwater Acute	Not specified	0.897
75-25-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.360

Benchmark Values for Bromoform in Surface Water (Fresh Water)

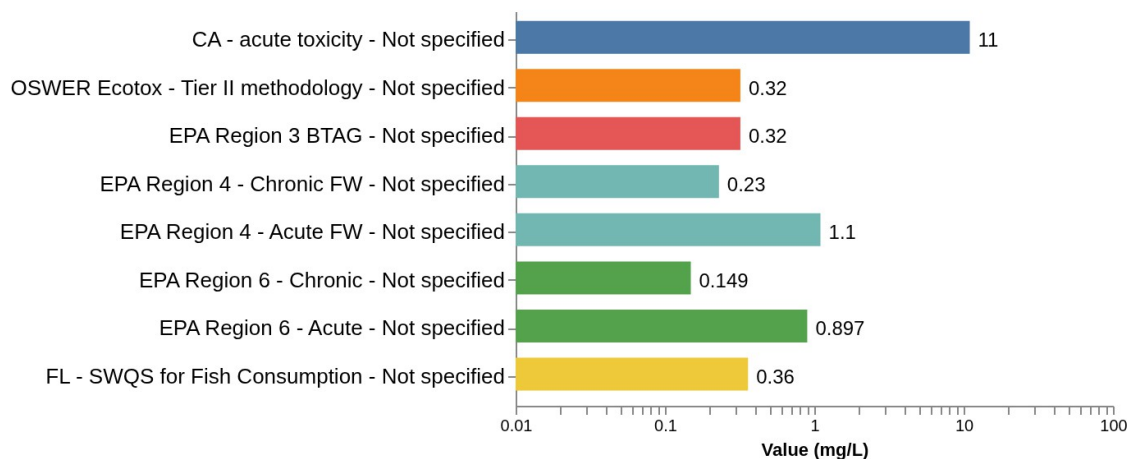


Table 134: Benchmark Values for Bromomethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-83-9	California	Freshwater acute toxicity	Not specified	11.000
74-83-9	EPA Region 4	Chronic Freshwater	Not specified	0.016
74-83-9	EPA Region 4	Acute Freshwater	Not specified	0.038
74-83-9	EPA Region 6	Freshwater Chronic	Not specified	0.110
74-83-9	EPA Region 6	Freshwater Acute	Not specified	0.660
74-83-9	OPP	Freshwater Invertebrates Acute	Not specified	1.300
74-83-9	OPP	Freshwater Fish Acute	Not specified	1.950
74-83-9	OPP	Freshwater Nonvascular Plant	Not specified	2.200

Benchmark Values for Bromomethane in Surface Water (Fresh Water)

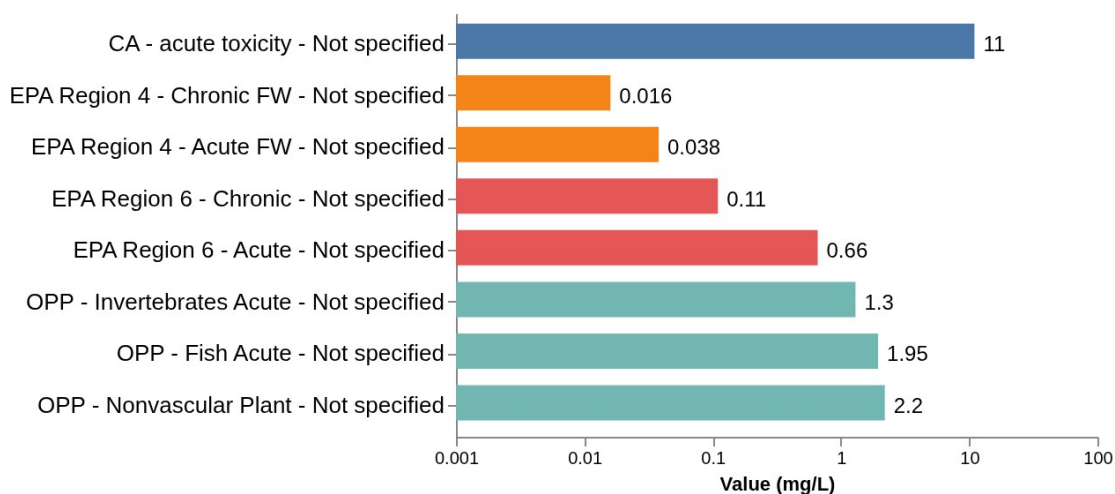


Table 135: Benchmark Values for Bromoxynil heptanoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
56634-95-8	OPP	Freshwater Fish Acute	Not specified	0.0145
56634-95-8	OPP	Freshwater Invertebrates Acute	Not specified	0.0155
56634-95-8	OPP	Freshwater Vascular Plant	Not specified	0.2190

Benchmark Values for Bromoxynil heptanoate in Surface Water (Fresh Water)

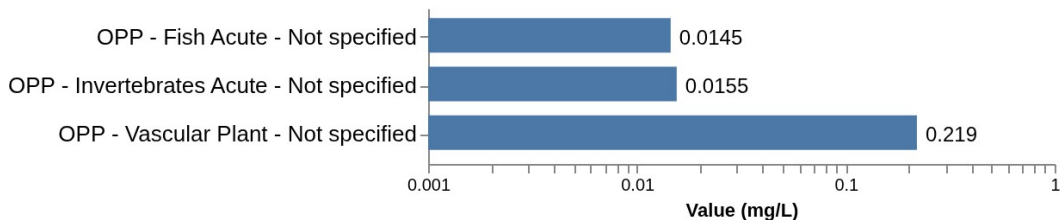


Table 136: Benchmark Values for Bromoxynil Octanoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1689-99-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0025
1689-99-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0055
1689-99-2	OPP	Freshwater Fish Chronic	Not specified	0.0180
1689-99-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0510

Benchmark Values for Bromoxynil Octanoate in Surface Water (Fresh Water)

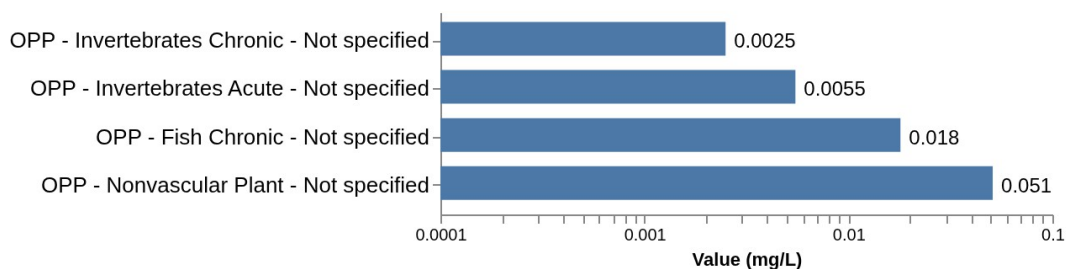


Table 137: Benchmark Values for Bromoxynil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1689-84-5	Canada	Freshwater Long Term	Not specified	0.005
1689-84-5	OPP	Freshwater Fish Acute	Not specified	1.050
1689-84-5	OPP	Freshwater Invertebrates Acute	Not specified	7.955

Benchmark Values for Bromoxynil in Surface Water (Fresh Water)

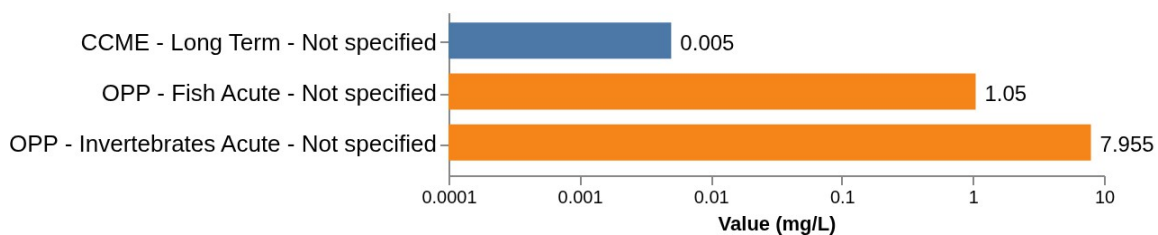


Table 138: Benchmark Values for Bromuconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
116255-48-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0200
116255-48-2	OPP	Freshwater Fish Chronic	Not specified	0.0340
116255-48-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0425
116255-48-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0530
116255-48-2	OPP	Freshwater Vascular Plant	Not specified	0.1600
116255-48-2	OPP	Freshwater Fish Acute	Not specified	0.8500

Benchmark Values for Bromuconazole in Surface Water (Fresh Water)

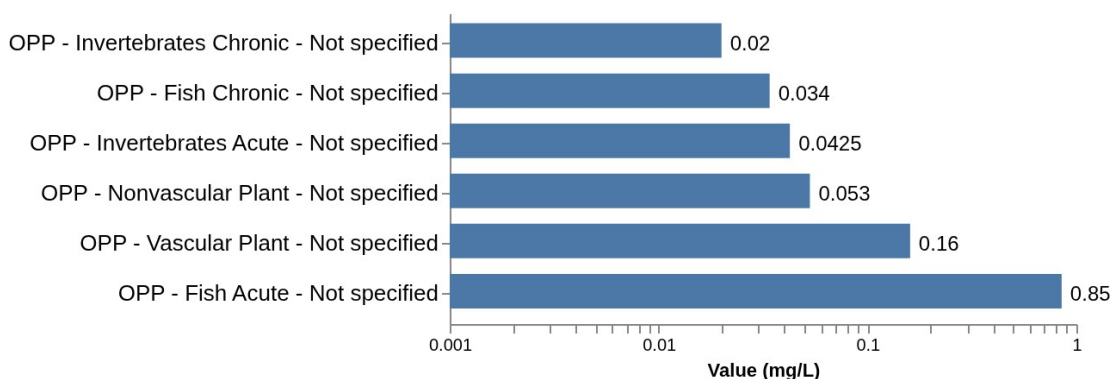


Table 139: Benchmark Values for Butanoic acid, 4-(2,4-dichlorophenoxy)- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
94-82-6	OPP	Freshwater Vascular Plant	Not specified	0.083
94-82-6	OPP	Freshwater Nonvascular Plant	Not specified	0.932
94-82-6	OPP	Freshwater Invertebrates Chronic	Not specified	1.500
94-82-6	OPP	Freshwater Fish Chronic	Not specified	1.660
94-82-6	OPP	Freshwater Fish Acute	Not specified	7.150
94-82-6	OPP	Freshwater Invertebrates Acute	Not specified	12.500

Benchmark Values for Butanoic acid, 4-(2,4-dichlorophenoxy)- in Surface Water (Fresh Water)

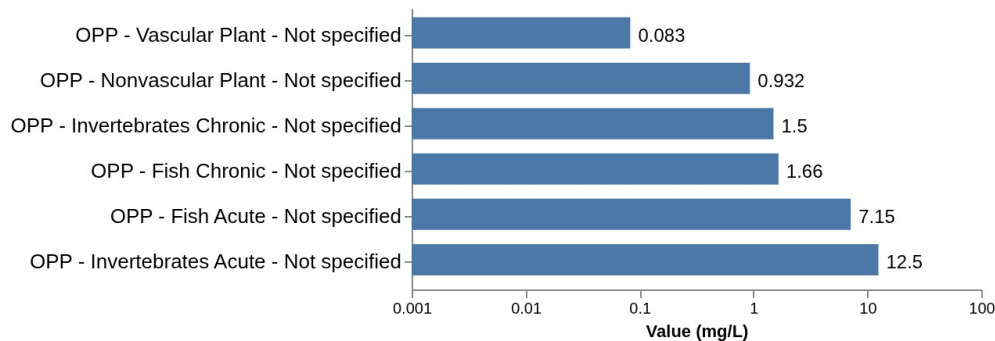


Table 140: Benchmark Values for Butyl Benzyl Phthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
85-68-7	California	Freshwater chronic toxicity	Not specified	0.003
85-68-7	California	Freshwater acute toxicity	Not specified	0.940
85-68-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.019
85-68-7	EPA Region 3	BTAG – Freshwater	Not specified	0.019
85-68-7	EPA Region 4	Chronic Freshwater	Not specified	0.023
85-68-7	EPA Region 4	Acute Freshwater	Not specified	0.130
85-68-7	EPA Region 6	Freshwater Chronic	Not specified	0.093
85-68-7	EPA Region 6	Freshwater Acute	Not specified	0.560

Benchmark Values for Butyl Benzyl Phthalate in Surface Water (Fresh Water)

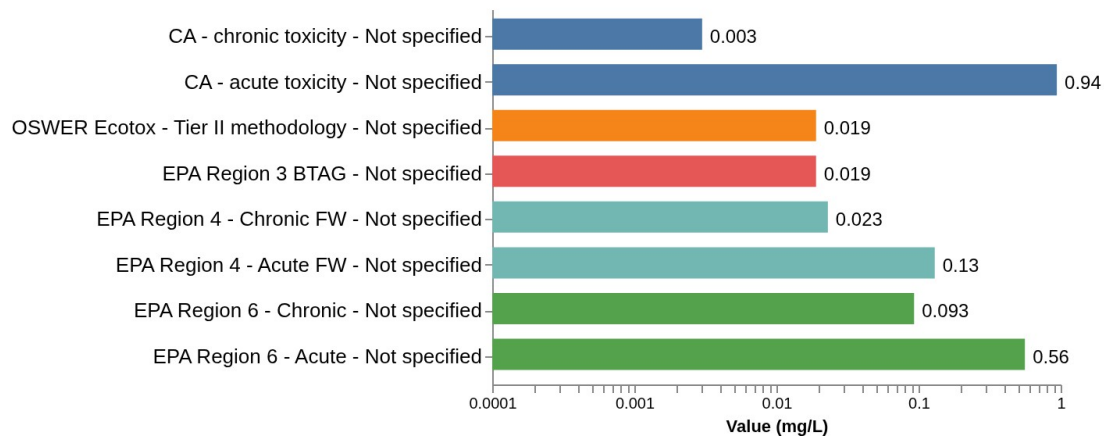


Table 141: Benchmark Values for Butylate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2008-41-5	OPP	Freshwater Fish Acute	Not specified	0.105
2008-41-5	OPP	Freshwater Fish Chronic	Not specified	0.300
2008-41-5	OPP	Freshwater Vascular Plant	Not specified	4.600
2008-41-5	OPP	Freshwater Invertebrates Acute	Not specified	5.500

Benchmark Values for Butylate in Surface Water (Fresh Water)

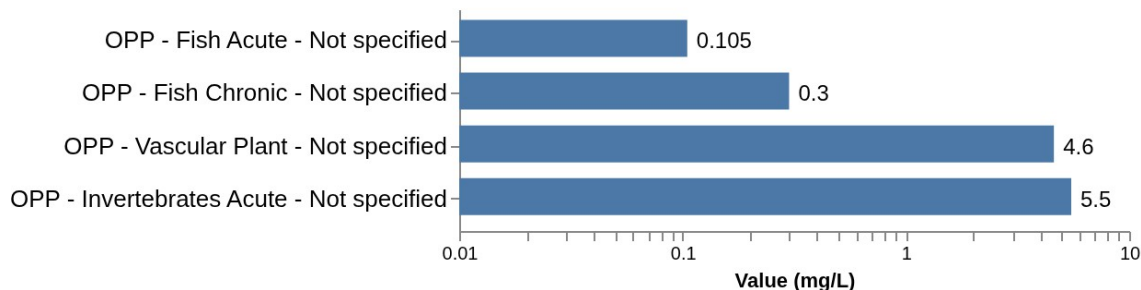


Table 142: Benchmark Values for Butylbenzene, n- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
104-51-8	EPA Region 6	Freshwater Chronic	Not specified	0.036	
104-51-8	EPA Region 6	Freshwater Acute	Not specified	0.213	

Benchmark Values for Butylbenzene, n- in Surface Water (Fresh Water)

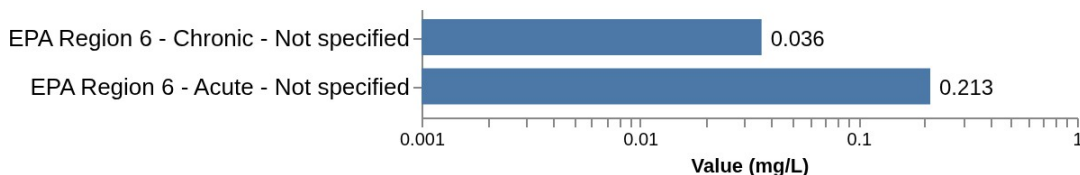


Table 143: Benchmark Values for Butylbenzene, sec- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
135-98-8	EPA Region 6	Freshwater Chronic	Not specified	0.041
135-98-8	EPA Region 6	Freshwater Acute	Not specified	0.246

Benchmark Values for Butylbenzene, sec- in Surface Water (Fresh Water)

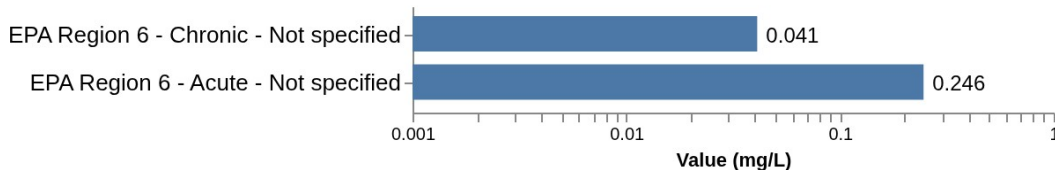


Table 144: Benchmark Values for Butylbenzene, tert- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
98-06-6	EPA Region 6	Freshwater Chronic	Not specified	0.048
98-06-6	EPA Region 6	Freshwater Acute	Not specified	0.289

Benchmark Values for Butylbenzene, tert- in Surface Water (Fresh Water)

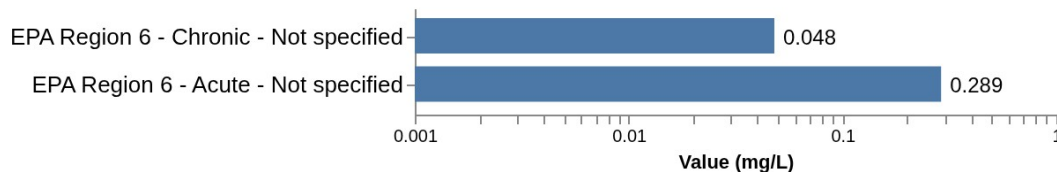


Table 145: Benchmark Values for Butylphthalyl Butylglycolate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
85-70-1	California	Freshwater chronic toxicity	Not specified	0.003
85-70-1	California	Freshwater acute toxicity	Not specified	0.940

Benchmark Values for Butylphthalyl Butylglycolate in Surface Water (Fresh Water)

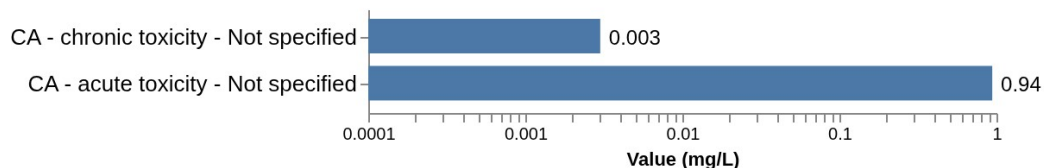


Table 146: Benchmark Values for Cacodylic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-60-5	OPP	Freshwater Fish Acute	Not specified	8.50
75-60-5	OPP	Freshwater Invertebrates Acute	Not specified	9.05
75-60-5	OPP	Freshwater Vascular Plant	Not specified	30.90

Benchmark Values for Cacodylic Acid in Surface Water (Fresh Water)

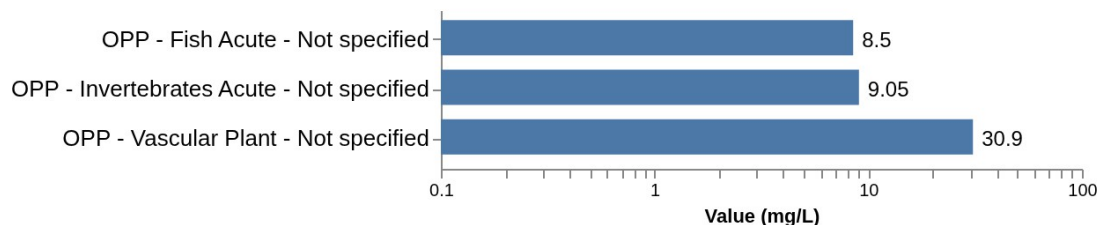


Table 147: Benchmark Values for Cadmium (Diet) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-43-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	6e-05	85, 104
7440-43-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0002	85, 89, 104
7440-43-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0004	85, 104
7440-43-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0008	85, 94, 104
7440-43-9	British Columbia	Freshwater LTC	Not specified	1.76e-05	125
7440-43-9	British Columbia	Freshwater STA	Not specified	3.8e-05	114
7440-43-9	Canada	Freshwater Long Term	Not specified		58
7440-43-9	Canada	Freshwater Short Term	Not specified		55
7440-43-9	Delaware	Freshwater Acute Criterion	Not specified		236, 241
7440-43-9	Delaware	Freshwater Chronic Criterion	Not specified		236, 242
7440-43-9	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00072	
7440-43-9	EPA NRWQC	Freshwater CMC Acute	Not specified	0.0018	
7440-43-9	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.001	157
7440-43-9	EPA Region 3	BTAG – Freshwater	Not specified	0.00025	
7440-43-9	EPA Region 4	Chronic Freshwater	Not specified	0.00045	1, 2
7440-43-9	EPA Region 4	Acute Freshwater	Not specified	0.00094	1, 2
7440-43-9	EPA Region 6	Freshwater Chronic	Not specified	0.00015	21
7440-43-9	EPA Region 6	Freshwater Acute	Not specified	0.0044	21
7440-43-9	New Jersey	Freshwater Chronic	Not specified	0.000176	202
7440-43-9	New Jersey	Freshwater Acute	Not specified	0.001389	202

Benchmark Values for Cadmium (Diet) in Surface Water (Fresh Water)

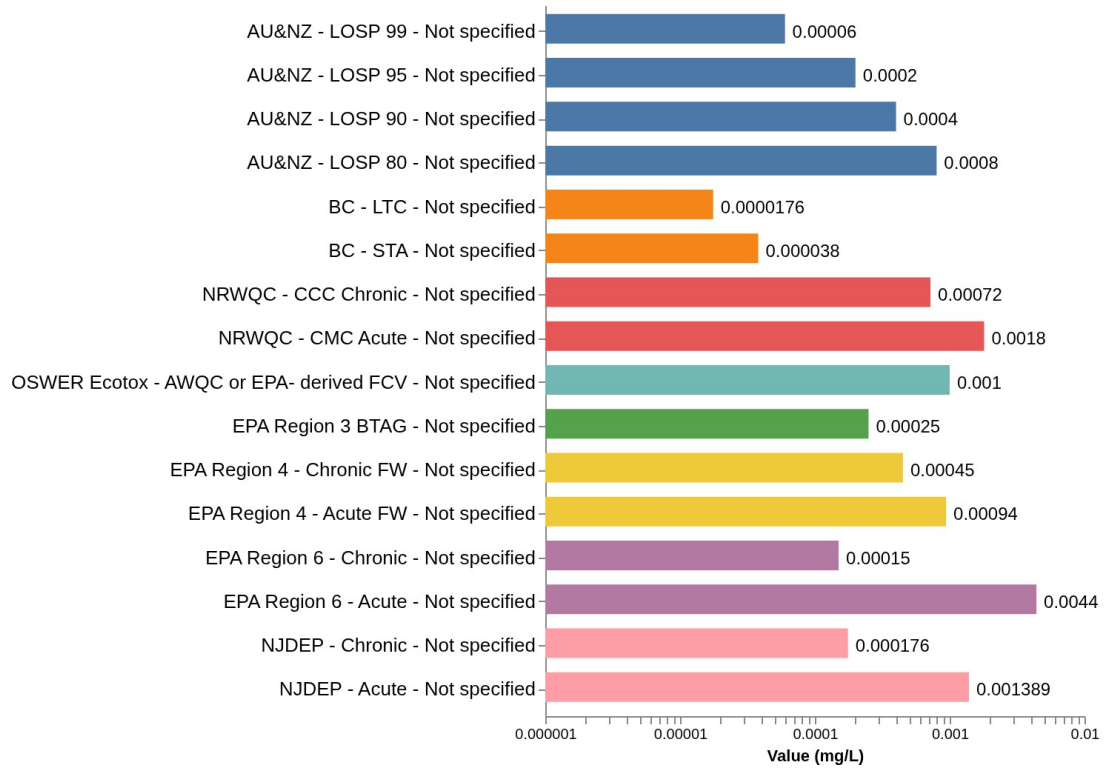


Table 148: Benchmark Values for Calcium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-70-2	EPA Region 3	BTAG – Freshwater	Not specified	116
7440-70-2	EPA Region 4	Chronic Freshwater	Not specified	116

Benchmark Values for Calcium in Surface Water (Fresh Water)

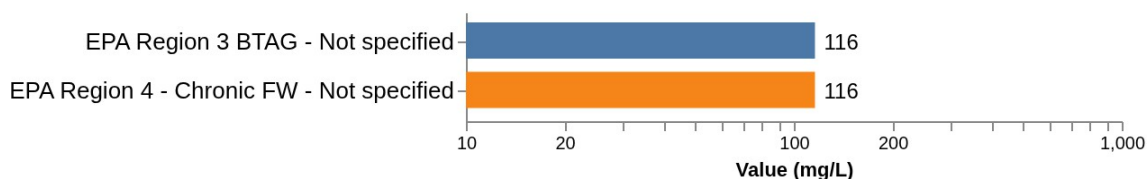


Table 149: Benchmark Values for Captan degradate (1,2,3,6-Tetrahydrophthalimide) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1469-48-3	OPP	Freshwater Invertebrates Acute	Not specified	56.5	22
1469-48-3	OPP	Freshwater Fish Acute	Not specified	60.0	22
1469-48-3	OPP	Freshwater Nonvascular Plant	Not specified	181.0	22

Benchmark Values for Captan degradate (1,2,3,6-Tetrahydrophthalimide) in Surface Water (Fresh Water)

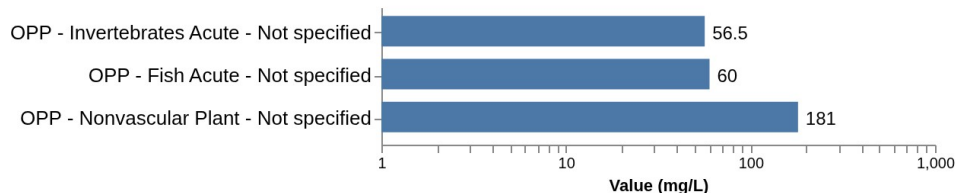


Table 150: Benchmark Values for Captan degradate (tetrahydrophthalimic acid) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-34-7	OPP	Freshwater Fish Acute	Not specified	63	22

Benchmark Values for Captan degradate (tetrahydrophthalimic acid) in Surface Water (Fresh Water)

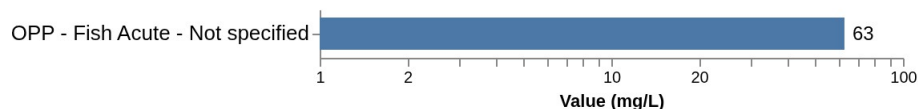


Table 151: Benchmark Values for Captan in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
133-06-2	EPA Region 4	Acute Freshwater	Not specified	0.0130	
133-06-2	EPA Region 4	Chronic Freshwater	Not specified	0.0165	
133-06-2	OPP	Freshwater Fish Acute	Not specified	0.0131	
133-06-2	OPP	Freshwater Fish Chronic	Not specified	0.0165	
133-06-2	OPP	Freshwater Nonvascular Plant	Not specified	0.3200	
133-06-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.5600	
133-06-2	OPP	Freshwater Invertebrates Acute	Not specified	4.2000	
133-06-2	OPP	Freshwater Vascular Plant	Not specified	12.7000	22

Benchmark Values for Captan in Surface Water (Fresh Water)

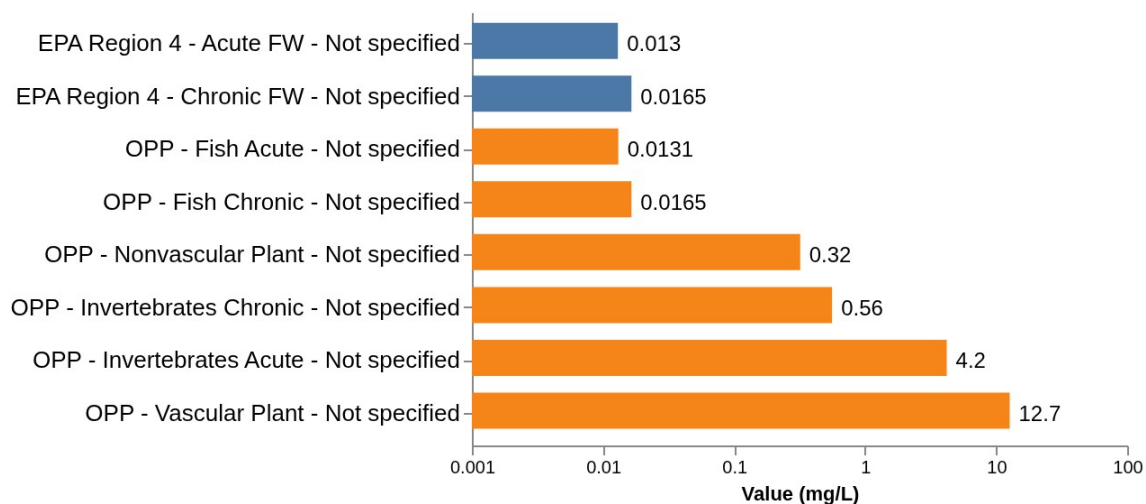


Table 152: Benchmark Values for Carbamazepine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
298-46-4	Canada	Freshwater Long Term	Not specified	0.01

Benchmark Values for Carbamazepine in Surface Water (Fresh Water)

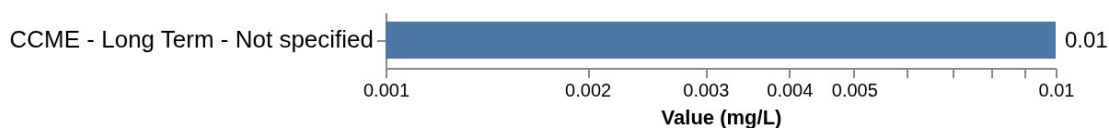


Table 153: Benchmark Values for Carbaryl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
63-25-2	California	Freshwater CCC, 4-day average	Not specified	0.00253
63-25-2	California	Freshwater CMC, 1-hour average	Not specified	0.00253
63-25-2	Canada	Freshwater Long Term	Not specified	0.00020
63-25-2	Canada	Freshwater Short Term	Not specified	0.00330
63-25-2	Delaware	Freshwater Chronic Criterion	Not specified	0.00210
63-25-2	Delaware	Freshwater Acute Criterion	Not specified	0.00210
63-25-2	EPA NRWQC	Freshwater CMC Acute	Not specified	0.00210
63-25-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00210
63-25-2	EPA Region 3	BTAG – Freshwater	Not specified	0.00020
63-25-2	EPA Region 4	Chronic Freshwater	Not specified	0.00020
63-25-2	EPA Region 4	Acute Freshwater	Not specified	0.00085
63-25-2	EPA Region 6	Freshwater Chronic	Not specified	0.00200
63-25-2	EPA Region 6	Freshwater Acute	Not specified	0.00200
63-25-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00210
63-25-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.00050
63-25-2	OPP	Freshwater Invertebrates Acute	Not specified	0.00085
63-25-2	OPP	Freshwater Chronic	Not specified	0.00210
63-25-2	OPP	Freshwater Acute	Not specified	0.00210
63-25-2	OPP	Freshwater Fish Chronic	Not specified	0.00600
63-25-2	OPP	Freshwater Fish Acute	Not specified	0.11000
63-25-2	OPP	Freshwater Nonvascular Plant	Not specified	0.66000

Benchmark Values for Carbaryl in Surface Water (Fresh Water)

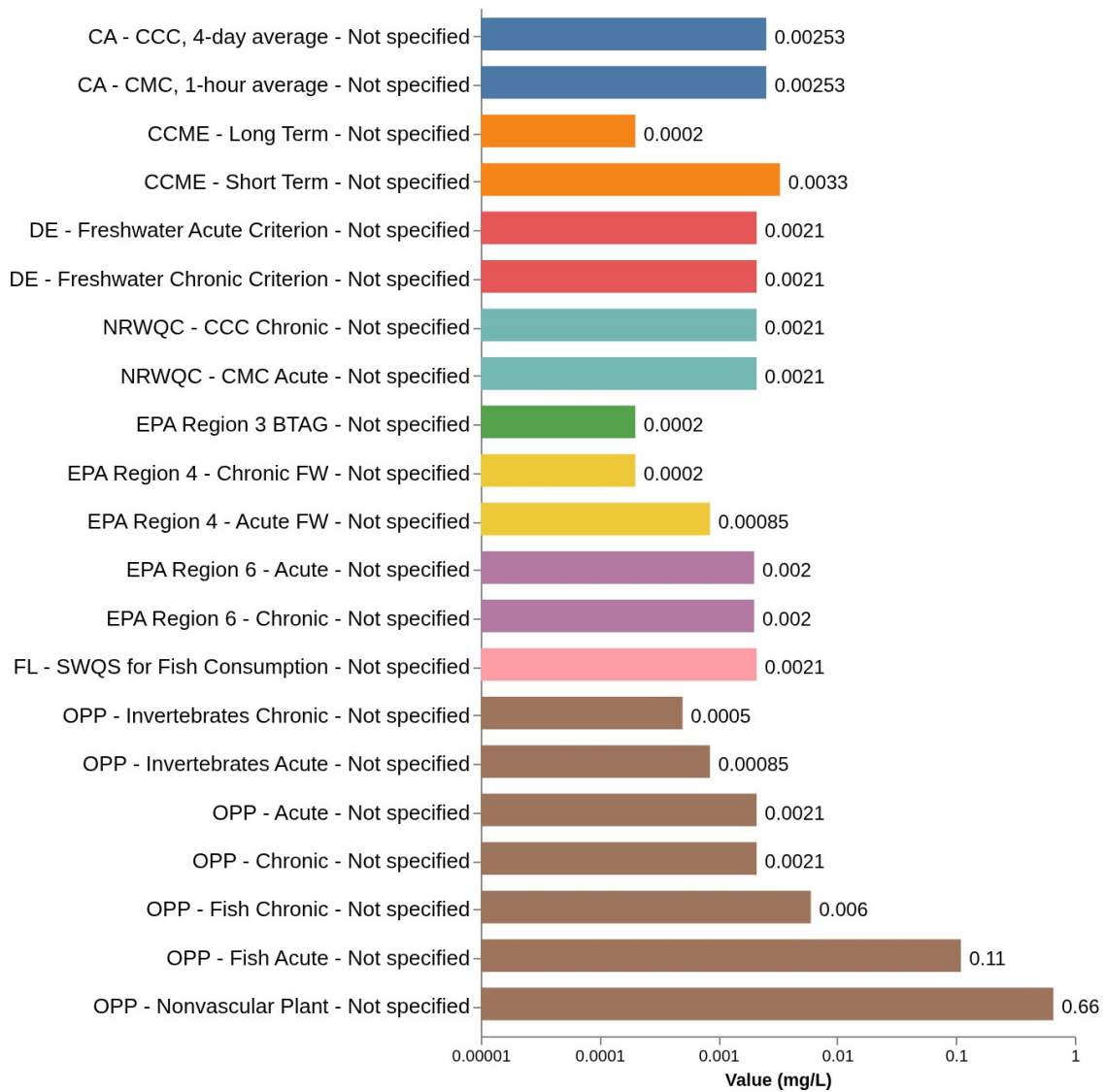


Table 154: Benchmark Values for Carbazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-74-8	EPA Region 4	Chronic Freshwater	Not specified	0.004
86-74-8	EPA Region 4	Acute Freshwater	Not specified	0.036

Benchmark Values for Carbazole in Surface Water (Fresh Water)

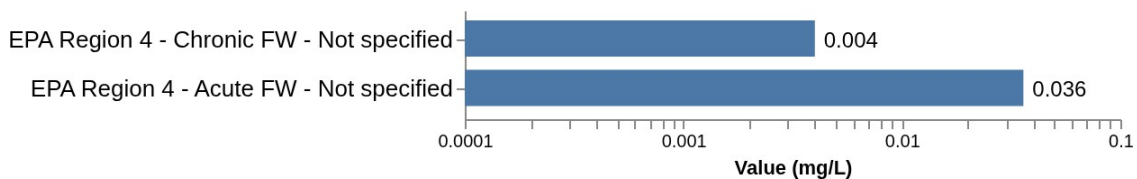


Table 155: Benchmark Values for Carbendazim in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
10605-21-7	OPP	Freshwater Fish Chronic	Not specified	0.00099	
10605-21-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00310	
10605-21-7	OPP	Freshwater Fish Acute	Not specified	0.00370	
10605-21-7	OPP	Freshwater Invertebrates Acute	Not specified	0.05500	
10605-21-7	OPP	Freshwater Nonvascular Plant	Not specified	4.58000	22

Benchmark Values for Carbendazim in Surface Water (Fresh Water)

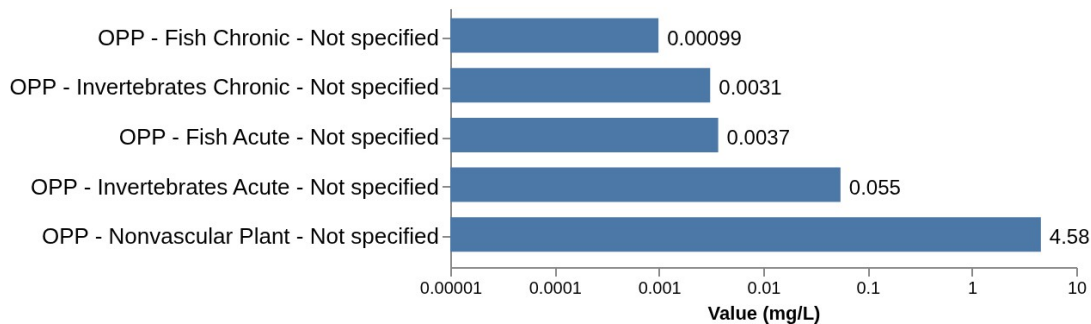


Table 156: Benchmark Values for Carbofuran in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1563-66-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000060	88, 89
1563-66-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.001200	88, 92
1563-66-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.004000	88
1563-66-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.015000	88, 92
1563-66-2	California	Freshwater instantaneous max	Not specified	0.000500	
1563-66-2	Canada	Freshwater Long Term	Not specified	0.001800	
1563-66-2	EPA Region 3	BTAG – Freshwater	Not specified	0.001800	
1563-66-2	EPA Region 4	Chronic Freshwater	Not specified	0.000750	
1563-66-2	EPA Region 4	Acute Freshwater	Not specified	0.001100	
1563-66-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.000750	
1563-66-2	OPP	Freshwater Invertebrates Acute	Not specified	0.001115	
1563-66-2	OPP	Freshwater Fish Chronic	Not specified	0.005700	
1563-66-2	OPP	Freshwater Fish Acute	Not specified	0.044000	

Benchmark Values for Carbofuran in Surface Water (Fresh Water)

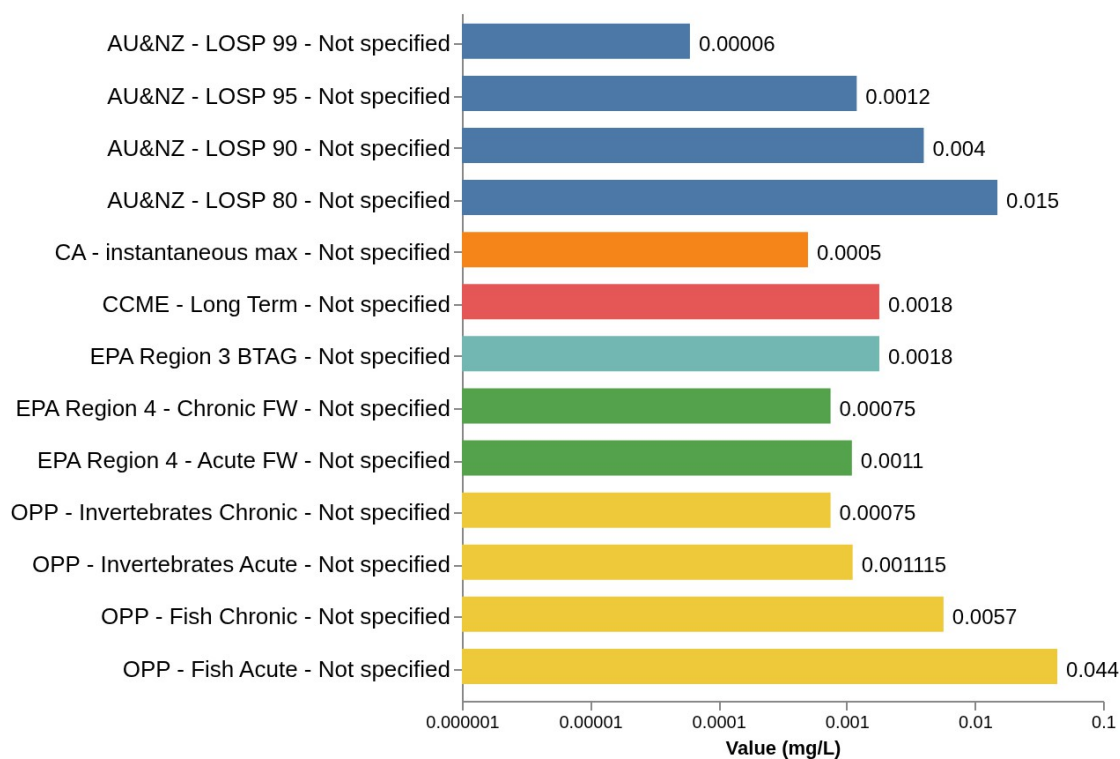


Table 157: Benchmark Values for Carbon Disulfide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-15-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.02000	83
75-15-0	EPA Region 3	BTAG – Freshwater	Not specified	0.00092	
75-15-0	EPA Region 4	Chronic Freshwater	Not specified	0.01500	
75-15-0	EPA Region 4	Acute Freshwater	Not specified	0.13000	
75-15-0	EPA Region 6	Freshwater Chronic	Not specified	0.10500	
75-15-0	EPA Region 6	Freshwater Acute	Not specified	0.70000	
75-15-0	OPP	Freshwater Invertebrates Acute	Not specified	0.43000	
75-15-0	OPP	Freshwater Fish Acute	Not specified	0.43500	
75-15-0	OPP	Freshwater Nonvascular Plant	Not specified	0.52000	

Benchmark Values for Carbon Disulfide in Surface Water (Fresh Water)

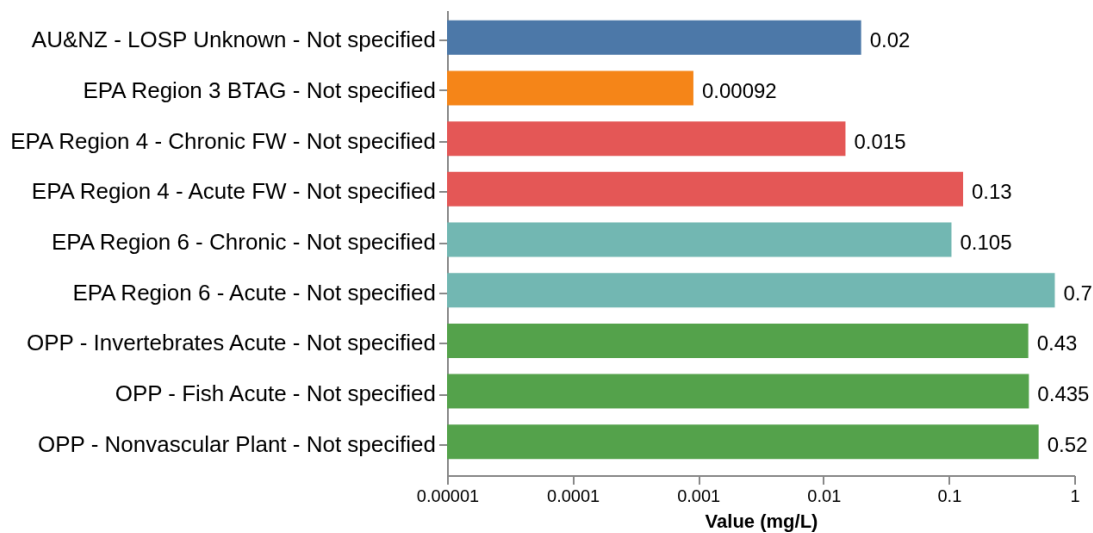


Table 158: Benchmark Values for Carbon Tetrachloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-23-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.15000	83
56-23-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.24000	83, 89
56-23-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.32000	83
56-23-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.46000	83
56-23-5	California	Freshwater acute toxicity	Not specified	35.20000	
56-23-5	Canada	Freshwater Long Term	Not specified	0.01330	
56-23-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.24000	
56-23-5	EPA Region 3	BTAG – Freshwater	Not specified	0.01330	
56-23-5	EPA Region 4	Chronic Freshwater	Not specified	0.07700	
56-23-5	EPA Region 4	Acute Freshwater	Not specified	0.69000	
56-23-5	EPA Region 6	Freshwater Chronic	Not specified	0.00980	
56-23-5	EPA Region 6	Freshwater Acute	Not specified	0.18000	
56-23-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00442	

Benchmark Values for Carbon Tetrachloride in Surface Water (Fresh Water)

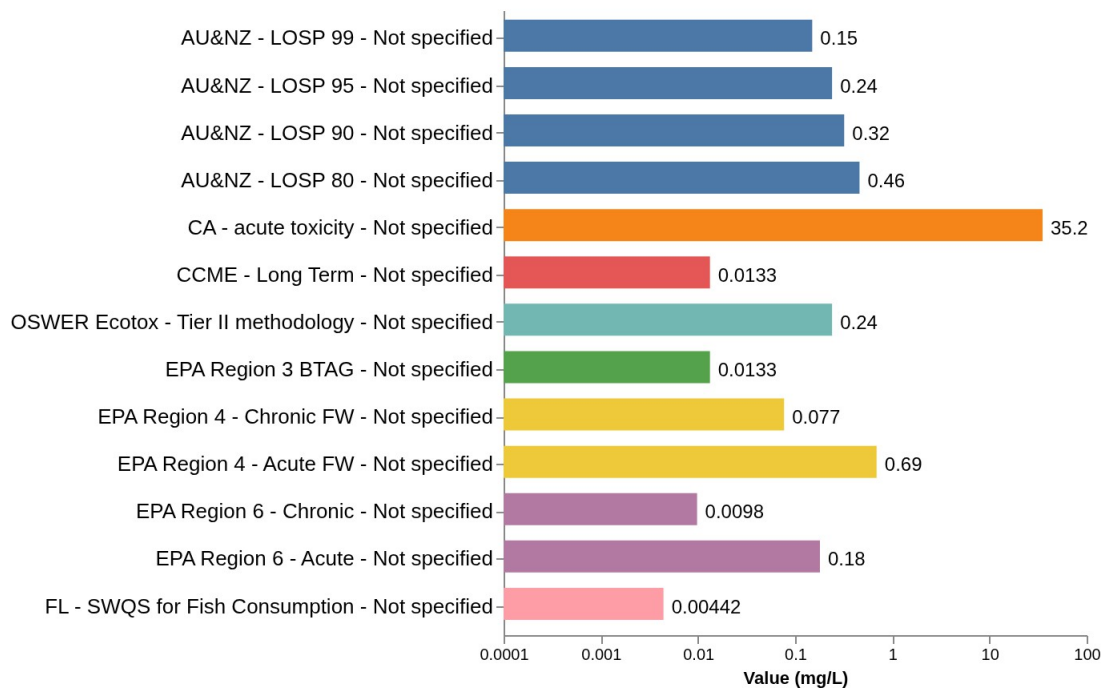


Table 159: Benchmark Values for Carboxin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
5234-68-4	OPP	Freshwater Nonvascular Plant	Not specified	0.37	
5234-68-4	OPP	Freshwater Fish Acute	Not specified	0.60	
5234-68-4	OPP	Freshwater Vascular Plant	Not specified	0.67	
5234-68-4	OPP	Freshwater Invertebrates Acute	Not specified	42.20	

Benchmark Values for Carboxin in Surface Water (Fresh Water)

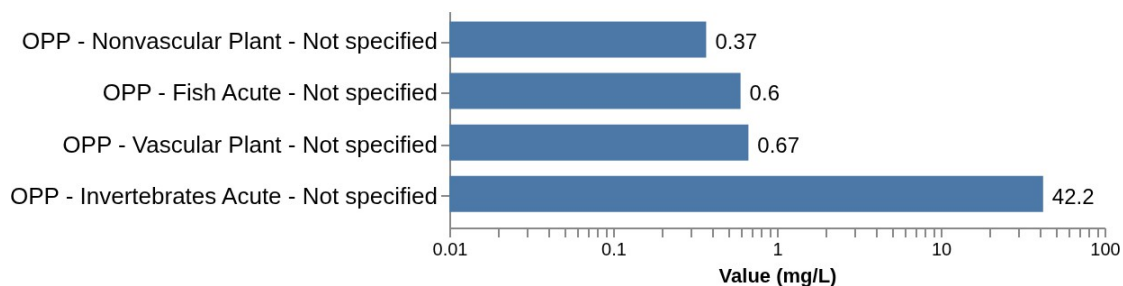


Table 160: Benchmark Values for Carboxylic acid, 4-Chloro-3-ethyl-1-methyl-1H-pyrazole-5- in Sur- face Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
127892-62-0	OPP	Freshwater Fish Acute	Not specified	4.85	22

Benchmark Values for Carboxylic acid, 4-Chloro-3-ethyl-1-methyl-1H-pyrazole-5- in Surface Water (Fresh Water)

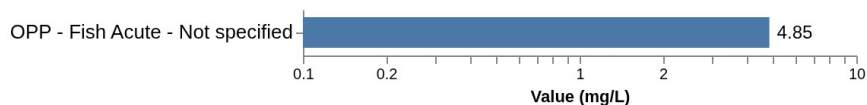


Table 161: Benchmark Values for Carboxylic acid, 5-(trifluoromethyl)-1H-pyrazole-3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129768-28-1	OPP	Freshwater Invertebrates Acute	Not specified	50	22
129768-28-1	OPP	Freshwater Fish Acute	Not specified	51	22
129768-28-1	OPP	Freshwater Nonvascular Plant	Not specified	102	22

Benchmark Values for Carboxylic acid, 5-(trifluoromethyl)-1H-pyrazole-3- in Surface Water (Fresh Water)

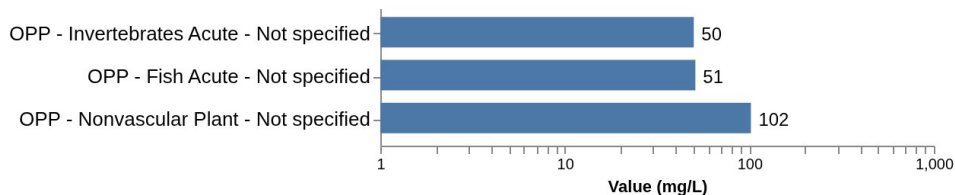


Table 162: Benchmark Values for Carfentrazone-ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
128639-02-1	OPP	Freshwater Vascular Plant	Not specified	0.0059	
128639-02-1	OPP	Freshwater Nonvascular Plant	Not specified	0.0065	
128639-02-1	OPP	Freshwater Fish Chronic	Not specified	0.1180	
128639-02-1	OPP	Freshwater Fish Acute	Not specified	0.8000	
128639-02-1	OPP	Freshwater Invertebrates Acute	Not specified	4.9000	22
128639-02-1	OPP	Freshwater Invertebrates Chronic	Not specified	35.0000	

Benchmark Values for Carfentrazone-ethyl in Surface Water (Fresh Water)

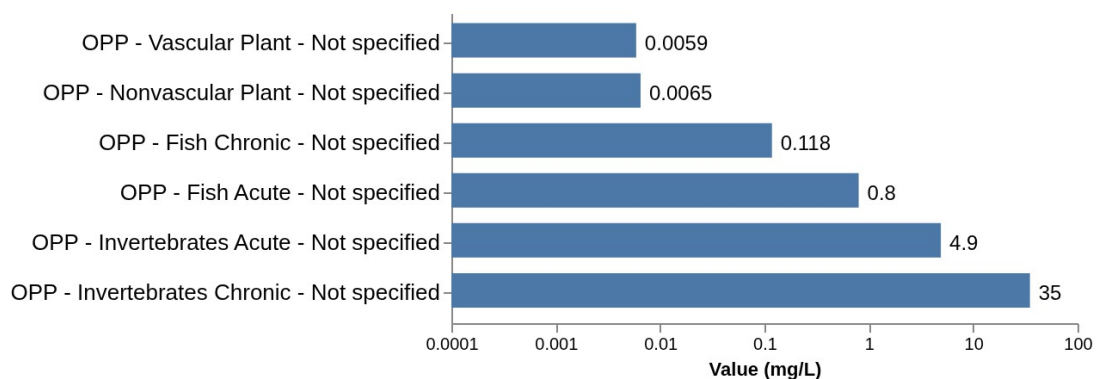


Table 163: Benchmark Values for Cetylpyridinium Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
6004-24-6	OPP	Freshwater Invertebrates Acute	Not specified	0.00368
6004-24-6	OPP	Freshwater Fish Acute	Not specified	0.07500
6004-24-6	OPP	Freshwater Nonvascular Plant	Not specified	9.30000

Benchmark Values for Cetylpyridinium Chloride in Surface Water (Fresh Water)

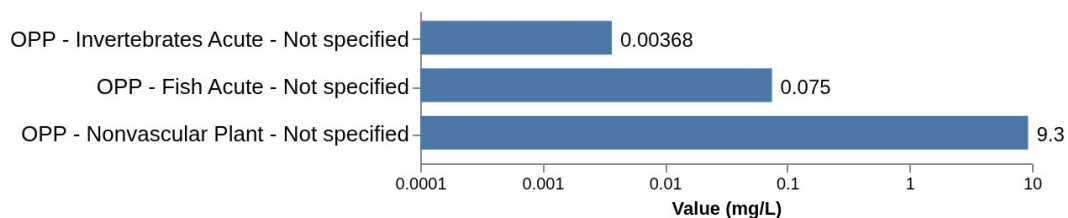
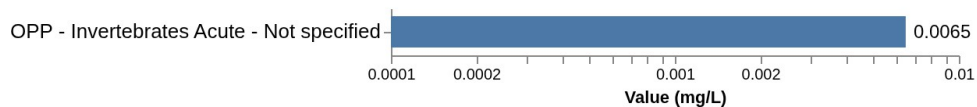


Table 164: Benchmark Values for Chlorantraniliprole degradate IN-ECD73 in Surface Water (Fresh Water)

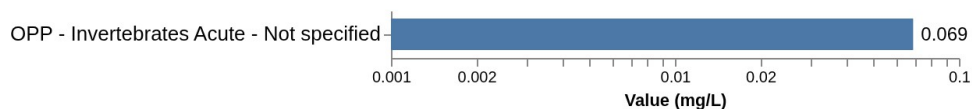
CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-1	OPP	Freshwater Invertebrates Acute	Not specified	0.0065	22

Benchmark Values for Chlorantraniliprole degradate IN-ECD73 in Surface Water (Fresh Water)

**Table 165: Benchmark Values for Chlorantraniliprole degradate IN-EQW78 in Surface Water (Fresh Water)**

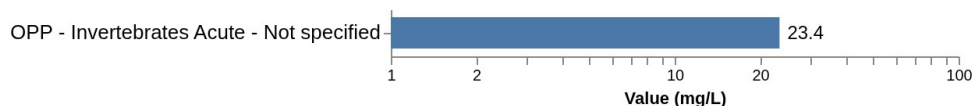
CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-2	OPP	Freshwater Invertebrates Acute	Not specified	0.069	22

Benchmark Values for Chlorantraniliprole degradate IN-EQW78 in Surface Water (Fresh Water)

**Table 166: Benchmark Values for Chlorantraniliprole degradate IN-F6L99 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-20-3	OPP	Freshwater Invertebrates Acute	Not specified	23.4

Benchmark Values for Chlorantraniliprole degradate IN-F6L99 in Surface Water (Fresh Water)

**Table 167: Benchmark Values for Chlorantraniliprole degradate IN-F9N04 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-20-4	OPP	Freshwater Invertebrates Acute	Not specified	0.015

Benchmark Values for Chlorantraniliprole degradate IN-F9N04 in Surface Water (Fresh Water)

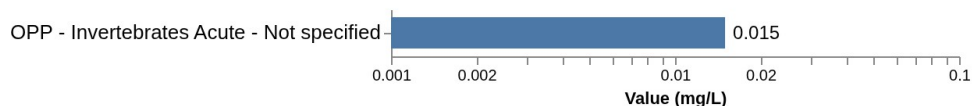
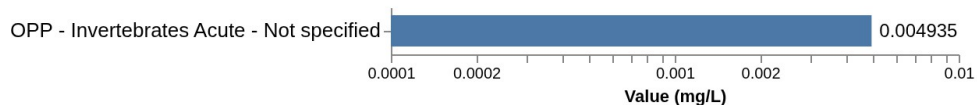


Table 168: Benchmark Values for Chlorantraniliprole degradate IN-GAZ70 in Surface Water (Fresh Water)

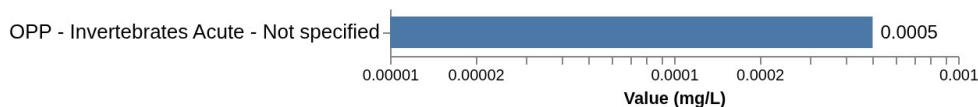
CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-5	OPP	Freshwater Invertebrates Acute	Not specified	0.004935	22

Benchmark Values for Chlorantraniliprole degradate IN-GAZ70 in Surface Water (Fresh Water)**Table 169: Benchmark Values for Chlorantraniliprole degradate IN-LBA22-002 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-6	OPP	Freshwater Invertebrates Acute	Not specified	0.12	22

Benchmark Values for Chlorantraniliprole degradate IN-LBA22-002 in Surface Water (Fresh Water)**Table 170: Benchmark Values for Chlorantraniliprole degradate IN-LBA23-000 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-7	OPP	Freshwater Invertebrates Acute	Not specified	0.0005	22

Benchmark Values for Chlorantraniliprole degradate IN-LBA23-000 in Surface Water (Fresh Water)**Table 171: Benchmark Values for Chlorantraniliprole degradate IN-LBA24-002 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-8	OPP	Freshwater Invertebrates Acute	Not specified	5.0	22

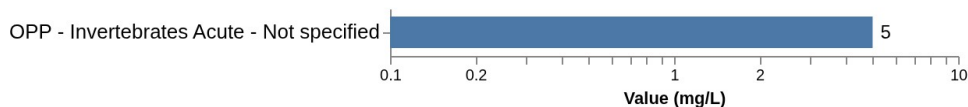
Benchmark Values for Chlorantraniliprole degradate IN-LBA24-002 in Surface Water (Fresh Water)

Table 172: Benchmark Values for Chlorantraniliprole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
500008-45-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00302	
500008-45-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00830	
500008-45-7	OPP	Freshwater Fish Chronic	Not specified	0.11000	
500008-45-7	OPP	Freshwater Nonvascular Plant	Not specified	1.78000	22
500008-45-7	OPP	Freshwater Vascular Plant	Not specified	2.00000	22
500008-45-7	OPP	Freshwater Fish Acute	Not specified	6.90000	22

Benchmark Values for Chlorantraniliprole in Surface Water (Fresh Water)

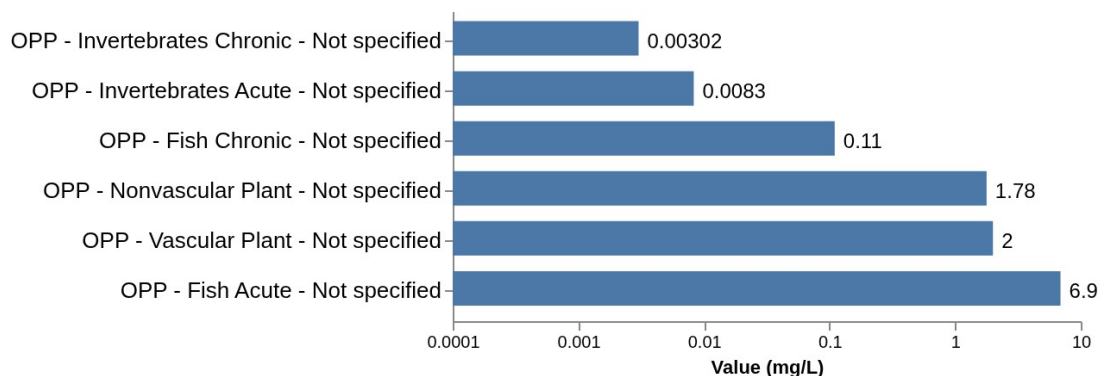


Table 173: Benchmark Values for Chlorate (ClO₃) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
14866-68-3	British Columbia	Freshwater LTC	Not specified	30.0

Benchmark Values for Chlorate (ClO₃) in Surface Water (Fresh Water)

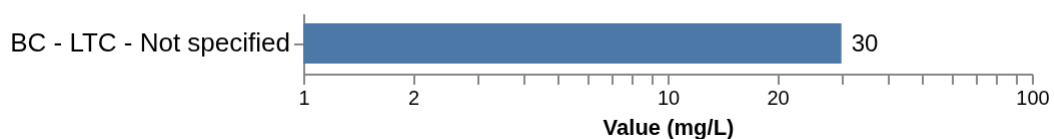


Table 174: Benchmark Values for Chlordane (technical mixture) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
12789-03-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000030	88, 89, 97
12789-03-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000080	88, 97
12789-03-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000140	88, 97
12789-03-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.000270	88, 94, 97
12789-03-6	EPA Region 6	Freshwater Chronic	Not specified	0.000004	
12789-03-6	EPA Region 6	Freshwater Acute	Not specified	0.002400	

Benchmark Values for Chlordane (technical mixture) in Surface Water (Fresh Water)

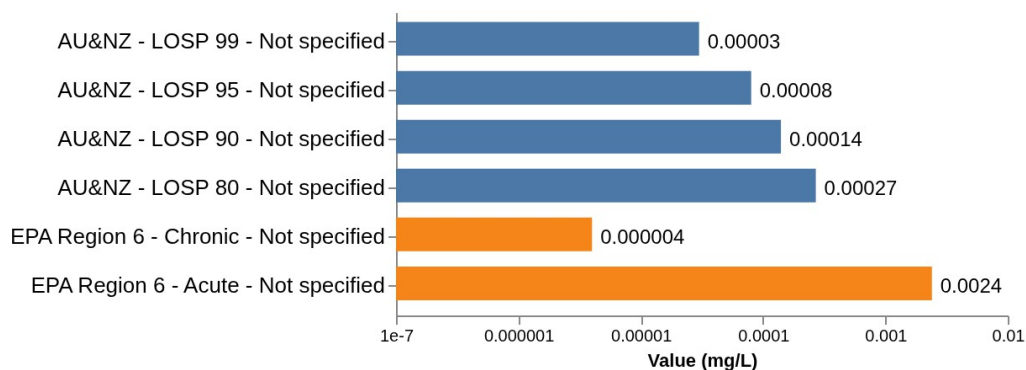


Table 175: Benchmark Values for Chlordane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57-74-9	California	Freshwater CCC, 4-day average	Not specified	4.300000e-06	
57-74-9	California	Freshwater instantaneous maximum	Not specified	2.400000e-03	
57-74-9	California	Freshwater instantaneous max	Not specified	2.400000e-03	
57-74-9	Delaware	Freshwater Chronic Criterion	Not specified	4.300000e-06	
57-74-9	Delaware	Freshwater Acute Criterion	Not specified	2.400000e-03	
57-74-9	EPA NRWQC	Freshwater CCC Chronic	Not specified	4.300000e-06	
57-74-9	EPA NRWQC	Freshwater CMC Acute	Not specified	2.400000e-03	
57-74-9	EPA Region 3	BTAG – Freshwater	Not specified	2.200000e-06	
57-74-9	EPA Region 4	Chronic Freshwater	Not specified	4.000000e-06	7
57-74-9	EPA Region 4	Acute Freshwater	Not specified	2.400000e-03	7
57-74-9	EPA Region 6	Freshwater Chronic	Not specified	4.000000e-06	
57-74-9	EPA Region 6	Freshwater Acute	Not specified	2.400000e-03	
57-74-9	Florida	SWQS for Fish Consumption Freshwater	Not specified	5.900000e-07	
57-74-9	New Jersey	Freshwater Chronic	Not specified	4.300000e-06	
57-74-9	New Jersey	Freshwater Acute	Not specified	2.400000e-03	

Benchmark Values for Chlordane in Surface Water (Fresh Water)

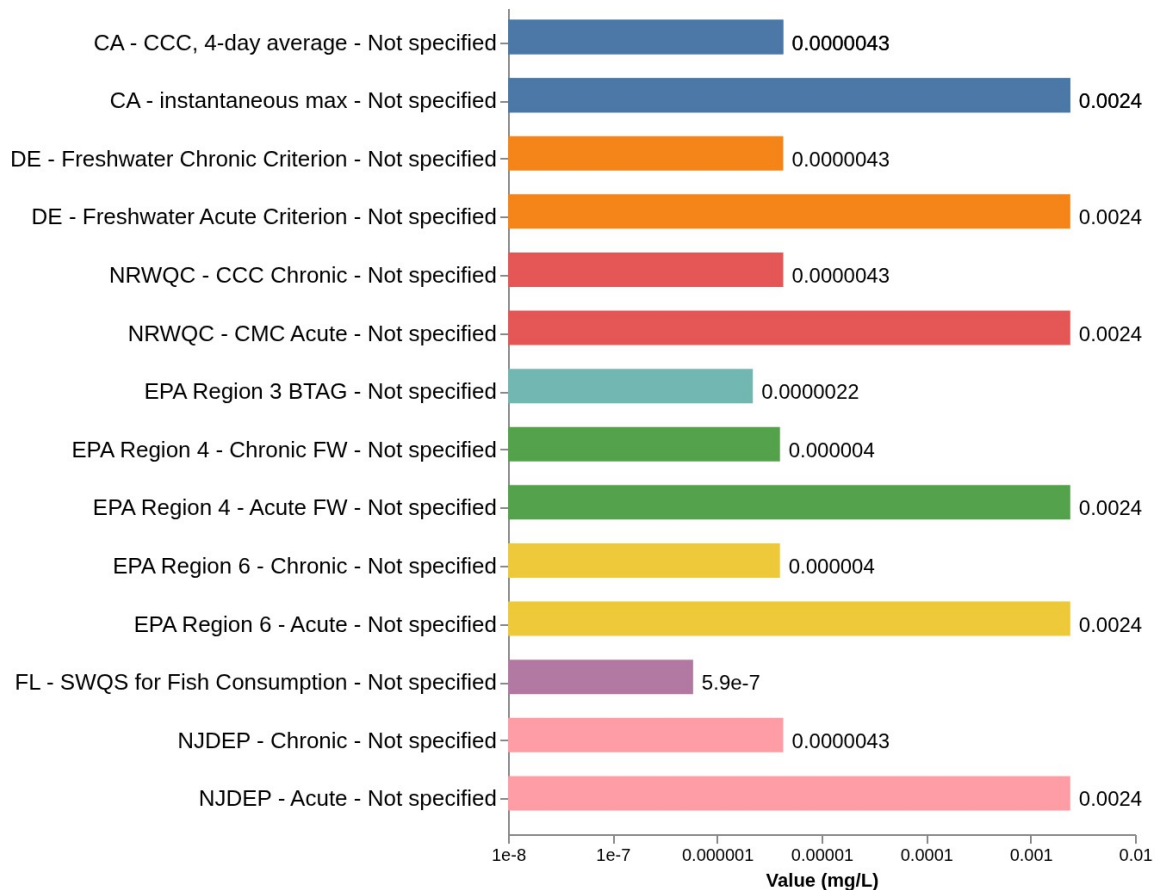
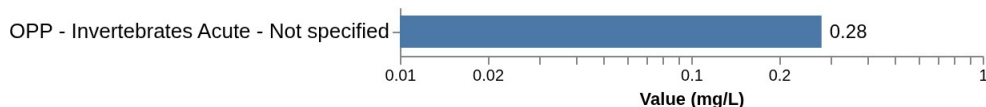
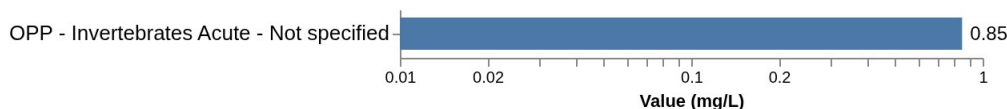


Table 176: Benchmark Values for Chlorfenapyr Metabolite CL303094 in Surface Water (Fresh Water)

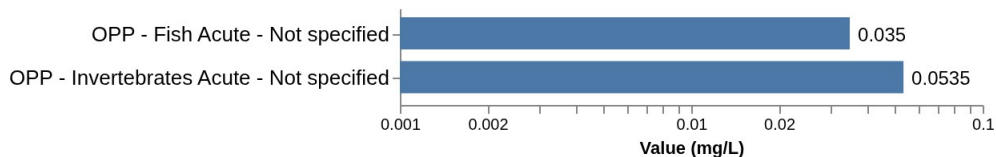
CAS	Source	Benchmark	Organism	Value (mg/L)
000000-34-8	OPP	Freshwater Invertebrates Acute	Not specified	0.28

Benchmark Values for Chlorfenapyr Metabolite CL303094 in Surface Water (Fresh Water)**Table 177: Benchmark Values for Chlorfenapyr Metabolite CL303195 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-34-9	OPP	Freshwater Invertebrates Acute	Not specified	0.85

Benchmark Values for Chlorfenapyr Metabolite CL303195 in Surface Water (Fresh Water)**Table 178: Benchmark Values for Chlorfenapyr Metabolite CL303267 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
122454-23-3	OPP	Freshwater Fish Acute	Not specified	0.0350
122454-23-3	OPP	Freshwater Invertebrates Acute	Not specified	0.0535

Benchmark Values for Chlorfenapyr Metabolite CL303267 in Surface Water (Fresh Water)**Table 179: Benchmark Values for Chlorfenapyr Metabolite CL312094 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-35-0	OPP	Freshwater Fish Acute	Not specified	0.464	22

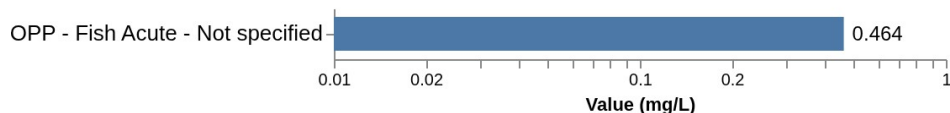
Benchmark Values for Chlorfenapyr Metabolite CL312094 in Surface Water (Fresh Water)

Table 180: Benchmark Values for Chlorfenapyr Metabolite CL325195 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-1	OPP	Freshwater Fish Acute	Not specified	1.05

Benchmark Values for Chlorfenapyr Metabolite CL325195 in Surface Water (Fresh Water)

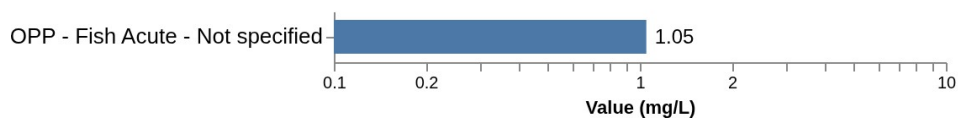


Table 181: Benchmark Values for Chlorfenapyr in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
122453-73-0	OPP	Freshwater Invertebrates Acute	Not specified	0.002915
122453-73-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.003570
122453-73-0	OPP	Freshwater Fish Chronic	Not specified	0.003680
122453-73-0	OPP	Freshwater Fish Acute	Not specified	0.003720

Benchmark Values for Chlorfenapyr in Surface Water (Fresh Water)

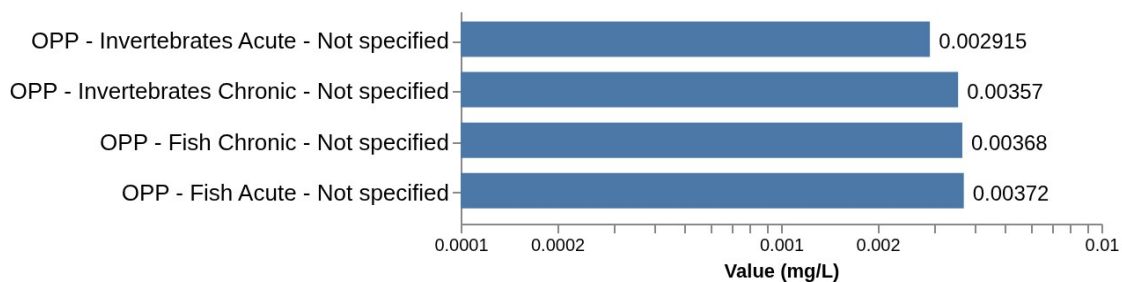


Table 182: Benchmark Values for Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16887-00-6	British Columbia	Freshwater LTC	Not specified	150.0	
16887-00-6	British Columbia	Freshwater STA	Not specified	600.0	
16887-00-6	California	Freshwater CCC, 4-day average	Not specified	230.0	225
16887-00-6	California	Freshwater CMC, 1-hour average	Not specified	860.0	225
16887-00-6	Canada	Freshwater Long Term	Not specified	120.0	
16887-00-6	Canada	Freshwater Short Term	Not specified	640.0	
16887-00-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	230.0	
16887-00-6	EPA NRWQC	Freshwater CMC Acute	Not specified	860.0	
16887-00-6	EPA Region 3	BTAG – Freshwater	Not specified	230.0	
16887-00-6	EPA Region 4	Chronic Freshwater	Not specified	230.0	
16887-00-6	EPA Region 4	Acute Freshwater	Not specified	860.0	
16887-00-6	EPA Region 6	Freshwater Chronic	Not specified	230.0	
16887-00-6	EPA Region 6	Freshwater Acute	Not specified	860.0	
16887-00-6	New Jersey	Freshwater Chronic	Not specified	230.0	
16887-00-6	New Jersey	Freshwater Acute	Not specified	860.0	

Benchmark Values for Chloride in Surface Water (Fresh Water)

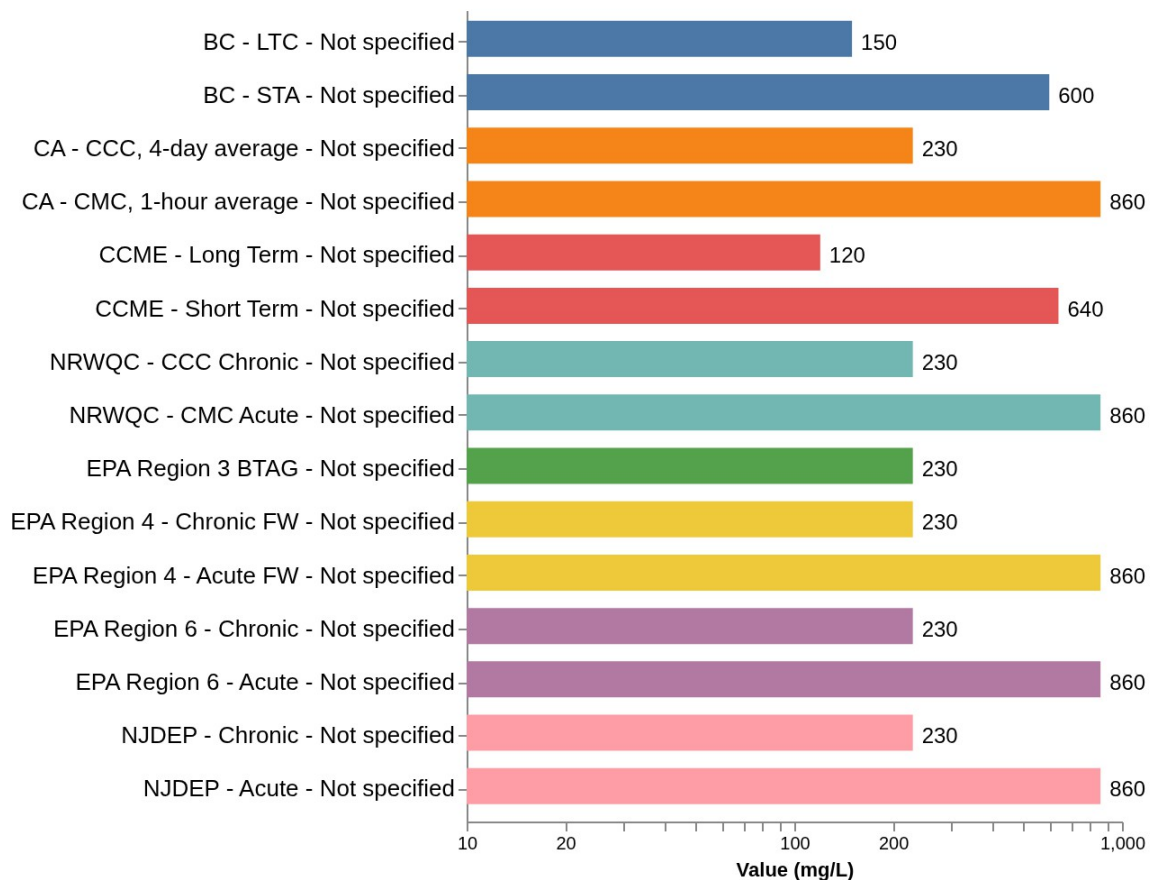


Table 183: Benchmark Values for Chlorimuron, Ethyl- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
90982-32-4	OPP	Freshwater Vascular Plant	Not specified	0.00027
90982-32-4	OPP	Freshwater Nonvascular Plant	Not specified	0.00077

Benchmark Values for Chlorimuron, Ethyl- in Surface Water (Fresh Water)

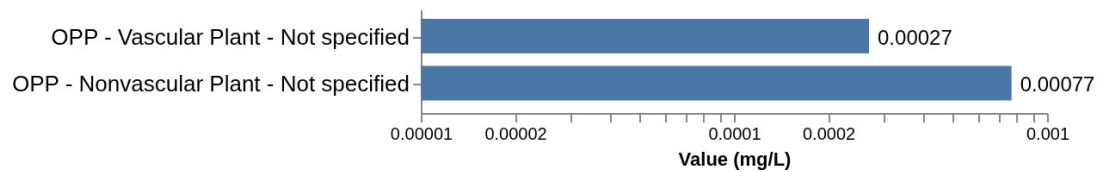


Table 184: Benchmark Values for Chlorine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-50-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0004	88, 105
7782-50-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0030	88, 89, 105
7782-50-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0060	88, 92, 105
7782-50-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0130	88, 92, 105
7782-50-5	British Columbia	Freshwater LTC	Not specified	0.0200	
7782-50-5	British Columbia	Freshwater STA	Not specified	0.1000	136
7782-50-5	California	Freshwater CCC, 4-day average	Not specified	0.0110	
7782-50-5	California	Freshwater CMC, 1-hour average	Not specified	0.0190	
7782-50-5	Canada	Freshwater Long Term	Not specified	0.0005	67
7782-50-5	Delaware	Freshwater Chronic Criterion	Not specified	0.0110	
7782-50-5	Delaware	Freshwater Acute Criterion	Not specified	0.0190	
7782-50-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0110	
7782-50-5	EPA NRWQC	Freshwater CMC Acute	Not specified	0.0190	
7782-50-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0110	
7782-50-5	EPA Region 4	Chronic Freshwater	Not specified	0.0110	
7782-50-5	EPA Region 4	Acute Freshwater	Not specified	0.0190	
7782-50-5	EPA Region 6	Freshwater Chronic	Not specified	0.0110	
7782-50-5	EPA Region 6	Freshwater Acute	Not specified	0.0190	
7782-50-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0100	
7782-50-5	New Jersey	Freshwater Chronic	Not specified	0.0110	
7782-50-5	New Jersey	Freshwater Acute	Not specified	0.0190	

Benchmark Values for Chlorine in Surface Water (Fresh Water)

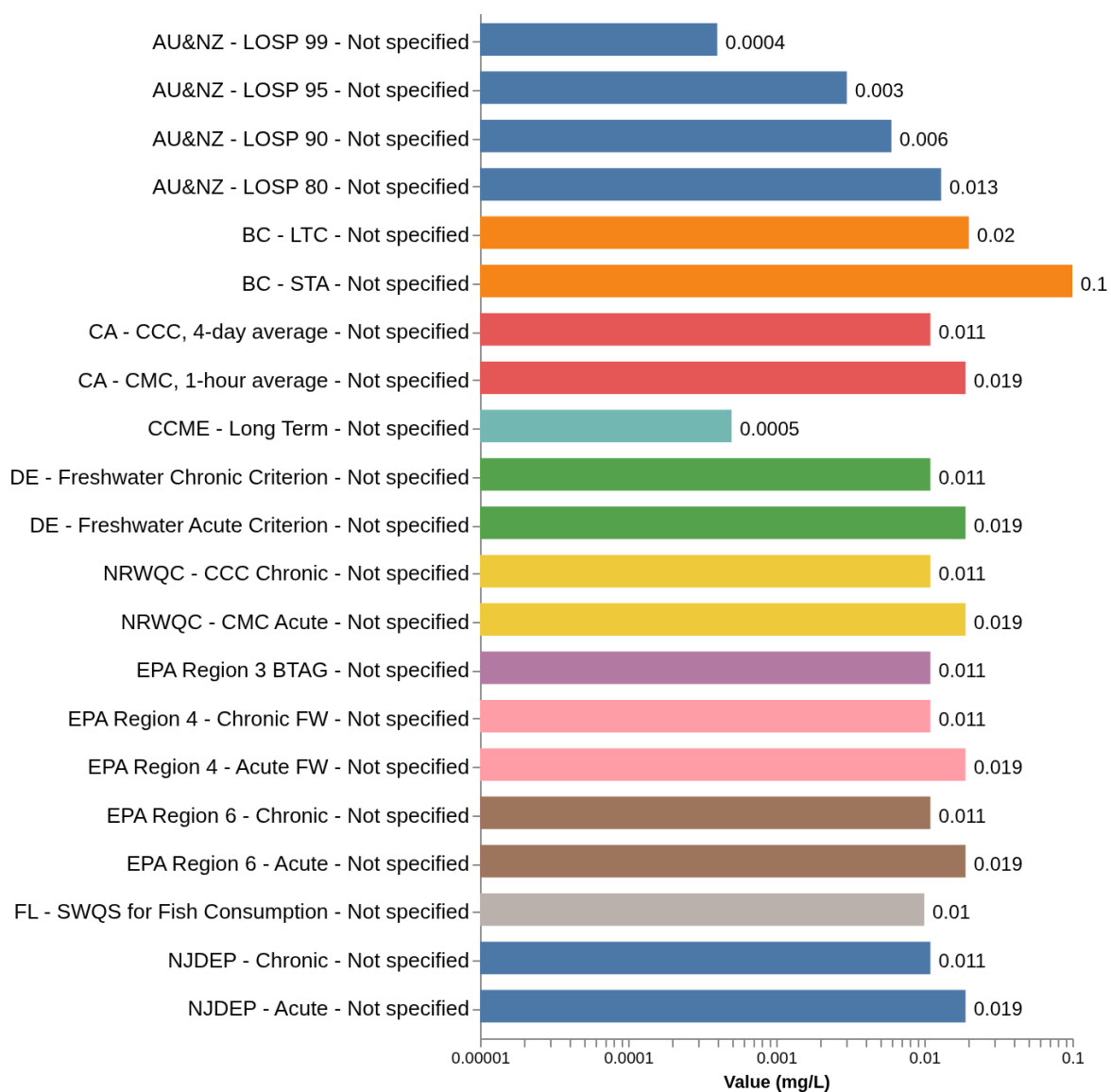


Table 185: Benchmark Values for Chlormequat chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
999-81-5	OPP	Freshwater Vascular Plant	Not specified	2.80	
999-81-5	OPP	Freshwater Invertebrates Chronic	Not specified	5.00	
999-81-5	OPP	Freshwater Invertebrates Acute	Not specified	8.45	
999-81-5	OPP	Freshwater Fish Acute	Not specified	50.00	22
999-81-5	OPP	Freshwater Nonvascular Plant	Not specified	207.00	22

Benchmark Values for Chlormequat chloride in Surface Water (Fresh Water)

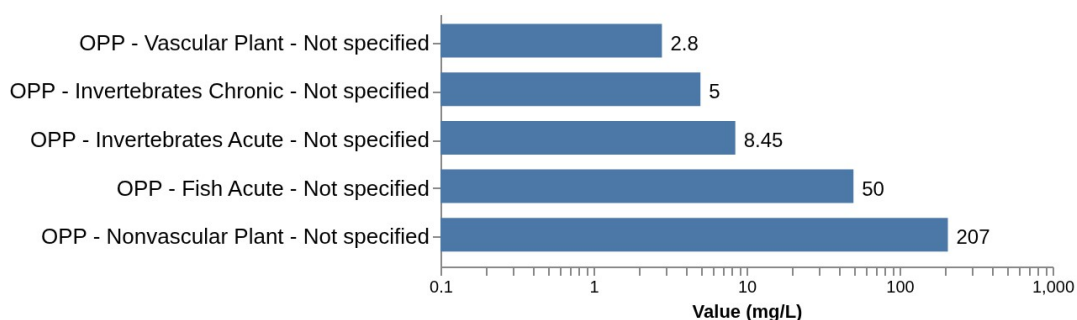


Table 186: Benchmark Values for Chloro-2-methylphenol, 4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1570-64-5	OPP	Freshwater Invertebrates Acute	Not specified	0.145
1570-64-5	OPP	Freshwater Fish Acute	Not specified	1.150
1570-64-5	OPP	Freshwater Vascular Plant	Not specified	93.000

Benchmark Values for Chloro-2-methylphenol, 4- in Surface Water (Fresh Water)

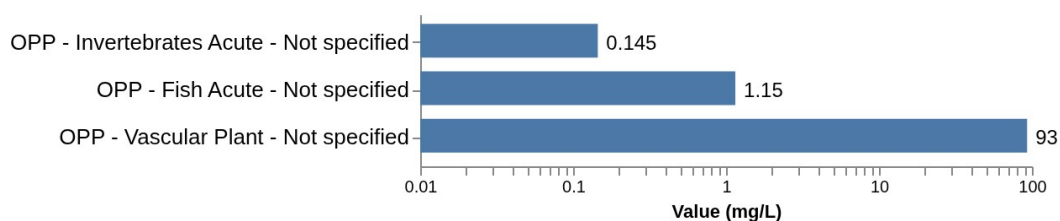


Table 187: Benchmark Values for Chloroalkyl ethers in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-3	California	Freshwater chronic toxicity	Not specified	0.122
000000-47-3	California	Freshwater acute toxicity	Not specified	238.000

Benchmark Values for Chloroalkyl ethers in Surface Water (Fresh Water)

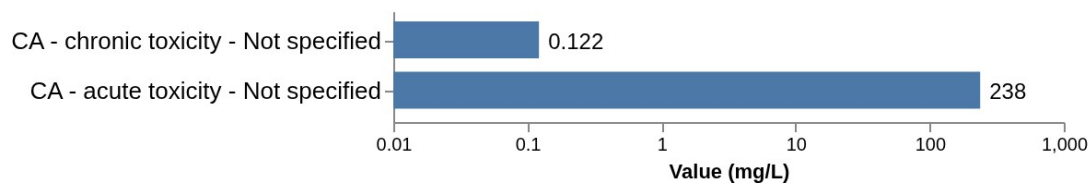


Table 188: Benchmark Values for Chloroaniline, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
106-47-8	EPA Region 3	BTAG – Freshwater	Not specified	0.2320
106-47-8	EPA Region 4	Chronic Freshwater	Not specified	0.0008
106-47-8	EPA Region 4	Acute Freshwater	Not specified	0.0240

Benchmark Values for Chloroaniline, p- in Surface Water (Fresh Water)

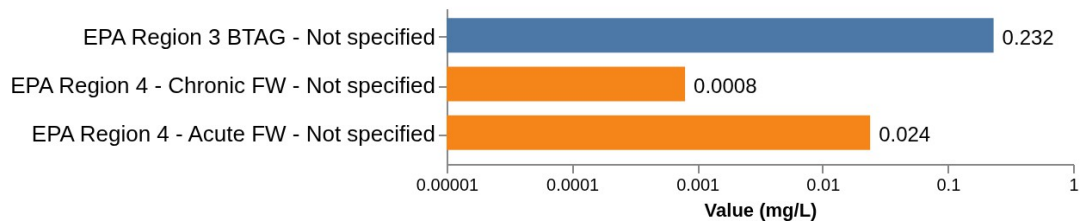


Table 189: Benchmark Values for Chlorobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-90-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0050	83
108-90-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0550	83, 89
108-90-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.1000	83
108-90-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.1900	83
108-90-7	California	Freshwater other toxicity	Not specified	0.0500	
108-90-7	California	Freshwater acute toxicity	Not specified	0.2500	
108-90-7	Canada	Freshwater Long Term	Not specified	0.0013	
108-90-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.1300	
108-90-7	EPA Region 3	BTAG – Freshwater	Not specified	0.0013	
108-90-7	EPA Region 4	Chronic Freshwater	Not specified	0.0250	
108-90-7	EPA Region 4	Acute Freshwater	Not specified	0.2200	
108-90-7	EPA Region 6	Freshwater Chronic	Not specified	0.0640	
108-90-7	EPA Region 6	Freshwater Acute	Not specified	1.1000	

Benchmark Values for Chlorobenzene in Surface Water (Fresh Water)

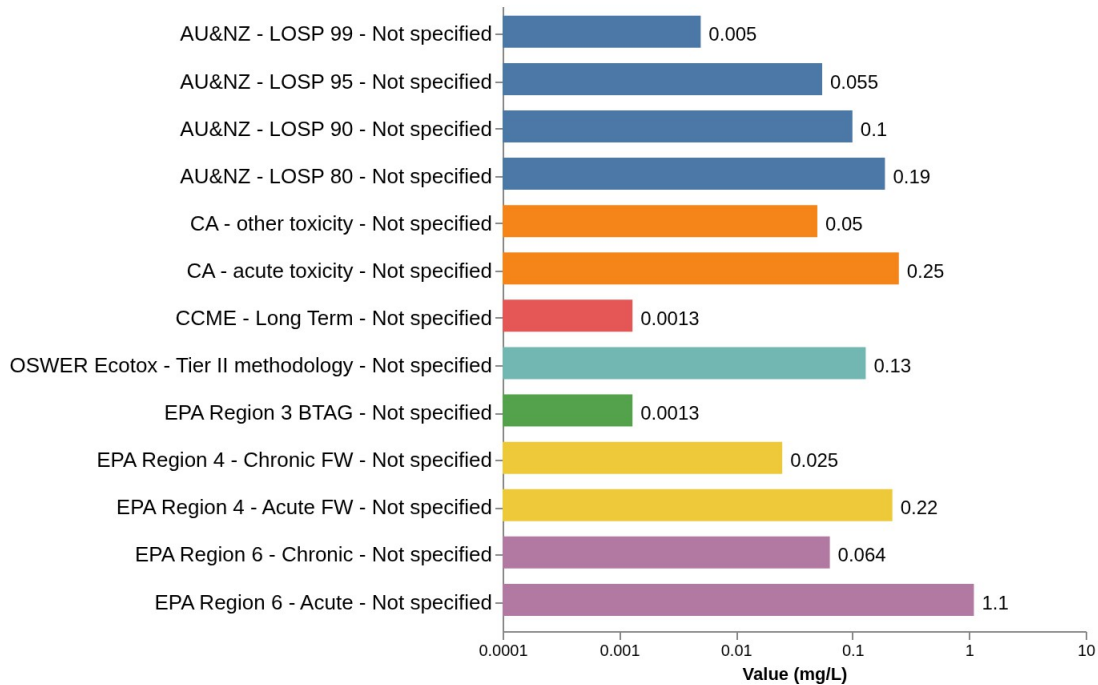


Table 190: Benchmark Values for Chlorobenzenes (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-05-6	California	Freshwater acute toxicity	Not specified	0.25

Benchmark Values for Chlorobenzenes (total) in Surface Water (Fresh Water)

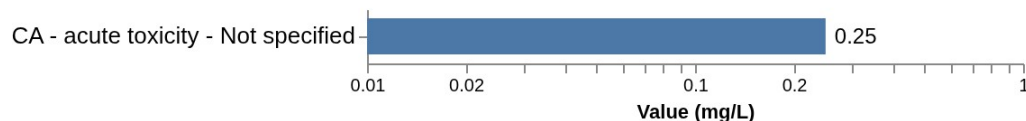


Table 191: Benchmark Values for Chlorobenzilate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
510-15-6	EPA Region 3	BTAG – Freshwater	Not specified	0.00716

Benchmark Values for Chlorobenzilate in Surface Water (Fresh Water)

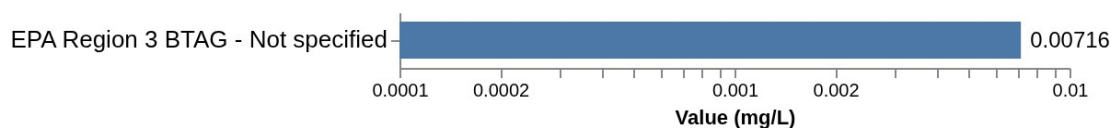


Table 192: Benchmark Values for Chlorobenzoic Acid, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74-11-3	OPP	Freshwater Fish Acute	Not specified	55.5	22
74-11-3	OPP	Freshwater Invertebrates Acute	Not specified	55.5	22
74-11-3	OPP	Freshwater Nonvascular Plant	Not specified	109.0	22

Benchmark Values for Chlorobenzoic Acid, p- in Surface Water (Fresh Water)

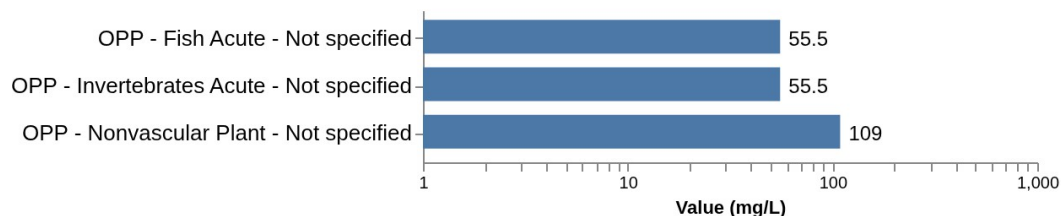
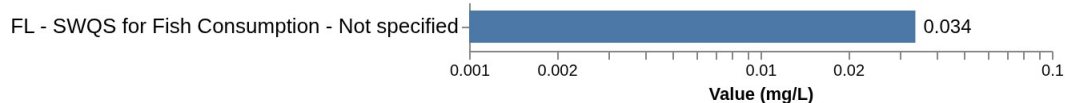


Table 193: Benchmark Values for Chlorodibromoethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
73506-94-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.034

Benchmark Values for Chlorodibromoethane in Surface Water (Fresh Water)**Table 194: Benchmark Values for Chloroform in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-66-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.3700	83, 89
67-66-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.7700	83
67-66-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.1000	83
67-66-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.9000	83
67-66-3	California	Freshwater chronic toxicity	Not specified	1.2400	
67-66-3	California	Freshwater acute toxicity	Not specified	28.9000	
67-66-3	Canada	Freshwater Long Term	Not specified	0.0018	
67-66-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0018	
67-66-3	EPA Region 4	Chronic Freshwater	Not specified	0.1400	
67-66-3	EPA Region 4	Acute Freshwater	Not specified	1.3000	
67-66-3	EPA Region 6	Freshwater Chronic	Not specified	1.7900	
67-66-3	EPA Region 6	Freshwater Acute	Not specified	5.3700	
67-66-3	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.4708	

Benchmark Values for Chloroform in Surface Water (Fresh Water)

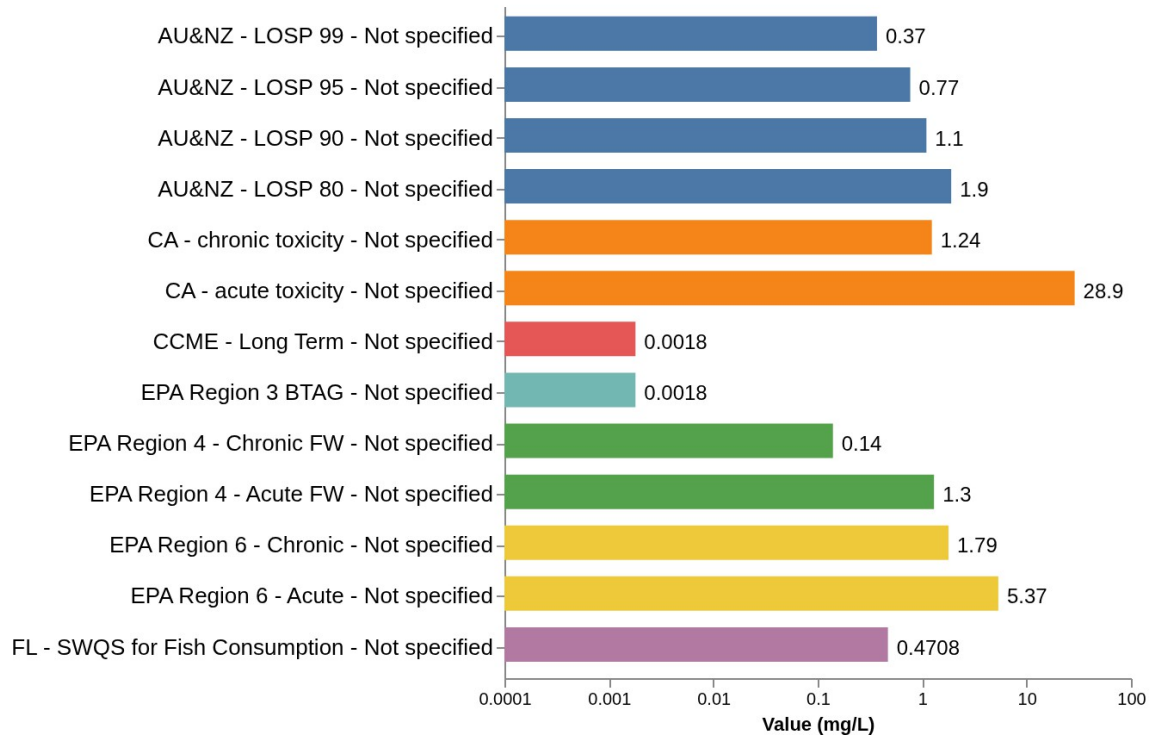


Table 195: Benchmark Values for Chloromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-87-3	California	Freshwater acute toxicity	Not specified	11.0000
74-87-3	EPA Region 6	Freshwater Chronic	Not specified	28.0000
74-87-3	EPA Region 6	Freshwater Acute	Not specified	165.0000
74-87-3	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.4708

Benchmark Values for Chloromethane in Surface Water (Fresh Water)

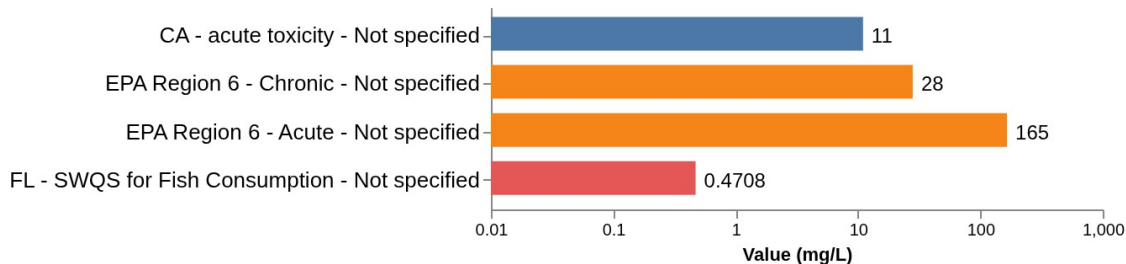


Table 196: Benchmark Values for Chloromethyl Methyl Ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
107-30-2	California	Freshwater chronic toxicity	Not specified	0.122
107-30-2	California	Freshwater acute toxicity	Not specified	238.000

Benchmark Values for Chloromethyl Methyl Ether in Surface Water (Fresh Water)

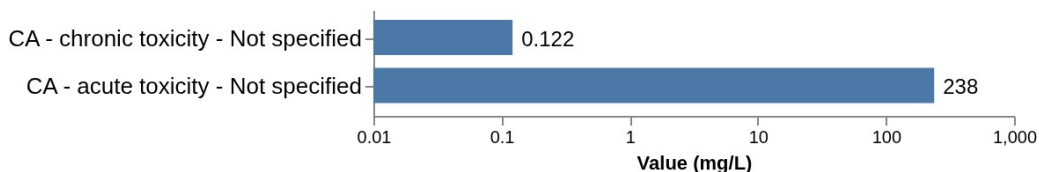


Table 197: Benchmark Values for Chloronaphthalene, Beta- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-58-7	California	Freshwater acute toxicity	Not specified	1.600
91-58-7	EPA Region 6	Freshwater Chronic	Not specified	0.054
91-58-7	EPA Region 6	Freshwater Acute	Not specified	0.323

Benchmark Values for Chloronaphthalene, Beta- in Surface Water (Fresh Water)

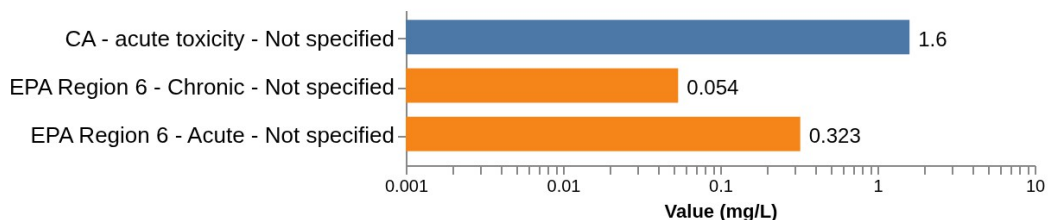


Table 198: Benchmark Values for Chlorophenol, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-57-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.340	88, 90, 99
95-57-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.490	88, 90, 99
95-57-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.630	88, 94, 99
95-57-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.870	88, 94, 99
95-57-8	British Columbia	Freshwater STA	Not specified	0.011	115
95-57-8	California	Freshwater other toxicity	Not specified	2.000	
95-57-8	California	Freshwater acute toxicity	Not specified	4.380	
95-57-8	EPA Region 3	BTAG – Freshwater	Not specified	0.024	
95-57-8	EPA Region 4	Chronic Freshwater	Not specified	0.018	
95-57-8	EPA Region 4	Acute Freshwater	Not specified	0.160	
95-57-8	EPA Region 6	Freshwater Chronic	Not specified	0.630	
95-57-8	EPA Region 6	Freshwater Acute	Not specified	1.890	
95-57-8	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.400	

Benchmark Values for Chlorophenol, 2- in Surface Water (Fresh Water)

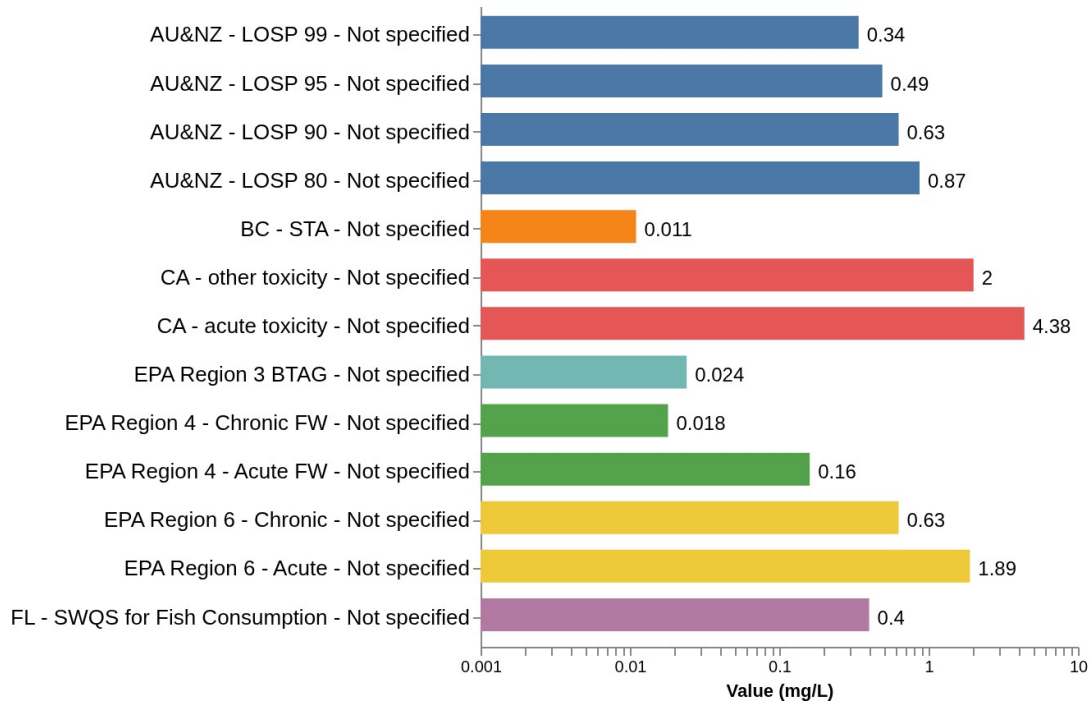


Table 199: Benchmark Values for Chlorophenol, 3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-43-0	British Columbia	Freshwater STA	Not specified	0.0093	115

Benchmark Values for Chlorophenol, 3- in Surface Water (Fresh Water)

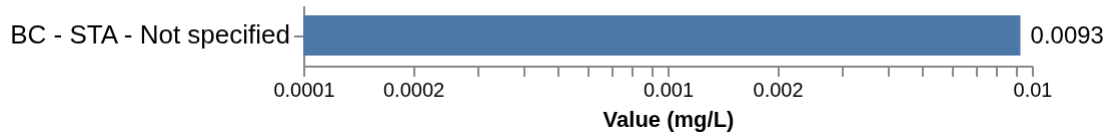


Table 200: Benchmark Values for Chlorophenol, 4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-48-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.1600	88, 99
106-48-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.2200	88, 89, 99
106-48-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.2800	88, 94, 99
106-48-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.3600	88, 94, 99
106-48-9	British Columbia	Freshwater STA	Not specified	0.0048	115

Benchmark Values for Chlorophenol, 4- in Surface Water (Fresh Water)

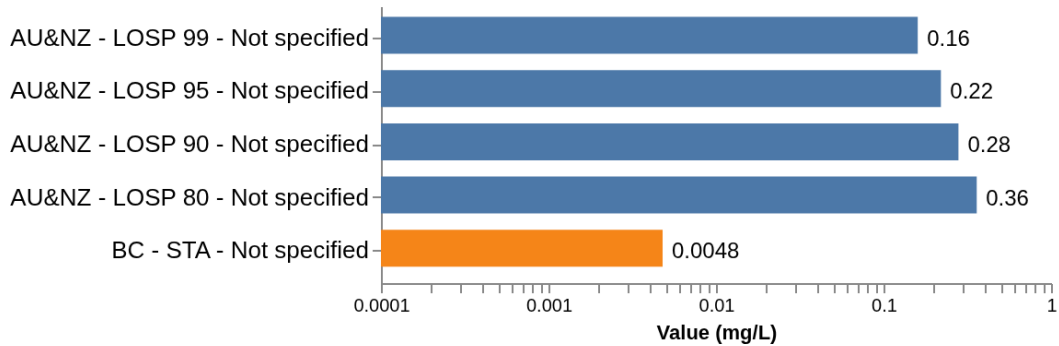


Table 201: Benchmark Values for Chloropicrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
76-06-2	OPP	Freshwater Fish Acute	Not specified	0.0055
76-06-2	OPP	Freshwater Vascular Plant	Not specified	0.0065
76-06-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0600

Benchmark Values for Chloropicrin in Surface Water (Fresh Water)

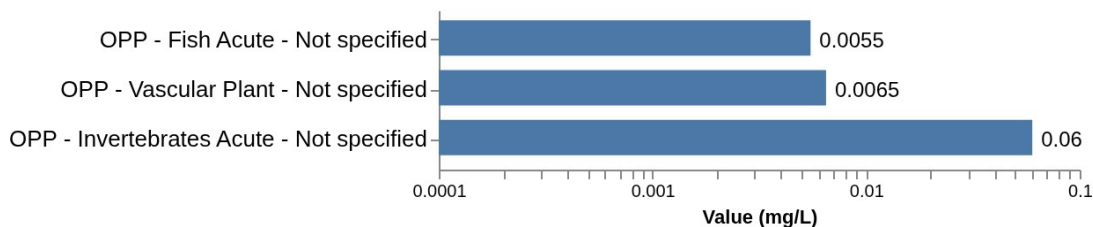


Table 202: Benchmark Values for Chlorothalonil degradate (SDS-3701) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-2	OPP	Freshwater Fish Acute	Not specified	4.6
000000-35-2	OPP	Freshwater Invertebrates Acute	Not specified	13.0
000000-35-2	OPP	Freshwater Nonvascular Plant	Not specified	33.7

Benchmark Values for Chlorothalonil degradate (SDS-3701) in Surface Water (Fresh Water)

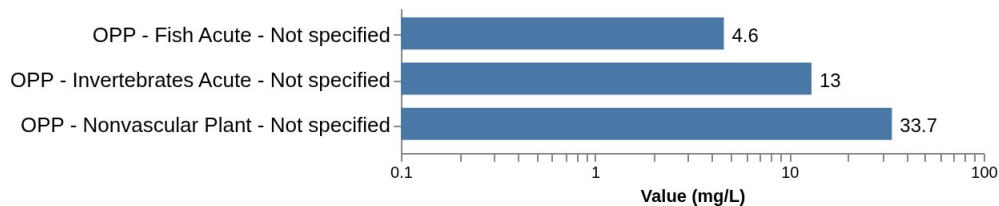


Table 203: Benchmark Values for Chlorothalonil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1897-45-6	Canada	Freshwater Long Term	Not specified	0.00018
1897-45-6	EPA Region 4	Chronic Freshwater	Not specified	0.00060
1897-45-6	EPA Region 4	Acute Freshwater	Not specified	0.00180
1897-45-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00060
1897-45-6	OPP	Freshwater Fish Chronic	Not specified	0.00077
1897-45-6	OPP	Freshwater Fish Acute	Not specified	0.00900
1897-45-6	OPP	Freshwater Nonvascular Plant	Not specified	0.01200
1897-45-6	OPP	Freshwater Invertebrates Acute	Not specified	0.02700
1897-45-6	OPP	Freshwater Vascular Plant	Not specified	0.64000

Benchmark Values for Chlorothalonil in Surface Water (Fresh Water)

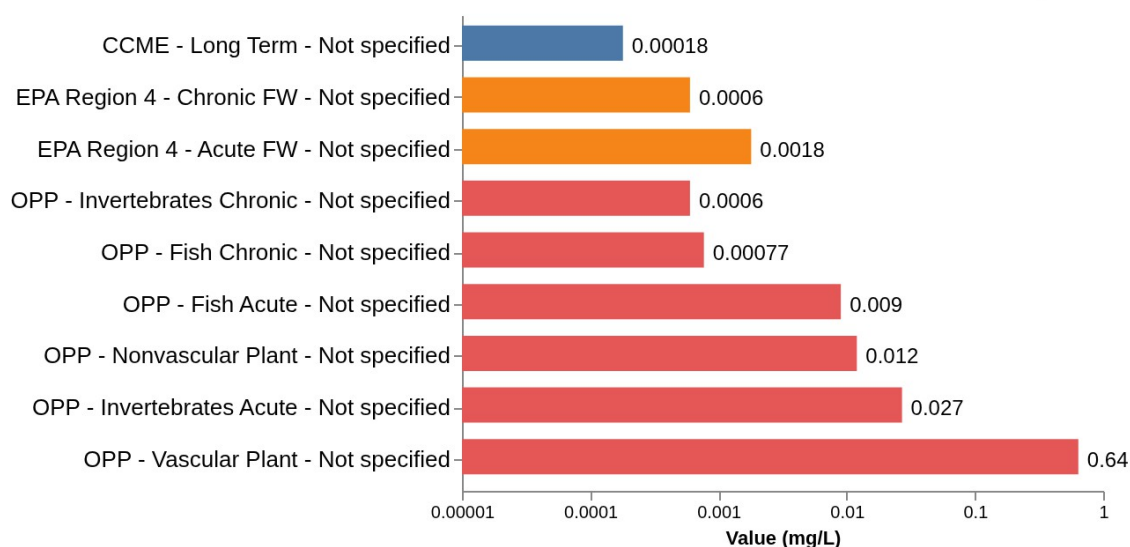


Table 204: Benchmark Values for Chlorpyrifos Methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
5598-13-0	OPP	Freshwater Invertebrates Acute	Not specified	0.000085
5598-13-0	OPP	Freshwater Fish Acute	Not specified	0.007000

Benchmark Values for Chlorpyrifos Methyl in Surface Water (Fresh Water)

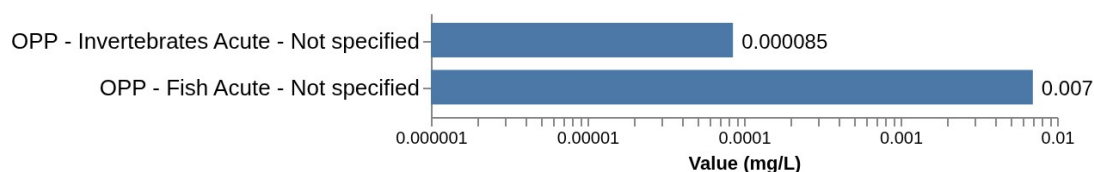


Table 205: Benchmark Values for Chlorpyrifos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2921-88-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	4.000000e-08	88, 101
2921-88-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.000000e-05	88, 93, 101
2921-88-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.100000e-04	88, 92, 101
2921-88-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.200000e-03	88, 92, 101
2921-88-2	California	Freshwater CCC, 4-day average	Not specified	1.400000e-05	
2921-88-2	California	Freshwater CMC, 1-hour average	Not specified	2.000000e-05	
2921-88-2	Canada	Freshwater Long Term	Not specified	2.000000e-06	
2921-88-2	Canada	Freshwater Short Term	Not specified	2.000000e-05	
2921-88-2	Delaware	Freshwater Chronic Criterion	Not specified	4.100000e-05	
2921-88-2	Delaware	Freshwater Acute Criterion	Not specified	8.300000e-05	
2921-88-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	4.100000e-05	
2921-88-2	EPA NRWQC	Freshwater CMC Acute	Not specified	8.300000e-05	
2921-88-2	EPA Region 3	BTAG – Freshwater	Not specified	3.500000e-06	
2921-88-2	EPA Region 4	Chronic Freshwater	Not specified	4.000000e-05	
2921-88-2	EPA Region 4	Acute Freshwater	Not specified	8.000000e-05	
2921-88-2	EPA Region 6	Freshwater Chronic	Not specified	4.100000e-05	
2921-88-2	EPA Region 6	Freshwater Acute	Not specified	8.300000e-05	
2921-88-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	4.100000e-05	
2921-88-2	New Jersey	Freshwater Chronic	Not specified	4.100000e-05	
2921-88-2	New Jersey	Freshwater Acute	Not specified	8.300000e-05	
2921-88-2	OPP	Freshwater Invertebrates Chronic	Not specified	4.000000e-05	
2921-88-2	OPP	Freshwater Chronic	Not specified	4.100000e-05	
2921-88-2	OPP	Freshwater Invertebrates Acute	Not specified	5.000000e-05	
2921-88-2	OPP	Freshwater Acute	Not specified	8.300000e-05	
2921-88-2	OPP	Freshwater Fish Chronic	Not specified	5.700000e-04	
2921-88-2	OPP	Freshwater Fish Acute	Not specified	9.000000e-04	
2921-88-2	OPP	Freshwater Nonvascular Plant	Not specified	1.400000e-01	

Benchmark Values for Chlorpyrifos in Surface Water (Fresh Water)

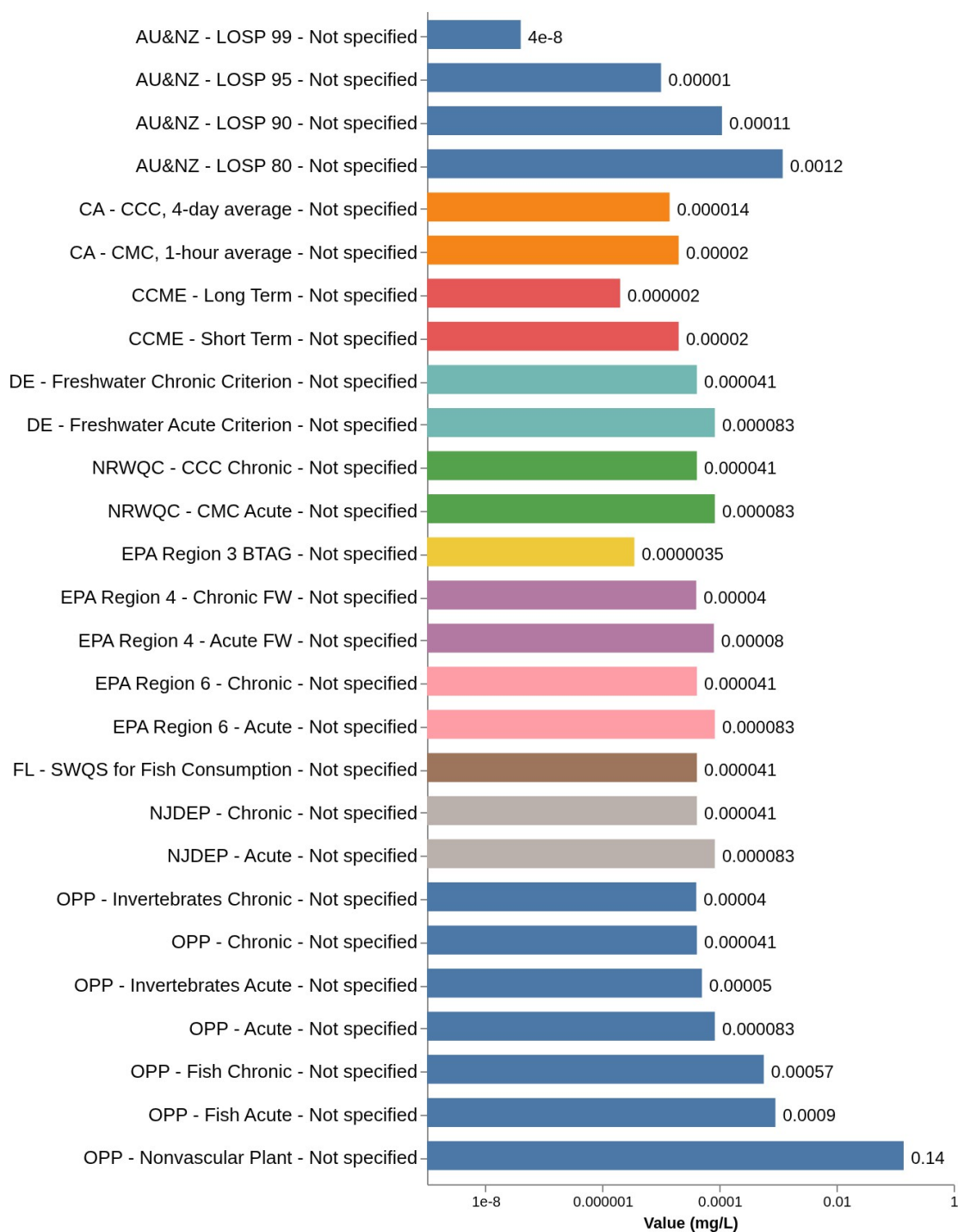


Table 206: Benchmark Values for Chlorsulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
64902-72-3	OPP	Freshwater Vascular Plant	Not specified	0.00035	
64902-72-3	OPP	Freshwater Nonvascular Plant	Not specified	0.05000	
64902-72-3	OPP	Freshwater Invertebrates Chronic	Not specified	20.00000	
64902-72-3	OPP	Freshwater Fish Chronic	Not specified	32.00000	
64902-72-3	OPP	Freshwater Fish Acute	Not specified	150.00000	22
64902-72-3	OPP	Freshwater Invertebrates Acute	Not specified	185.00000	22

Benchmark Values for Chlorsulfuron in Surface Water (Fresh Water)

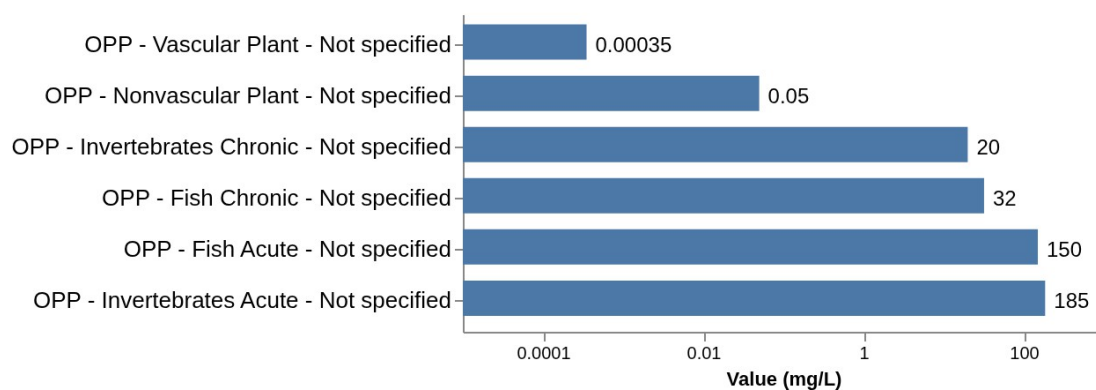


Table 207: Benchmark Values for Chlorthal-dimethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1861-32-1	California	Freshwater instantaneous max	Not specified	14.3	
1861-32-1	OPP	Freshwater Vascular Plant	Not specified	11.0	22
1861-32-1	OPP	Freshwater Nonvascular Plant	Not specified	11.0	22
1861-32-1	OPP	Freshwater Invertebrates Acute	Not specified	13.5	
1861-32-1	OPP	Freshwater Fish Acute	Not specified	15.0	

Benchmark Values for Chlorthal-dimethyl in Surface Water (Fresh Water)

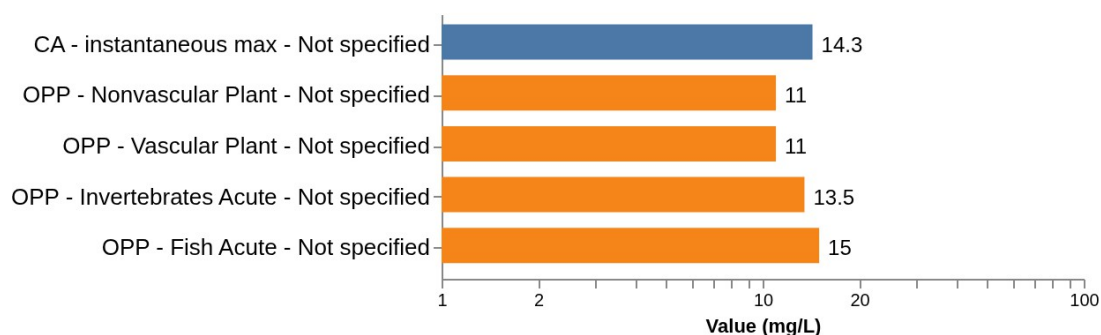


Table 208: Benchmark Values for Chromated Arsenicals in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.002
000000-35-3	OPP	Freshwater Nonvascular Plant	Not specified	0.380
000000-35-3	OPP	Freshwater Fish Chronic	Not specified	1.900
000000-35-3	OPP	Freshwater Invertebrates Acute	Not specified	7.500
000000-35-3	OPP	Freshwater Fish Acute	Not specified	25.000

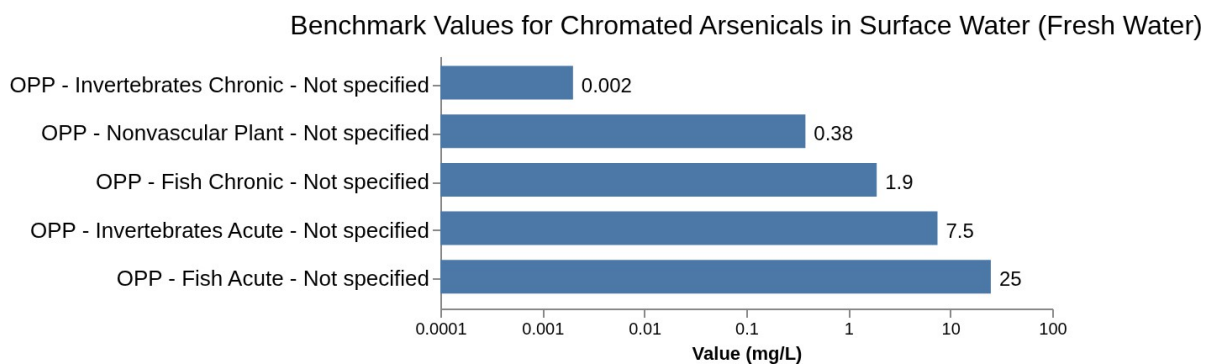


Table 209: Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16065-83-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0033	83, 104
16065-83-1	Canada	Freshwater Long Term	Not specified	0.0089	
16065-83-1	Delaware	Freshwater Chronic Criterion	Not specified		236, 244
16065-83-1	Delaware	Freshwater Acute Criterion	Not specified		236, 243
16065-83-1	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.18	157
16065-83-1	EPA Region 3	BTAG – Freshwater	Not specified	0.074	
16065-83-1	EPA Region 4	Chronic Freshwater	Not specified	0.042	1, 2
16065-83-1	EPA Region 4	Acute Freshwater	Not specified	0.323	1, 2
16065-83-1	EPA Region 6	Freshwater Chronic	Not specified	0.042	21
16065-83-1	EPA Region 6	Freshwater Acute	Not specified	0.32	21
16065-83-1	New Jersey	Freshwater Chronic	Not specified	0.023872	202
16065-83-1	New Jersey	Freshwater Acute	Not specified	0.499445	202

Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water (Fresh Water)

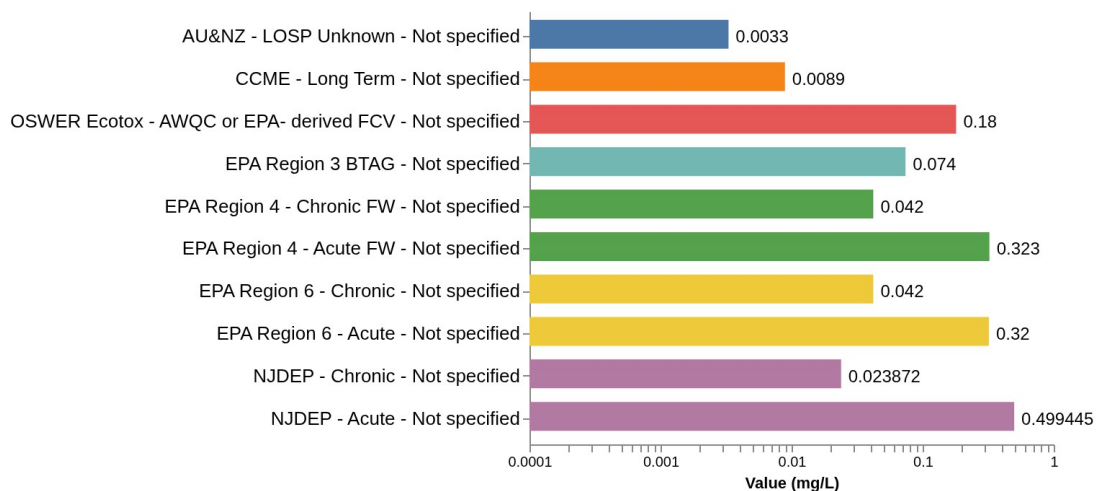


Table 210: Benchmark Values for Chromium(VI) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
18540-29-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00001	85
18540-29-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00100	85, 90
18540-29-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00600	85, 92
18540-29-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.04000	85, 92
18540-29-9	California	Freshwater CCC, 4-day average	Not specified	0.01100	214, 216
18540-29-9	California	Freshwater CMC, 1-hour average	Not specified	0.01600	214
18540-29-9	California	Freshwater CMC, 1-hour average	Not specified	0.01600	214, 216
18540-29-9	Canada	Freshwater Long Term	Not specified	0.00100	
18540-29-9	Delaware	Freshwater Chronic Criterion	Not specified	0.01100	
18540-29-9	Delaware	Freshwater Acute Criterion	Not specified	0.01600	
18540-29-9	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.01100	
18540-29-9	EPA NRWQC	Freshwater CMC Acute	Not specified	0.01600	
18540-29-9	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.01000	
18540-29-9	EPA Region 3	BTAG – Freshwater	Not specified	0.01100	
18540-29-9	EPA Region 4	Chronic Freshwater	Not specified	0.01100	1
18540-29-9	EPA Region 4	Acute Freshwater	Not specified	0.01600	1
18540-29-9	EPA Region 6	Freshwater Chronic	Not specified	0.01060	21
18540-29-9	EPA Region 6	Freshwater Acute	Not specified	0.01570	21
18540-29-9	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.01100	
18540-29-9	New Jersey	Freshwater Chronic	Not specified	0.01000	199, 200
18540-29-9	New Jersey	Freshwater Acute	Not specified	0.01500	199, 200

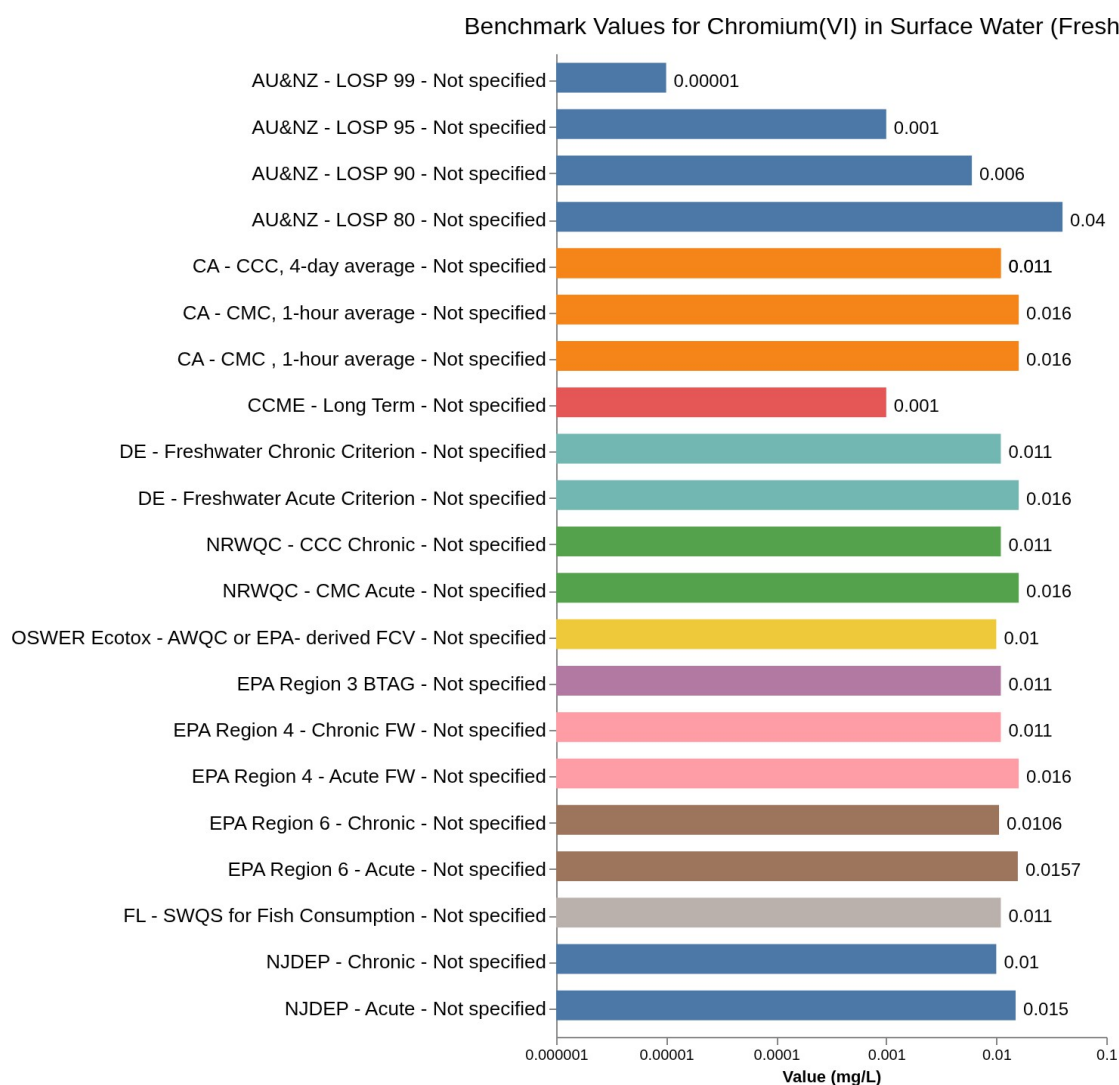


Table 211: Benchmark Values for Chromium, Total in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-47-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.074	
7440-47-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.570	
7440-47-3	EPA Region 3	BTAG – Freshwater	Not specified	0.085	
7440-47-3	Florida	Freshwater Contaminant Cleanup	Not specified	0.011	210

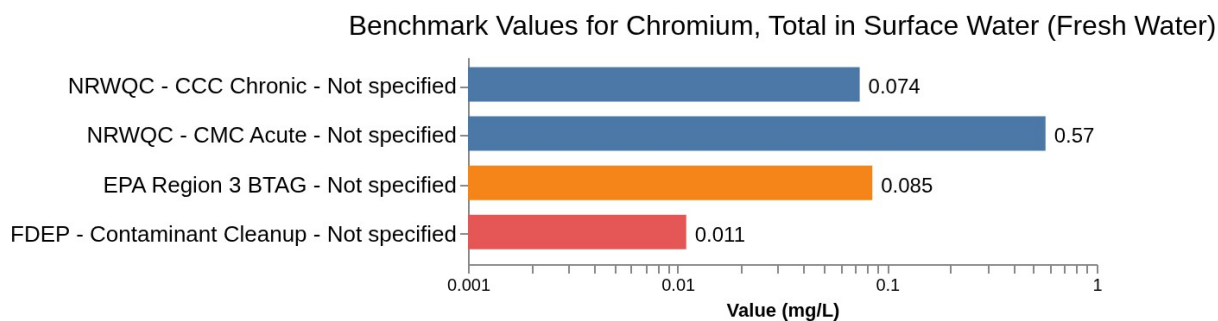


Table 212: Benchmark Values for Chrysene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
218-01-9	EPA Region 4	Chronic Freshwater	Not specified	0.0047	7
218-01-9	EPA Region 4	Acute Freshwater	Not specified	0.0420	7

Benchmark Values for Chrysene in Surface Water (Fresh Water)

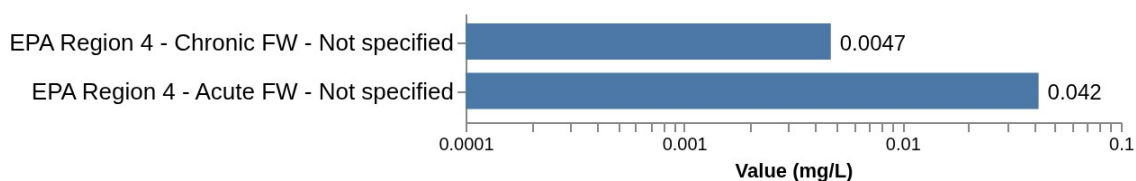


Table 213: Benchmark Values for Clethodim in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99129-21-2	OPP	Freshwater Fish Chronic	Not specified	0.002	
99129-21-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.940	
99129-21-2	OPP	Freshwater Vascular Plant	Not specified	1.340	
99129-21-2	OPP	Freshwater Nonvascular Plant	Not specified	2.700	
99129-21-2	OPP	Freshwater Invertebrates Acute	Not specified	10.100	
99129-21-2	OPP	Freshwater Fish Acute	Not specified	12.200	

Benchmark Values for Clethodim in Surface Water (Fresh Water)

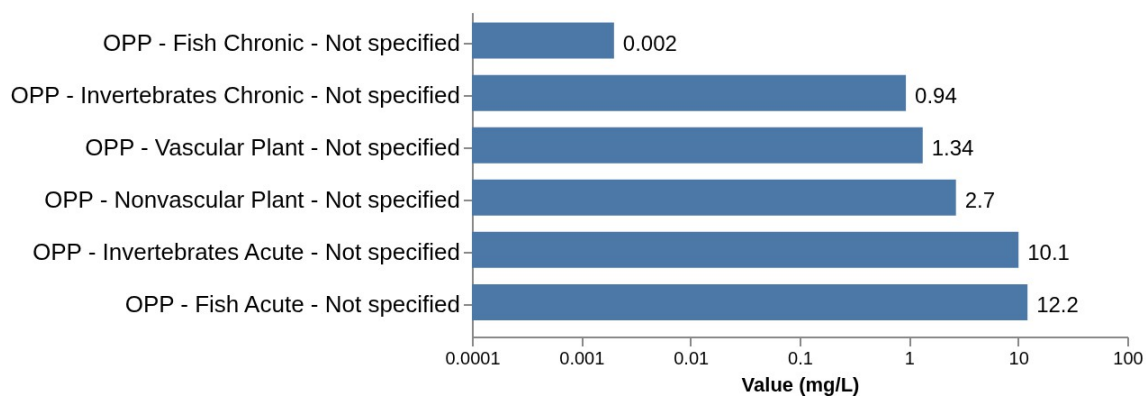


Table 214: Benchmark Values for Clodinafop-propargyl Degradate “Clodinafop acid” in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
114420-56-3	OPP	Freshwater Invertebrates Chronic	Not specified	2.6	
114420-56-3	OPP	Freshwater Invertebrates Acute	Not specified	4.6	22
114420-56-3	OPP	Freshwater Nonvascular Plant	Not specified	45.1	

Benchmark Values for Clodinafop-propargyl Degradate "Clodinafop acid" in Surface Water (Fresh Water)

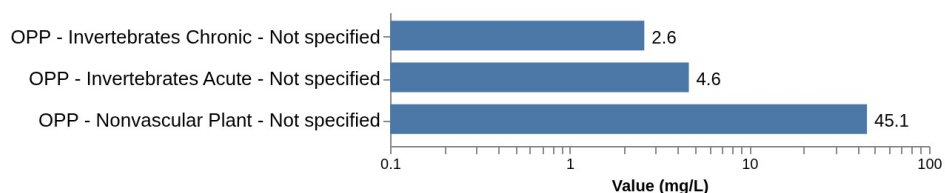


Table 215: Benchmark Values for Clodinafop-propargyl Degradate (CGA-302371) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
514797-96-7	OPP	Freshwater Nonvascular Plant	Not specified	30.60	
514797-96-7	OPP	Freshwater Fish Acute	Not specified	47.70	22
514797-96-7	OPP	Freshwater Invertebrates Acute	Not specified	49.45	22

Benchmark Values for Clodinafop-propargyl Degradate (CGA-302371) in Surface Water (Fresh Water)

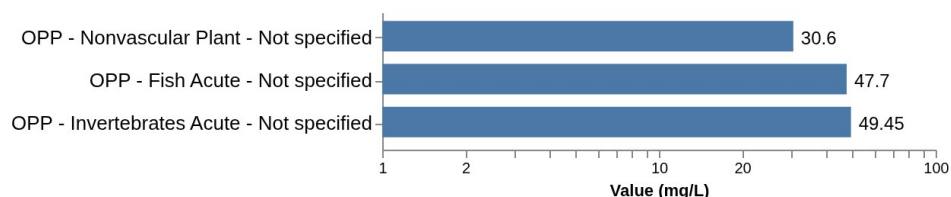


Table 216: Benchmark Values for Clodinafop-propargyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
105512-06-9	OPP	Freshwater Fish Chronic	Not specified	0.014	
105512-06-9	OPP	Freshwater Fish Acute	Not specified	0.120	
105512-06-9	OPP	Freshwater Invertebrates Acute	Not specified	1.000	22
105512-06-9	OPP	Freshwater Vascular Plant	Not specified	2.400	22
105512-06-9	OPP	Freshwater Invertebrates Chronic	Not specified	2.600	
105512-06-9	OPP	Freshwater Nonvascular Plant	Not specified	3.000	

Benchmark Values for Clodinafop-propargyl in Surface Water (Fresh Water)

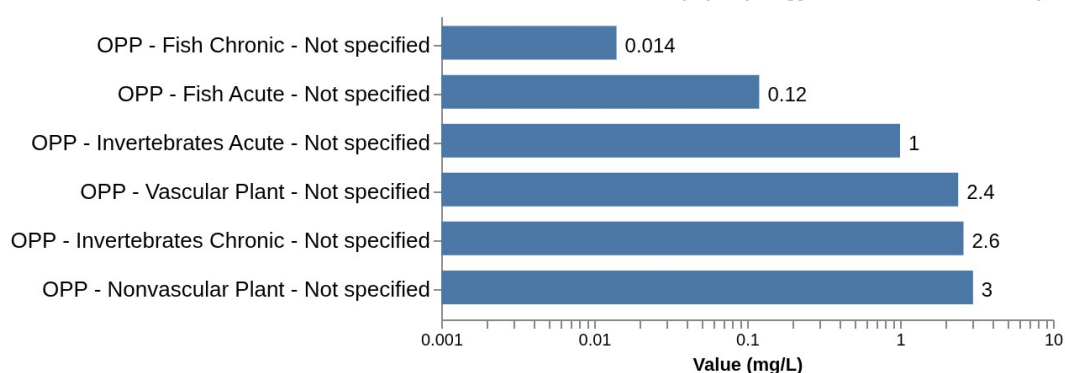


Table 217: Benchmark Values for Clofentezine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74115-24-5	OPP	Freshwater Fish Chronic	Not specified	0.0060	
74115-24-5	OPP	Freshwater Fish Acute	Not specified	0.0171	22
74115-24-5	OPP	Freshwater Invertebrates Acute	Not specified	0.0171	22
74115-24-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.0262	
74115-24-5	OPP	Freshwater Nonvascular Plant	Not specified	0.0342	22

Benchmark Values for Clofentezine in Surface Water (Fresh Water)

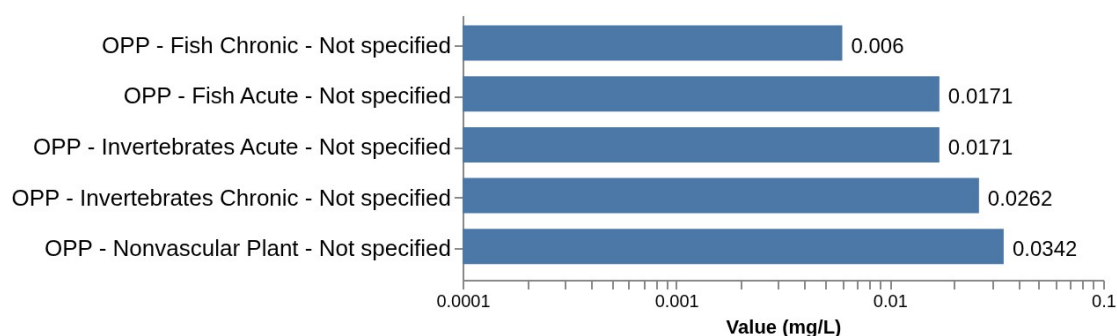


Table 218: Benchmark Values for Clomazone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
81777-89-1	OPP	Freshwater Nonvascular Plant	Not specified	0.167
81777-89-1	OPP	Freshwater Fish Chronic	Not specified	0.350
81777-89-1	OPP	Freshwater Fish Acute	Not specified	1.450
81777-89-1	OPP	Freshwater Invertebrates Chronic	Not specified	2.200
81777-89-1	OPP	Freshwater Invertebrates Acute	Not specified	2.700
81777-89-1	OPP	Freshwater Vascular Plant	Not specified	30.200

Benchmark Values for Clomazone in Surface Water (Fresh Water)

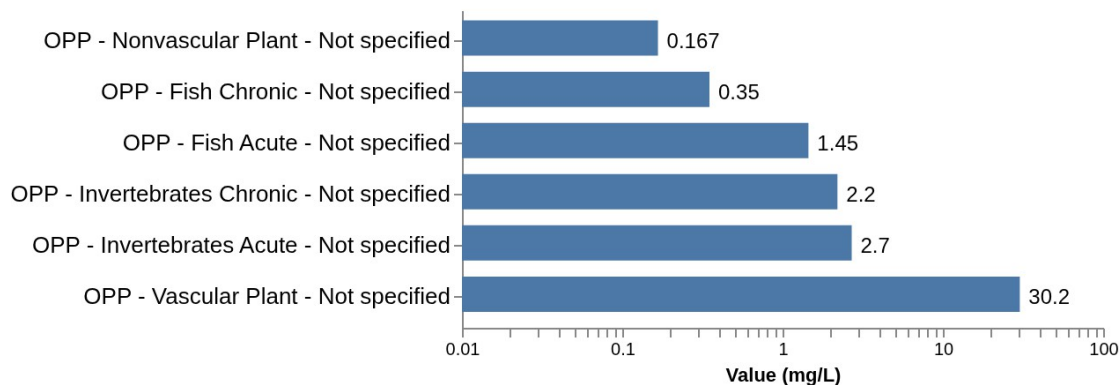


Table 219: Benchmark Values for Clopyralid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1702-17-6	OPP	Freshwater Nonvascular Plant	Not specified	6.90
1702-17-6	OPP	Freshwater Fish Acute	Not specified	51.75
1702-17-6	OPP	Freshwater Invertebrates Acute	Not specified	116.50

Benchmark Values for Clopyralid in Surface Water (Fresh Water)

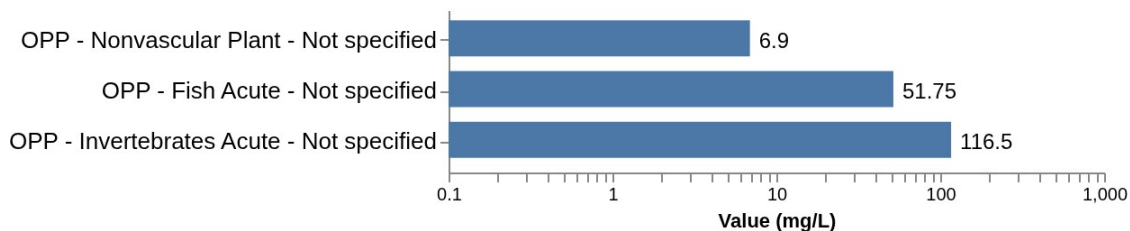


Table 220: Benchmark Values for Cloransulam–methyl degradate “Cloransulam” in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
159518–97–5	OPP	Freshwater Nonvascular Plant	Not specified	0.0074
159518–97–5	OPP	Freshwater Vascular Plant	Not specified	0.1300

Benchmark Values for Cloransulam-methyl degradate "Cloransulam" in Surface Water (Fresh Water)

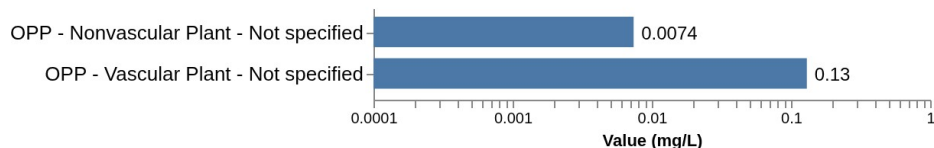


Table 221: Benchmark Values for Cloransulam–Methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
147150–35–4	OPP	Freshwater Vascular Plant	Not specified	0.00099	
147150–35–4	OPP	Freshwater Nonvascular Plant	Not specified	0.00300	
147150–35–4	OPP	Freshwater Invertebrates Chronic	Not specified	2.07000	23
147150–35–4	OPP	Freshwater Fish Chronic	Not specified	10.10000	
147150–35–4	OPP	Freshwater Fish Acute	Not specified	16.25000	22
147150–35–4	OPP	Freshwater Invertebrates Acute	Not specified	17.25000	22

Benchmark Values for Cloransulam-Methyl in Surface Water (Fresh Water)

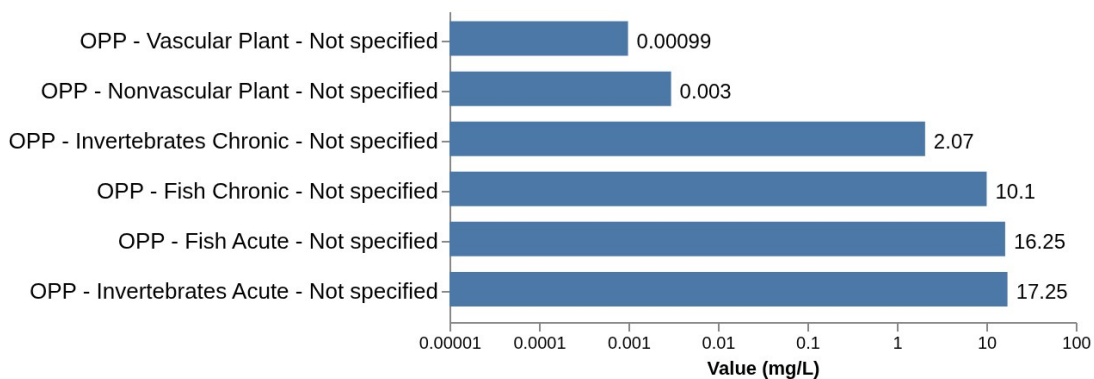


Table 222: Benchmark Values for Clothianidin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
210880-92-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00005	
210880-92-5	OPP	Freshwater Invertebrates Acute	Not specified	0.01100	
210880-92-5	OPP	Freshwater Fish Chronic	Not specified	9.70000	
210880-92-5	OPP	Freshwater Fish Acute	Not specified	50.75000	22
210880-92-5	OPP	Freshwater Nonvascular Plant	Not specified	64.00000	
210880-92-5	OPP	Freshwater Vascular Plant	Not specified	280.00000	22

Benchmark Values for Clothianidin in Surface Water (Fresh Water)

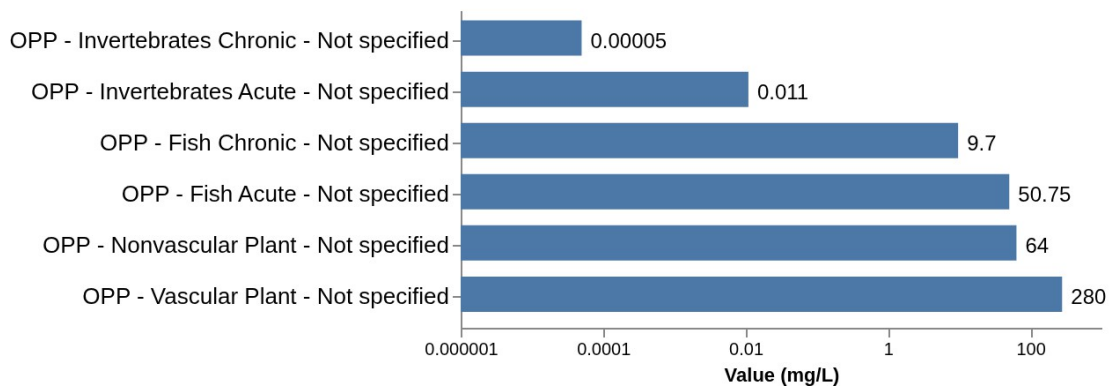


Table 223: Benchmark Values for Cobalt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-48-4	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0014	83
7440-48-4	British Columbia	Freshwater LTC	Not specified	0.0040	
7440-48-4	British Columbia	Freshwater STA	Not specified	0.1100	
7440-48-4	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0030	
7440-48-4	EPA Region 3	BTAG – Freshwater	Not specified	0.0230	
7440-48-4	EPA Region 4	Chronic Freshwater	Not specified	0.0190	
7440-48-4	EPA Region 4	Acute Freshwater	Not specified	0.1200	
7440-48-4	EPA Region 6	Freshwater Chronic	Not specified	0.0700	
7440-48-4	EPA Region 6	Freshwater Acute	Not specified	0.4200	

Benchmark Values for Cobalt in Surface Water (Fresh Water)

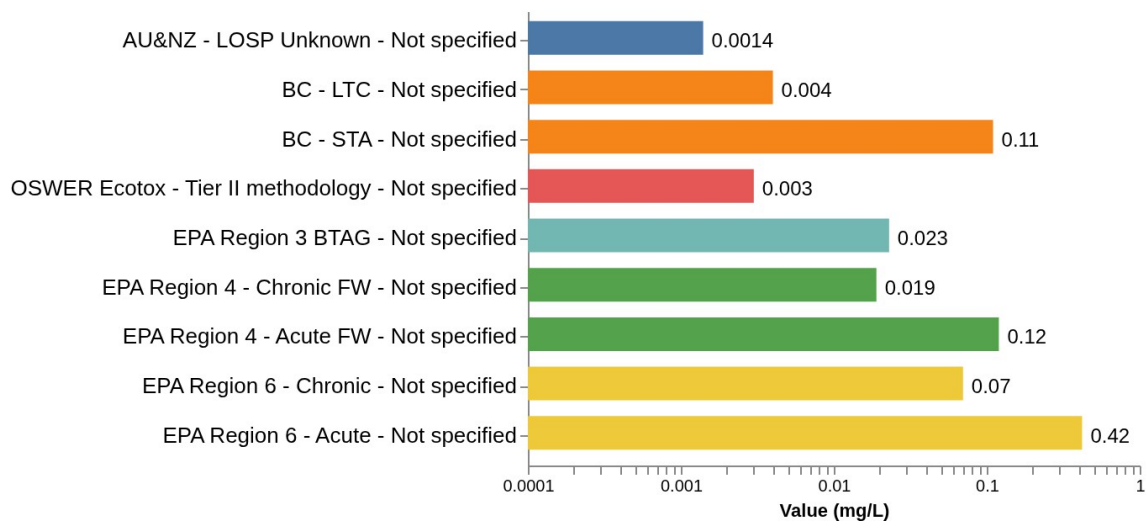


Table 224: Benchmark Values for Copper compounds in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-19-7	OPP	Freshwater Chronic	Not specified	0.0031
000000-19-7	OPP	Freshwater Acute	Not specified	0.0048

Benchmark Values for Copper compounds in Surface Water (Fresh Water)

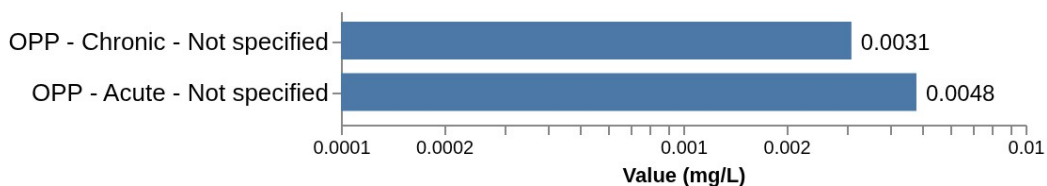


Table 225: Benchmark Values for Copper in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-50-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.001	85, 106
7440-50-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0014	85, 89, 106
7440-50-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0018	85, 94, 106
7440-50-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0025	85, 94, 106
7440-50-8	Canada	Freshwater Long Term	Not specified		59
7440-50-8	Delaware	Freshwater Acute Criterion	Not specified		236, 237
7440-50-8	Delaware	Freshwater Chronic Criterion	Not specified		236, 237
7440-50-8	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.011	157
7440-50-8	EPA Region 3	BTAG – Freshwater	Not specified	0.009	
7440-50-8	EPA Region 4	Chronic Freshwater	Not specified	0.00495	1, 2
7440-50-8	EPA Region 4	Acute Freshwater	Not specified	0.007	1, 2
7440-50-8	EPA Region 6	Freshwater Chronic	Not specified	0.00524	21
7440-50-8	EPA Region 6	Freshwater Acute	Not specified	0.00739	21
7440-50-8	New Jersey	Freshwater Chronic	Not specified	0.008471	202
7440-50-8	New Jersey	Freshwater Acute	Not specified	0.012711	202
7440-50-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00111	
7440-50-8	OPP	Freshwater Invertebrates Acute	Not specified	0.00205	
7440-50-8	OPP	Freshwater Nonvascular Plant	Not specified	0.0031	
7440-50-8	OPP	Freshwater Fish Chronic	Not specified	0.00901	
7440-50-8	OPP	Freshwater Fish Acute	Not specified	0.0157	
7440-50-8	OPP	Freshwater Vascular Plant	Not specified	2.3	

Benchmark Values for Copper in Surface Water (Fresh Water)

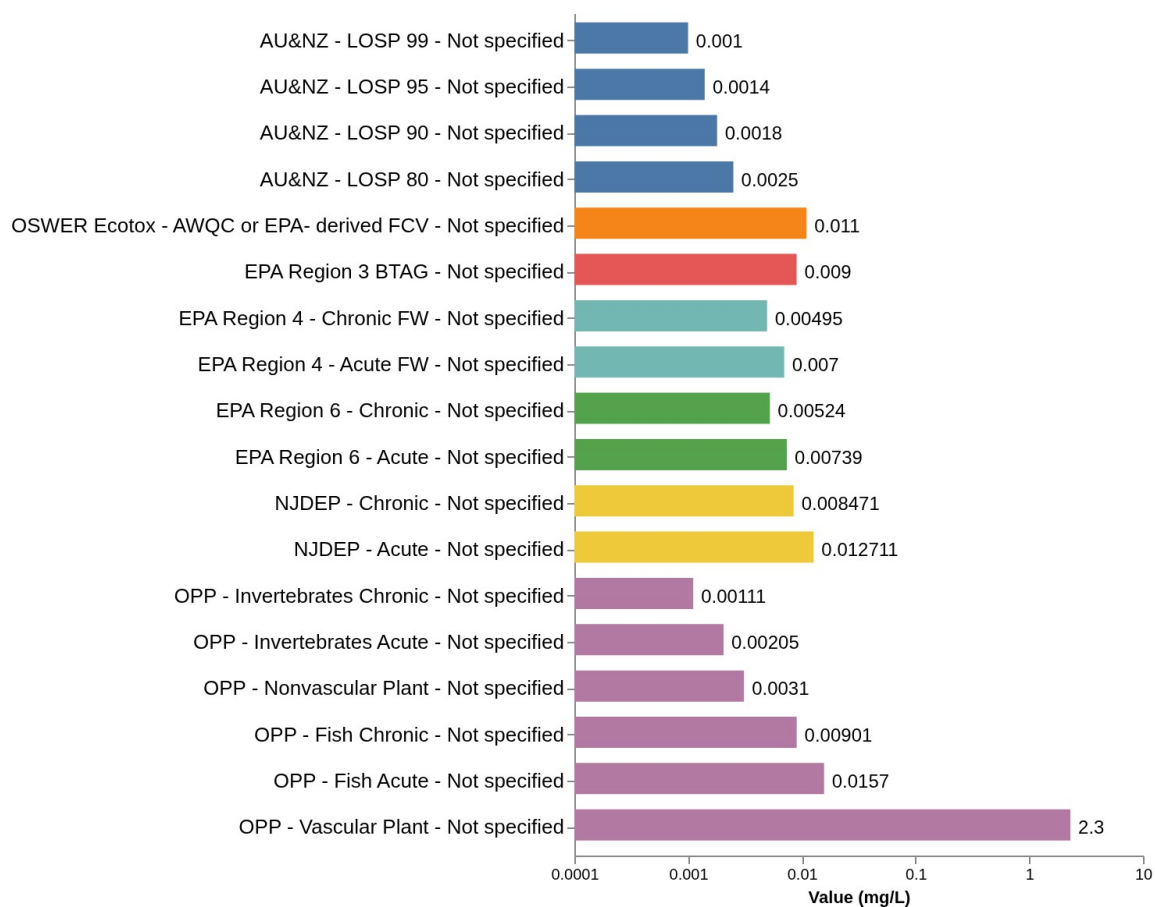


Table 226: Benchmark Values for Corexit 9550 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
101550-82-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.14	83

Benchmark Values for Corexit 9550 in Surface Water (Fresh Water)

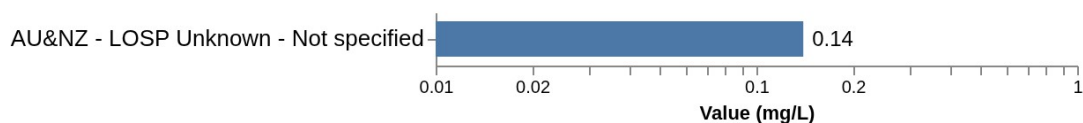


Table 227: Benchmark Values for Coumaphos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
56-72-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.000034
56-72-4	OPP	Freshwater Invertebrates Acute	Not specified	0.000037
56-72-4	OPP	Freshwater Fish Chronic	Not specified	0.011700
56-72-4	OPP	Freshwater Vascular Plant	Not specified	0.166000
56-72-4	OPP	Freshwater Fish Acute	Not specified	0.170000

Benchmark Values for Coumaphos in Surface Water (Fresh Water)

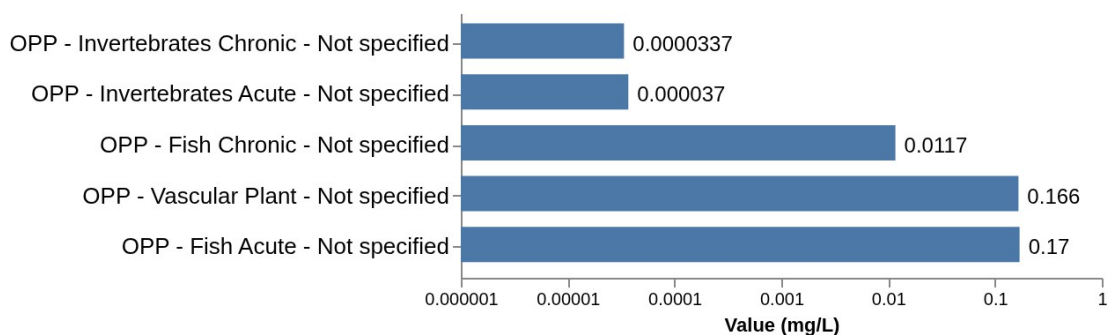


Table 228: Benchmark Values for Cresol, m- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-39-4	EPA Region 4	Chronic Freshwater	Not specified	0.062
108-39-4	EPA Region 4	Acute Freshwater	Not specified	0.560
108-39-4	EPA Region 6	Freshwater Chronic	Not specified	0.890
108-39-4	EPA Region 6	Freshwater Acute	Not specified	2.670

Benchmark Values for Cresol, m- in Surface Water (Fresh Water)

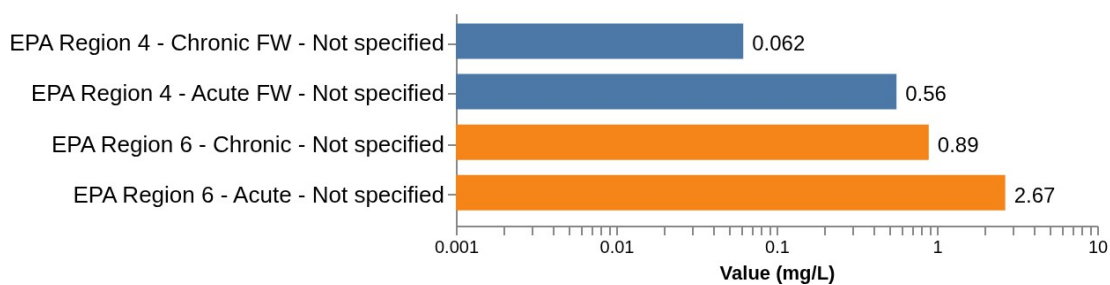


Table 229: Benchmark Values for Cresol, o- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
95-48-7	EPA Region 3	BTAG – Freshwater	Not specified	0.013
95-48-7	EPA Region 4	Chronic Freshwater	Not specified	0.067
95-48-7	EPA Region 4	Acute Freshwater	Not specified	0.600
95-48-7	EPA Region 6	Freshwater Chronic	Not specified	0.840
95-48-7	EPA Region 6	Freshwater Acute	Not specified	2.520

Benchmark Values for Cresol, o- in Surface Water (Fresh Water)

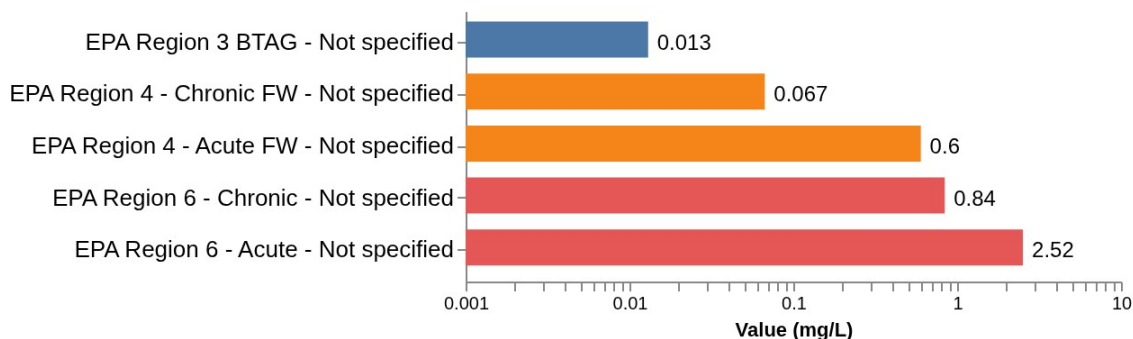


Table 230: Benchmark Values for Cresol, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
106-44-5	EPA Region 3	BTAG – Freshwater	Not specified	0.543
106-44-5	EPA Region 4	Chronic Freshwater	Not specified	0.053
106-44-5	EPA Region 4	Acute Freshwater	Not specified	0.480
106-44-5	EPA Region 6	Freshwater Chronic	Not specified	0.790
106-44-5	EPA Region 6	Freshwater Acute	Not specified	2.370

Benchmark Values for Cresol, p- in Surface Water (Fresh Water)

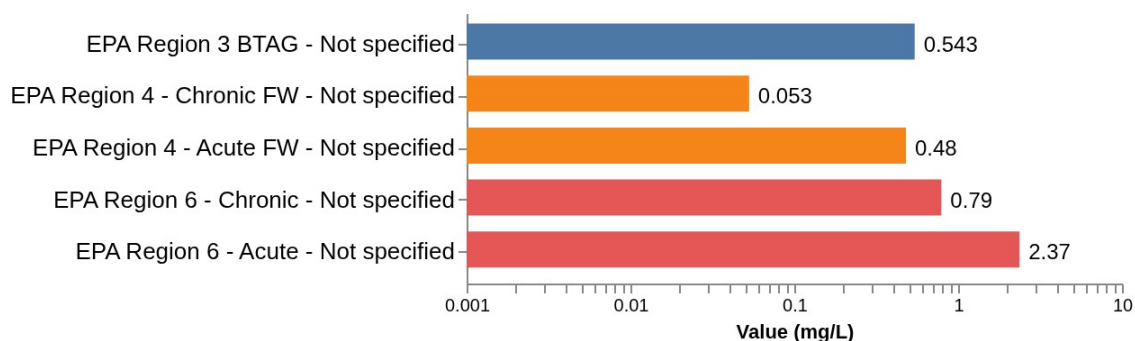


Table 231: Benchmark Values for Cresol, p-chloro-m- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
59-50-7	California	Freshwater acute toxicity	Not specified	0.030
59-50-7	EPA Region 4	Chronic Freshwater	Not specified	0.001
59-50-7	EPA Region 4	Acute Freshwater	Not specified	0.067
59-50-7	EPA Region 6	Freshwater Chronic	Not specified	0.100
59-50-7	EPA Region 6	Freshwater Acute	Not specified	0.600

Benchmark Values for Cresol, p-chloro-m- in Surface Water (Fresh Water)

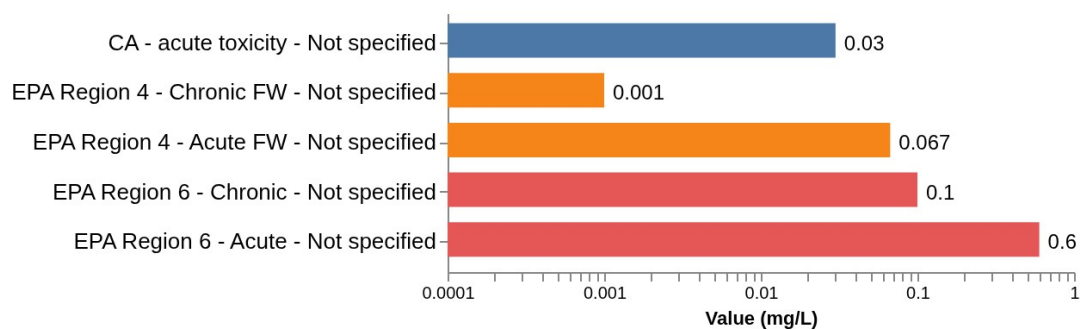


Table 232: Benchmark Values for Cumene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98-82-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0200	83
98-82-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0300	83, 89
98-82-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0400	83
98-82-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0700	83
98-82-8	EPA Region 3	BTAG – Freshwater	Not specified	0.0026	
98-82-8	EPA Region 4	Chronic Freshwater	Not specified	0.0048	
98-82-8	EPA Region 4	Acute Freshwater	Not specified	0.0430	
98-82-8	EPA Region 6	Freshwater Chronic	Not specified	0.2550	
98-82-8	EPA Region 6	Freshwater Acute	Not specified	1.5300	

Benchmark Values for Cumene in Surface Water (Fresh Water)

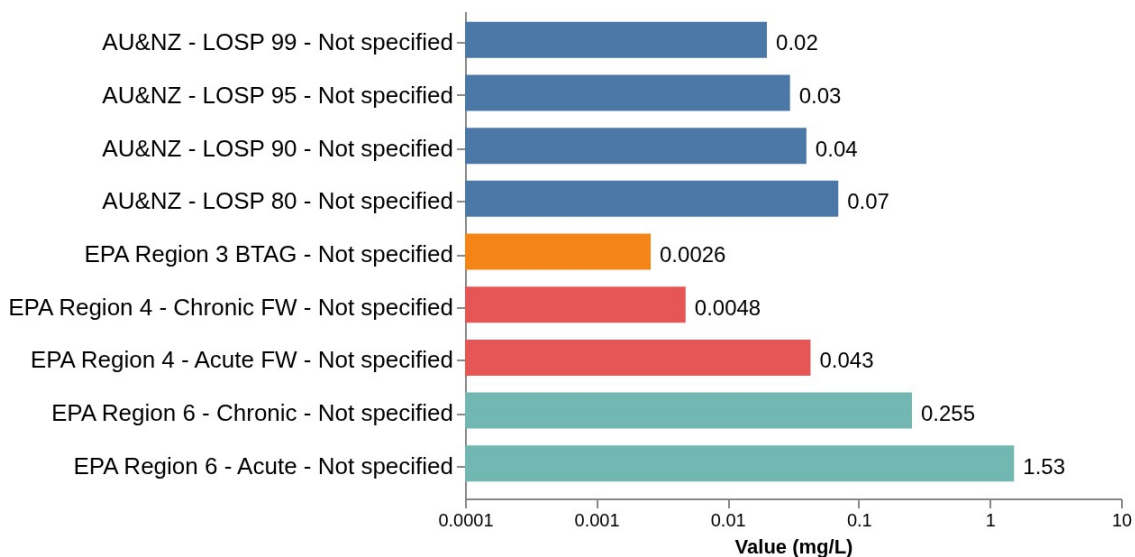


Table 233: Benchmark Values for Cyanazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
21725-46-2	Canada	Freshwater Long Term	Not specified	0.0020
21725-46-2	EPA Region 4	Chronic Freshwater	Not specified	0.0182
21725-46-2	EPA Region 4	Acute Freshwater	Not specified	0.3280

Benchmark Values for Cyanazine in Surface Water (Fresh Water)

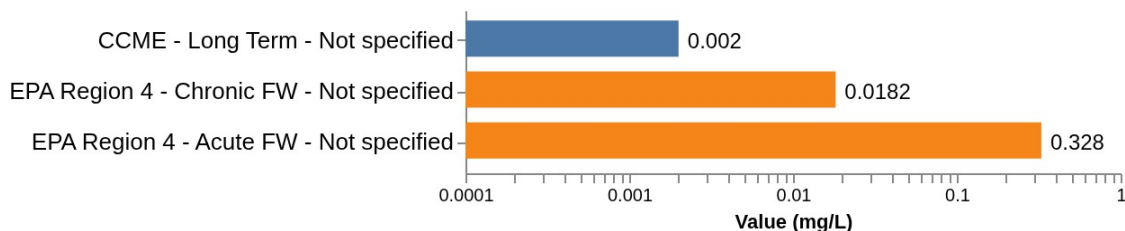


Table 234: Benchmark Values for Cyanide (CN⁻) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57-12-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0040	88, 107
57-12-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0070	88, 89, 107
57-12-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0110	88, 107
57-12-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0180	88, 107
57-12-5	British Columbia	Freshwater LTC	Not specified	0.0050	
57-12-5	British Columbia	Freshwater STA	Not specified	0.0100	
57-12-5	California	Freshwater CCC, 4-day average	Not specified	0.0052	216
57-12-5	California	Freshwater CMC, 1-hour average	Not specified	0.0220	216
57-12-5	California	Freshwater CMC, 1-hour average	Not specified	0.0220	226
57-12-5	Canada	Freshwater Long Term	Not specified	0.0050	
57-12-5	Delaware	Freshwater Chronic Criterion	Not specified	0.0052	238
57-12-5	Delaware	Freshwater Acute Criterion	Not specified	0.0220	238
57-12-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0052	
57-12-5	EPA NRWQC	Freshwater CMC Acute	Not specified	0.0220	
57-12-5	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.0052	
57-12-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0050	
57-12-5	EPA Region 4	Chronic Freshwater	Not specified	0.0052	
57-12-5	EPA Region 4	Acute Freshwater	Not specified	0.0220	
57-12-5	EPA Region 6	Freshwater Chronic	Not specified	0.0107	
57-12-5	EPA Region 6	Freshwater Acute	Not specified	0.0458	
57-12-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0052	
57-12-5	New Jersey	Freshwater Chronic	Not specified	0.0052	201
57-12-5	New Jersey	Freshwater Acute	Not specified	0.0220	201

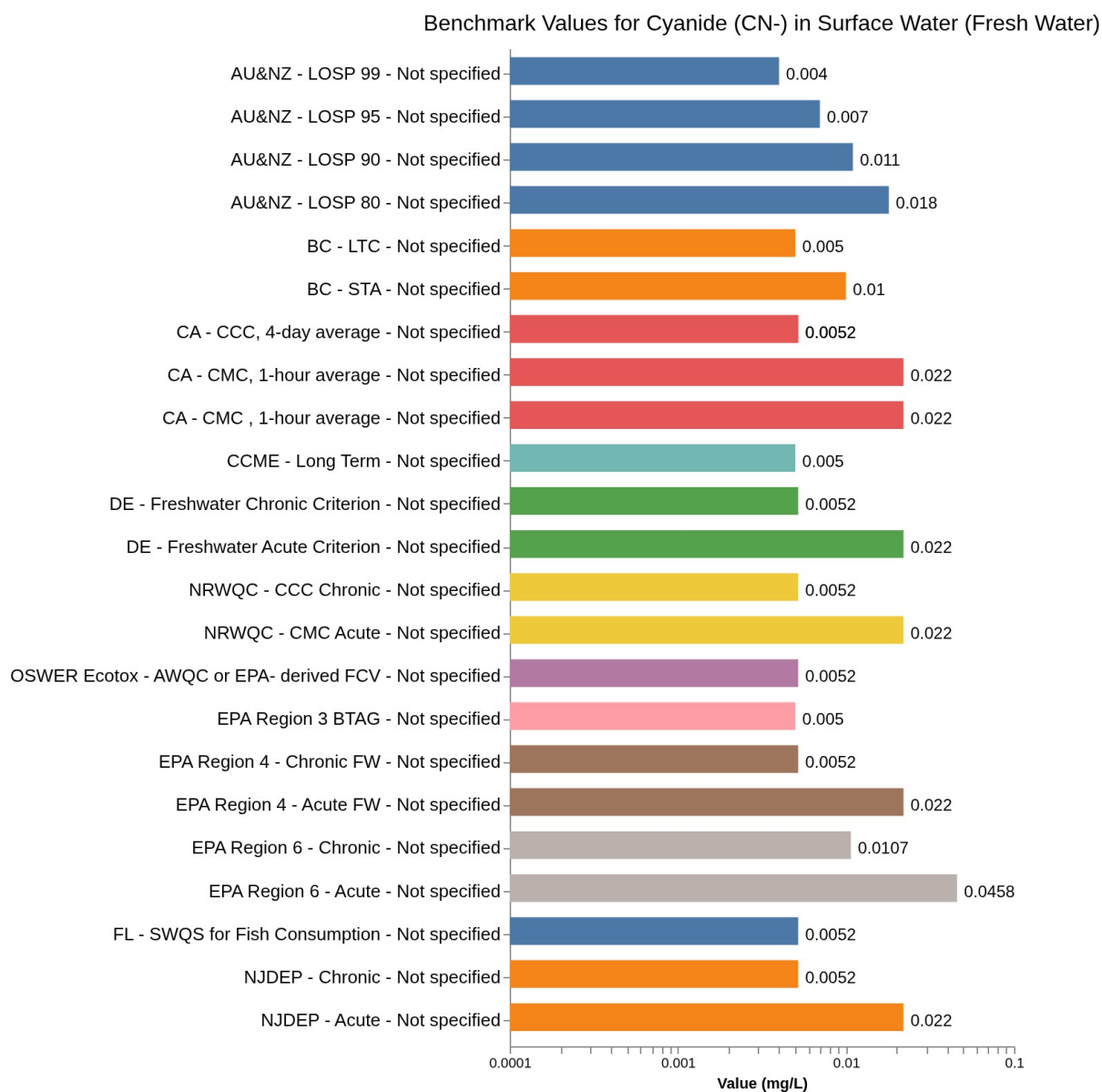


Table 235: Benchmark Values for Cyantraniliprole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
736994-63-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.00656	
736994-63-1	OPP	Freshwater Invertebrates Acute	Not specified	0.01020	
736994-63-1	OPP	Freshwater Fish Acute	Not specified	5.00000	22
736994-63-1	OPP	Freshwater Nonvascular Plant	Not specified	10.00000	22
736994-63-1	OPP	Freshwater Fish Chronic	Not specified	10.70000	
736994-63-1	OPP	Freshwater Vascular Plant	Not specified	12.10000	22

Benchmark Values for Cyantraniliprole in Surface Water (Fresh Water)

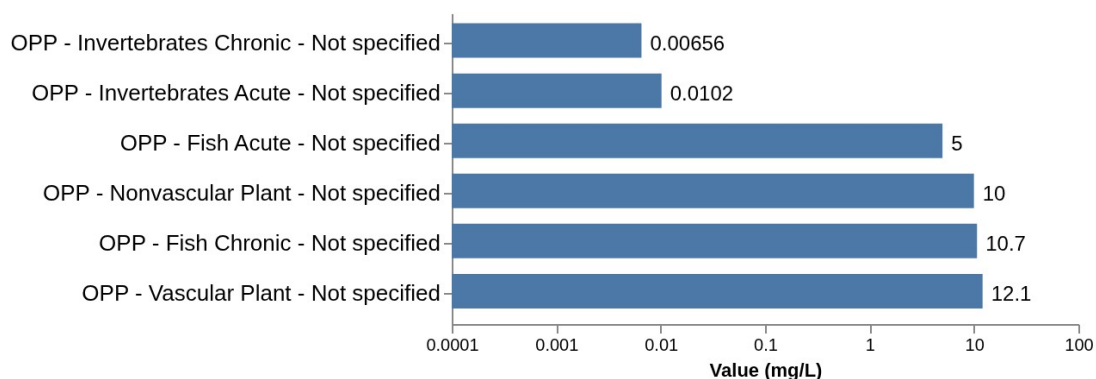


Table 236: Benchmark Values for Cyazofamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120116-88-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.0087	23
120116-88-3	OPP	Freshwater Fish Acute	Not specified	0.0700	22
120116-88-3	OPP	Freshwater Invertebrates Acute	Not specified	0.0790	
120116-88-3	OPP	Freshwater Fish Chronic	Not specified	0.0901	
120116-88-3	OPP	Freshwater Nonvascular Plant	Not specified	0.1000	
120116-88-3	OPP	Freshwater Vascular Plant	Not specified	1.2200	22

Benchmark Values for Cyazofamid in Surface Water (Fresh Water)

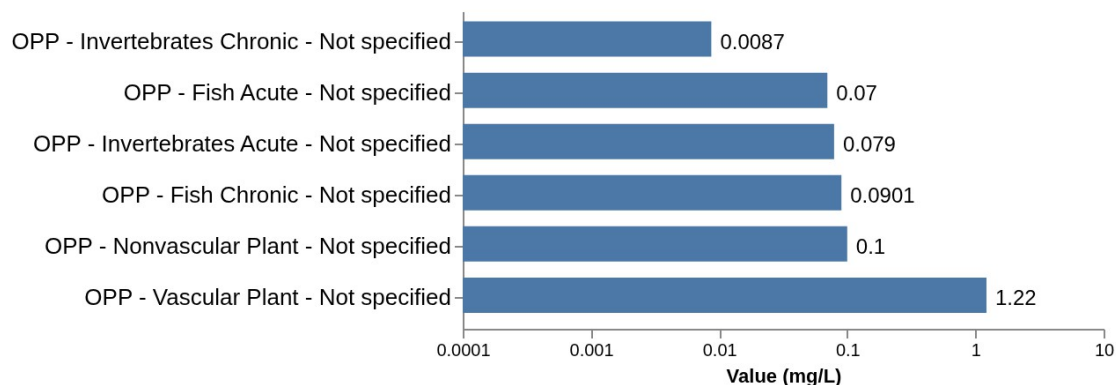


Table 237: Benchmark Values for Cyclanilide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
113136-77-9	OPP	Freshwater Nonvascular Plant	Not specified	0.08	
113136-77-9	OPP	Freshwater Vascular Plant	Not specified	0.22	22
113136-77-9	OPP	Freshwater Fish Chronic	Not specified	2.60	
113136-77-9	OPP	Freshwater Fish Acute	Not specified	5.50	22
113136-77-9	OPP	Freshwater Invertebrates Acute	Not specified	6.50	22
113136-77-9	OPP	Freshwater Invertebrates Chronic	Not specified	12.60	

Benchmark Values for Cyclanilide in Surface Water (Fresh Water)

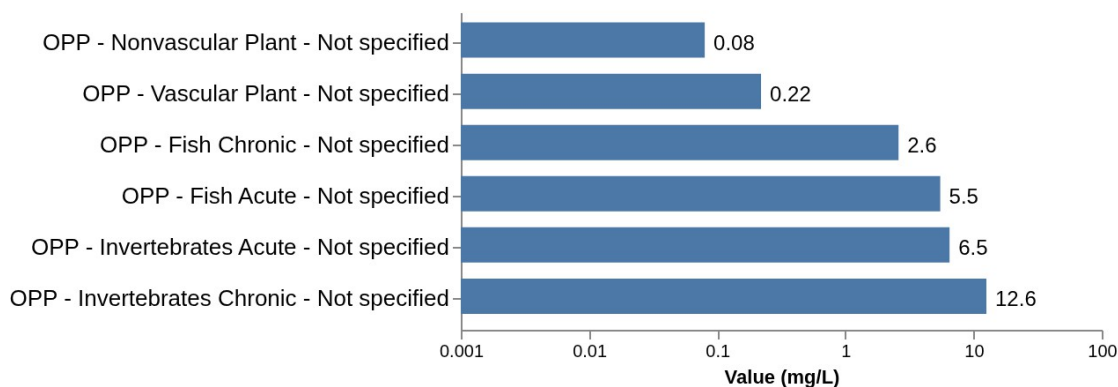


Table 238: Benchmark Values for Cyclaniliprole degradate NK-1375 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-35-4	OPP	Freshwater Invertebrates Acute	Not specified	0.02715	22

Benchmark Values for Cyclaniliprole degradate NK-1375 in Surface Water (Fresh Water)

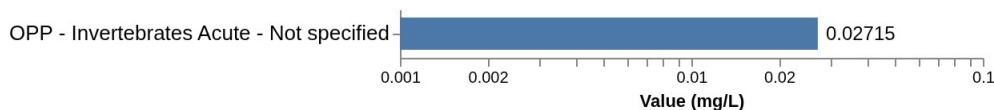


Table 239: Benchmark Values for Cyclaniliprole degradate NU-356 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-35-5	OPP	Freshwater Invertebrates Acute	Not specified	12.2	22

Benchmark Values for Cyclaniliprole degradate NU-356 in Surface Water (Fresh Water)

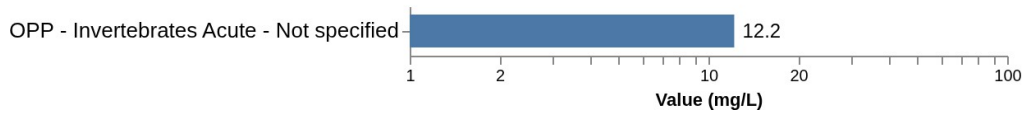


Table 240: Benchmark Values for Cyclaniliprole degradate TJ-537 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-6	OPP	Freshwater Invertebrates Acute	Not specified	0.188

Benchmark Values for Cyclaniliprole degradate TJ-537 in Surface Water (Fresh Water)

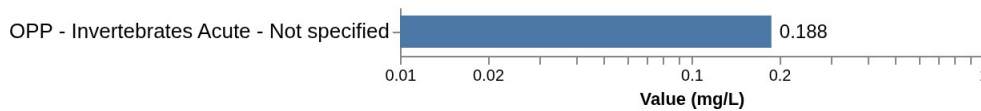


Table 241: Benchmark Values for Cycloate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1134-23-2	OPP	Freshwater Fish Chronic	Not specified	0.031
1134-23-2	OPP	Freshwater Nonvascular Plant	Not specified	0.061
1134-23-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.220
1134-23-2	OPP	Freshwater Invertebrates Acute	Not specified	1.200
1134-23-2	OPP	Freshwater Vascular Plant	Not specified	2.225
1134-23-2	OPP	Freshwater Fish Acute	Not specified	2.250

Benchmark Values for Cycloate in Surface Water (Fresh Water)

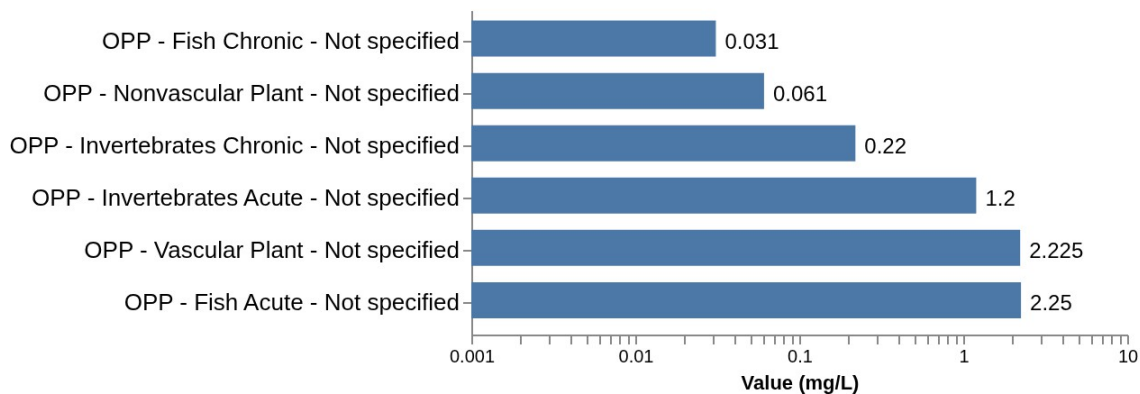


Table 242: Benchmark Values for Cyclohexane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
110-82-7	EPA Region 4	Chronic Freshwater	Not specified	0.158
110-82-7	EPA Region 4	Acute Freshwater	Not specified	0.890

Benchmark Values for Cyclohexane in Surface Water (Fresh Water)

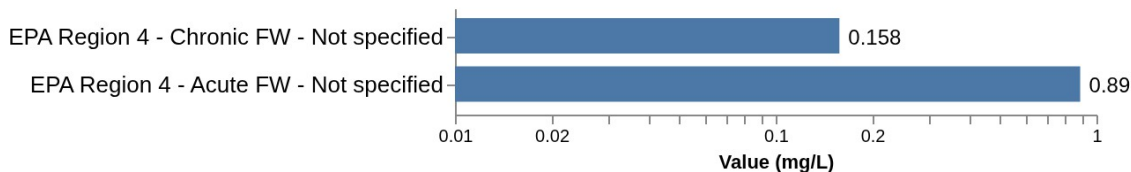


Table 243: Benchmark Values for Cyflumetofen degradate AB-1 dimer in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00561

Benchmark Values for Cyflumetofen degradate AB-1 dimer in Surface Water (Fresh Water)

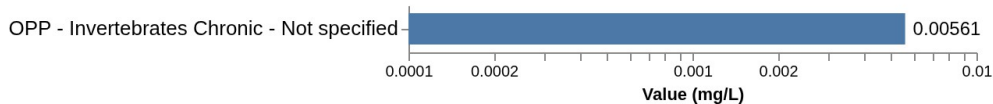


Table 244: Benchmark Values for Cyflumetofen degradate AB-1 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-35-7	OPP	Freshwater Invertebrates Chronic	Not specified	34.2

Benchmark Values for Cyflumetofen degradate AB-1 in Surface Water (Fresh Water)

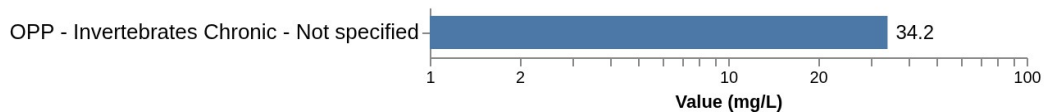


Table 245: Benchmark Values for Cyflumetofen degradate AB-11 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
400882-00-0	OPP	Freshwater Nonvascular Plant	Not specified	0.483	22

Benchmark Values for Cyflumetofen degradate AB-11 in Surface Water (Fresh Water)

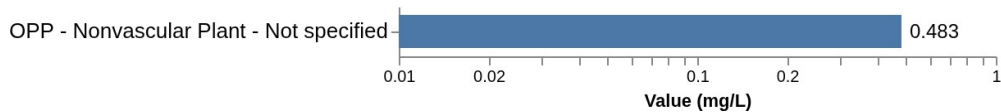


Table 246: Benchmark Values for Cyflumetofen degradate B-2 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-35-9	OPP	Freshwater Invertebrates Acute	Not specified	0.01	22

Benchmark Values for Cyflumetofen degradate B-2 in Surface Water (Fresh Water)

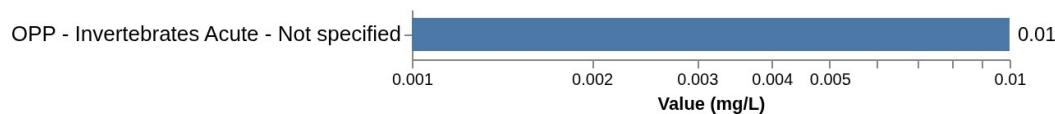


Table 247: Benchmark Values for Cyflumetofen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
400882-07-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00860	22
400882-07-7	OPP	Freshwater Fish Acute	Not specified	0.00875	22
400882-07-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.01620	
400882-07-7	OPP	Freshwater Nonvascular Plant	Not specified	0.02380	22
400882-07-7	OPP	Freshwater Fish Chronic	Not specified	0.03160	
400882-07-7	OPP	Freshwater Vascular Plant	Not specified	0.03830	22

Benchmark Values for Cyflumetofen in Surface Water (Fresh Water)

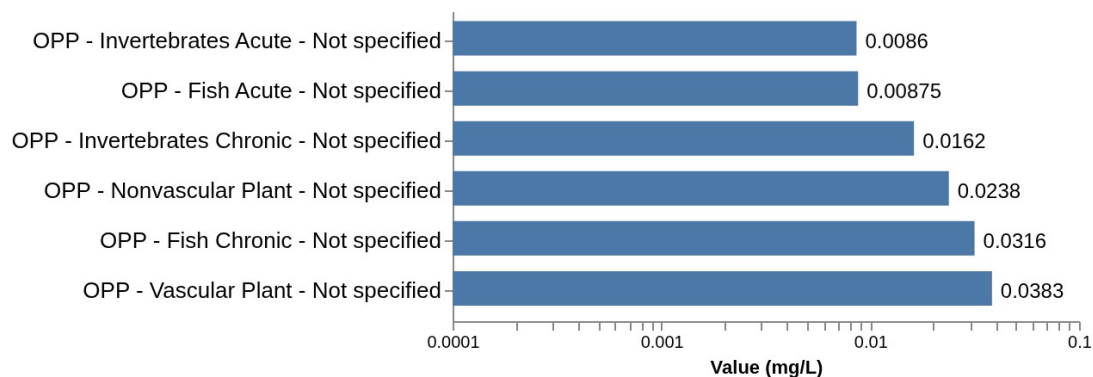


Table 248: Benchmark Values for Cyfluthrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68359-37-5	OPP	Freshwater Invertebrates Chronic	Not specified	1.200000e-07	
68359-37-5	OPP	Freshwater Fish Chronic	Not specified	4.200000e-06	
68359-37-5	OPP	Freshwater Invertebrates Acute	Not specified	1.250000e-05	
68359-37-5	OPP	Freshwater Fish Acute	Not specified	3.400000e-05	
68359-37-5	OPP	Freshwater Nonvascular Plant	Not specified	2.000000e-03	22

Benchmark Values for Cyfluthrin in Surface Water (Fresh Water)

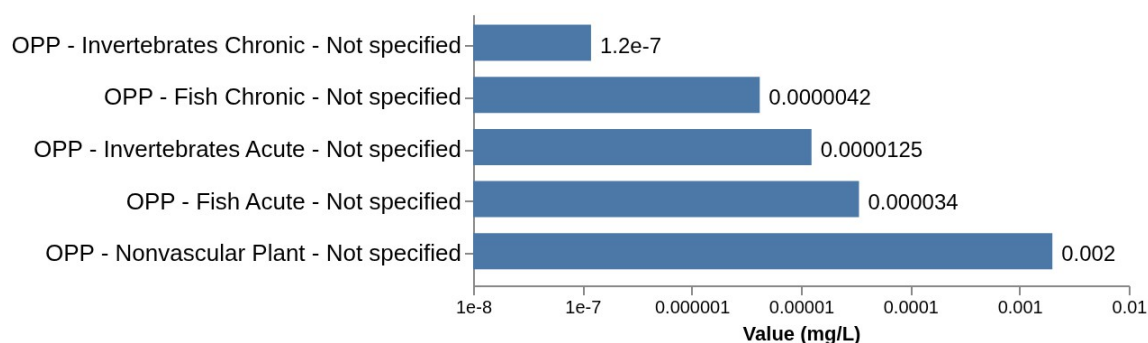


Table 249: Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122008-78-0	OPP	Freshwater Fish Acute	Not specified	49.6	22
122008-78-0	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22
122008-78-0	OPP	Freshwater Nonvascular Plant	Not specified	78.2	22

Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-acid in Surface Water (Fresh Water)

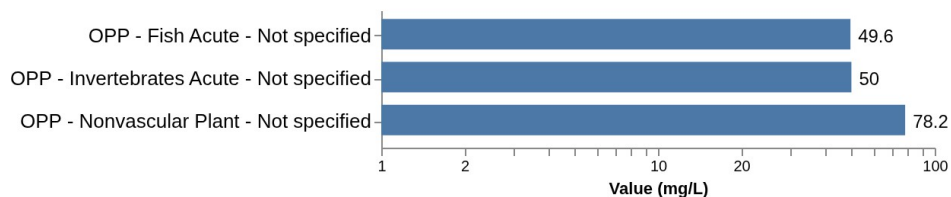


Table 250: Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-amide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-0	OPP	Freshwater Fish Acute	Not specified	44.2	22
000000-36-0	OPP	Freshwater Nonvascular Plant	Not specified	50.0	
000000-36-0	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22

Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-amide in Surface Water (Fresh Water)

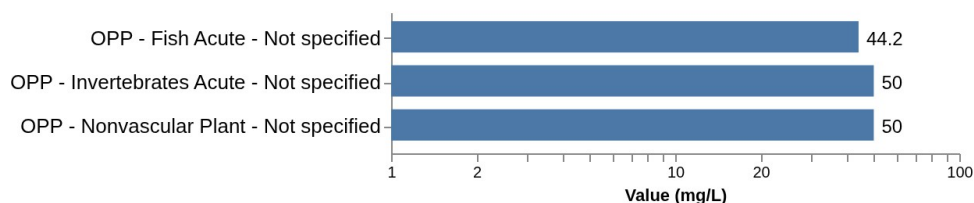


Table 251: Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-diacid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-1	OPP	Freshwater Fish Acute	Not specified	47.70	22
000000-36-1	OPP	Freshwater Invertebrates Acute	Not specified	47.95	22
000000-36-1	OPP	Freshwater Nonvascular Plant	Not specified	96.40	22
000000-36-1	OPP	Freshwater Invertebrates Chronic	Not specified	98.30	

Benchmark Values for Cyhalofop-butyl degradate Cyhalofop-diacid in Surface Water (Fresh Water)

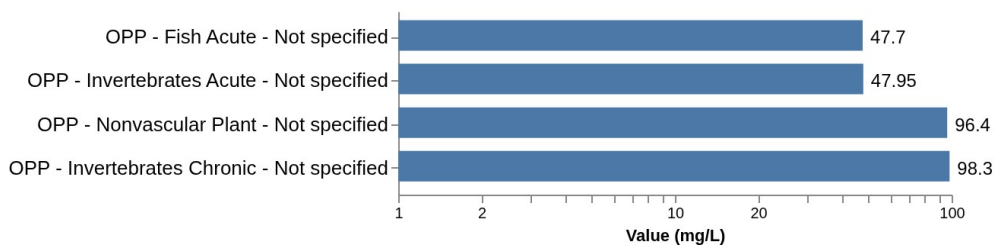


Table 252: Benchmark Values for Cyhalofop-butyl degradate FHPBA in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-2	OPP	Freshwater Invertebrates Acute	Not specified	0.2	22
000000-36-2	OPP	Freshwater Nonvascular Plant	Not specified	0.4	22

Benchmark Values for Cyhalofop-butyl degradate FHPBA in Surface Water (Fresh Water)

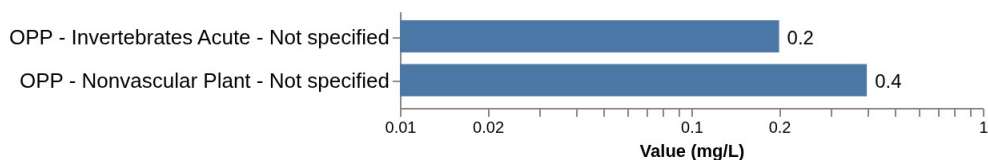


Table 253: Benchmark Values for Cyhalofop-butyl degradate HPPA in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-3	OPP	Freshwater Invertebrates Acute	Not specified	0.2	22
000000-36-3	OPP	Freshwater Nonvascular Plant	Not specified	0.4	22

Benchmark Values for Cyhalofop-butyl degradate HPPA in Surface Water (Fresh Water)

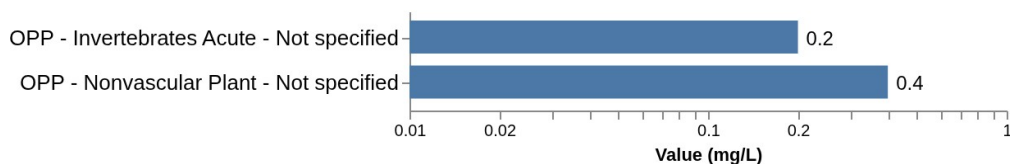


Table 254: Benchmark Values for Cyhalofop-butyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122008-85-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0474	
122008-85-9	OPP	Freshwater Fish Chronic	Not specified	0.1340	
122008-85-9	OPP	Freshwater Invertebrates Acute	Not specified	0.2920	22
122008-85-9	OPP	Freshwater Fish Acute	Not specified	0.3800	
122008-85-9	OPP	Freshwater Nonvascular Plant	Not specified	0.8900	

Benchmark Values for Cyhalofop-butyl in Surface Water (Fresh Water)

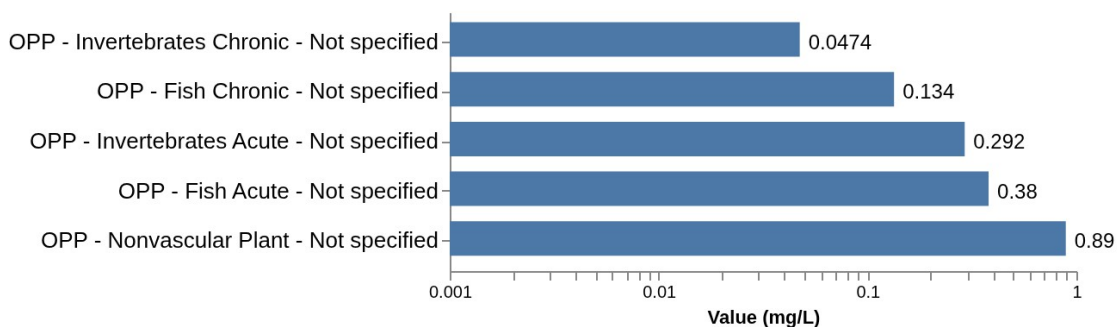


Table 255: Benchmark Values for Cyhexatin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
13121-70-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000085
13121-70-5	OPP	Freshwater Fish Acute	Not specified	0.000645

Benchmark Values for Cyhexatin in Surface Water (Fresh Water)

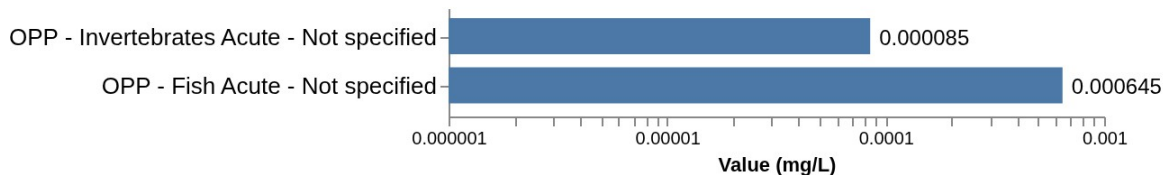


Table 256: Benchmark Values for Cymoxanil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57966-95-7	OPP	Freshwater Fish Chronic	Not specified	0.00098	
57966-95-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.06700	
57966-95-7	OPP	Freshwater Nonvascular Plant	Not specified	0.20200	
57966-95-7	OPP	Freshwater Vascular Plant	Not specified	0.79380	22
57966-95-7	OPP	Freshwater Invertebrates Acute	Not specified	14.00000	
57966-95-7	OPP	Freshwater Fish Acute	Not specified	14.50000	

Benchmark Values for Cymoxanil in Surface Water (Fresh Water)

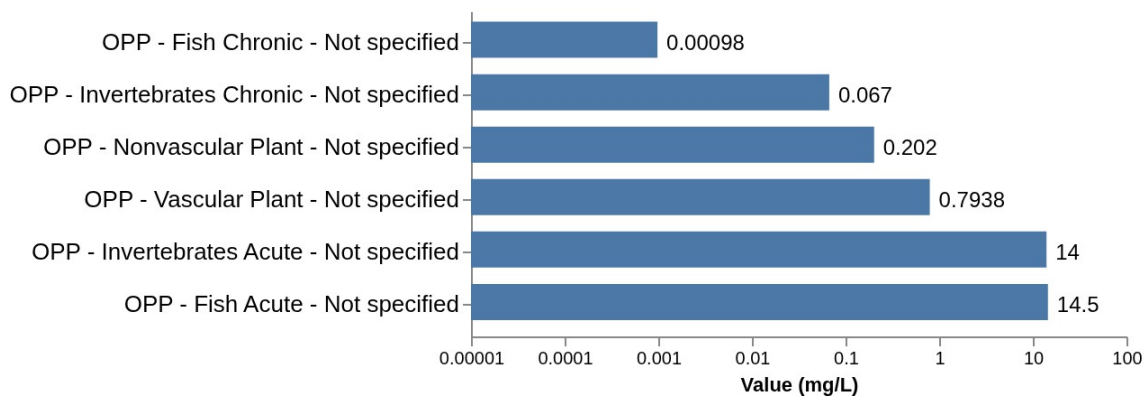


Table 257: Benchmark Values for Cypermethrin, Alpha- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67375-30-8	OPP	Freshwater Invertebrates Chronic	Not specified	5.900000e-07	
67375-30-8	OPP	Freshwater Invertebrates Acute	Not specified	1.800000e-06	
67375-30-8	OPP	Freshwater Fish Chronic	Not specified	1.400000e-04	
67375-30-8	OPP	Freshwater Fish Acute	Not specified	1.100000e-03	
67375-30-8	OPP	Freshwater Vascular Plant	Not specified	1.620000e-03	22
67375-30-8	OPP	Freshwater Nonvascular Plant	Not specified	2.500000e+01	

Benchmark Values for Cypermethrin, Alpha- in Surface Water (Fresh Water)

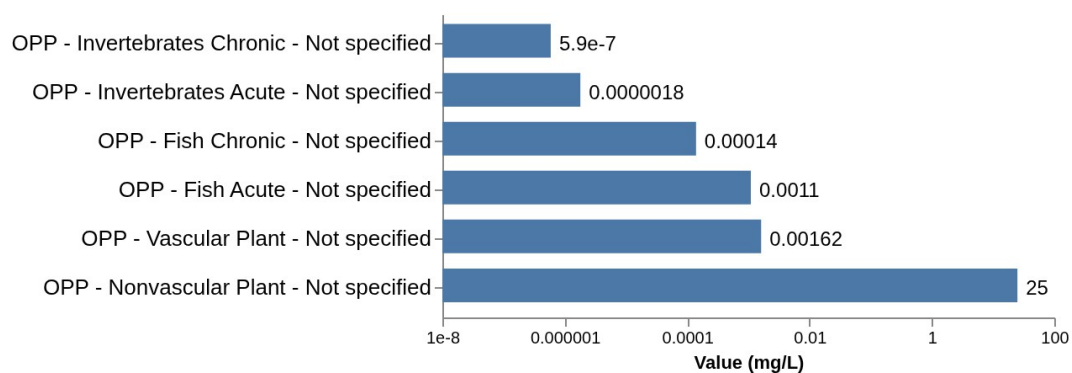


Table 258: Benchmark Values for Cypermethrin, Beta- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
65731-84-2	OPP	Freshwater Fish Acute	Not specified	0.000195

Benchmark Values for Cypermethrin, Beta- in Surface Water (Fresh Water)

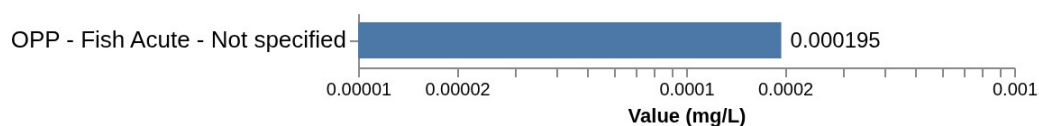


Table 259: Benchmark Values for Cypermethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52315-07-8	California	Freshwater CMC, 1-hour average	Not specified	2.000000e-06	
52315-07-8	OPP	Freshwater Invertebrates Chronic	Not specified	5.000000e-08	23
52315-07-8	OPP	Freshwater Invertebrates Acute	Not specified	2.800000e-07	
52315-07-8	OPP	Freshwater Fish Chronic	Not specified	5.100000e-05	
52315-07-8	OPP	Freshwater Fish Acute	Not specified	1.950000e-04	
52315-07-8	OPP	Freshwater Vascular Plant	Not specified	1.620000e-03	22
52315-07-8	OPP	Freshwater Nonvascular Plant	Not specified	2.500000e+01	

Benchmark Values for Cypermethrin in Surface Water (Fresh Water)

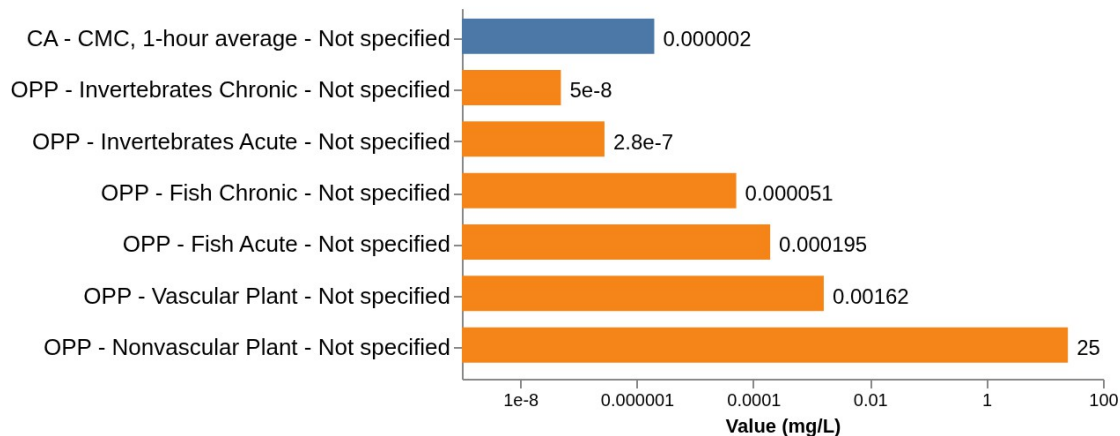


Table 260: Benchmark Values for Cyphenothrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
39515-40-7	OPP	Freshwater Fish Acute	Not specified	0.000170
39515-40-7	OPP	Freshwater Invertebrates Acute	Not specified	0.000215

Benchmark Values for Cyphenothrin in Surface Water (Fresh Water)

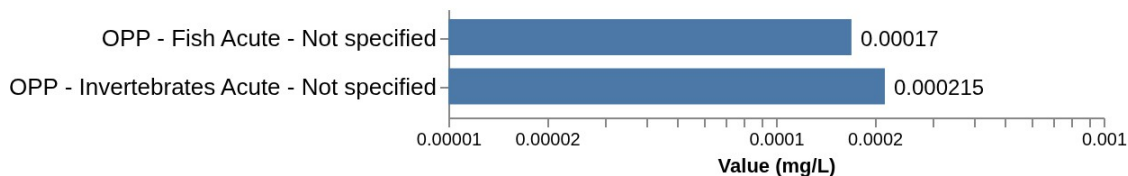


Table 261: Benchmark Values for Cyprodinil degradate "CGA 249287" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
92238-61-4	OPP	Freshwater Invertebrates Acute	Not specified	49.0	22

Benchmark Values for Cyprodinil degradate "CGA 249287" in Surface Water (Fresh Water)

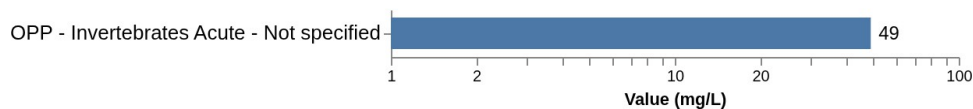


Table 262: Benchmark Values for Cyprodinil degradate "CGA 275535" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-4	OPP	Freshwater Invertebrates Acute	Not specified	3.53	22

Benchmark Values for Cyprodinil degradate "CGA 275535" in Surface Water (Fresh Water)

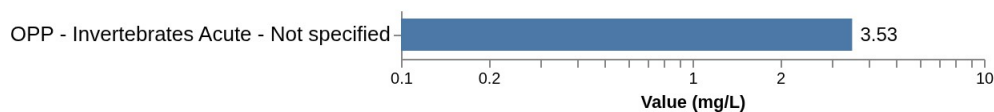


Table 263: Benchmark Values for Cyprodinil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
121552-61-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0082
121552-61-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0160
121552-61-2	OPP	Freshwater Fish Chronic	Not specified	0.2300
121552-61-2	OPP	Freshwater Fish Acute	Not specified	1.0900
121552-61-2	OPP	Freshwater Nonvascular Plant	Not specified	1.9700
121552-61-2	OPP	Freshwater Vascular Plant	Not specified	5.9000

Benchmark Values for Cyprodinil in Surface Water (Fresh Water)

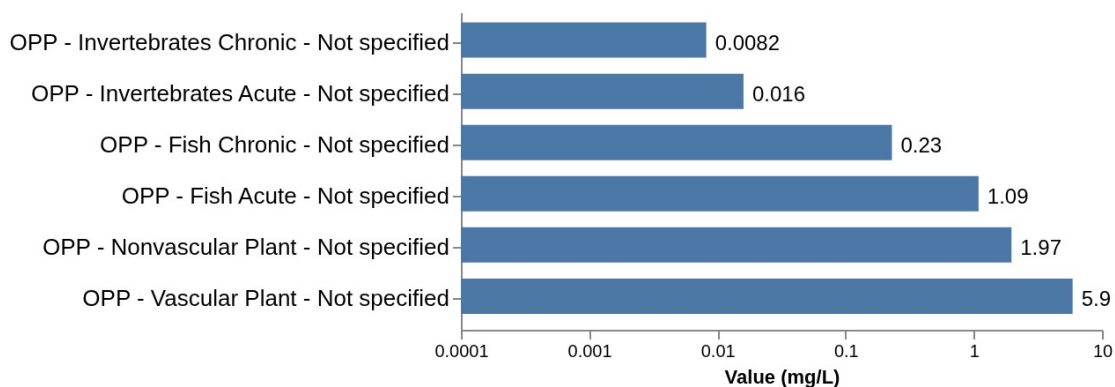


Table 264: Benchmark Values for Cyromazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
66215-27-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.31	
66215-27-8	OPP	Freshwater Fish Acute	Not specified	42.00	22
66215-27-8	OPP	Freshwater Invertebrates Acute	Not specified	44.35	22
66215-27-8	OPP	Freshwater Fish Chronic	Not specified	73.00	
66215-27-8	OPP	Freshwater Nonvascular Plant	Not specified	124.00	

Benchmark Values for Cyromazine in Surface Water (Fresh Water)

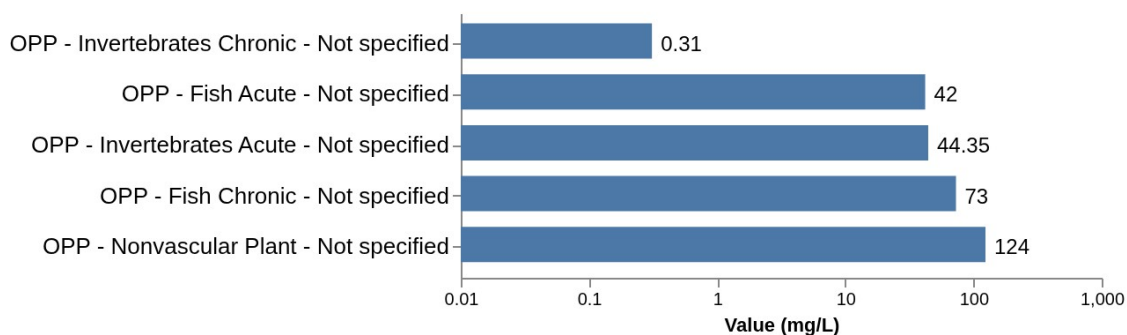


Table 265: Benchmark Values for D acids and salts, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-5	OPP	Freshwater Vascular Plant	Not specified	0.2992	
000000-36-5	OPP	Freshwater Nonvascular Plant	Not specified	3.8800	
000000-36-5	OPP	Freshwater Invertebrates Acute	Not specified	12.5000	
000000-36-5	OPP	Freshwater Invertebrates Chronic	Not specified	16.0500	
000000-36-5	OPP	Freshwater Fish Chronic	Not specified	23.6000	
000000-36-5	OPP	Freshwater Fish Acute	Not specified	40.8000	22

Benchmark Values for D acids and salts, 2,4- in Surface Water (Fresh Water)

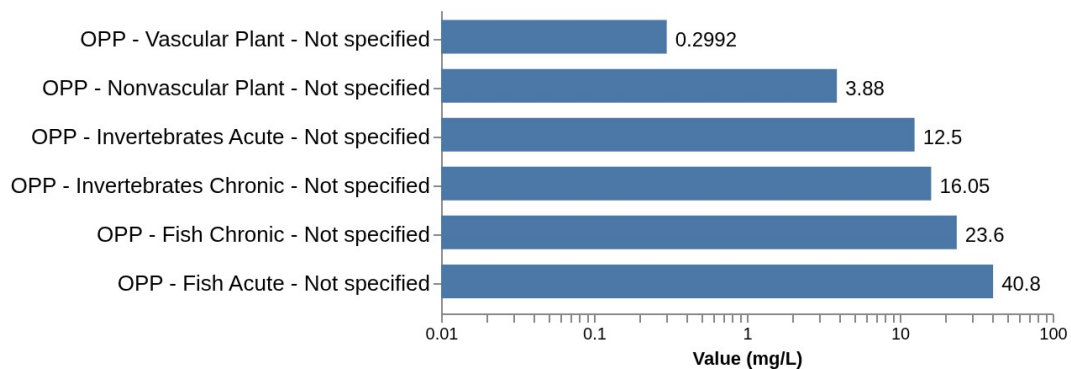


Table 266: Benchmark Values for D esters, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-19-8	OPP	Freshwater Fish Chronic	Not specified	0.0792
000000-19-8	OPP	Freshwater Fish Acute	Not specified	0.1300
000000-19-8	OPP	Freshwater Nonvascular Plant	Not specified	0.1520
000000-19-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.2000
000000-19-8	OPP	Freshwater Vascular Plant	Not specified	0.3300
000000-19-8	OPP	Freshwater Invertebrates Acute	Not specified	1.1000

Benchmark Values for D esters, 2,4- in Surface Water (Fresh Water)

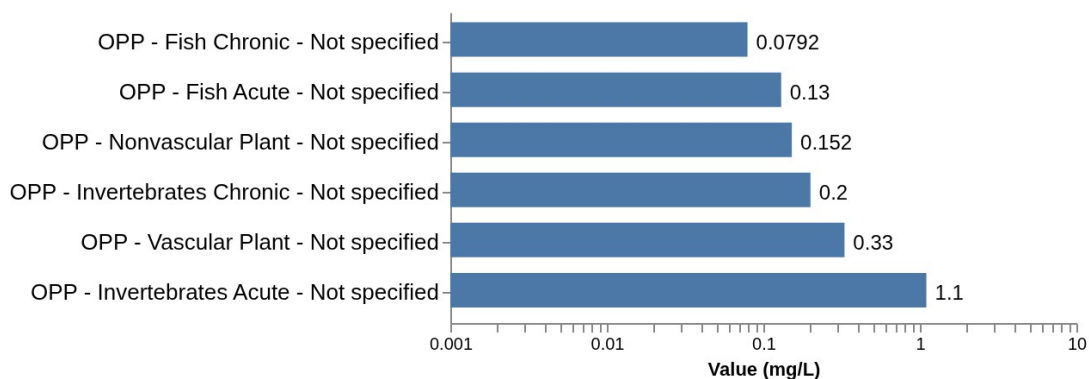


Table 267: Benchmark Values for D, 2-ethylhexyl ester, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1928-43-4	OPP	Freshwater Fish Chronic	Not specified	0.0792
1928-43-4	OPP	Freshwater Nonvascular Plant	Not specified	0.1520
1928-43-4	OPP	Freshwater Vascular Plant	Not specified	0.3300
1928-43-4	OPP	Freshwater Invertebrates Acute	Not specified	1.7000

Benchmark Values for D, 2-ethylhexyl ester, 2,4- in Surface Water (Fresh Water)

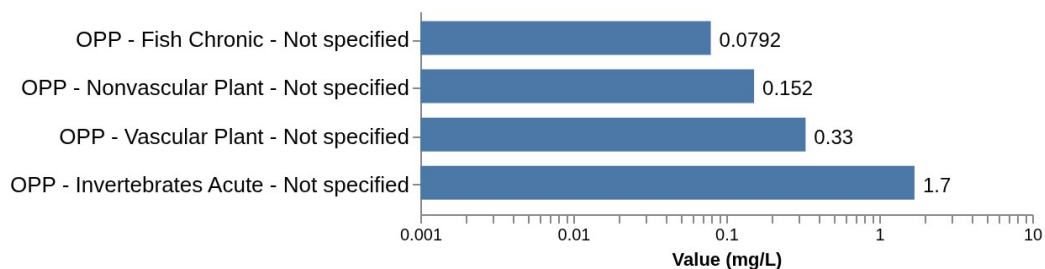


Table 268: Benchmark Values for D, Butoxyethyl ester, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1929-73-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.200
1929-73-3	OPP	Freshwater Fish Acute	Not specified	0.214

Benchmark Values for D, Butoxyethyl ester, 2,4- in Surface Water (Fresh Water)

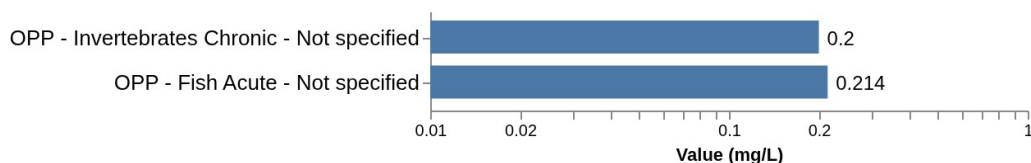


Table 269: Benchmark Values for D, Diethanolamine salt, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
5742-19-8	OPP	Freshwater Vascular Plant	Not specified	0.2992	
5742-19-8	OPP	Freshwater Invertebrates Chronic	Not specified	16.0500	
5742-19-8	OPP	Freshwater Fish Acute	Not specified	40.8000	22

Benchmark Values for D, Diethanolamine salt, 2,4- in Surface Water (Fresh Water)

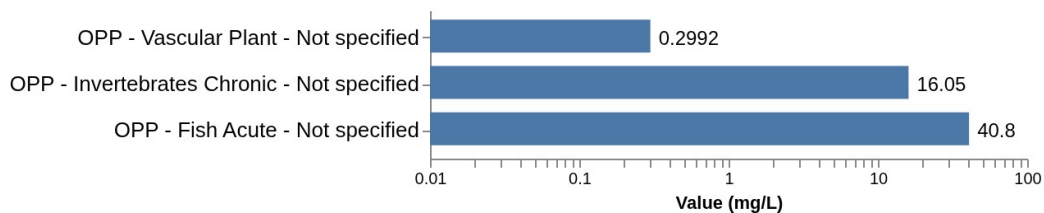


Table 270: Benchmark Values for D, Dimethylamine salt, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2008-39-1	OPP	Freshwater Nonvascular Plant	Not specified	3.88
2008-39-1	OPP	Freshwater Fish Chronic	Not specified	23.60

Benchmark Values for D, Dimethylamine salt, 2,4- in Surface Water (Fresh Water)

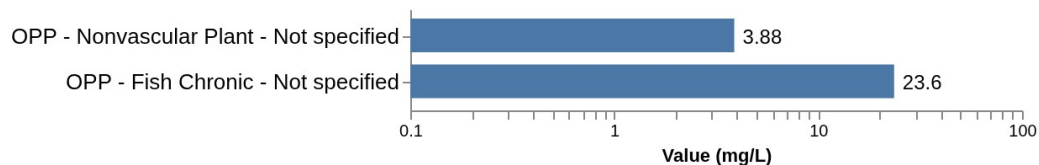


Table 271: Benchmark Values for D, Isopropyl ester, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
94-11-1	OPP	Freshwater Fish Acute	Not specified	0.13
94-11-1	OPP	Freshwater Invertebrates Acute	Not specified	1.10

Benchmark Values for D, Isopropyl ester, 2,4- in Surface Water (Fresh Water)

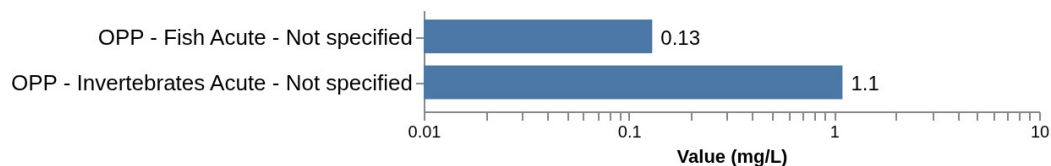


Table 272: Benchmark Values for Dalapon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-99-0	California	Freshwater instantaneous max	Not specified	0.11

Benchmark Values for Dalapon in Surface Water (Fresh Water)

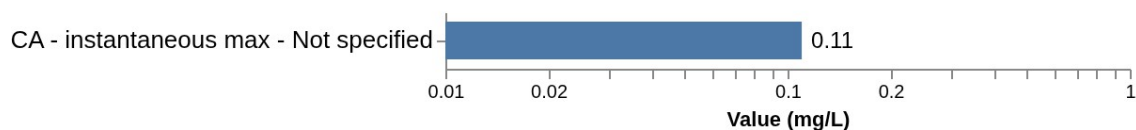


Table 273: Benchmark Values for Daminozide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1596-84-5	OPP	Freshwater Invertebrates Acute	Not specified	35.5	
1596-84-5	OPP	Freshwater Nonvascular Plant	Not specified	99.8	22
1596-84-5	OPP	Freshwater Fish Acute	Not specified	224.0	

Benchmark Values for Daminozide in Surface Water (Fresh Water)

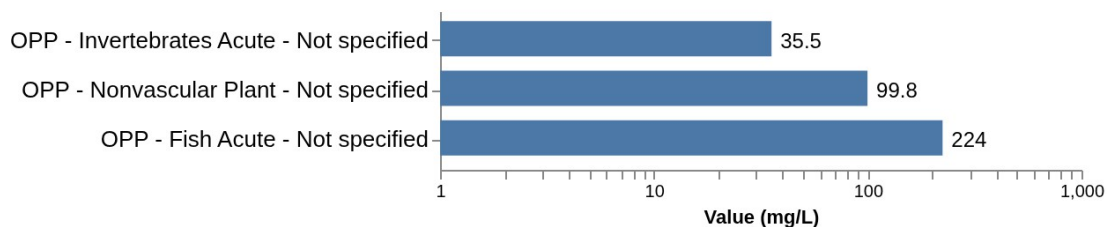


Table 274: Benchmark Values for DDT, Total in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-07-7	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000001
000000-07-7	EPA NRWQC	Freshwater CMC Acute	Not specified	0.001100

Benchmark Values for DDT, Total in Surface Water (Fresh Water)

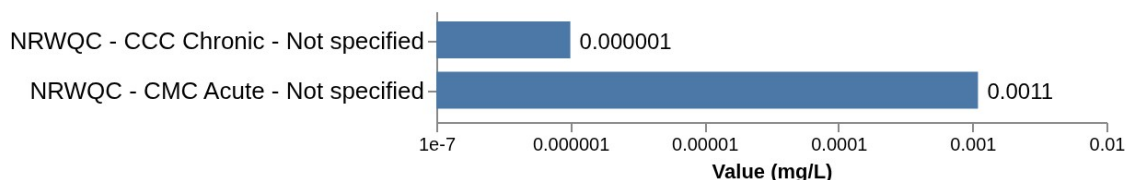


Table 275: Benchmark Values for DDT/DDE/DDD (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-05-1	Delaware	Freshwater Chronic Criterion	Not specified	1.000000e-06
000000-05-1	Delaware	Freshwater Acute Criterion	Not specified	1.100000e-03
000000-05-1	EPA Region 3	BTAG – Freshwater	Not specified	1.100000e-08

Benchmark Values for DDT/DDE/DDD (total) in Surface Water (Fresh Water)

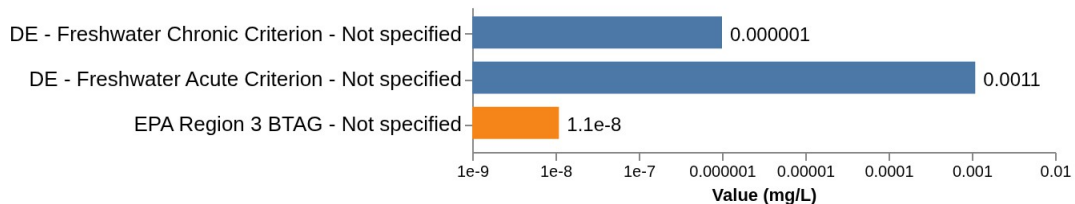


Table 276: Benchmark Values for Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'– (BDE-209) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1163-19-5	California	Freshwater chronic toxicity	Not specified	0.122
1163-19-5	California	Freshwater acute toxicity	Not specified	0.360

Benchmark Values for Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'– (BDE-209) in Surface Water (Fresh Water)

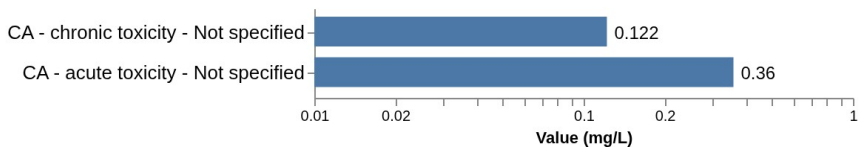


Table 277: Benchmark Values for Decane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
124-18-5	EPA Region 3	BTAG – Freshwater	Not specified	0.049
124-18-5	EPA Region 4	Chronic Freshwater	Not specified	0.049
124-18-5	EPA Region 4	Acute Freshwater	Not specified	0.880
124-18-5	EPA Region 6	Freshwater Chronic	Not specified	0.049
124-18-5	EPA Region 6	Freshwater Acute	Not specified	0.880

Benchmark Values for Decane in Surface Water (Fresh Water)

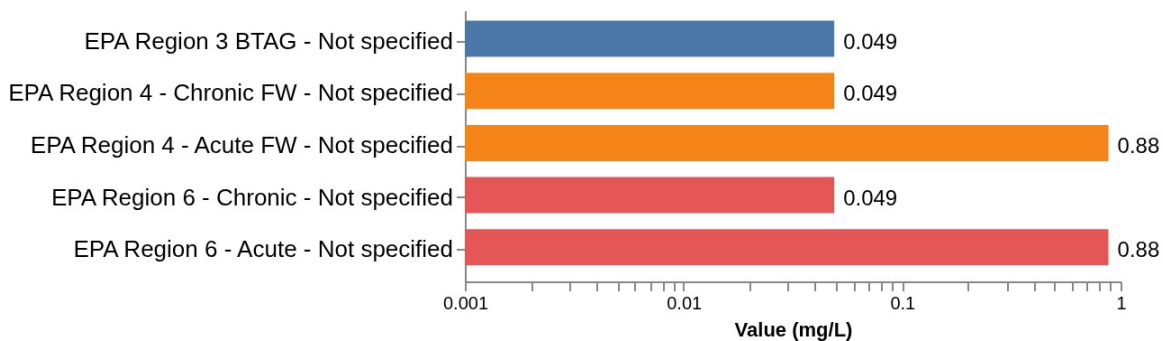


Table 278: Benchmark Values for Dehydroabietic acid (DHA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1740-19-8	British Columbia	Freshwater STA	Not specified	0.004	151

Benchmark Values for Dehydroabietic acid (DHA) in Surface Water (Fresh Water)

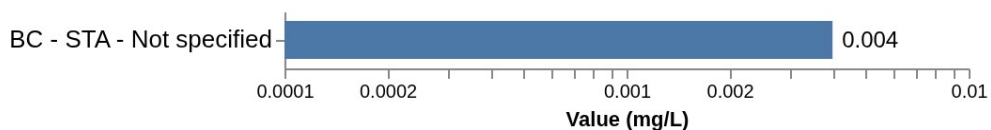


Table 279: Benchmark Values for Deltamethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52918-63-5	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	1.000000e-07	83
52918-63-5	Canada	Freshwater Long Term	Not specified	4.000000e-07	
52918-63-5	OPP	Freshwater Invertebrates Chronic	Not specified	2.600000e-08	
52918-63-5	OPP	Freshwater Invertebrates Acute	Not specified	1.000000e-07	
52918-63-5	OPP	Freshwater Fish Chronic	Not specified	1.700000e-05	
52918-63-5	OPP	Freshwater Fish Acute	Not specified	7.500000e-05	
52918-63-5	OPP	Freshwater Nonvascular Plant	Not specified	3.100000e-03	22
52918-63-5	OPP	Freshwater Vascular Plant	Not specified	7.790000e-01	22

Benchmark Values for Deltamethrin in Surface Water (Fresh Water)

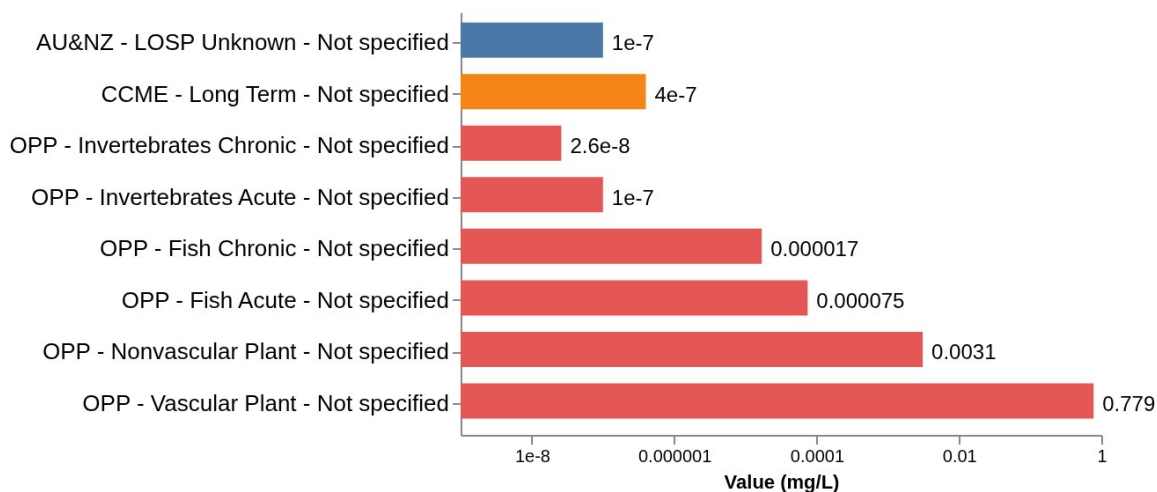


Table 280: Benchmark Values for Demeton, S in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
126-75-0	EPA Region 4	Chronic Freshwater	Not specified	0.0001	7
126-75-0	EPA Region 4	Acute Freshwater	Not specified	0.0052	7

Benchmark Values for Demeton, S in Surface Water (Fresh Water)

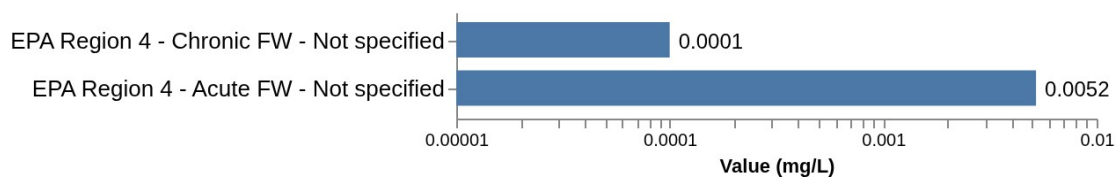


Table 281: Benchmark Values for Demeton in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
8065-48-3	California	Freshwater CCC, 4-day average	Not specified	0.0001
8065-48-3	Delaware	Freshwater Chronic Criterion	Not specified	0.0001
8065-48-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0001
8065-48-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0001
8065-48-3	EPA Region 6	Freshwater Chronic	Not specified	0.0001
8065-48-3	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0001
8065-48-3	New Jersey	Freshwater Chronic	Not specified	0.0001

Benchmark Values for Demeton in Surface Water (Fresh Water)

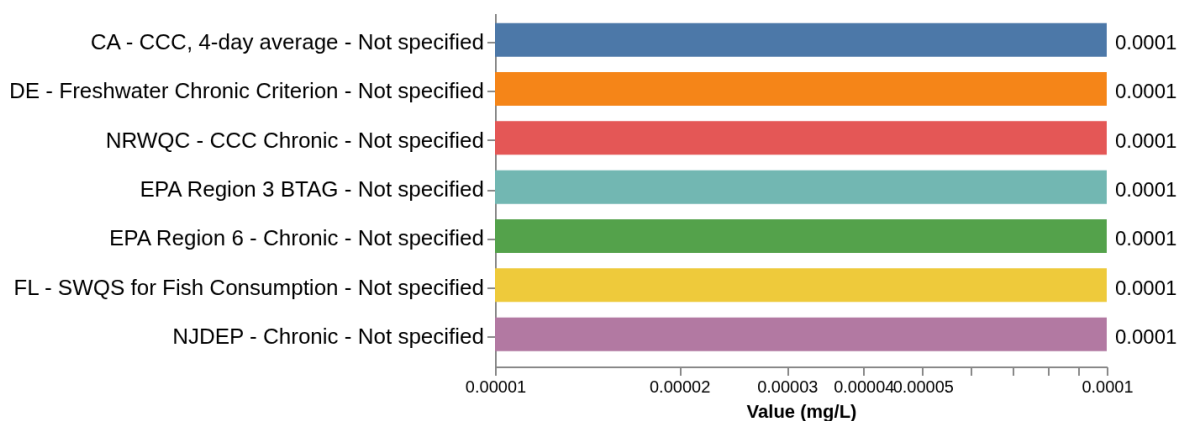


Table 282: Benchmark Values for Denatonium Benzoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3734-33-6	OPP	Freshwater Invertebrates Chronic	Not specified	2.0	
3734-33-6	OPP	Freshwater Nonvascular Plant	Not specified	5.0	
3734-33-6	OPP	Freshwater Invertebrates Acute	Not specified	5.1	
3734-33-6	OPP	Freshwater Fish Acute	Not specified	500.0	22

Benchmark Values for Denatonium Benzoate in Surface Water (Fresh Water)

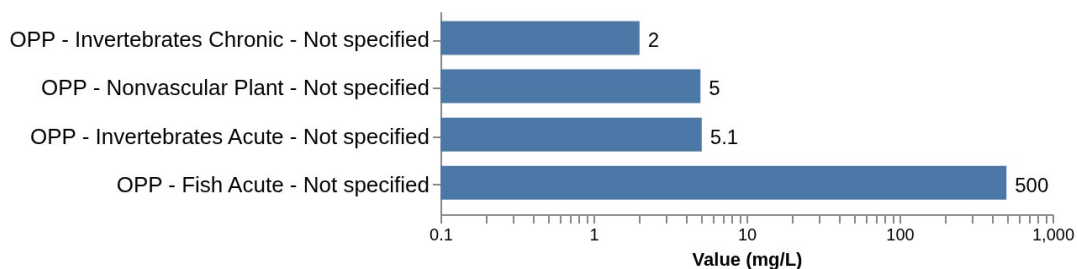


Table 283: Benchmark Values for Diazinon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
333-41-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	3.000000e-08	88
333-41-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.000000e-05	88, 89
333-41-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.000000e-04	88, 92
333-41-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.000000e-03	88, 92
333-41-5	California	Freshwater CCC, 4-day average	Not specified	5.000000e-05	
333-41-5	California	Freshwater CMC, 1-hour average	Not specified	8.000000e-05	
333-41-5	Delaware	Freshwater Chronic Criterion	Not specified	1.700000e-04	
333-41-5	Delaware	Freshwater Acute Criterion	Not specified	1.700000e-04	
333-41-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.700000e-04	
333-41-5	EPA NRWQC	Freshwater CMC Acute	Not specified	1.700000e-04	
333-41-5	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	4.300000e-05	
333-41-5	EPA Region 3	BTAG – Freshwater	Not specified	4.300000e-05	
333-41-5	EPA Region 4	Acute Freshwater	Not specified	1.700000e-04	7
333-41-5	EPA Region 4	Chronic Freshwater	Not specified	1.700000e-04	7
333-41-5	EPA Region 6	Freshwater Acute	Not specified	1.700000e-04	
333-41-5	EPA Region 6	Freshwater Chronic	Not specified	1.700000e-04	
333-41-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	1.700000e-04	
333-41-5	OPP	Freshwater Invertebrates Acute	Not specified	1.050000e-04	
333-41-5	OPP	Freshwater Acute	Not specified	1.700000e-04	
333-41-5	OPP	Freshwater Chronic	Not specified	1.700000e-04	
333-41-5	OPP	Freshwater Invertebrates Chronic	Not specified	1.700000e-04	
333-41-5	OPP	Freshwater Fish Chronic	Not specified	5.500000e-04	23
333-41-5	OPP	Freshwater Fish Acute	Not specified	4.500000e-02	
333-41-5	OPP	Freshwater Nonvascular Plant	Not specified	3.700000e+00	

Benchmark Values for Diazinon in Surface Water (Fresh Water)

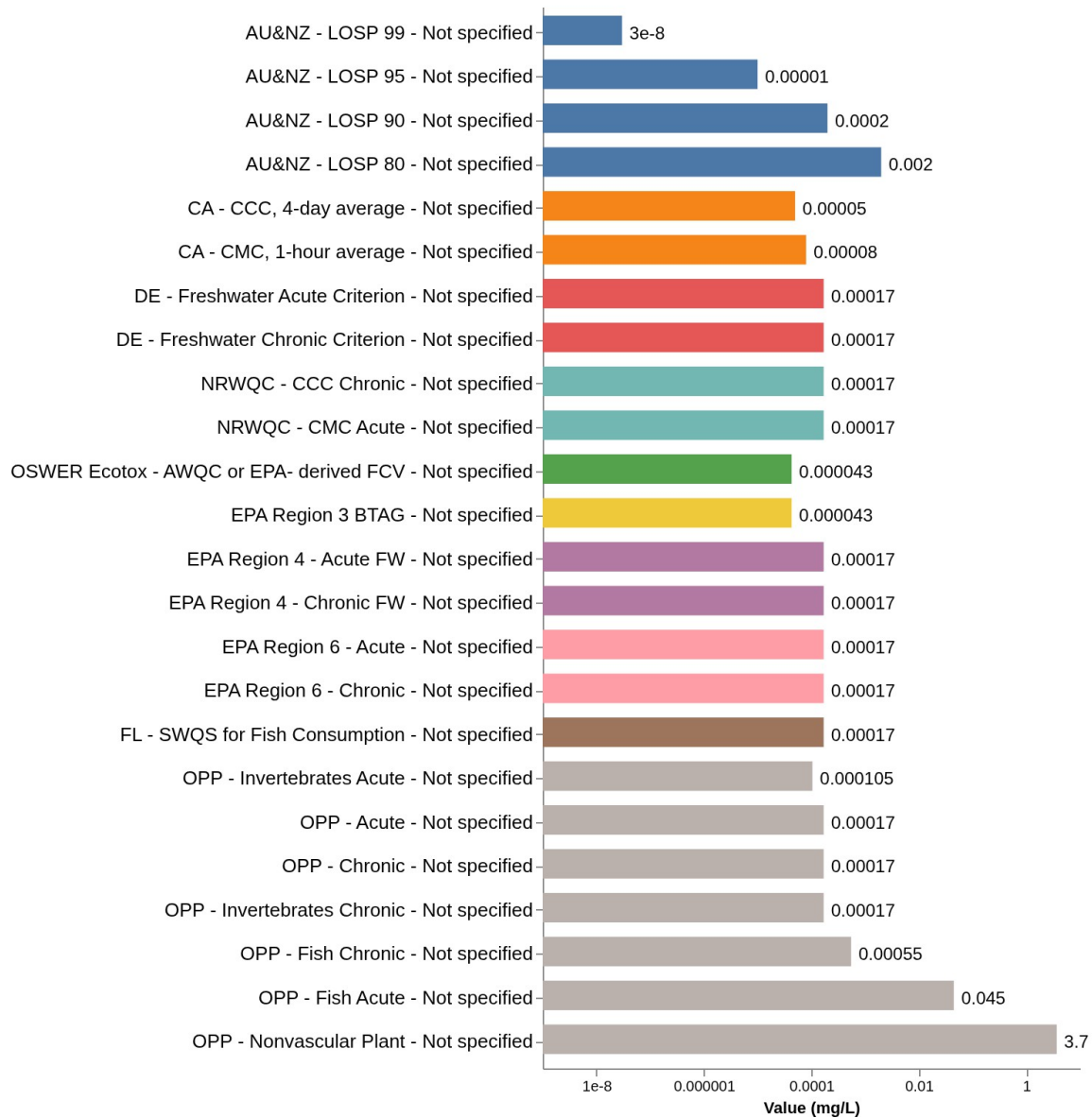


Table 284: Benchmark Values for Dibenz[a,h]anthracene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53-70-3	EPA Region 4	Chronic Freshwater	Not specified	0.000012	7
53-70-3	EPA Region 4	Acute Freshwater	Not specified	0.000280	7
53-70-3	EPA Region 6	Freshwater Chronic	Not specified	0.000010	
53-70-3	EPA Region 6	Freshwater Acute	Not specified	0.000300	

Benchmark Values for Dibenz[a,h]anthracene in Surface Water (Fresh Water)

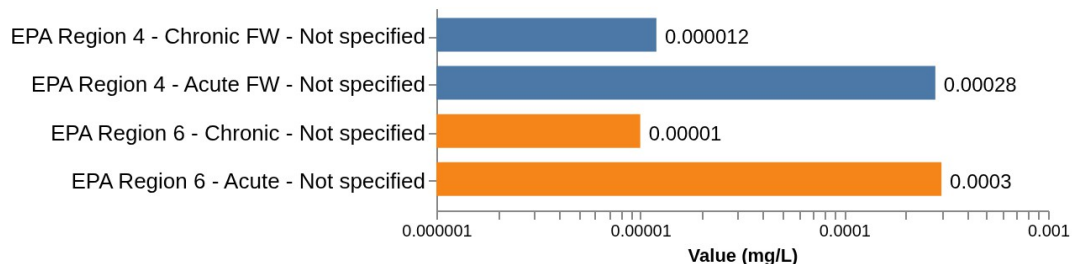


Table 285: Benchmark Values for Dibenzofuran in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
132-64-9	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0200
132-64-9	EPA Region 3	BTAG – Freshwater	Not specified	0.0037
132-64-9	EPA Region 4	Chronic Freshwater	Not specified	0.0040
132-64-9	EPA Region 4	Acute Freshwater	Not specified	0.0360
132-64-9	EPA Region 6	Freshwater Chronic	Not specified	0.1100
132-64-9	EPA Region 6	Freshwater Acute	Not specified	0.3200

Benchmark Values for Dibenzofuran in Surface Water (Fresh Water)

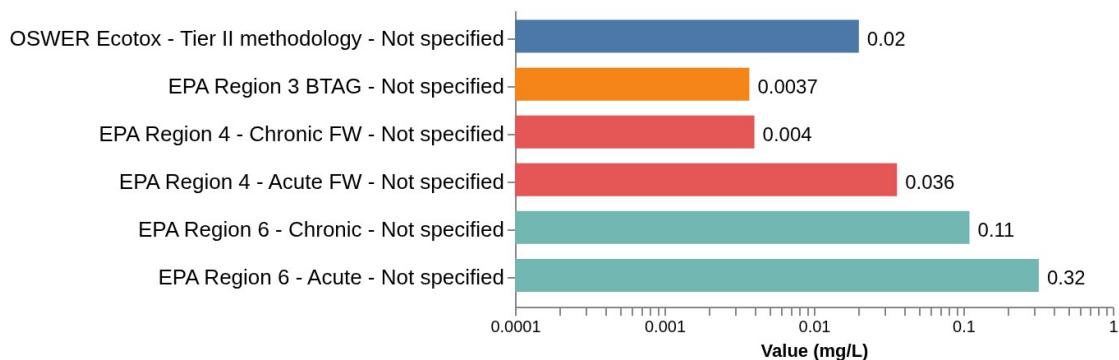


Table 286: Benchmark Values for Dibromo-3-nitripropionamide, 2,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
10222-01-2	EPA Region 3	BTAG – Freshwater	Not specified	0.02
10222-01-2	EPA Region 4	Chronic Freshwater	Not specified	0.02
10222-01-2	EPA Region 4	Acute Freshwater	Not specified	0.05

Benchmark Values for Dibromo-3-nitripropionamide, 2,2- in Surface Water (Fresh Water)

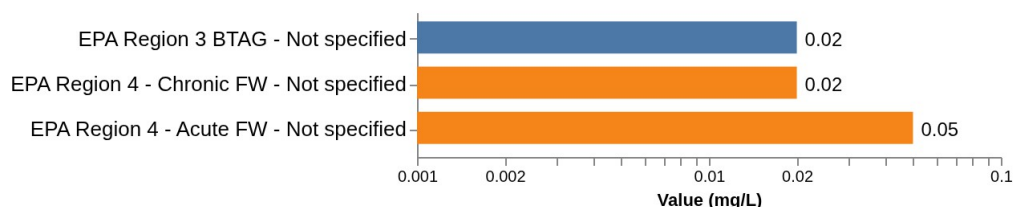


Table 287: Benchmark Values for Dibromoacetonitrile in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
3252-43-5	EPA Region 3	BTAG – Freshwater	Not specified	0.02

Benchmark Values for Dibromoacetonitrile in Surface Water (Fresh Water)

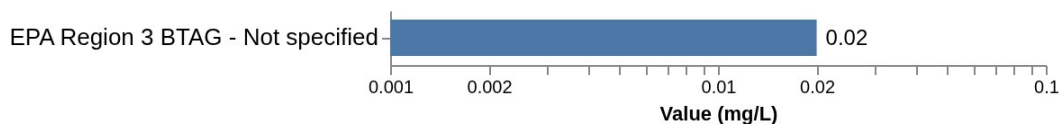


Table 288: Benchmark Values for Dibromochloromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
124-48-1	California	Freshwater acute toxicity	Not specified	11.000
124-48-1	EPA Region 4	Chronic Freshwater	Not specified	0.320
124-48-1	EPA Region 4	Acute Freshwater	Not specified	2.900
124-48-1	EPA Region 6	Freshwater Chronic	Not specified	0.129
124-48-1	EPA Region 6	Freshwater Acute	Not specified	0.771

Benchmark Values for Dibromochloromethane in Surface Water (Fresh Water)

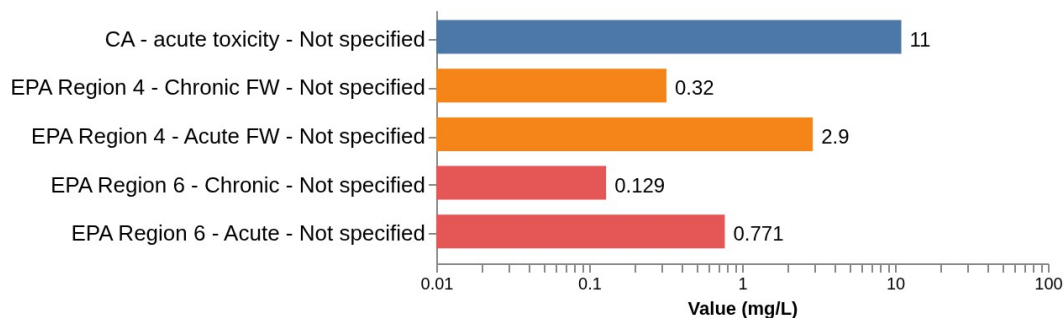


Table 289: Benchmark Values for Dibutyl Phthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
84-74-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.010	87, 89, 97
84-74-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.026	87, 97
84-74-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.040	87, 97
84-74-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.065	87, 97
84-74-2	California	Freshwater chronic toxicity	Not specified	0.003	
84-74-2	California	Freshwater acute toxicity	Not specified	0.940	
84-74-2	Canada	Freshwater Long Term	Not specified	0.019	
84-74-2	EPA OSWER	Freshwater Tier II methodology	Not specified	0.033	
84-74-2	EPA Region 3	BTAG – Freshwater	Not specified	0.019	
84-74-2	EPA Region 4	Chronic Freshwater	Not specified	0.019	
84-74-2	EPA Region 4	Acute Freshwater	Not specified	0.034	
84-74-2	EPA Region 6	Freshwater Chronic	Not specified	0.420	
84-74-2	EPA Region 6	Freshwater Acute	Not specified	0.960	

Benchmark Values for Dibutyl Phthalate in Surface Water (Fresh Water)

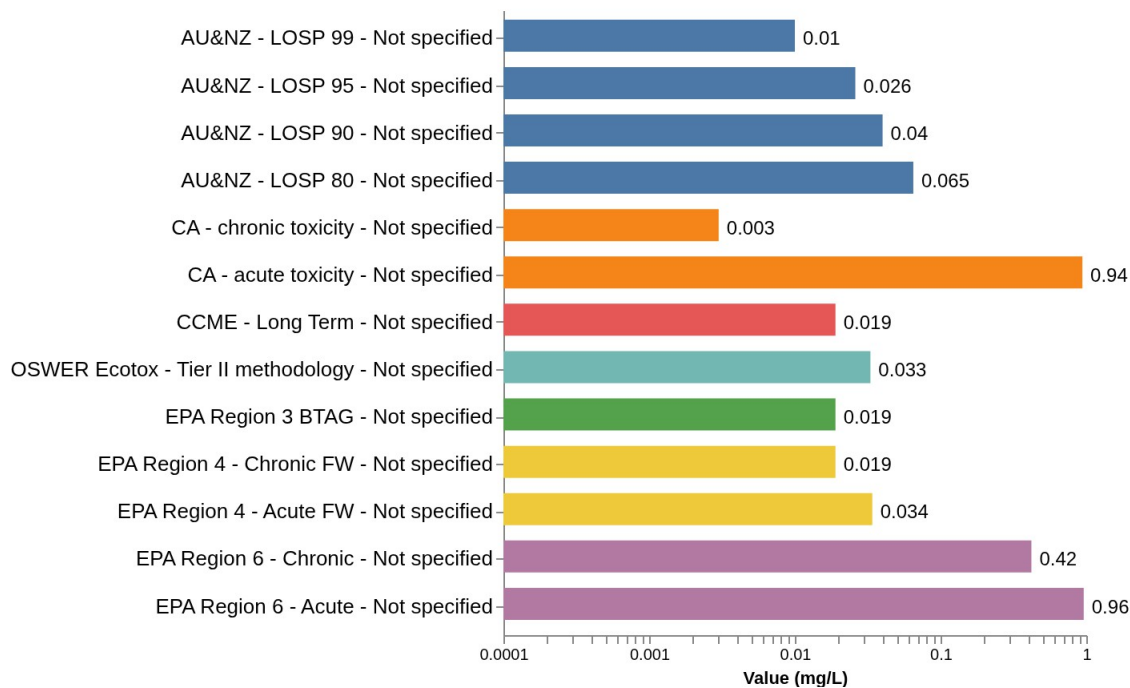


Table 290: Benchmark Values for Dicamba, dimethylamine salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2300-66-5	OPP	Freshwater Fish Acute	Not specified	488.5
2300-66-5	OPP	Freshwater Invertebrates Acute	Not specified	781.5

Benchmark Values for Dicamba, dimethylamine salt in Surface Water (Fresh Water)

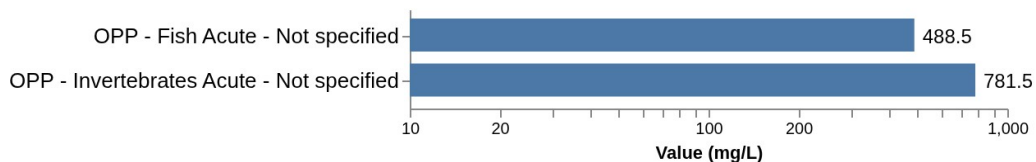


Table 291: Benchmark Values for Dicamba, sodium salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1982-69-0	OPP	Freshwater Invertebrates Acute	Not specified	17.3
1982-69-0	OPP	Freshwater Fish Acute	Not specified	253.6

Benchmark Values for Dicamba, sodium salt in Surface Water (Fresh Water)

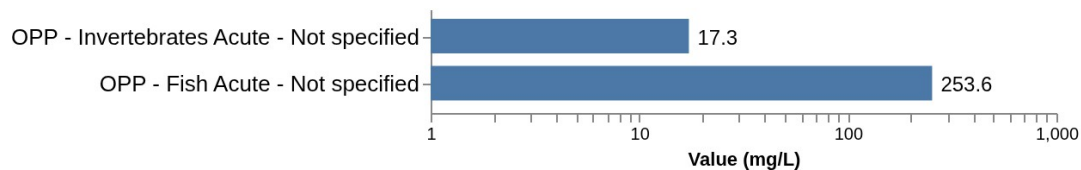


Table 292: Benchmark Values for Dicamba in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1918-00-9	California	Freshwater instantaneous max	Not specified	0.2000	
1918-00-9	Canada	Freshwater Long Term	Not specified	0.0100	
1918-00-9	EPA Region 4	Chronic Freshwater	Not specified	0.0147	
1918-00-9	EPA Region 4	Acute Freshwater	Not specified	0.0610	
1918-00-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0610	
1918-00-9	OPP	Freshwater Vascular Plant	Not specified	3.2500	22
1918-00-9	OPP	Freshwater Fish Acute	Not specified	14.0000	
1918-00-9	OPP	Freshwater Invertebrates Acute	Not specified	50.0000	22

Benchmark Values for Dicamba in Surface Water (Fresh Water)

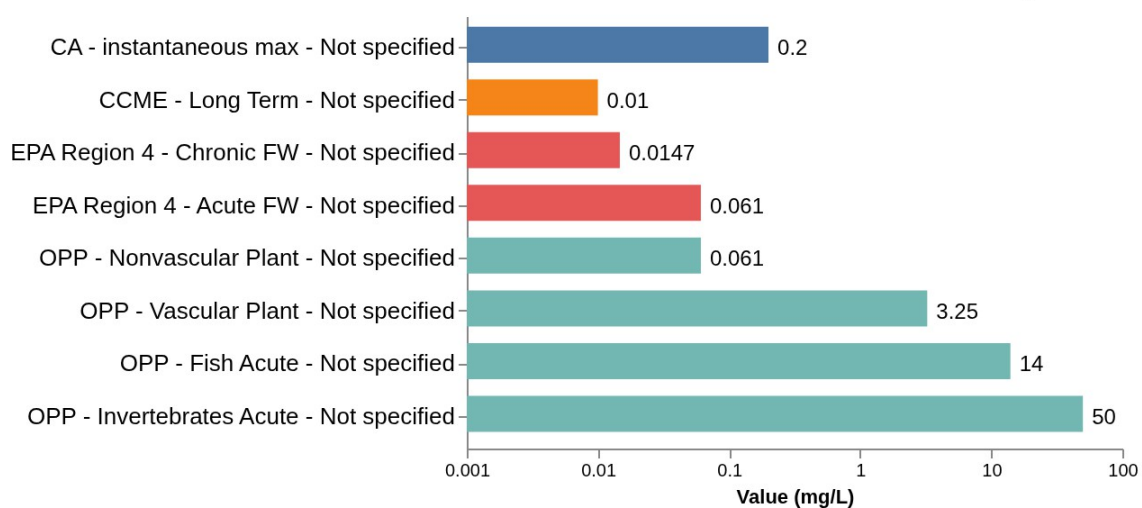


Table 293: Benchmark Values for Dichlobenil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1194-65-6	OPP	Freshwater Vascular Plant	Not specified	0.030	23
1194-65-6	OPP	Freshwater Fish Chronic	Not specified	0.330	
1194-65-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.560	
1194-65-6	OPP	Freshwater Nonvascular Plant	Not specified	1.500	
1194-65-6	OPP	Freshwater Fish Acute	Not specified	2.465	
1194-65-6	OPP	Freshwater Invertebrates Acute	Not specified	3.100	

Benchmark Values for Dichlobenil in Surface Water (Fresh Water)

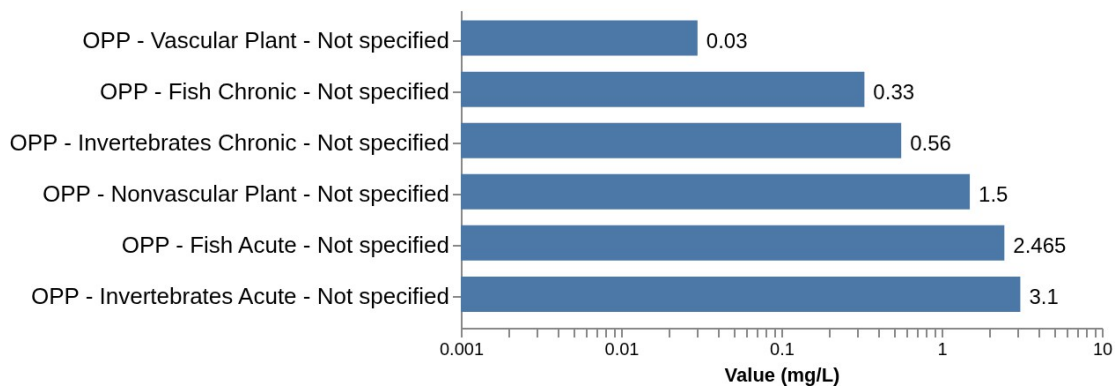


Table 294: Benchmark Values for Dichloroaniline, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
554-00-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0006	87
554-00-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0070	87, 89
554-00-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0200	87
554-00-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0600	87, 94
554-00-7	EPA Region 4	Chronic Freshwater	Not specified	0.0150	
554-00-7	EPA Region 4	Acute Freshwater	Not specified	0.5750	
554-00-7	OPP	Freshwater Nonvascular Plant	Not specified	3.2000	

Benchmark Values for Dichloroaniline, 2,4- in Surface Water (Fresh Water)

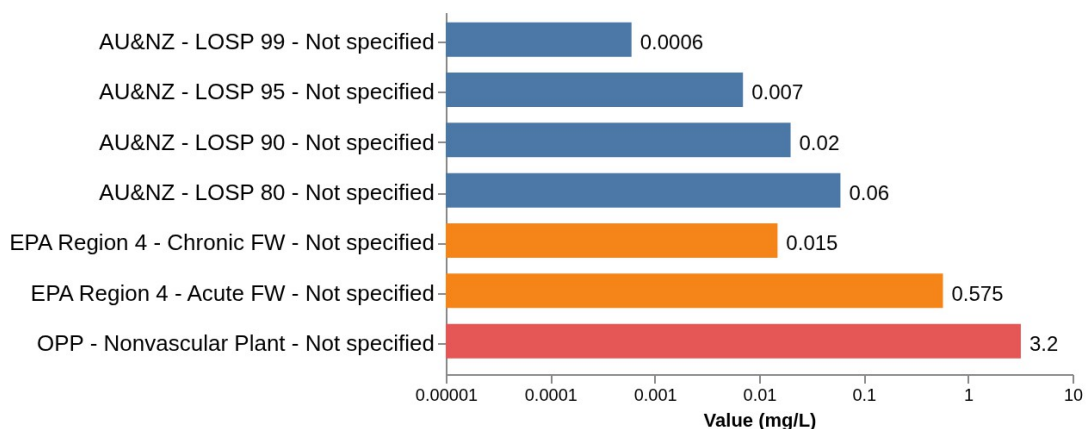


Table 295: Benchmark Values for Dichloroaniline, 3,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-76-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0013	88
95-76-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0030	88, 89
95-76-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0060	88, 94
95-76-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0130	88, 94

Benchmark Values for Dichloroaniline, 3,4- in Surface Water (Fresh Water)

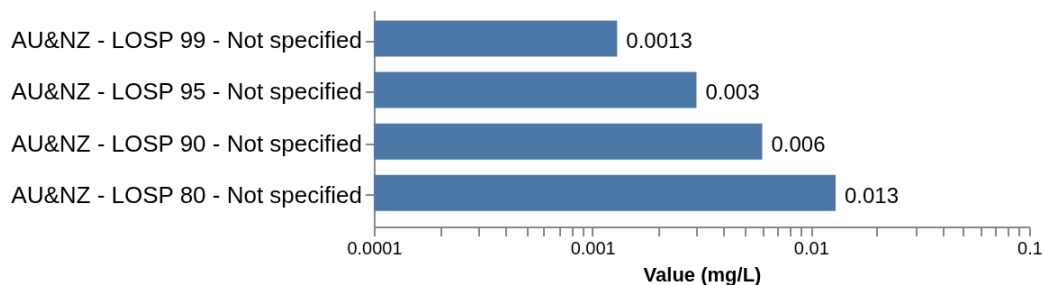


Table 296: Benchmark Values for Dichlorobenzene, 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-50-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.1200	87
95-50-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.1600	87, 89
95-50-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.2000	87
95-50-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.2700	87
95-50-1	California	Freshwater other toxicity	Not specified	0.0500	
95-50-1	California	Freshwater chronic toxicity	Not specified	0.7630	
95-50-1	California	Freshwater acute toxicity	Not specified	1.1200	
95-50-1	Canada	Freshwater Long Term	Not specified	0.0007	
95-50-1	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0140	
95-50-1	EPA Region 3	BTAG – Freshwater	Not specified	0.0007	
95-50-1	EPA Region 4	Chronic Freshwater	Not specified	0.0230	
95-50-1	EPA Region 4	Acute Freshwater	Not specified	0.1300	
95-50-1	EPA Region 6	Freshwater Chronic	Not specified	0.1100	
95-50-1	EPA Region 6	Freshwater Acute	Not specified	0.6600	

Benchmark Values for Dichlorobenzene, 1,2- in Surface Water (Fresh Water)

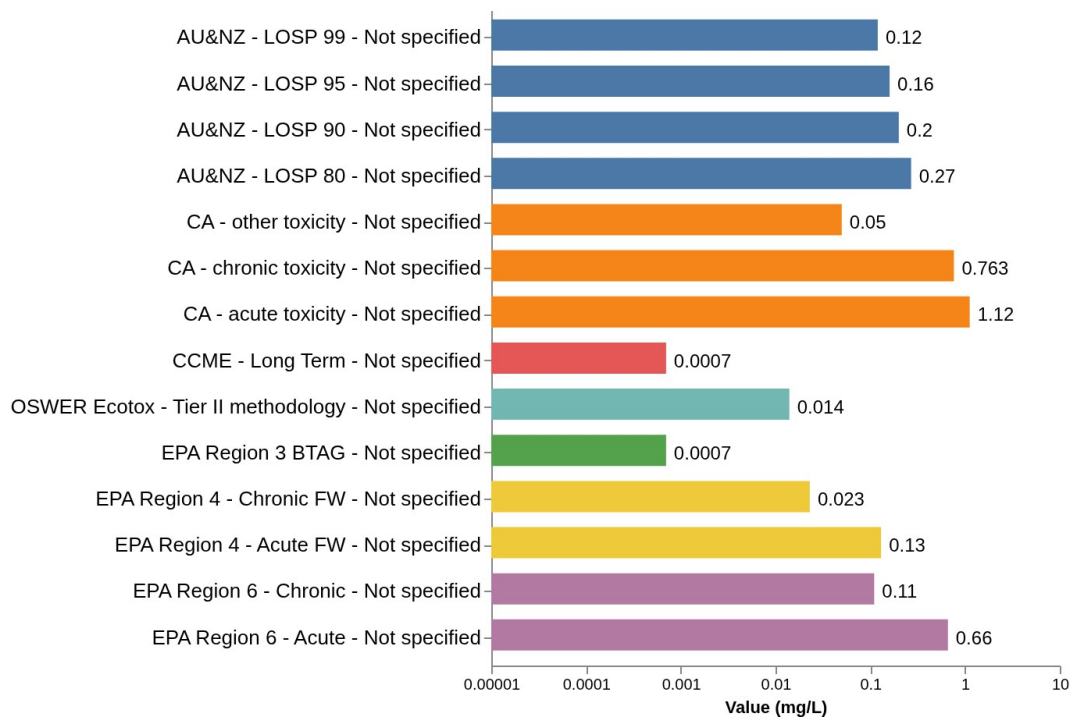


Table 297: Benchmark Values for Dichlorobenzene, 1,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
541-73-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.160	87
541-73-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.260	87, 89
541-73-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.350	87
541-73-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.520	87, 94
541-73-1	California	Freshwater other toxicity	Not specified	0.050	
541-73-1	California	Freshwater chronic toxicity	Not specified	0.763	
541-73-1	California	Freshwater acute toxicity	Not specified	1.120	
541-73-1	Canada	Freshwater Long Term	Not specified	0.150	
541-73-1	EPA OSWER	Freshwater Tier II methodology	Not specified	0.071	
541-73-1	EPA Region 3	BTAG – Freshwater	Not specified	0.150	
541-73-1	EPA Region 4	Chronic Freshwater	Not specified	0.022	
541-73-1	EPA Region 4	Acute Freshwater	Not specified	0.079	
541-73-1	EPA Region 6	Freshwater Chronic	Not specified	0.085	
541-73-1	EPA Region 6	Freshwater Acute	Not specified	0.153	

Benchmark Values for Dichlorobenzene, 1,3- in Surface Water (Fresh Water)

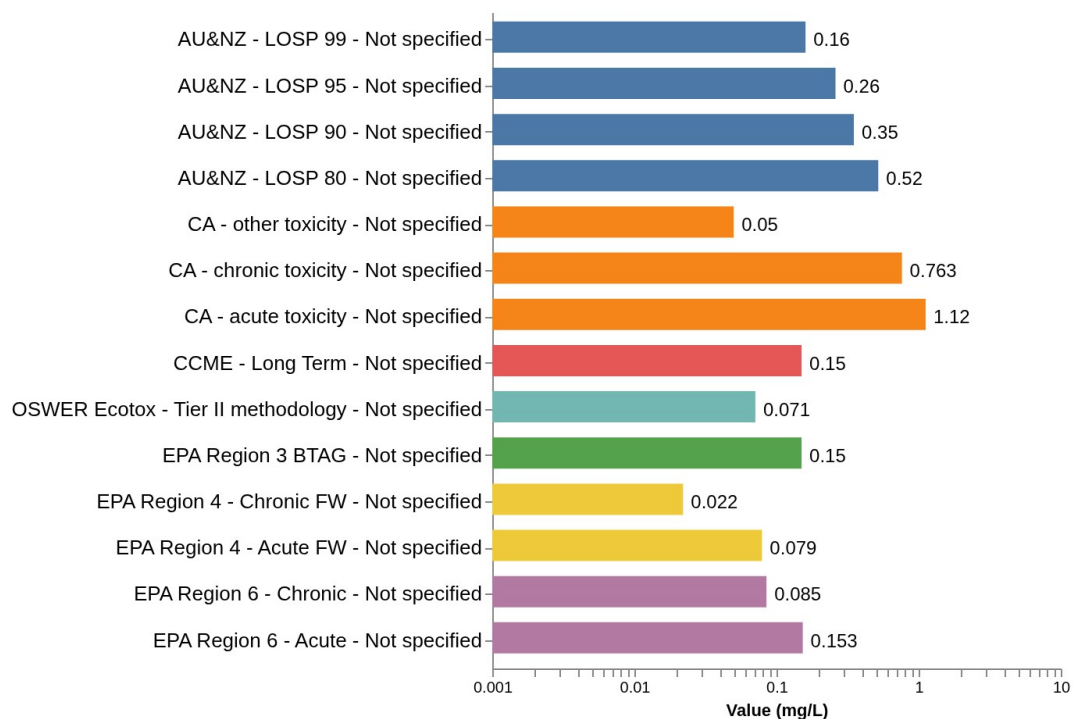


Table 298: Benchmark Values for Dichlorobenzene, 1,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-46-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0400	88
106-46-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0600	88, 89
106-46-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0750	88
106-46-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.1000	88
106-46-7	California	Freshwater other toxicity	Not specified	0.0500	
106-46-7	California	Freshwater chronic toxicity	Not specified	0.7630	
106-46-7	California	Freshwater acute toxicity	Not specified	1.1200	
106-46-7	Canada	Freshwater Long Term	Not specified	0.0260	
106-46-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0150	
106-46-7	EPA Region 3	BTAG – Freshwater	Not specified	0.0260	
106-46-7	EPA Region 4	Chronic Freshwater	Not specified	0.0094	
106-46-7	EPA Region 4	Acute Freshwater	Not specified	0.0570	
106-46-7	EPA Region 6	Freshwater Chronic	Not specified	0.1100	
106-46-7	EPA Region 6	Freshwater Acute	Not specified	0.6600	

Benchmark Values for Dichlorobenzene, 1,4- in Surface Water (Fresh Water)

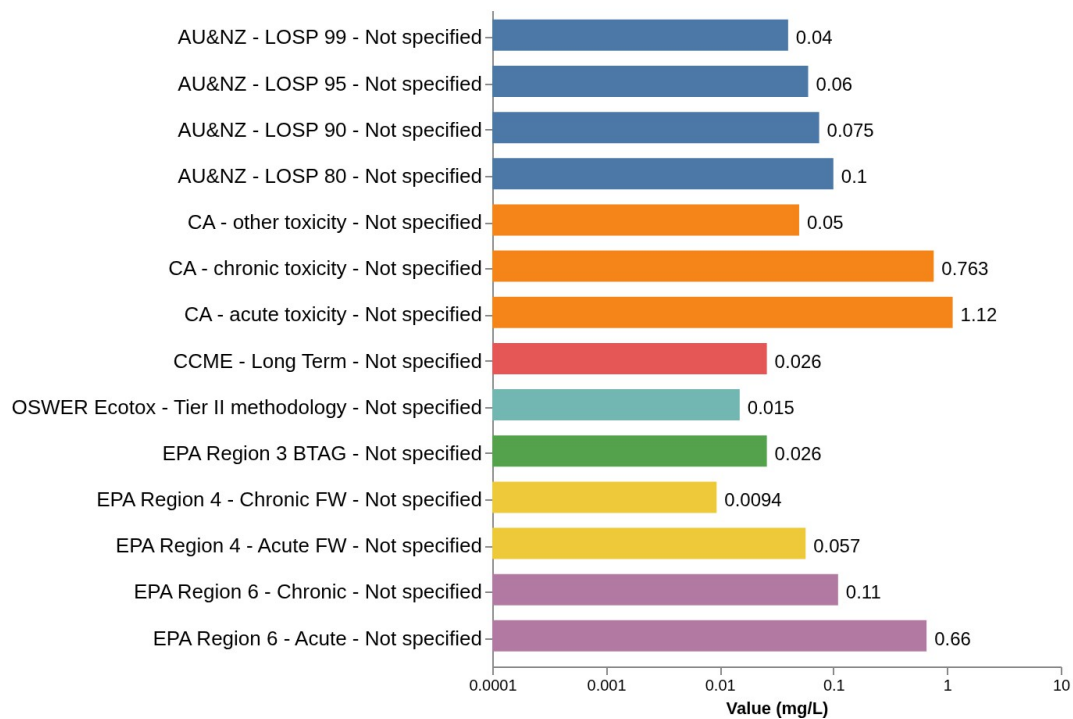


Table 299: Benchmark Values for Dichlorobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25321-22-6	California	Freshwater other toxicity	Not specified	0.050
25321-22-6	California	Freshwater chronic toxicity	Not specified	0.763
25321-22-6	California	Freshwater acute toxicity	Not specified	1.120
25321-22-6	EPA Region 3	BTAG – Freshwater	Not specified	0.005

Benchmark Values for Dichlorobenzene in Surface Water (Fresh Water)

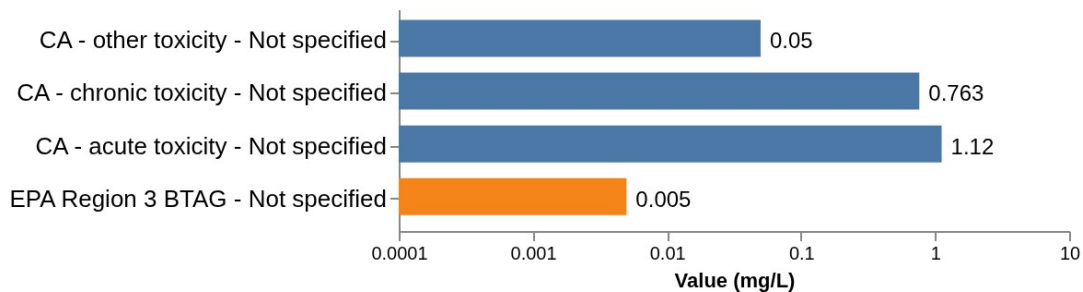


Table 300: Benchmark Values for Dichlorobenzidine, 3,3'– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-94-1	EPA Region 3	BTAG – Freshwater	Not specified	0.0045
91-94-1	EPA Region 4	Chronic Freshwater	Not specified	0.0045
91-94-1	EPA Region 4	Acute Freshwater	Not specified	0.0410
91-94-1	EPA Region 6	Freshwater Chronic	Not specified	0.0410
91-94-1	EPA Region 6	Freshwater Acute	Not specified	0.2400

Benchmark Values for Dichlorobenzidine, 3,3'– in Surface Water (Fresh Water)

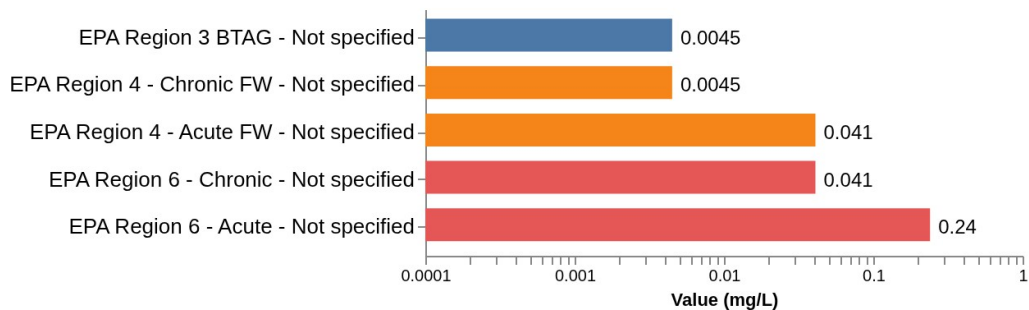


Table 301: Benchmark Values for Dichlorodifluoromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-71-8	California	Freshwater acute toxicity	Not specified	11.000
75-71-8	EPA Region 6	Freshwater Chronic	Not specified	1.963
75-71-8	EPA Region 6	Freshwater Acute	Not specified	11.780

Benchmark Values for Dichlorodifluoromethane in Surface Water (Fresh Water)

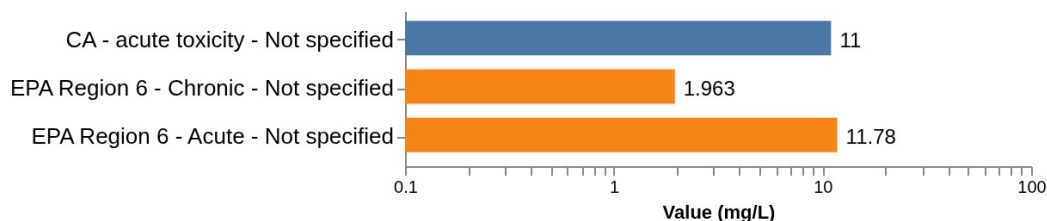


Table 302: Benchmark Values for Dichlorodiphenyldichloroethane, p,p'– (DDD) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-54-8	California	Freshwater CCC, 4-day average	Not specified	0.000001	228
72-54-8	California	Freshwater acute toxicity	Not specified	0.001000	
72-54-8	California	Freshwater instantaneous max	Not specified	0.001100	228
72-54-8	EPA Region 3	BTAG – Freshwater	Not specified	0.000011	
72-54-8	EPA Region 4	Chronic Freshwater	Not specified	0.000010	7
72-54-8	EPA Region 4	Acute Freshwater	Not specified	0.000190	7
72-54-8	EPA Region 6	Freshwater Chronic	Not specified	0.000011	
72-54-8	EPA Region 6	Freshwater Acute	Not specified	0.000189	

Benchmark Values for Dichlorodiphenyldichloroethane, p,p'– (DDD) in Surface Water (Fresh Water)

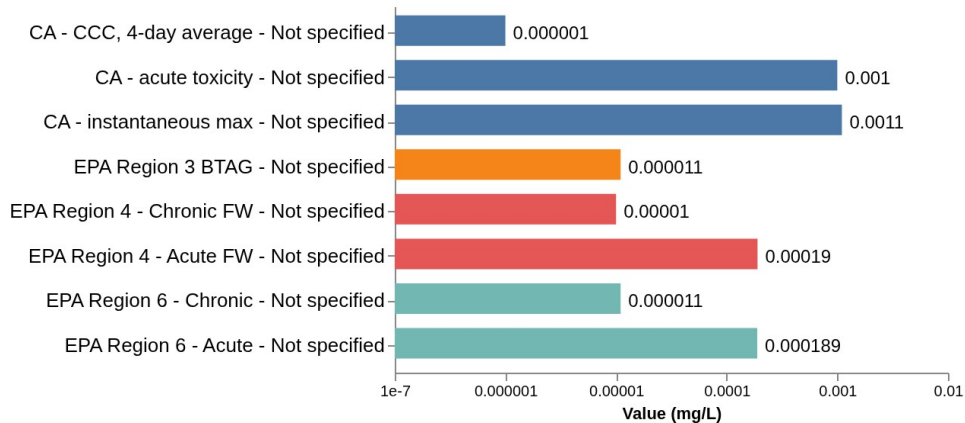


Table 303: Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'– (DDE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72–55–9	California	Freshwater CCC, 4–day average	Not specified	0.000001	228
72–55–9	California	Freshwater instantaneous max	Not specified	0.001100	228
72–55–9	California	Freshwater acute toxicity	Not specified	1.050000	
72–55–9	EPA Region 4	Chronic Freshwater	Not specified	0.000300	7
72–55–9	EPA Region 4	Acute Freshwater	Not specified	0.001300	7
72–55–9	EPA Region 6	Freshwater Chronic	Not specified	0.000110	
72–55–9	EPA Region 6	Freshwater Acute	Not specified	0.003300	

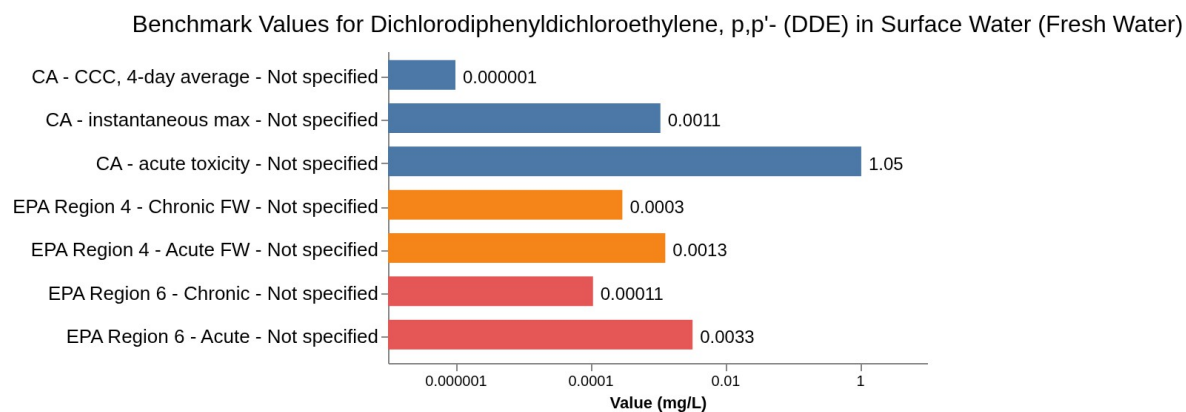


Table 304: Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'– (DDT) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50–29–3	Australia and New Zealand	Freshwater LOSP 99	Not specified	6.000000e-06	88, 89, 97
50–29–3	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.000000e-05	88, 97
50–29–3	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.000000e-05	88, 97
50–29–3	Australia and New Zealand	Freshwater LOSP 80	Not specified	4.000000e-05	88, 97
50–29–3	California	Freshwater CCC, 4–day average	Not specified	1.000000e-06	228
50–29–3	California	Freshwater instantaneous max	Not specified	1.100000e-03	228
50–29–3	California	Freshwater instantaneous maximum	Not specified	1.100000e-03	
50–29–3	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.000000e-06	
50–29–3	EPA NRWQC	Freshwater CMC Acute	Not specified	1.100000e-03	
50–29–3	EPA OSWER	Freshwater Tier II methodology	Not specified	1.300000e-05	
50–29–3	EPA Region 3	BTAG – Freshwater	Not specified	5.000000e-07	
50–29–3	EPA Region 4	Chronic Freshwater	Aquatic only	1.000000e-06	7
50–29–3	EPA Region 4	Chronic Freshwater	Wildlife only	1.000000e-06	7
50–29–3	EPA Region 4	Acute Freshwater	Wildlife only	1.100000e-03	7
50–29–3	EPA Region 4	Acute Freshwater	Aquatic only	1.100000e-03	7
50–29–3	EPA Region 6	Freshwater Chronic	Not specified	1.000000e-06	
50–29–3	EPA Region 6	Freshwater Acute	Not specified	1.100000e-03	
50–29–3	Florida	SWQS for Fish Consumption Freshwater	Not specified	5.900000e-07	
50–29–3	New Jersey	Freshwater Chronic	Not specified	1.000000e-06	
50–29–3	New Jersey	Freshwater Acute	Not specified	1.100000e-03	

Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'- (DDT) in Surface Water (Fresh Water)

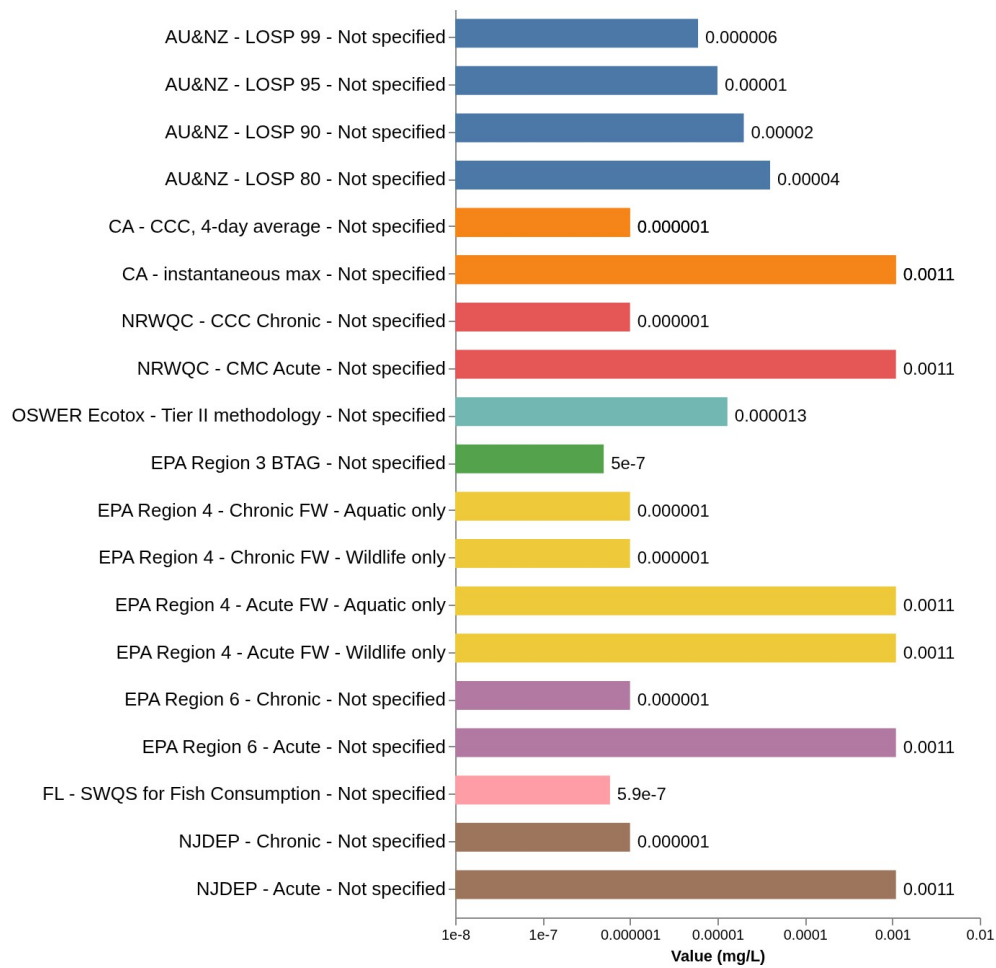


Table 305: Benchmark Values for Dichloroethane, 1,1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-34-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.047
75-34-3	EPA Region 3	BTAG – Freshwater	Not specified	0.047
75-34-3	EPA Region 4	Chronic Freshwater	Not specified	0.410
75-34-3	EPA Region 4	Acute Freshwater	Not specified	3.700
75-34-3	EPA Region 6	Freshwater Chronic	Not specified	0.210
75-34-3	EPA Region 6	Freshwater Acute	Not specified	0.600

Benchmark Values for Dichloroethane, 1,1- in Surface Water (Fresh Water)

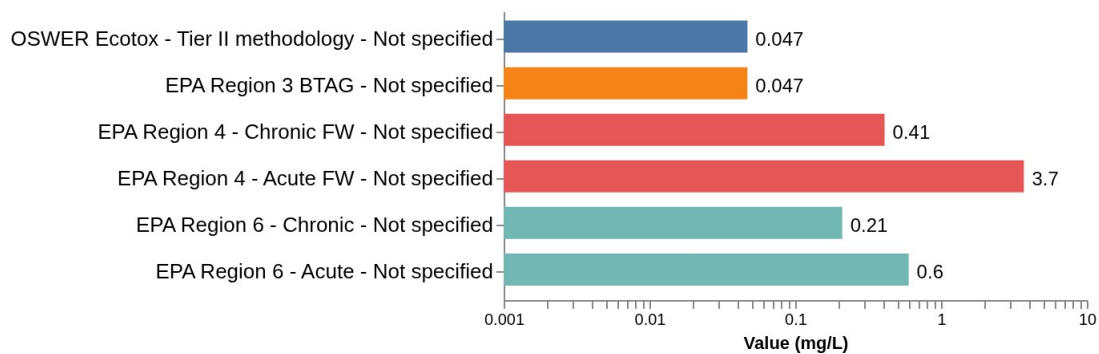


Table 306: Benchmark Values for Dichloroethane, 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-06-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	1.00	83
107-06-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.90	83, 89
107-06-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.60	83
107-06-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	4.00	83
107-06-2	California	Freshwater chronic toxicity	Not specified	20.00	
107-06-2	California	Freshwater acute toxicity	Not specified	118.00	
107-06-2	Canada	Freshwater Long Term	Not specified	0.10	
107-06-2	EPA Region 3	BTAG – Freshwater	Not specified	0.10	
107-06-2	EPA Region 4	Chronic Freshwater	Not specified	2.00	
107-06-2	EPA Region 4	Acute Freshwater	Not specified	8.20	
107-06-2	EPA Region 6	Freshwater Chronic	Not specified	12.56	
107-06-2	EPA Region 6	Freshwater Acute	Not specified	37.68	

Benchmark Values for Dichloroethane, 1,2- in Surface Water (Fresh Water)

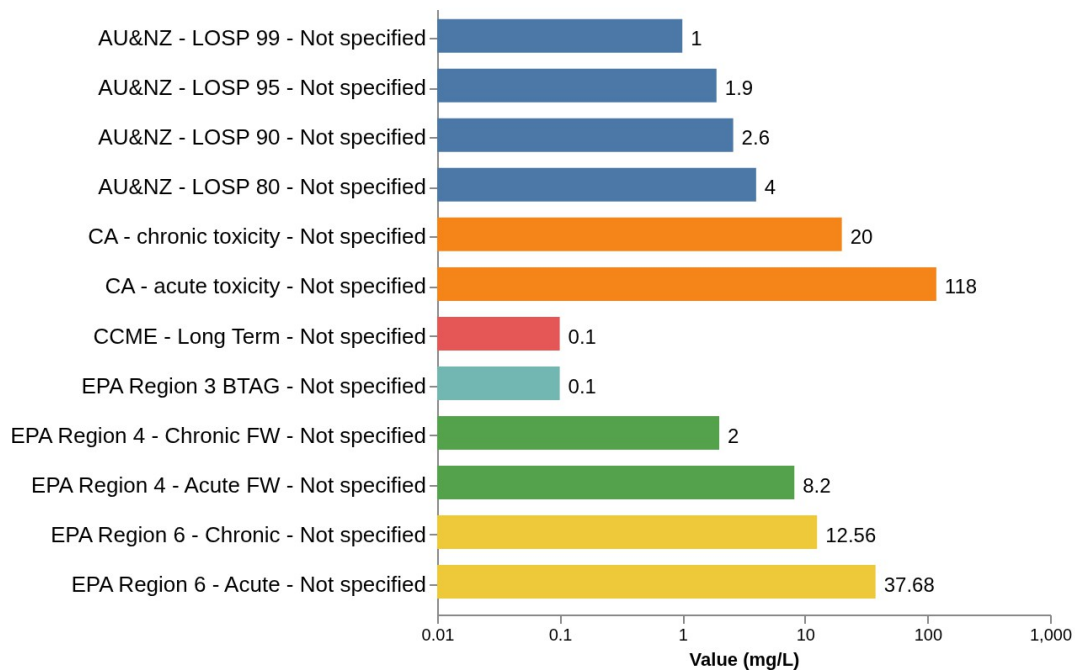


Table 307: Benchmark Values for Dichloroethylene, 1,1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-35-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.5000	83
75-35-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.7000	83, 89
75-35-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.9000	83
75-35-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.3000	83
75-35-4	California	Freshwater acute toxicity	Not specified	11.6000	
75-35-4	EPA Region 3	BTAG – Freshwater	Not specified	0.0250	
75-35-4	EPA Region 4	Chronic Freshwater	Not specified	0.1300	
75-35-4	EPA Region 4	Acute Freshwater	Not specified	1.2000	
75-35-4	EPA Region 6	Freshwater Chronic	Not specified	3.0300	
75-35-4	EPA Region 6	Freshwater Acute	Not specified	9.0800	
75-35-4	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0032	

Benchmark Values for Dichloroethylene, 1,1- in Surface Water (Fresh Water)

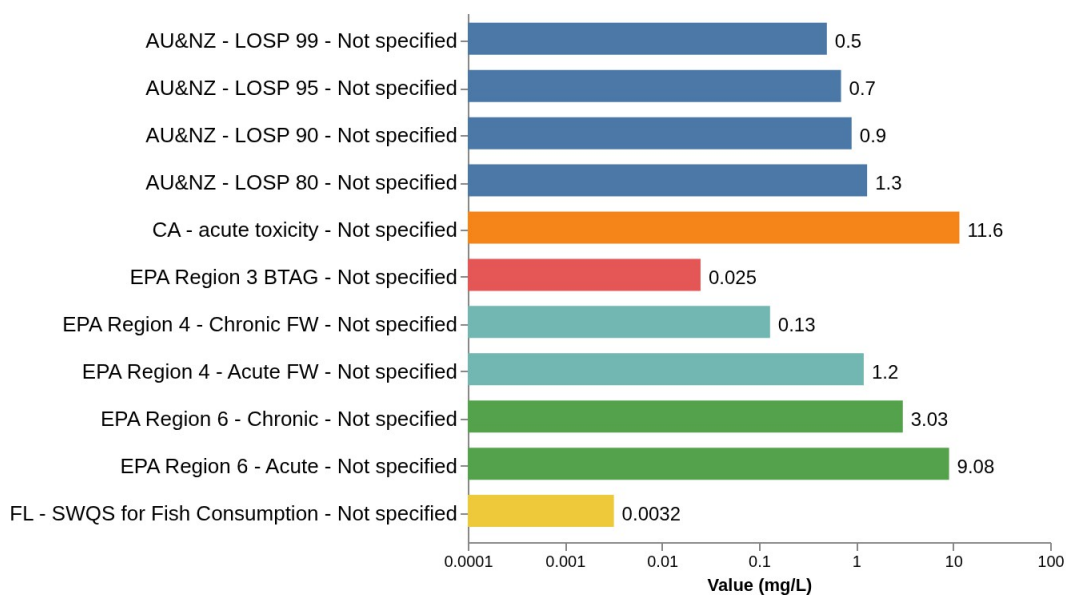


Table 308: Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
540-59-0	EPA Region 3	BTAG – Freshwater	Not specified	0.59
540-59-0	EPA Region 4	Chronic Freshwater	Not specified	0.97
540-59-0	EPA Region 4	Acute Freshwater	Not specified	8.80
540-59-0	EPA Region 6	Freshwater Chronic	Not specified	14.00
540-59-0	EPA Region 6	Freshwater Acute	Not specified	42.00

Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water (Fresh Water)

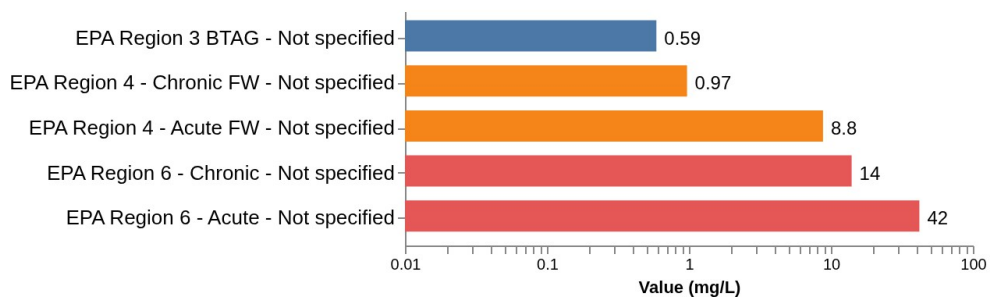


Table 309: Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-59-2	California	Freshwater acute toxicity	Not specified	11.60
156-59-2	EPA Region 4	Chronic Freshwater	Not specified	0.62
156-59-2	EPA Region 4	Acute Freshwater	Not specified	5.50

Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water (Fresh Water)

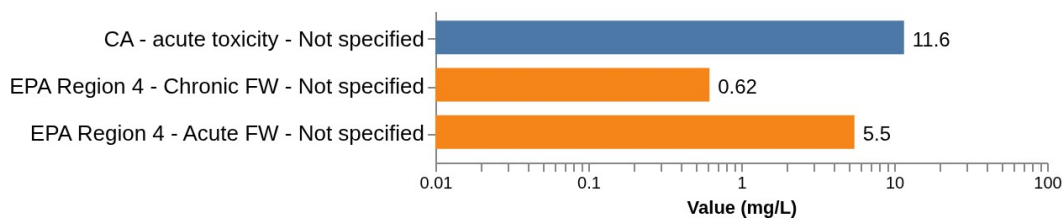


Table 310: Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-60-5	California	Freshwater acute toxicity	Not specified	11.600
156-60-5	EPA Region 3	BTAG – Freshwater	Not specified	0.970
156-60-5	EPA Region 4	Chronic Freshwater	Not specified	0.558
156-60-5	EPA Region 4	Acute Freshwater	Not specified	10.046
156-60-5	EPA Region 6	Freshwater Chronic	Not specified	22.000
156-60-5	EPA Region 6	Freshwater Acute	Not specified	66.000

Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water (Fresh Water)

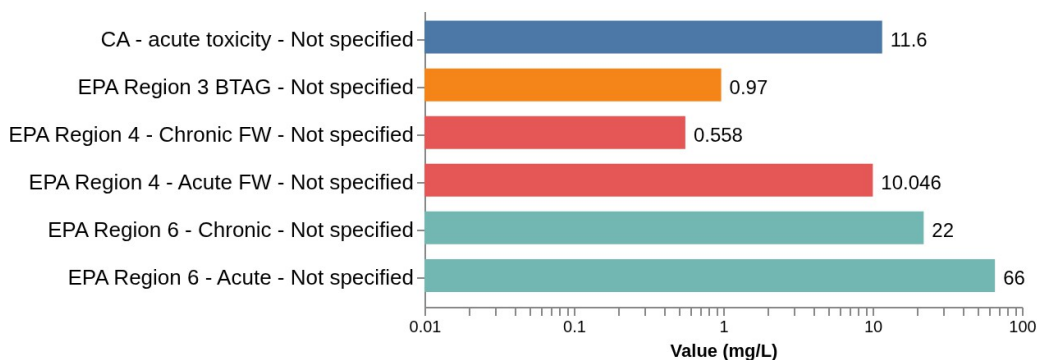


Table 311: Benchmark Values for Dichloroethylenes in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-4	California	Freshwater acute toxicity	Not specified	11.6

Benchmark Values for Dichloroethylenes in Surface Water (Fresh Water)

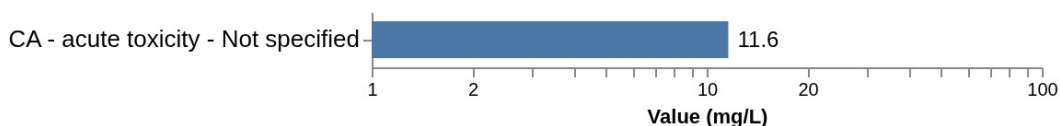


Table 312: Benchmark Values for Dichlorophenol, 2,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
576-24-9	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0310	83, 99
576-24-9	British Columbia	Freshwater STA	Not specified	0.0031	115

Benchmark Values for Dichlorophenol, 2,3- in Surface Water (Fresh Water)

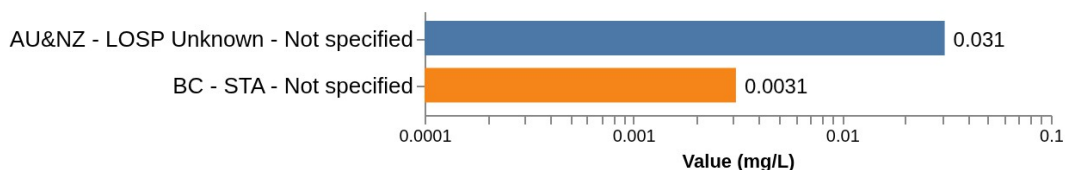


Table 313: Benchmark Values for Dichlorophenol, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-83-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.1200	87, 89, 99
120-83-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.1600	87, 90, 99
120-83-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.2000	87, 94, 99
120-83-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.2700	87, 94, 99
120-83-2	British Columbia	Freshwater STA	Not specified	0.0016	115
120-83-2	California	Freshwater other toxicity	Not specified	0.0700	
120-83-2	California	Freshwater chronic toxicity	Not specified	0.3650	
120-83-2	California	Freshwater acute toxicity	Not specified	2.0200	
120-83-2	Canada	Freshwater Long Term	Not specified	0.0002	
120-83-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0110	
120-83-2	EPA Region 4	Chronic Freshwater	Not specified	0.0110	
120-83-2	EPA Region 4	Acute Freshwater	Not specified	0.0920	
120-83-2	EPA Region 6	Freshwater Chronic	Not specified	0.2000	
120-83-2	EPA Region 6	Freshwater Acute	Not specified	0.6000	
120-83-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.7900	

Benchmark Values for Dichlorophenol, 2,4- in Surface Water (Fresh Water)

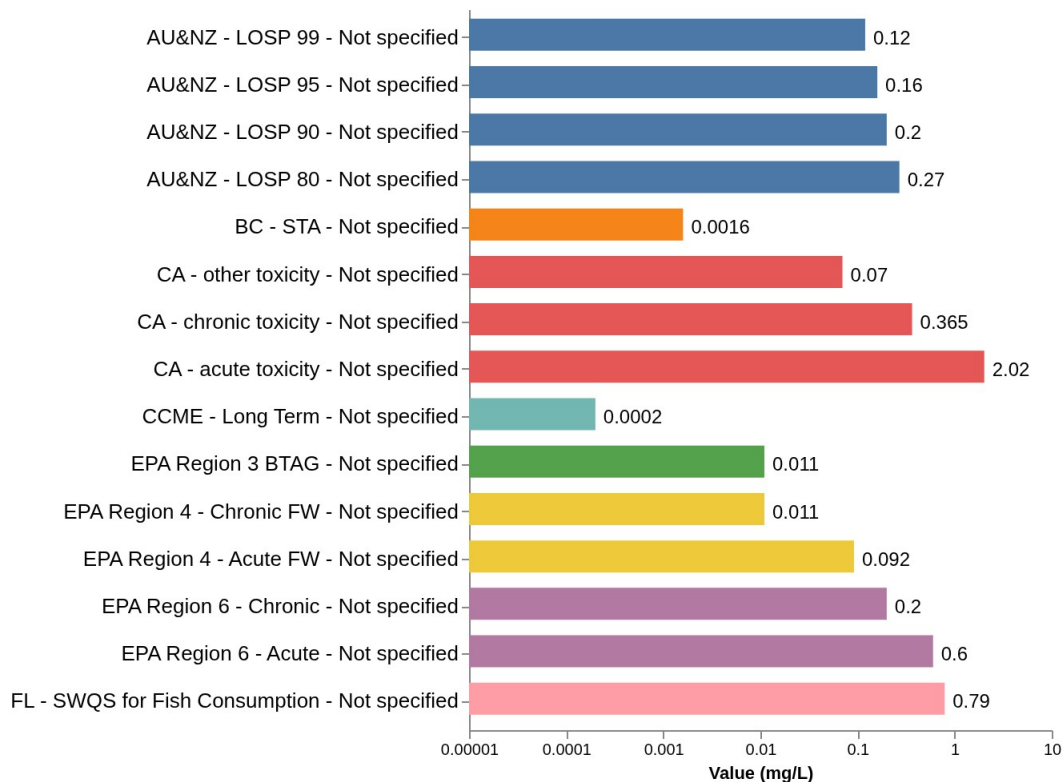


Table 314: Benchmark Values for Dichlorophenol, 2,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
583-78-8	British Columbia	Freshwater STA	Not specified	0.0014	115

Benchmark Values for Dichlorophenol, 2,5- in Surface Water (Fresh Water)

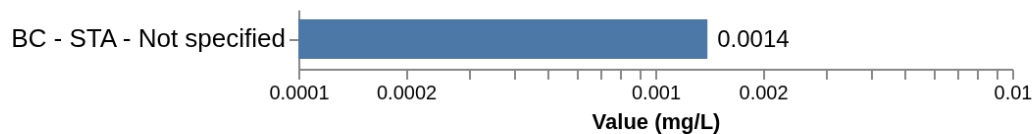


Table 315: Benchmark Values for Dichlorophenol, 2,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-65-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0340	83, 99
87-65-0	British Columbia	Freshwater STA	Not specified	0.0055	115

Benchmark Values for Dichlorophenol, 2,6- in Surface Water (Fresh Water)

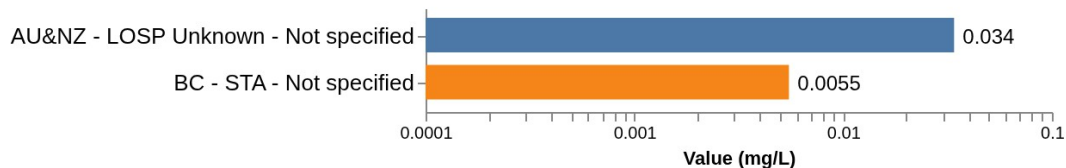


Table 316: Benchmark Values for Dichlorophenol, 3,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-77-2	British Columbia	Freshwater STA	Not specified	0.0016	115

Benchmark Values for Dichlorophenol, 3,4- in Surface Water (Fresh Water)

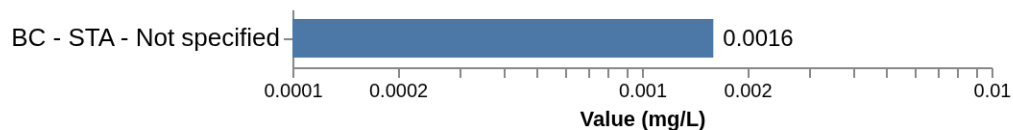
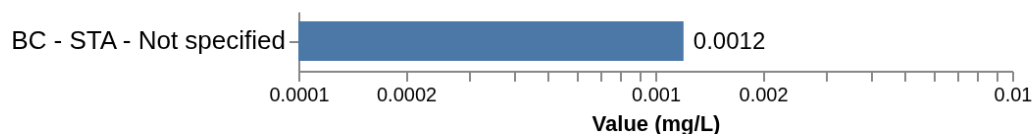
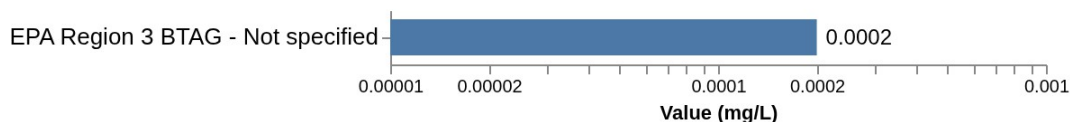


Table 317: Benchmark Values for Dichlorophenol, 3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
591-35-5	British Columbia	Freshwater STA	Not specified	0.0012	115

Benchmark Values for Dichlorophenol, 3,5- in Surface Water (Fresh Water)**Table 318: Benchmark Values for Dichlorophenols (total) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-04-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0002

Benchmark Values for Dichlorophenols (total) in Surface Water (Fresh Water)**Table 319: Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
94-75-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.1400	88
94-75-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.2800	88, 89
94-75-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.4500	88
94-75-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.8300	88
94-75-7	EPA Region 4	Chronic Freshwater	Not specified	0.0792	
94-75-7	EPA Region 4	Acute Freshwater	Not specified	0.1300	
94-75-7	OPP	Freshwater Vascular Plant	Not specified	0.2992	
94-75-7	OPP	Freshwater Invertebrates Acute	Not specified	12.5000	

Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water (Fresh Water)

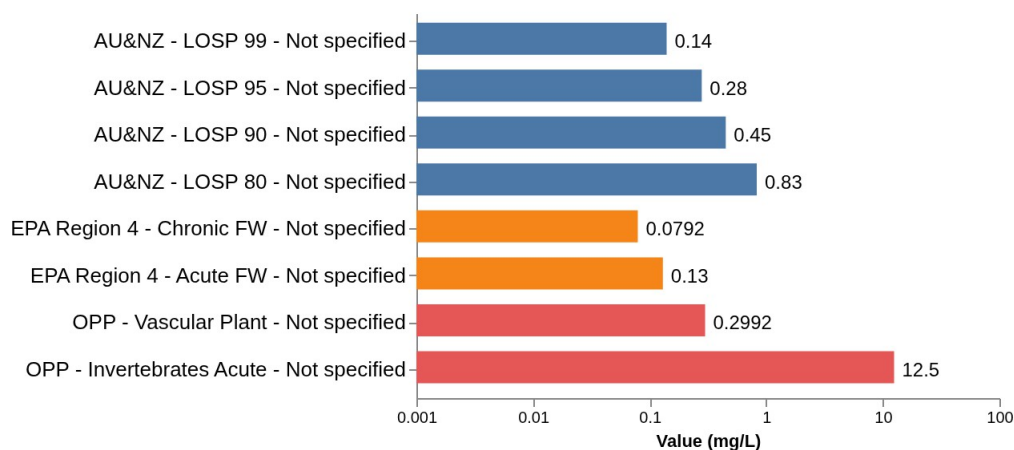


Table 320: Benchmark Values for Dichlorophenoxy)butyric Acid, 4-(2,4- Dimethylamine (2,4-DB) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2758-42-1	OPP	Freshwater Vascular Plant	Not specified	0.083
2758-42-1	OPP	Freshwater Nonvascular Plant	Not specified	0.932
2758-42-1	OPP	Freshwater Invertebrates Chronic	Not specified	1.500
2758-42-1	OPP	Freshwater Fish Chronic	Not specified	1.660
2758-42-1	OPP	Freshwater Fish Acute	Not specified	7.150
2758-42-1	OPP	Freshwater Invertebrates Acute	Not specified	12.500

Benchmark Values for Dichlorophenoxy)butyric Acid, 4-(2,4- Dimethylamine (2,4-DB) in Surface Water (Fresh Water)

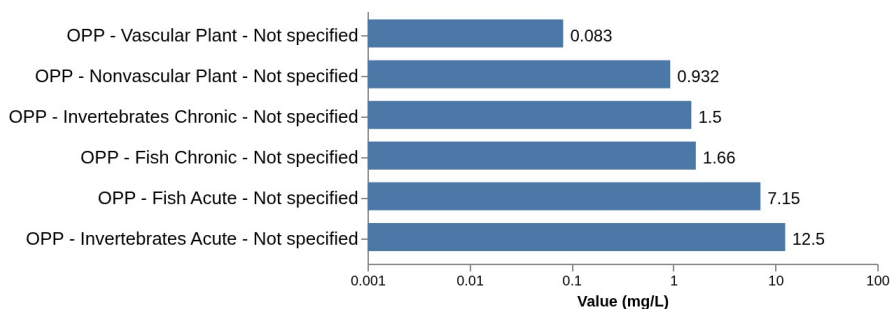


Table 321: Benchmark Values for Dichloropropane, 1,1 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-99-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.3	83
78-99-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.5	83, 89
78-99-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.7	83
78-99-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.0	83

Benchmark Values for Dichloropropane, 1,1 in Surface Water (Fresh Water)

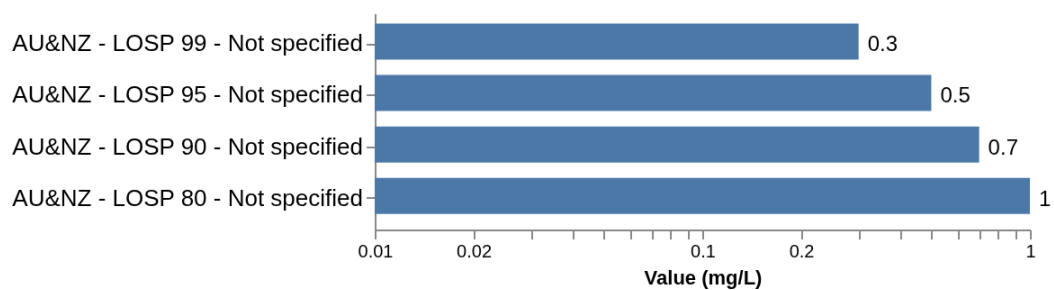


Table 322: Benchmark Values for Dichloropropane, 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-87-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.60	83
78-87-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.90	83, 89
78-87-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.20	83
78-87-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.80	83
78-87-5	California	Freshwater chronic toxicity	Not specified	5.70	
78-87-5	California	Freshwater acute toxicity	Not specified	23.00	
78-87-5	EPA Region 4	Chronic Freshwater	Not specified	0.52	
78-87-5	EPA Region 4	Acute Freshwater	Not specified	3.30	
78-87-5	EPA Region 6	Freshwater Chronic	Not specified	5.99	
78-87-5	EPA Region 6	Freshwater Acute	Not specified	17.96	

Benchmark Values for Dichloropropane, 1,2- in Surface Water (Fresh Water)

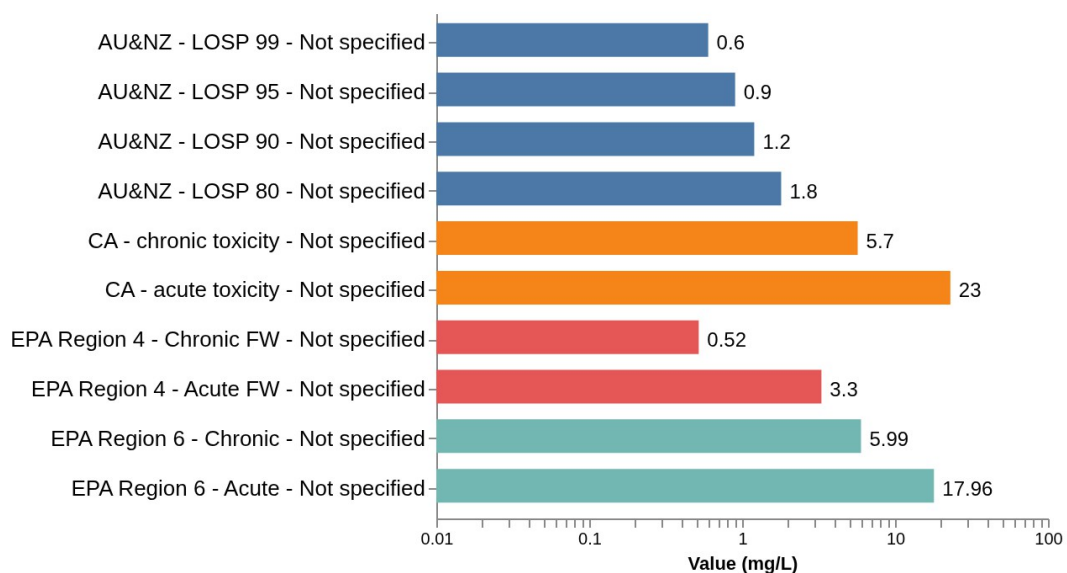


Table 323: Benchmark Values for Dichloropropane, 1,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
142-28-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.7	83
142-28-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.1	83, 89
142-28-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.4	83
142-28-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	2.0	83

Benchmark Values for Dichloropropane, 1,3- in Surface Water (Fresh Water)

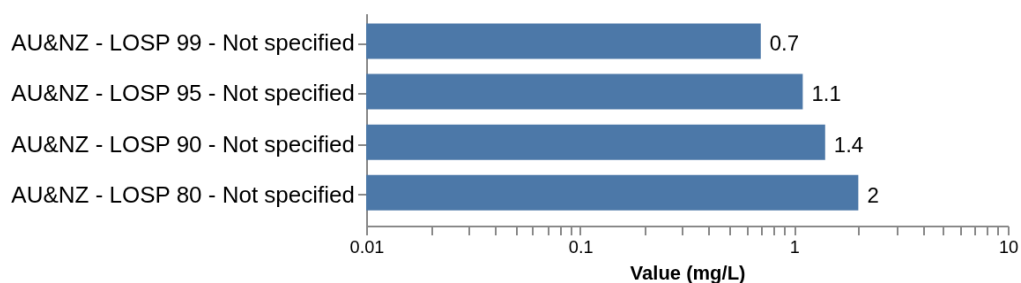


Table 324: Benchmark Values for Dichloropropanes in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
26638-19-7	California	Freshwater chronic toxicity	Not specified	5.7
26638-19-7	California	Freshwater acute toxicity	Not specified	23.0

Benchmark Values for Dichloropropanes in Surface Water (Fresh Water)

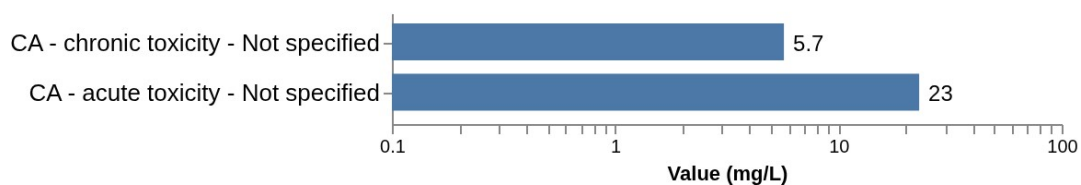


Table 325: Benchmark Values for Dichloropropene, 1,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
542-75-6	California	Freshwater chronic toxicity	Not specified	0.244000
542-75-6	California	Freshwater acute toxicity	Not specified	6.060000
542-75-6	EPA Region 3	BTAG – Freshwater	Not specified	0.000055
542-75-6	EPA Region 4	Chronic Freshwater	Not specified	0.001700
542-75-6	EPA Region 4	Acute Freshwater	Not specified	0.015000
542-75-6	EPA Region 6	Freshwater Chronic	Not specified	0.205000
542-75-6	EPA Region 6	Freshwater Acute	Not specified	1.230000
542-75-6	OPP	Freshwater Fish Chronic	Not specified	0.002300
542-75-6	OPP	Freshwater Invertebrates Acute	Not specified	0.045000
542-75-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.070000
542-75-6	OPP	Freshwater Fish Acute	Not specified	0.540000
542-75-6	OPP	Freshwater Nonvascular Plant	Not specified	7.900000
542-75-6	OPP	Freshwater Vascular Plant	Not specified	20.000000

Benchmark Values for Dichloropropene, 1,3- in Surface Water (Fresh Water)

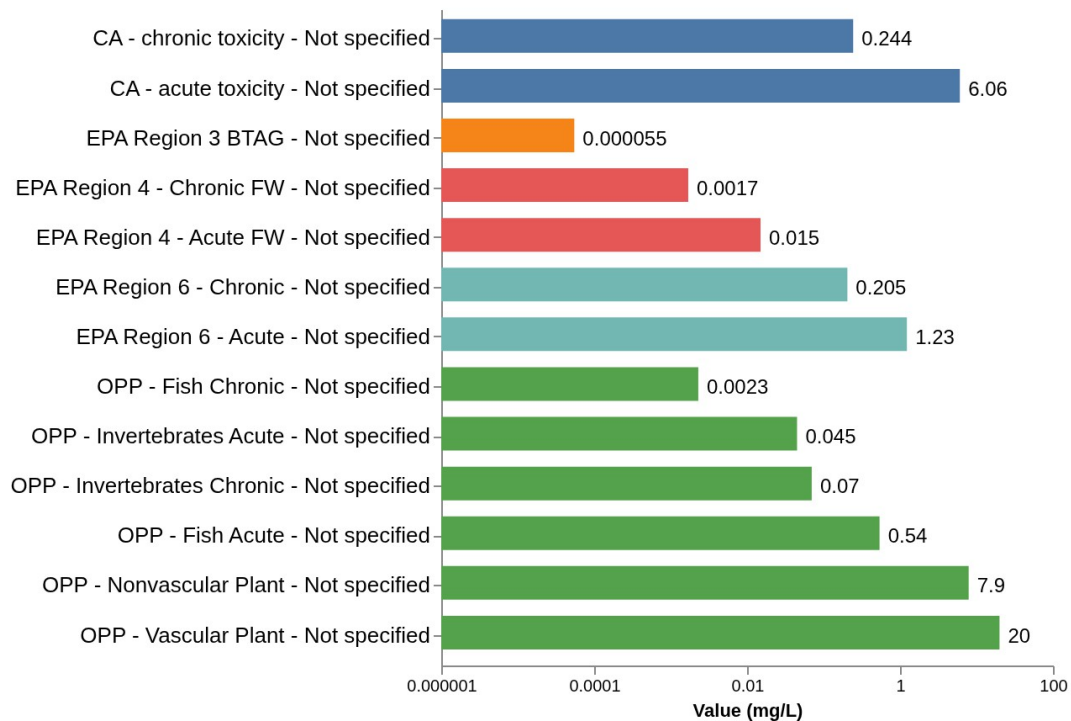


Table 326: Benchmark Values for Dichloropropenes in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-5	California	Freshwater chronic toxicity	Not specified	0.244
000000-47-5	California	Freshwater acute toxicity	Not specified	6.060

Benchmark Values for Dichloropropenes in Surface Water (Fresh Water)

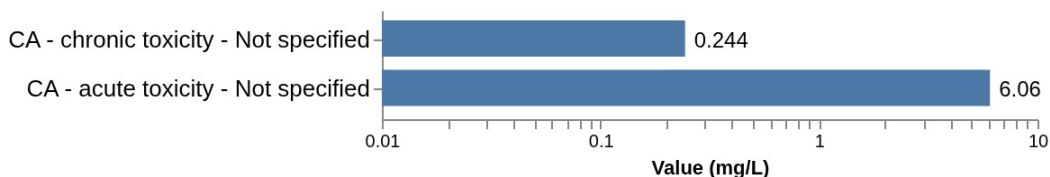


Table 327: Benchmark Values for Dichloroquinolin-4-ol, 5,7- (DCHQ) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
171850-29-6	OPP	Freshwater Invertebrates Acute	Not specified	0.25	22
171850-29-6	OPP	Freshwater Nonvascular Plant	Not specified	0.50	22

Benchmark Values for Dichloroquinolin-4-ol, 5,7- (DCHQ) in Surface Water (Fresh Water)

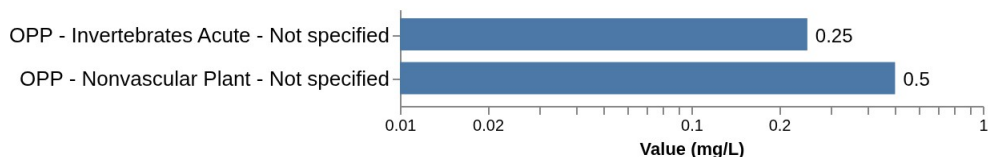


Table 328: Benchmark Values for Dichlorosalicylic acid (DCSA), 3, 6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3401-80-7	OPP	Freshwater Invertebrates Acute	Not specified	44.5	
3401-80-7	OPP	Freshwater Fish Acute	Not specified	50.0	22
3401-80-7	OPP	Freshwater Vascular Plant	Not specified	73.0	22
3401-80-7	OPP	Freshwater Nonvascular Plant	Not specified	138.0	

Benchmark Values for Dichlorosalicylic acid (DCSA), 3, 6- in Surface Water (Fresh Water)

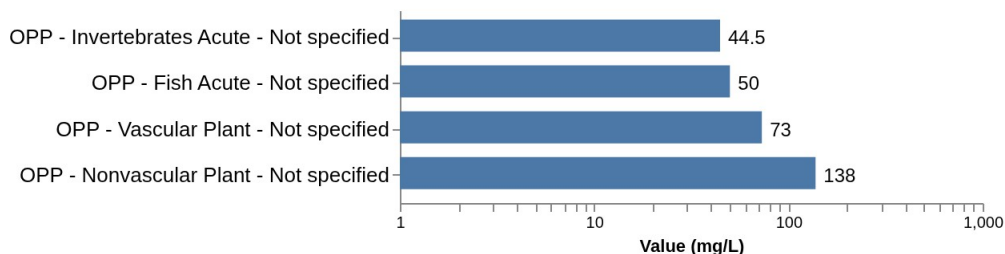


Table 329: Benchmark Values for Dichlorvos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
62-73-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.000006
62-73-7	OPP	Freshwater Invertebrates Acute	Not specified	0.000033
62-73-7	OPP	Freshwater Fish Chronic	Not specified	0.005200
62-73-7	OPP	Freshwater Fish Acute	Not specified	0.050000
62-73-7	OPP	Freshwater Nonvascular Plant	Not specified	14.000000
62-73-7	OPP	Freshwater Vascular Plant	Not specified	60.600000

Benchmark Values for Dichlorvos in Surface Water (Fresh Water)

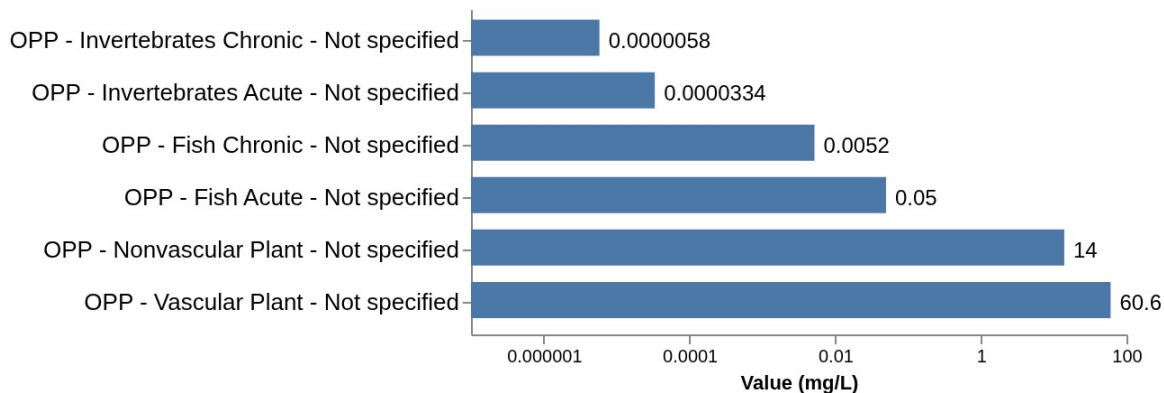


Table 330: Benchmark Values for Diclofop Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
40843-25-2	OPP	Freshwater Fish Acute	Not specified	10.95

Benchmark Values for Diclofop Acid in Surface Water (Fresh Water)

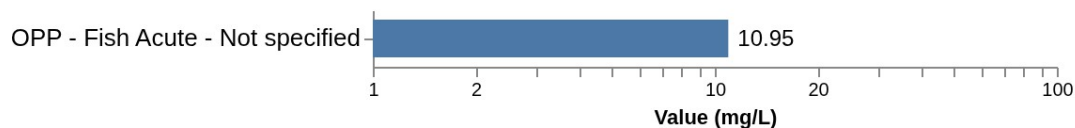


Table 331: Benchmark Values for Diclofop-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
51338-27-3	Canada	Freshwater Long Term	Not specified	0.0061
51338-27-3	OPP	Freshwater Fish Chronic	Not specified	0.0075
51338-27-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.0640
51338-27-3	OPP	Freshwater Fish Acute	Not specified	0.0750
51338-27-3	OPP	Freshwater Invertebrates Acute	Not specified	0.1850
51338-27-3	OPP	Freshwater Vascular Plant	Not specified	1.2950

Benchmark Values for Diclofop-methyl in Surface Water (Fresh Water)

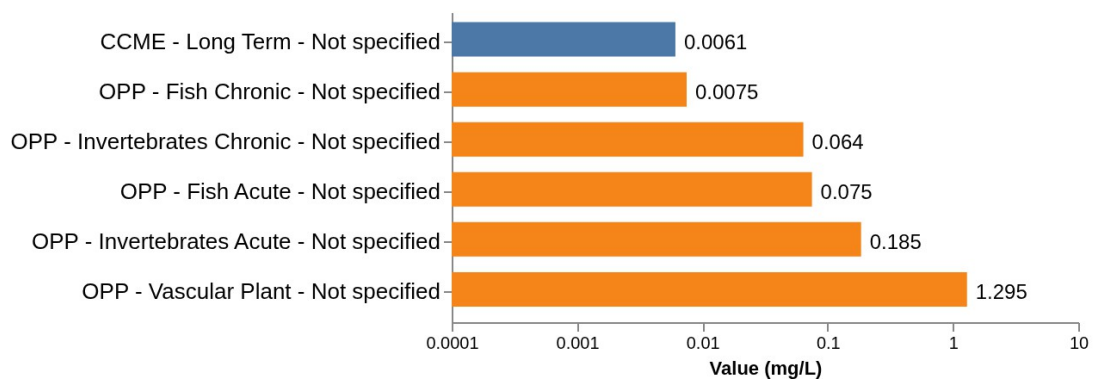


Table 332: Benchmark Values for Dicofol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
115-32-2	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0005	83, 101
115-32-2	EPA Region 6	Freshwater Chronic	Not specified	0.0198	
115-32-2	EPA Region 6	Freshwater Acute	Not specified	0.0593	
115-32-2	OPP	Freshwater Fish Chronic	Not specified	0.0044	
115-32-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0190	
115-32-2	OPP	Freshwater Fish Acute	Not specified	0.0265	
115-32-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0700	
115-32-2	OPP	Freshwater Nonvascular Plant	Not specified	5.0000	22

Benchmark Values for Dicofol in Surface Water (Fresh Water)

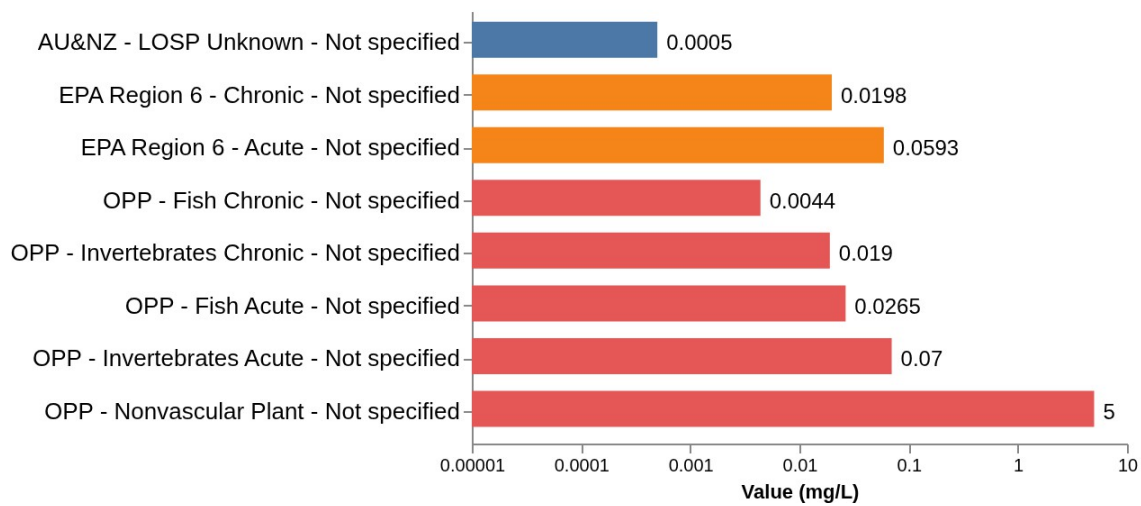


Table 333: Benchmark Values for Dicrotophos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
141-66-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0017	
141-66-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0063	
141-66-2	OPP	Freshwater Fish Acute	Not specified	2.8500	
141-66-2	OPP	Freshwater Fish Chronic	Not specified	9.8800	
141-66-2	OPP	Freshwater Vascular Plant	Not specified	117.0000	22
141-66-2	OPP	Freshwater Nonvascular Plant	Not specified	118.0000	22

Benchmark Values for Dicrotophos in Surface Water (Fresh Water)

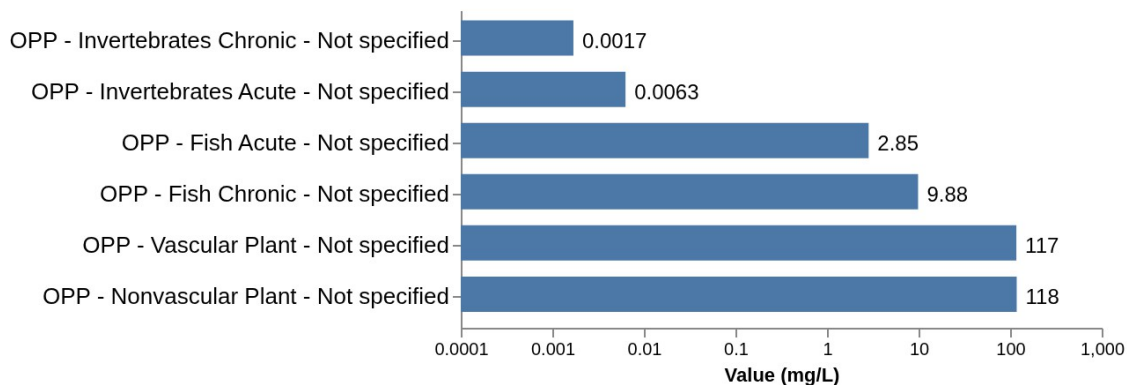


Table 334: Benchmark Values for Didecyl dimethyl ammonium chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7173-51-5	Canada	Freshwater Long Term	Not specified	0.0015	

Benchmark Values for Didecyl dimethyl ammonium chloride in Surface Water (Fresh Water)

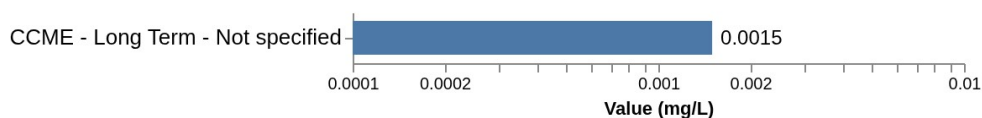


Table 335: Benchmark Values for Dieldrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60-57-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	1.000000e-05	83, 101
60-57-1	California	Freshwater CCC, 4-day average	Not specified	5.600000e-05	
60-57-1	California	Freshwater CMC, 1-hour average	Not specified	2.400000e-04	
60-57-1	California	Freshwater CMC, 1-hour average	Not specified	2.400000e-04	
60-57-1	Delaware	Freshwater Chronic Criterion	Not specified	5.600000e-05	
60-57-1	Delaware	Freshwater Acute Criterion	Not specified	2.400000e-04	
60-57-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	5.600000e-05	
60-57-1	EPA NRWQC	Freshwater CMC Acute	Not specified	2.400000e-04	
60-57-1	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	6.200000e-05	
60-57-1	EPA Region 3	BTAG – Freshwater	Not specified	5.600000e-05	
60-57-1	EPA Region 4	Chronic Freshwater	Aquatic only	6.000000e-05	7
60-57-1	EPA Region 4	Chronic Freshwater	Wildlife only	6.000000e-05	7
60-57-1	EPA Region 4	Acute Freshwater	Wildlife only	2.400000e-04	7
60-57-1	EPA Region 4	Acute Freshwater	Aquatic only	2.400000e-04	7
60-57-1	EPA Region 6	Freshwater Chronic	Not specified	2.000000e-06	
60-57-1	EPA Region 6	Freshwater Acute	Not specified	2.400000e-04	
60-57-1	Florida	SWQS for Fish Consumption Freshwater	Not specified	1.400000e-07	
60-57-1	New Jersey	Freshwater Chronic	Not specified	5.600000e-05	
60-57-1	New Jersey	Freshwater Acute	Not specified	2.400000e-04	

Benchmark Values for Dieldrin in Surface Water (Fresh Water)

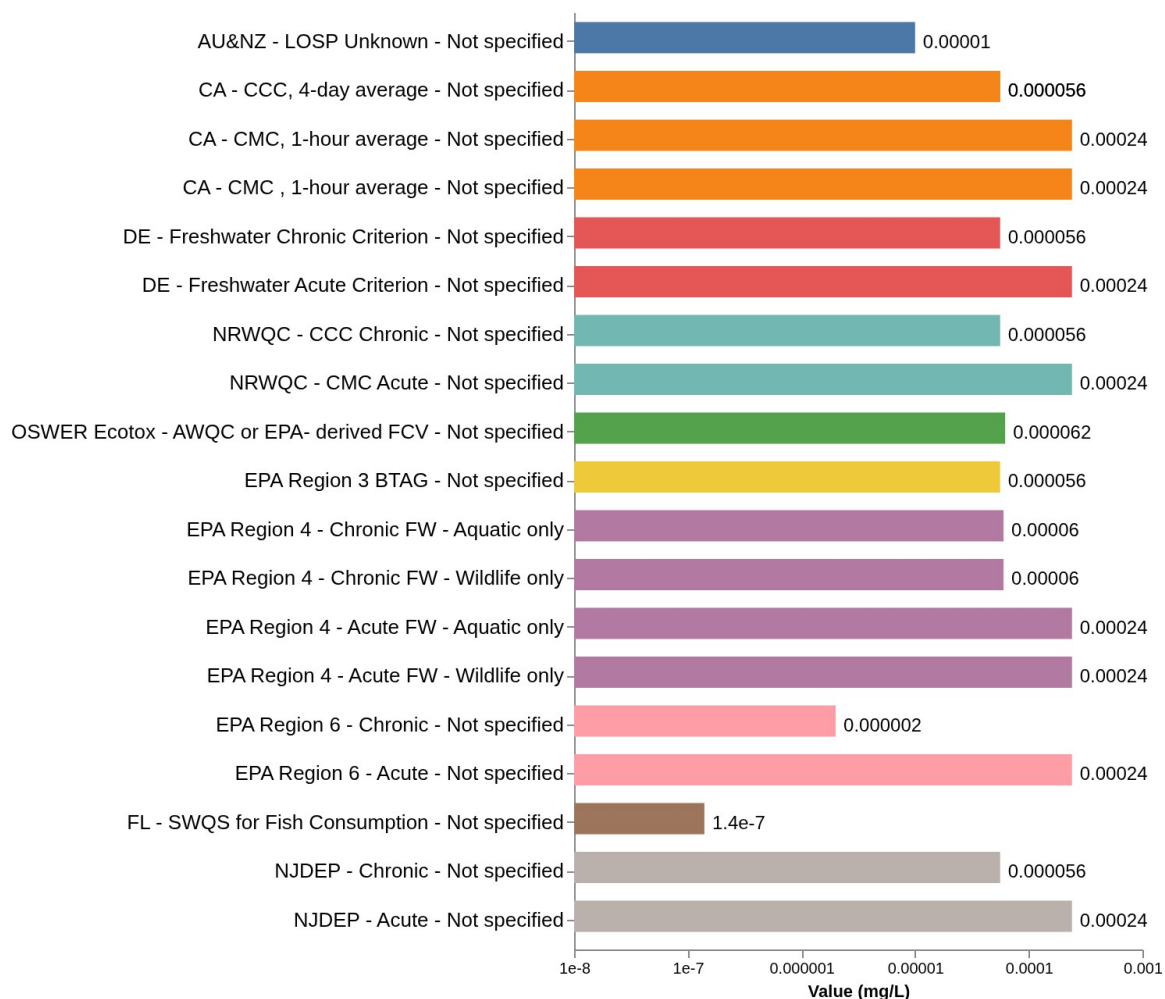


Table 336: Benchmark Values for Diethyl Phthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
84-66-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.900	84
84-66-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.000	84, 89
84-66-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.100	84
84-66-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.300	84
84-66-2	California	Freshwater chronic toxicity	Not specified	0.003	
84-66-2	California	Freshwater acute toxicity	Not specified	0.940	
84-66-2	EPA OSWER	Freshwater Tier II methodology	Not specified	0.220	
84-66-2	EPA Region 3	BTAG – Freshwater	Not specified	0.210	
84-66-2	EPA Region 4	Chronic Freshwater	Not specified	0.220	
84-66-2	EPA Region 4	Acute Freshwater	Not specified	0.980	
84-66-2	EPA Region 6	Freshwater Chronic	Not specified	1.043	
84-66-2	EPA Region 6	Freshwater Acute	Not specified	6.259	

Benchmark Values for Diethyl Phthalate in Surface Water (Fresh Water)

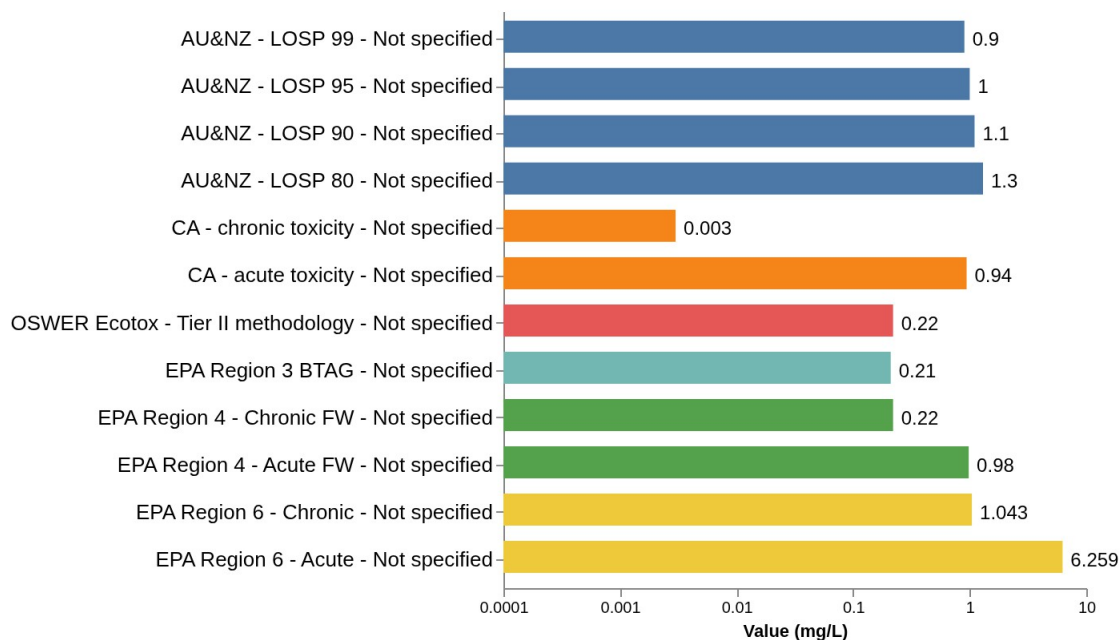


Table 337: Benchmark Values for Diethyl-meta-Toluamide, N,N (DEET) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
134-62-3	OPP	Freshwater Invertebrates Acute	Not specified	37.5
134-62-3	OPP	Freshwater Fish Acute	Not specified	37.5

Benchmark Values for Diethyl-meta-Toluamide, N,N (DEET) in Surface Water (Fresh Water)

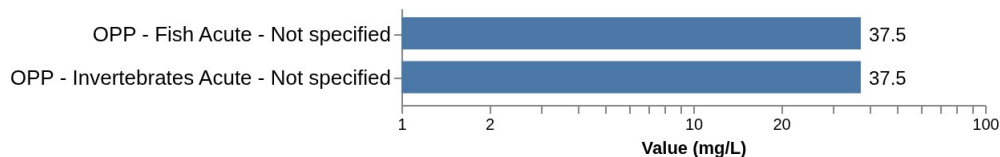


Table 338: Benchmark Values for Difenacoum in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
56073-07-5	OPP	Freshwater Fish Acute	Not specified	0.032
56073-07-5	OPP	Freshwater Invertebrates Acute	Not specified	0.305
56073-07-5	OPP	Freshwater Nonvascular Plant	Not specified	0.320

Benchmark Values for Difenacoum in Surface Water (Fresh Water)

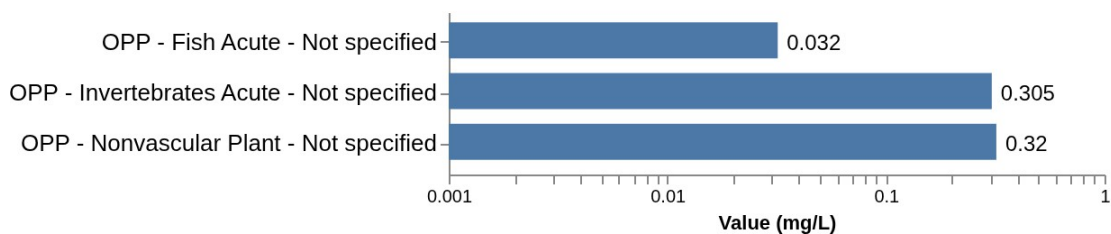


Table 339: Benchmark Values for Difenoconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
119446-68-3	OPP	Freshwater Fish Chronic	Not specified	0.00086
119446-68-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.00560
119446-68-3	OPP	Freshwater Nonvascular Plant	Not specified	0.09800
119446-68-3	OPP	Freshwater Invertebrates Acute	Not specified	0.38500
119446-68-3	OPP	Freshwater Fish Acute	Not specified	0.40500
119446-68-3	OPP	Freshwater Vascular Plant	Not specified	1.90000

Benchmark Values for Difenoconazole in Surface Water (Fresh Water)

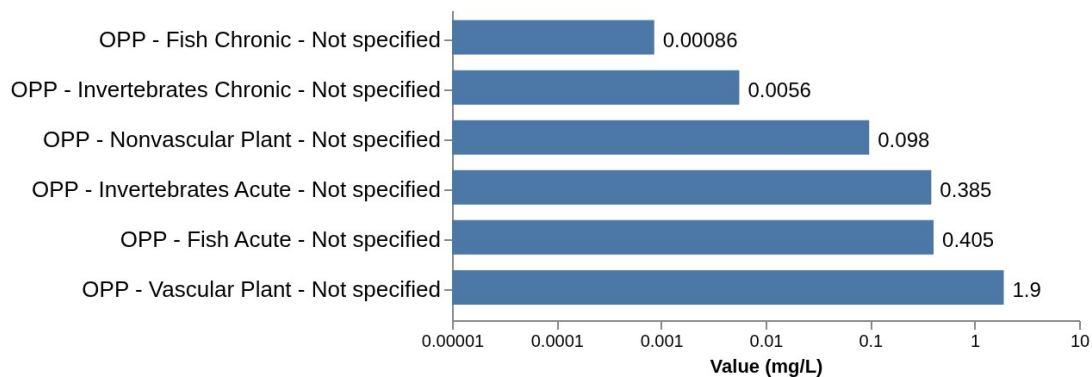


Table 340: Benchmark Values for Difenzoquat in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
43222-48-6	OPP	Freshwater Vascular Plant	Not specified	0.120
43222-48-6	OPP	Freshwater Nonvascular Plant	Not specified	0.630
43222-48-6	OPP	Freshwater Invertebrates Acute	Not specified	1.265
43222-48-6	OPP	Freshwater Fish Acute	Not specified	23.250

Benchmark Values for Difenzoquat in Surface Water (Fresh Water)

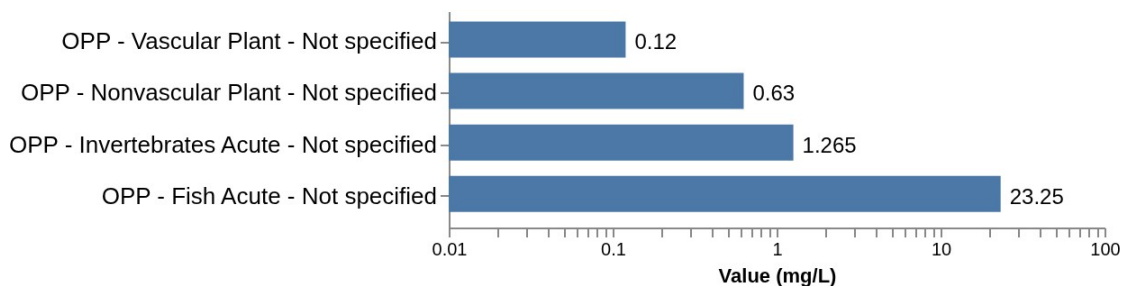


Table 341: Benchmark Values for Difethialone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
104653-34-1	OPP	Freshwater Invertebrates Acute	Not specified	0.0022
104653-34-1	OPP	Freshwater Fish Acute	Not specified	0.0255

Benchmark Values for Difethialone in Surface Water (Fresh Water)

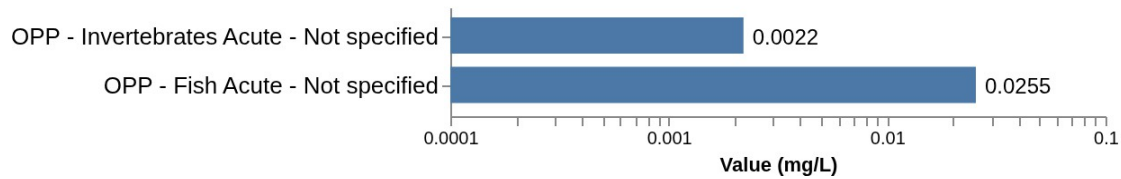


Table 342: Benchmark Values for Diflubenzuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
35367-38-5	OPP	Freshwater Invertebrates Chronic	Not specified	2.500000e-07
35367-38-5	OPP	Freshwater Invertebrates Acute	Not specified	1.400000e-06
35367-38-5	OPP	Freshwater Fish Chronic	Not specified	1.000000e-01
35367-38-5	OPP	Freshwater Vascular Plant	Not specified	1.900000e-01
35367-38-5	OPP	Freshwater Nonvascular Plant	Not specified	2.000000e-01
35367-38-5	OPP	Freshwater Fish Acute	Not specified	6.450000e+01

Benchmark Values for Diflubenzuron in Surface Water (Fresh Water)

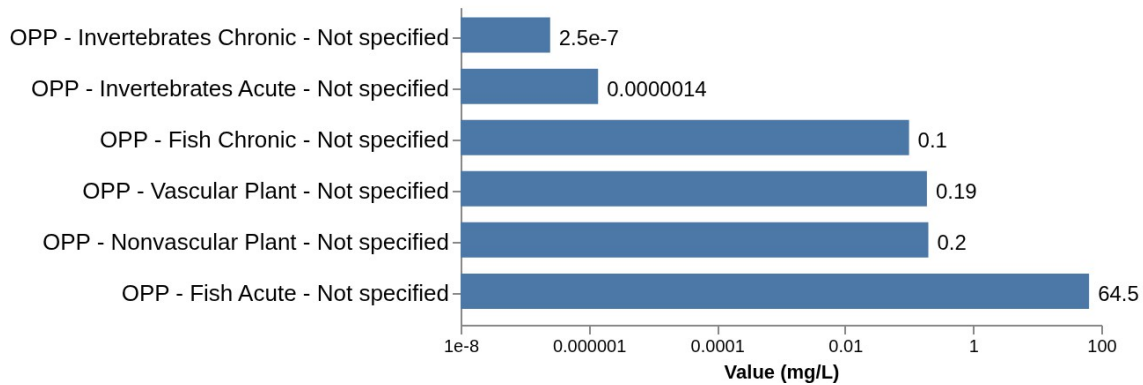


Table 343: Benchmark Values for Diisopropanolamine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
110-97-4	British Columbia	Freshwater STA	Not specified	1.6
110-97-4	Canada	Freshwater Long Term	Not specified	1.6

Benchmark Values for Diisopropanolamine in Surface Water (Fresh Water)

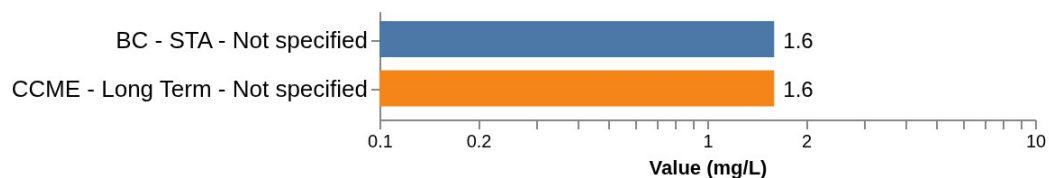


Table 344: Benchmark Values for Dikegulac sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52508-35-7	OPP	Freshwater Vascular Plant	Not specified	9.6	
52508-35-7	OPP	Freshwater Fish Acute	Not specified	60.5	22
52508-35-7	OPP	Freshwater Nonvascular Plant	Not specified	100.0	
52508-35-7	OPP	Freshwater Invertebrates Acute	Not specified	5000.0	22

Benchmark Values for Dikegulac sodium in Surface Water (Fresh Water)

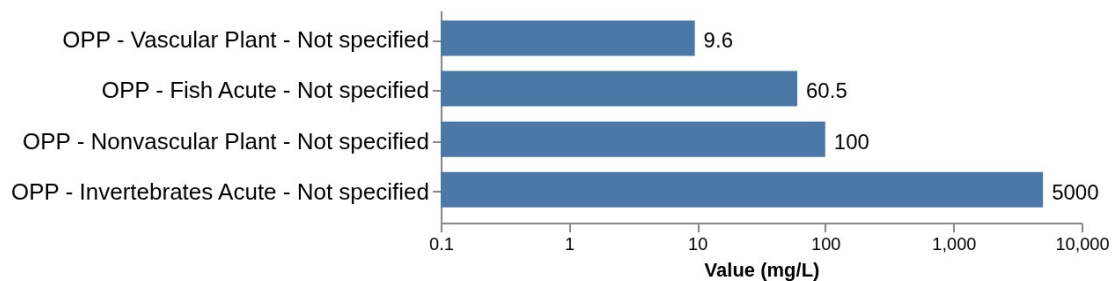


Table 345: Benchmark Values for Dimethenamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
87674-68-8	OPP	Freshwater Vascular Plant	Not specified	0.0089
87674-68-8	OPP	Freshwater Nonvascular Plant	Not specified	0.0140
87674-68-8	OPP	Freshwater Fish Chronic	Not specified	0.1200
87674-68-8	OPP	Freshwater Invertebrates Chronic	Not specified	1.3600
87674-68-8	OPP	Freshwater Fish Acute	Not specified	3.1500
87674-68-8	OPP	Freshwater Invertebrates Acute	Not specified	6.0000

Benchmark Values for Dimethenamid in Surface Water (Fresh Water)

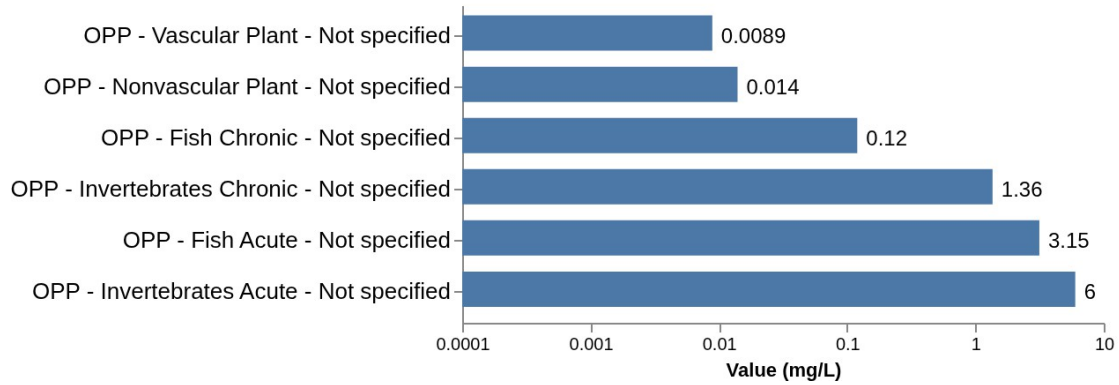


Table 346: Benchmark Values for Dimethoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60-51-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00010	87
60-51-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00015	87, 89
60-51-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00020	87
60-51-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00030	87
60-51-5	Canada	Freshwater Long Term	Not specified	0.00620	
60-51-5	EPA Region 3	BTAG – Freshwater	Not specified	0.00620	
60-51-5	EPA Region 4	Chronic Freshwater	Not specified	0.00050	
60-51-5	EPA Region 4	Acute Freshwater	Not specified	0.02200	
60-51-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00050	
60-51-5	OPP	Freshwater Invertebrates Acute	Not specified	0.02150	
60-51-5	OPP	Freshwater Fish Chronic	Not specified	0.43000	
60-51-5	OPP	Freshwater Fish Acute	Not specified	3.10000	
60-51-5	OPP	Freshwater Nonvascular Plant	Not specified	20.00000	
60-51-5	OPP	Freshwater Vascular Plant	Not specified	92.60000	22

Benchmark Values for Dimethoate in Surface Water (Fresh Water)

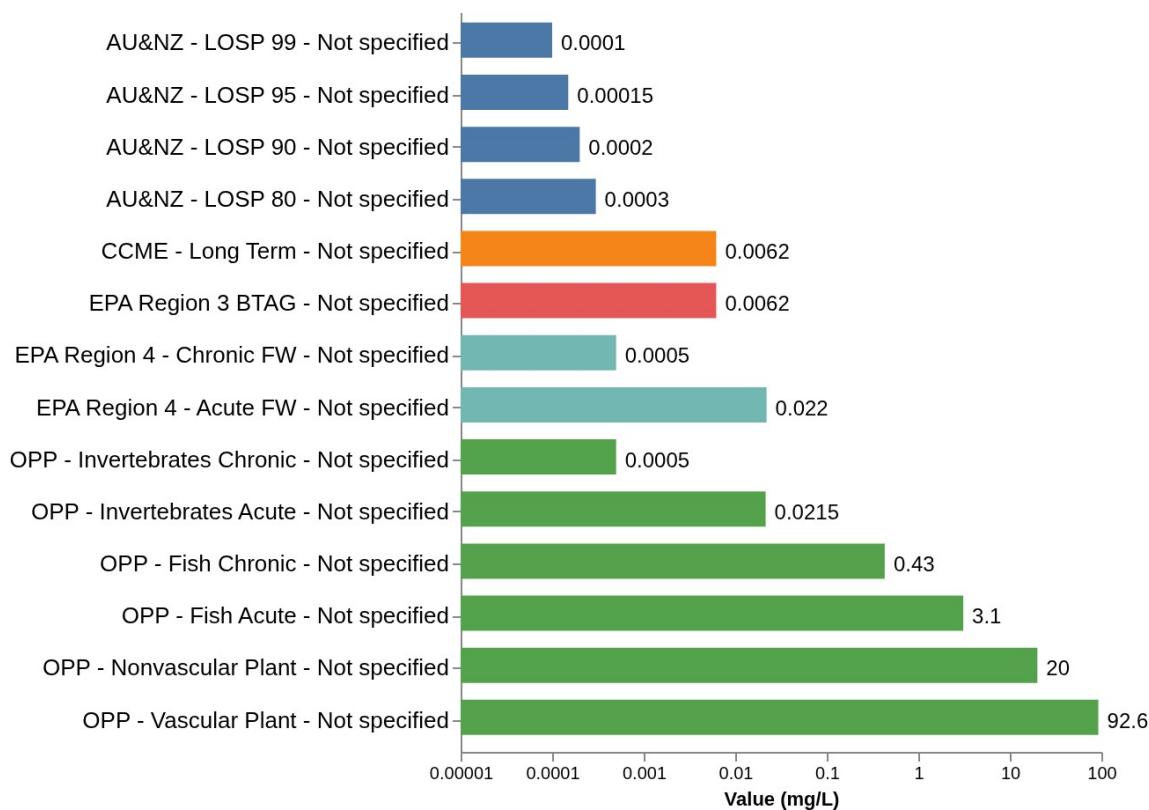


Table 347: Benchmark Values for Dimethomorph in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110488-70-5	OPP	Freshwater Fish Chronic	Not specified	0.107	
110488-70-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.110	
110488-70-5	OPP	Freshwater Fish Acute	Not specified	3.100	
110488-70-5	OPP	Freshwater Invertebrates Acute	Not specified	5.300	22
110488-70-5	OPP	Freshwater Vascular Plant	Not specified	22.040	
110488-70-5	OPP	Freshwater Nonvascular Plant	Not specified	23.800	

Benchmark Values for Dimethomorph in Surface Water (Fresh Water)

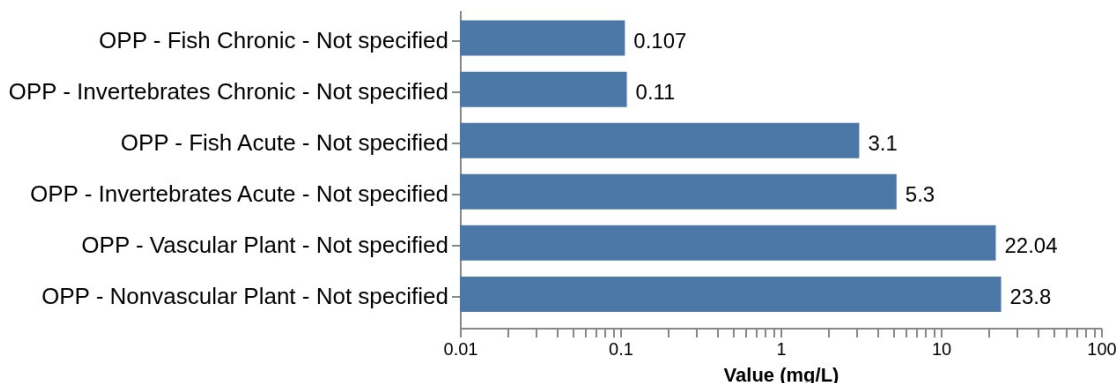


Table 348: Benchmark Values for Dimethoxyypyrimidine, 2-Amino-4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
36315-01-2	OPP	Freshwater Invertebrates Chronic	Not specified	24.0	
36315-01-2	OPP	Freshwater Fish Acute	Not specified	48.5	
36315-01-2	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22
36315-01-2	OPP	Freshwater Vascular Plant	Not specified	100.0	22
36315-01-2	OPP	Freshwater Nonvascular Plant	Not specified	120.0	

Benchmark Values for Dimethoxyypyrimidine, 2-Amino-4,6- in Surface Water (Fresh Water)

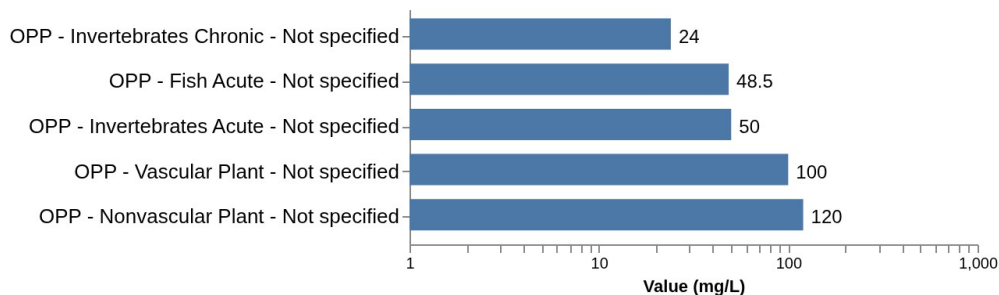


Table 349: Benchmark Values for Dimethylformamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68-12-2	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	1.0	83

Benchmark Values for Dimethylformamide in Surface Water (Fresh Water)



Table 350: Benchmark Values for Dimethylphenol, 2,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
526-75-0	EPA Region 4	Chronic Freshwater	Not specified	0.12
526-75-0	EPA Region 4	Acute Freshwater	Not specified	1.10

Benchmark Values for Dimethylphenol, 2,3- in Surface Water (Fresh Water)

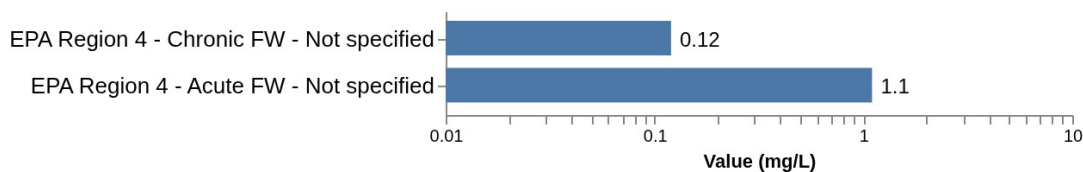


Table 351: Benchmark Values for Dimethylphenol, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
105-67-9	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.002	83
105-67-9	California	Freshwater acute toxicity	Not specified	2.120	
105-67-9	EPA Region 4	Chronic Freshwater	Not specified	0.015	
105-67-9	EPA Region 4	Acute Freshwater	Not specified	0.140	
105-67-9	EPA Region 6	Freshwater Chronic	Not specified	0.120	
105-67-9	EPA Region 6	Freshwater Acute	Not specified	0.370	

Benchmark Values for Dimethylphenol, 2,4- in Surface Water (Fresh Water)

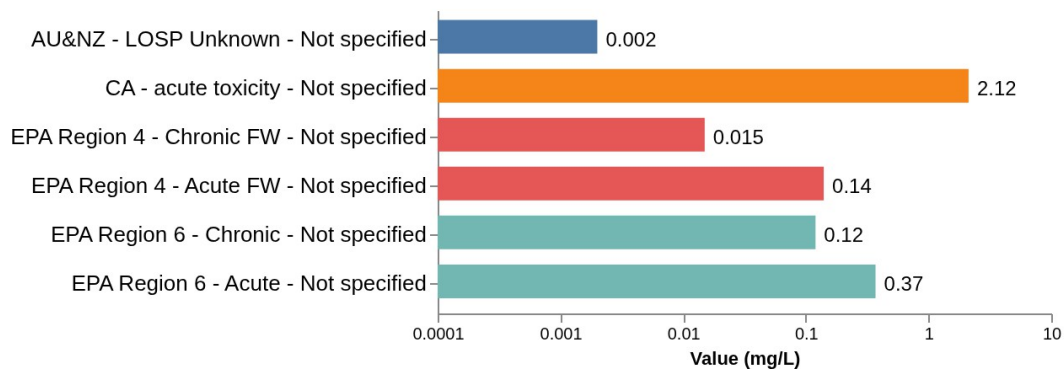


Table 352: Benchmark Values for Dimethylphthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
131-11-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	3.000	87
131-11-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	3.700	87, 89
131-11-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	4.300	87
131-11-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	5.100	87
131-11-3	California	Freshwater chronic toxicity	Not specified	0.003	
131-11-3	California	Freshwater acute toxicity	Not specified	0.940	
131-11-3	EPA Region 4	Chronic Freshwater	Not specified	1.100	
131-11-3	EPA Region 4	Acute Freshwater	Not specified	3.200	
131-11-3	EPA Region 6	Freshwater Chronic	Not specified	1.650	
131-11-3	EPA Region 6	Freshwater Acute	Not specified	9.900	

Benchmark Values for Dimethylphthalate in Surface Water (Fresh Water)

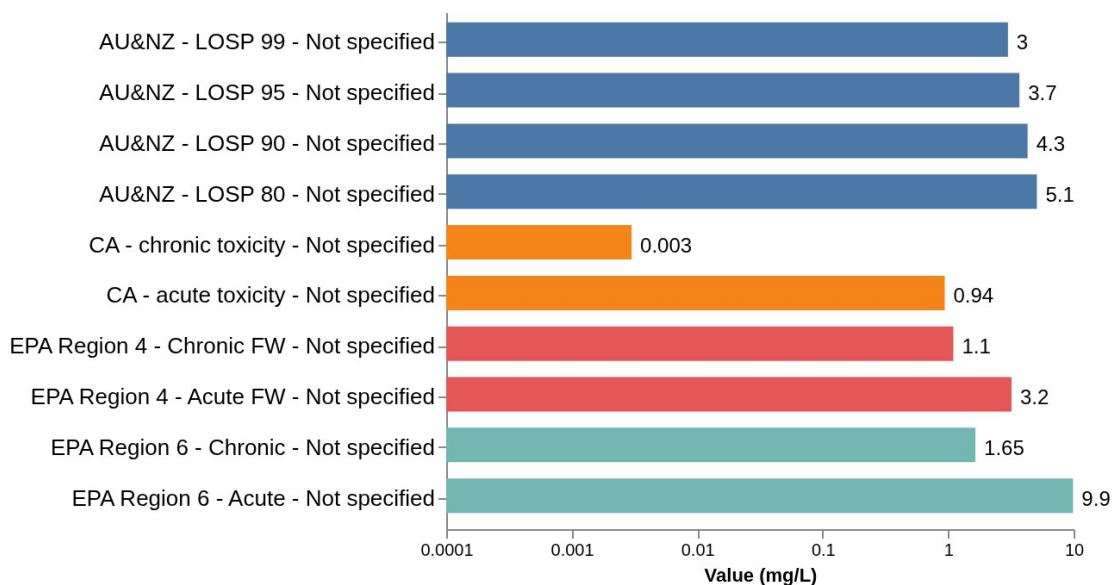


Table 353: Benchmark Values for Dimethylterephthalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
120-61-6	California	Freshwater chronic toxicity	Not specified	0.003
120-61-6	California	Freshwater acute toxicity	Not specified	0.940

Benchmark Values for Dimethylterephthalate in Surface Water (Fresh Water)

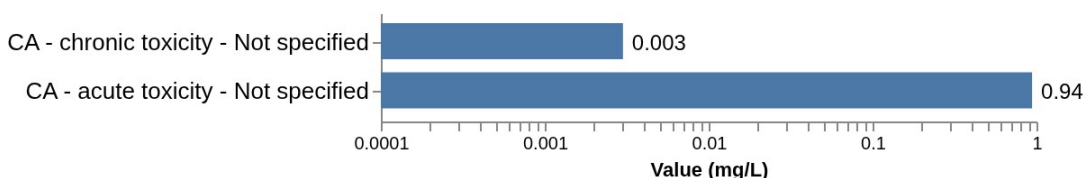


Table 354: Benchmark Values for Di-n-butyltin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1002-53-5	British Columbia	Freshwater LTC	Not specified	0.00008

Benchmark Values for Di-n-butyltin in Surface Water (Fresh Water)

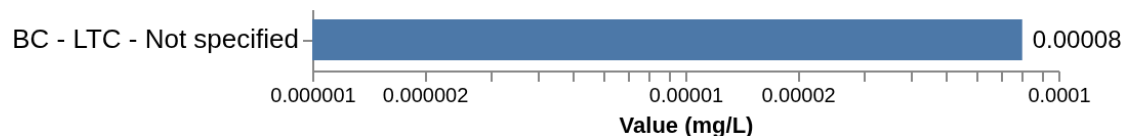


Table 355: Benchmark Values for Dinitroaniline, 3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
618-87-1	EPA Region 4	Chronic Freshwater	Not specified	0.07
618-87-1	EPA Region 4	Acute Freshwater	Not specified	0.21

Benchmark Values for Dinitroaniline, 3,5- in Surface Water (Fresh Water)

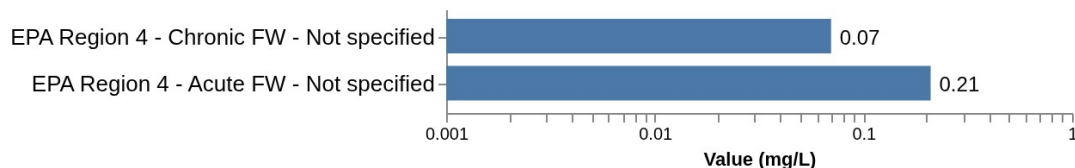


Table 356: Benchmark Values for Dinitrobenzene, 1,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-65-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.013	83
99-65-0	EPA Region 4	Chronic Freshwater	Not specified	0.022	
99-65-0	EPA Region 4	Acute Freshwater	Not specified	0.100	
99-65-0	EPA Region 6	Freshwater Chronic	Not specified	0.017	
99-65-0	EPA Region 6	Freshwater Acute	Not specified	0.215	

Benchmark Values for Dinitrobenzene, 1,3- in Surface Water (Fresh Water)

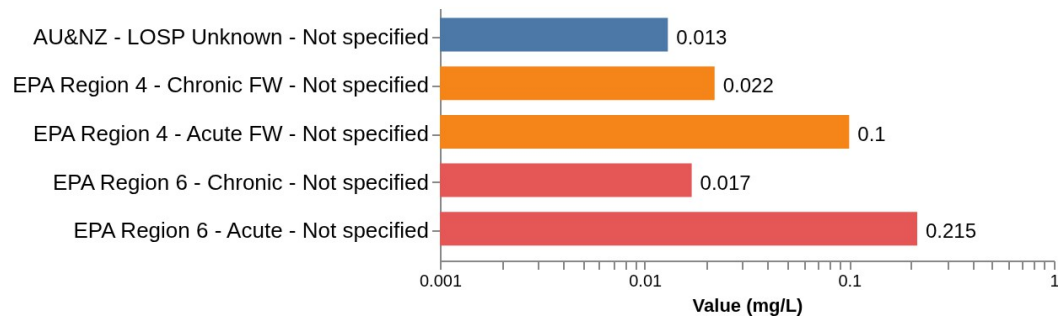


Table 357: Benchmark Values for Dinitrobenzene, 1,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-25-4	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0006	83

Benchmark Values for Dinitrobenzene, 1,4- in Surface Water (Fresh Water)

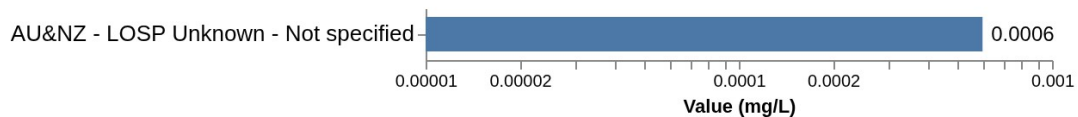


Table 358: Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
534-52-1	California	Freshwater other toxicity	Not specified	0.150
534-52-1	California	Freshwater acute toxicity	Not specified	0.230
534-52-1	EPA Region 6	Freshwater Chronic	Not specified	0.003
534-52-1	EPA Region 6	Freshwater Acute	Not specified	0.020

Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water (Fresh Water)

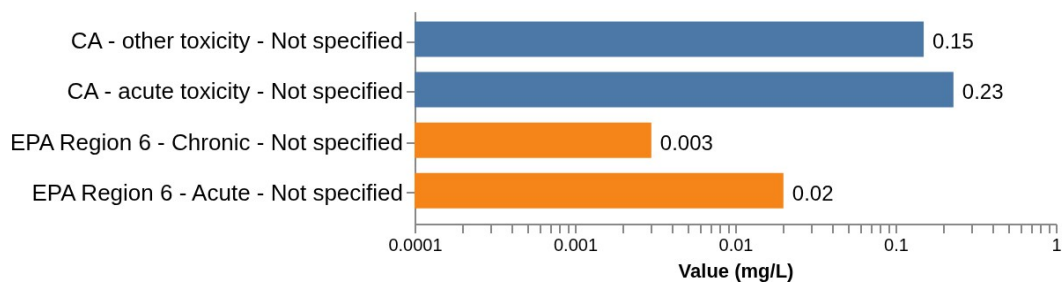


Table 359: Benchmark Values for Dinitrophenol, 2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
51-28-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.013	88
51-28-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.045	88, 89
51-28-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.080	88
51-28-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.140	88
51-28-5	California	Freshwater other toxicity	Not specified	0.150	
51-28-5	California	Freshwater acute toxicity	Not specified	0.230	
51-28-5	EPA Region 4	Chronic Freshwater	Not specified	0.071	
51-28-5	EPA Region 4	Acute Freshwater	Not specified	0.379	
51-28-5	EPA Region 6	Freshwater Chronic	Not specified	0.120	
51-28-5	EPA Region 6	Freshwater Acute	Not specified	0.350	
51-28-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	14.260	

Benchmark Values for Dinitrophenol, 2,4- in Surface Water (Fresh Water)

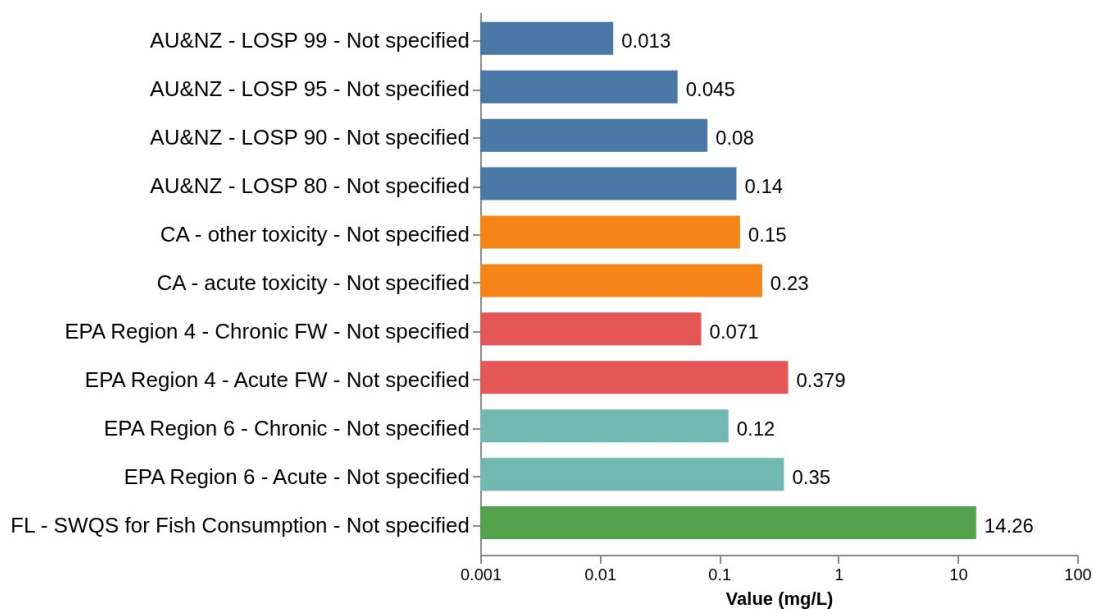
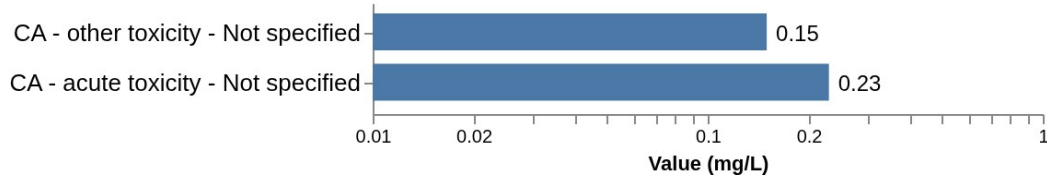
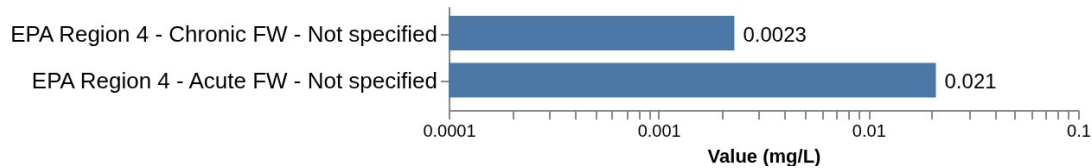


Table 360: Benchmark Values for Dinitrophenols in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25550-58-7	California	Freshwater other toxicity	Not specified	0.15
25550-58-7	California	Freshwater acute toxicity	Not specified	0.23

Benchmark Values for Dinitrophenols in Surface Water (Fresh Water)**Table 361: Benchmark Values for Dinitrotoluene, 2,3- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
602-01-7	EPA Region 4	Chronic Freshwater	Not specified	0.0023
602-01-7	EPA Region 4	Acute Freshwater	Not specified	0.0210

Benchmark Values for Dinitrotoluene, 2,3- in Surface Water (Fresh Water)**Table 362: Benchmark Values for Dinitrotoluene, 2,4- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-14-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0160	88, 89
121-14-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0650	88, 90
121-14-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.1300	88, 94
121-14-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.2500	88, 94
121-14-2	California	Freshwater chronic toxicity	Not specified	0.2300	
121-14-2	California	Freshwater acute toxicity	Not specified	0.3300	
121-14-2	EPA Region 3	BTAG - Freshwater	Not specified	0.0440	
121-14-2	EPA Region 4	Chronic Freshwater	Not specified	0.0440	
121-14-2	EPA Region 4	Acute Freshwater	Not specified	0.3900	
121-14-2	EPA Region 6	Freshwater Chronic	Not specified	0.6700	
121-14-2	EPA Region 6	Freshwater Acute	Not specified	4.0000	
121-14-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0091	

Benchmark Values for Dinitrotoluene, 2,4- in Surface Water (Fresh Water)

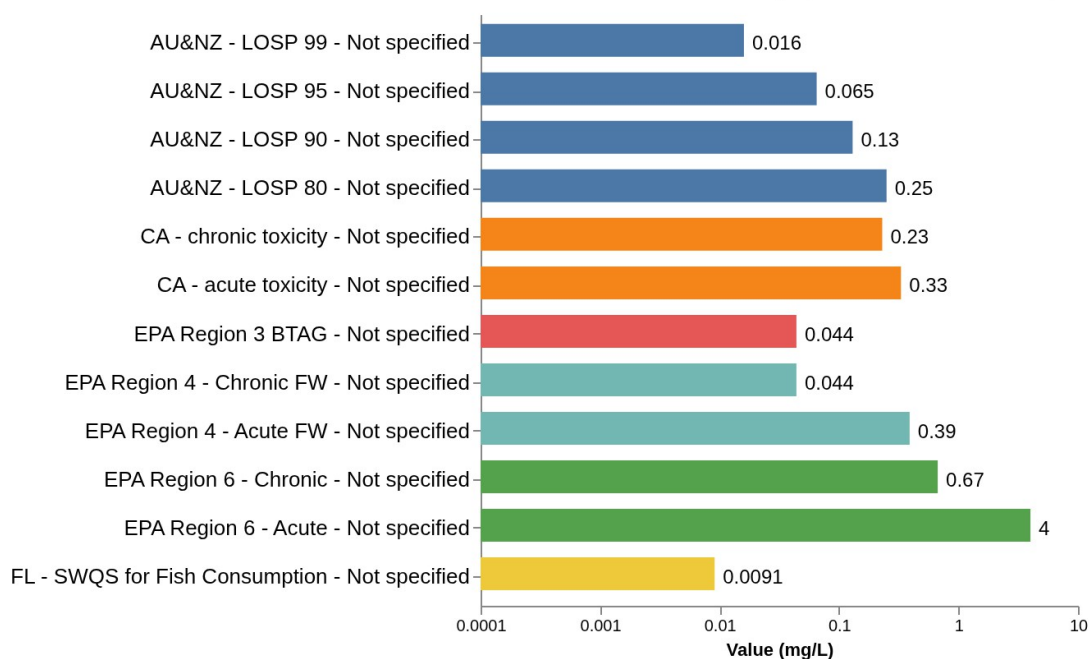


Table 363: Benchmark Values for Dinitrotoluene, 2,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
619-15-8	EPA Region 4	Chronic Freshwater	Not specified	0.0056
619-15-8	EPA Region 4	Acute Freshwater	Not specified	0.0500

Benchmark Values for Dinitrotoluene, 2,5- in Surface Water (Fresh Water)

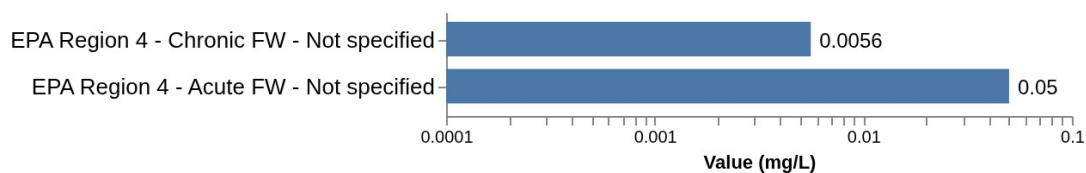


Table 364: Benchmark Values for Dinitrotoluene, 2,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
606-20-2	California	Freshwater chronic toxicity	Not specified	0.230
606-20-2	California	Freshwater acute toxicity	Not specified	0.330
606-20-2	EPA Region 3	BTAG – Freshwater	Not specified	0.081
606-20-2	EPA Region 4	Chronic Freshwater	Not specified	0.081
606-20-2	EPA Region 4	Acute Freshwater	Not specified	0.730

Benchmark Values for Dinitrotoluene, 2,6- in Surface Water (Fresh Water)

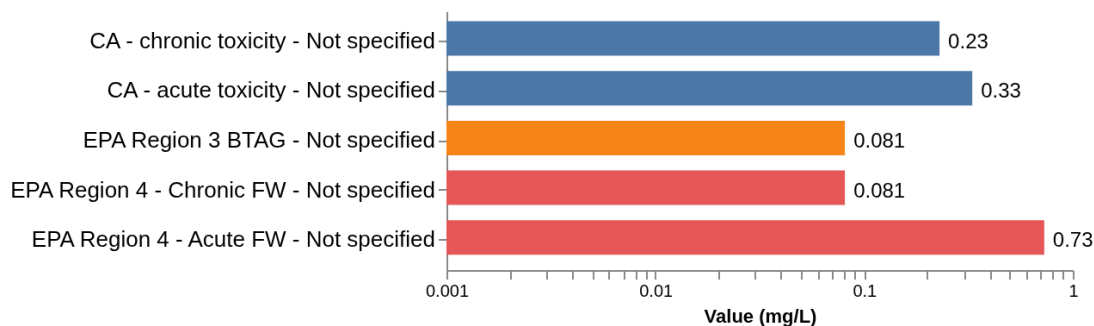


Table 365: Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
35572-78-2	EPA Region 3	BTAG – Freshwater	Not specified	1.480
35572-78-2	EPA Region 4	Chronic Freshwater	Not specified	0.018
35572-78-2	EPA Region 4	Acute Freshwater	Not specified	0.160
35572-78-2	EPA Region 6	Freshwater Chronic	Not specified	0.740
35572-78-2	EPA Region 6	Freshwater Acute	Not specified	4.440

Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water (Fresh Water)

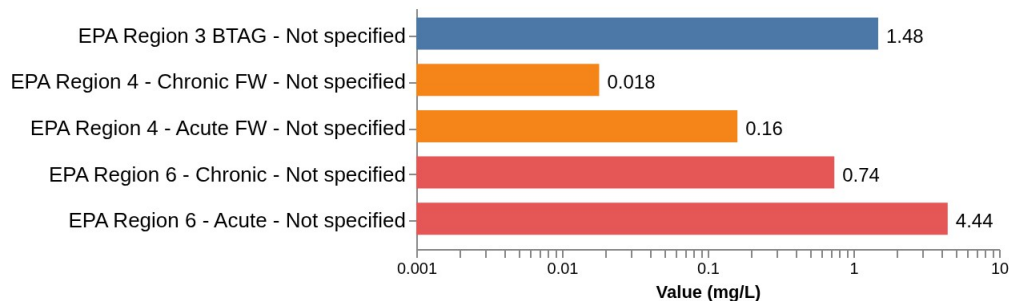


Table 366: Benchmark Values for Dinitrotoluene, 3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
618-85-9	EPA Region 4	Chronic Freshwater	Not specified	0.095
618-85-9	EPA Region 4	Acute Freshwater	Not specified	0.860

Benchmark Values for Dinitrotoluene, 3,5- in Surface Water (Fresh Water)

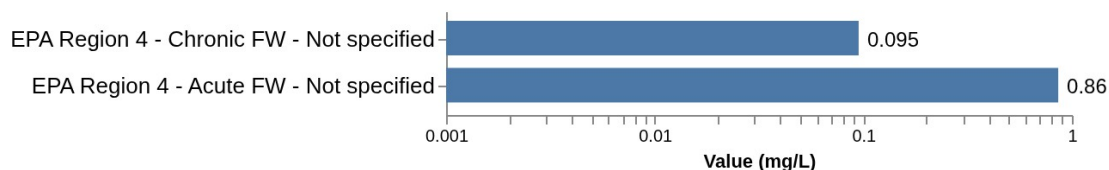


Table 367: Benchmark Values for Dinitrotoluene, 4-Amino-2,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
19406-51-0	EPA Region 4	Chronic Freshwater	Not specified	0.011
19406-51-0	EPA Region 4	Acute Freshwater	Not specified	0.098

Benchmark Values for Dinitrotoluene, 4-Amino-2,6- in Surface Water (Fresh Water)

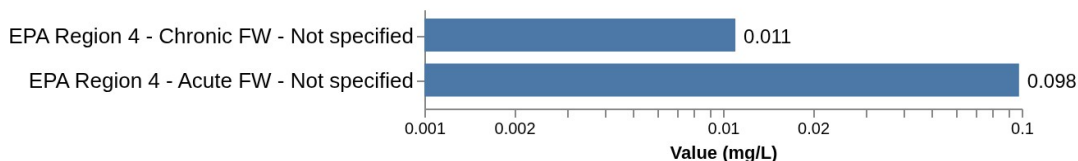


Table 368: Benchmark Values for Dinitrotoluene, Technical grade in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25321-14-6	California	Freshwater chronic toxicity	Not specified	0.23
25321-14-6	California	Freshwater acute toxicity	Not specified	0.33

Benchmark Values for Dinitrotoluene, Technical grade in Surface Water (Fresh Water)

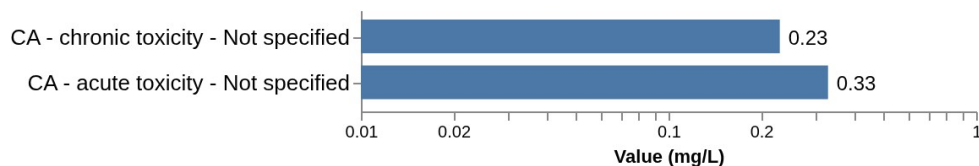


Table 369: Benchmark Values for Dinoseb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
88-85-7	Canada	Freshwater Long Term	Not specified	0.00005
88-85-7	EPA Region 3	BTAG – Freshwater	Not specified	0.00005
88-85-7	EPA Region 4	Chronic Freshwater	Not specified	0.00048
88-85-7	EPA Region 4	Acute Freshwater	Not specified	0.00480

Benchmark Values for Dinoseb in Surface Water (Fresh Water)

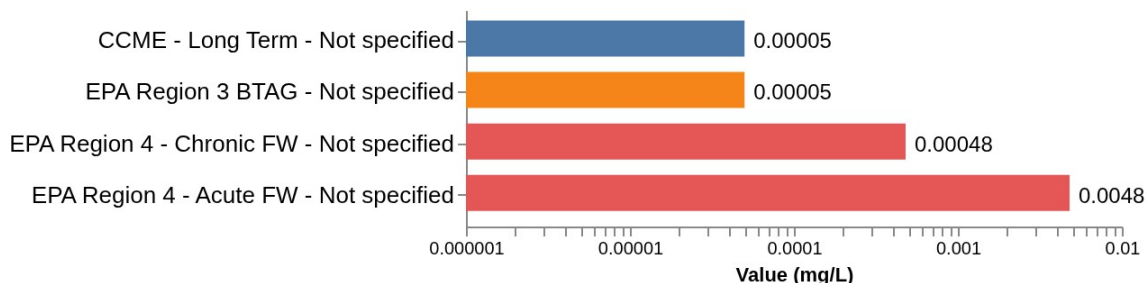


Table 370: Benchmark Values for Dinotefuran degradate dn phosphate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-6	OPP	Freshwater Invertebrates Acute	Not specified	55.3	22
000000-36-6	OPP	Freshwater Nonvascular Plant	Not specified	100.4	22

Benchmark Values for Dinotefuran degradate dn phosphate in Surface Water (Fresh Water)

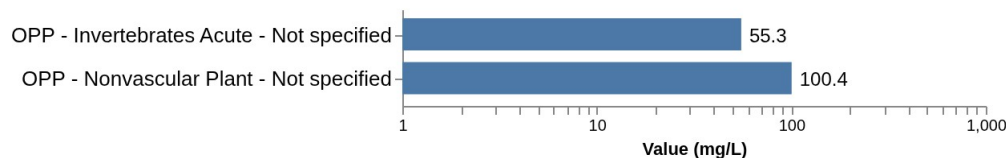


Table 371: Benchmark Values for Dinotefuran degradate MNG in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-7	OPP	Freshwater Nonvascular Plant	Not specified	98.7	22

Benchmark Values for Dinotefuran degradate MNG in Surface Water (Fresh Water)

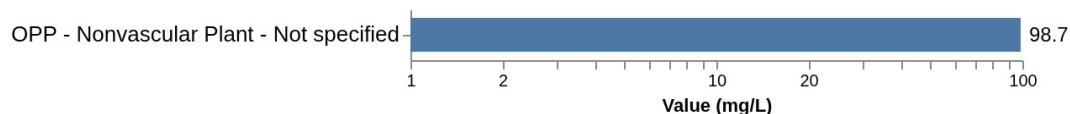


Table 372: Benchmark Values for Dinotefuran in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
165252-70-0	OPP	Freshwater Fish Chronic	Not specified	6.36	
165252-70-0	OPP	Freshwater Fish Acute	Not specified	49.55	22
165252-70-0	OPP	Freshwater Invertebrates Chronic	Not specified	95.30	22
165252-70-0	OPP	Freshwater Nonvascular Plant	Not specified	97.60	22
165252-70-0	OPP	Freshwater Vascular Plant	Not specified	110.00	22
165252-70-0	OPP	Freshwater Invertebrates Acute	Not specified	484.15	22

Benchmark Values for Dinotefuran in Surface Water (Fresh Water)

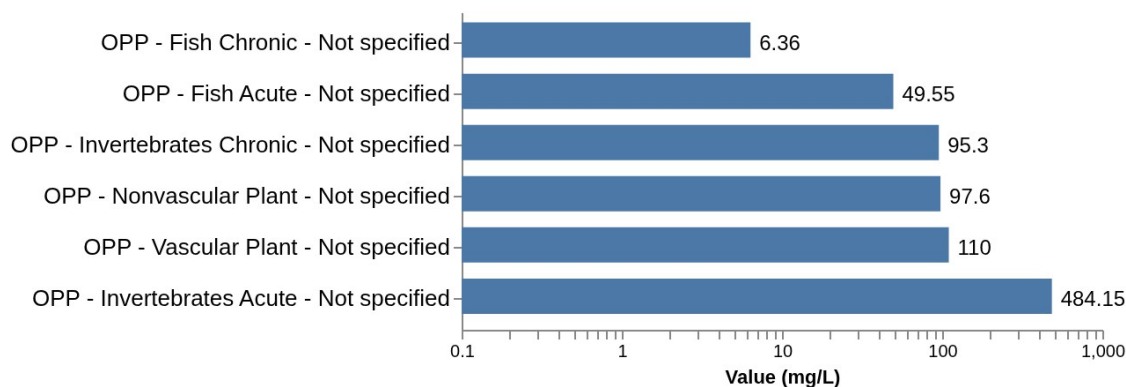


Table 373: Benchmark Values for Dioxane, 1,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
123-91-1	EPA Region 4	Chronic Freshwater	Not specified	22.0
123-91-1	EPA Region 4	Acute Freshwater	Not specified	200.0

Benchmark Values for Dioxane, 1,4- in Surface Water (Fresh Water)

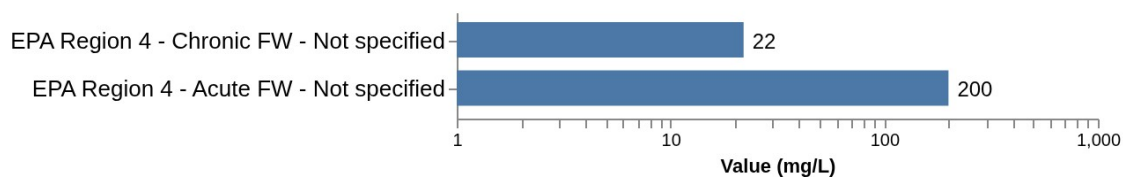


Table 374: Benchmark Values for Diphenylhydrazine, 1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
122-66-7	California	Freshwater acute toxicity	Not specified	0.2700
122-66-7	EPA Region 4	Chronic Freshwater	Not specified	0.0011
122-66-7	EPA Region 4	Acute Freshwater	Not specified	0.0100
122-66-7	EPA Region 6	Freshwater Chronic	Not specified	0.0120
122-66-7	EPA Region 6	Freshwater Acute	Not specified	0.0690

Benchmark Values for Diphenylhydrazine, 1,2- in Surface Water (Fresh Water)

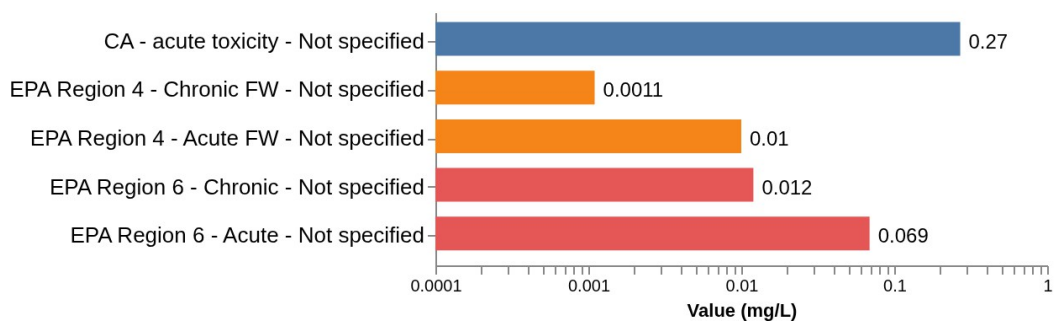


Table 375: Benchmark Values for Dipropyl isocinchomeronate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
136-45-8	OPP	Freshwater Fish Acute	Not specified	0.22
136-45-8	OPP	Freshwater Invertebrates Acute	Not specified	9.00

Benchmark Values for Dipropyl isocinchomeronate in Surface Water (Fresh Water)

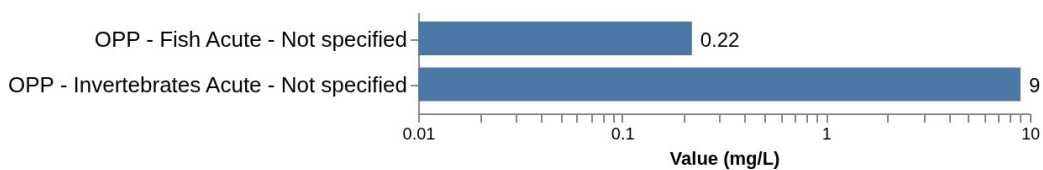


Table 376: Benchmark Values for Diquat dibromide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
85-00-7	California	Freshwater instantaneous max	Not specified	0.00050	
85-00-7	OPP	Freshwater Vascular Plant	Not specified	0.00075	
85-00-7	OPP	Freshwater Nonvascular Plant	Not specified	0.00940	
85-00-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.03600	23
85-00-7	OPP	Freshwater Fish Chronic	Not specified	0.12200	
85-00-7	OPP	Freshwater Invertebrates Acute	Not specified	0.38500	
85-00-7	OPP	Freshwater Fish Acute	Not specified	7.40000	

Benchmark Values for Diquat dibromide in Surface Water (Fresh Water)

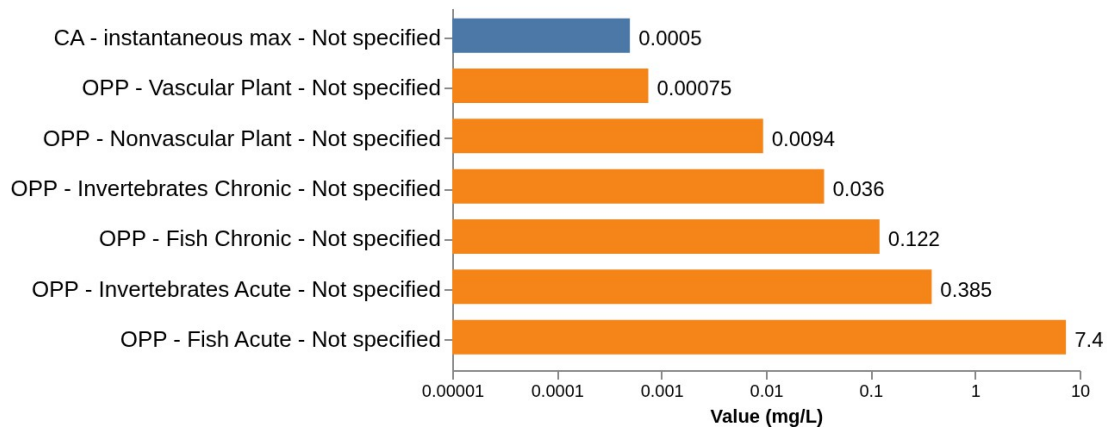


Table 377: Benchmark Values for Diquat in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2764-72-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00001	87
2764-72-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00140	87, 89
2764-72-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.01000	87
2764-72-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.08000	87, 92
2764-72-9	EPA Region 4	Chronic Freshwater	Not specified	0.00600	
2764-72-9	EPA Region 4	Acute Freshwater	Not specified	0.05400	

Benchmark Values for Diquat in Surface Water (Fresh Water)

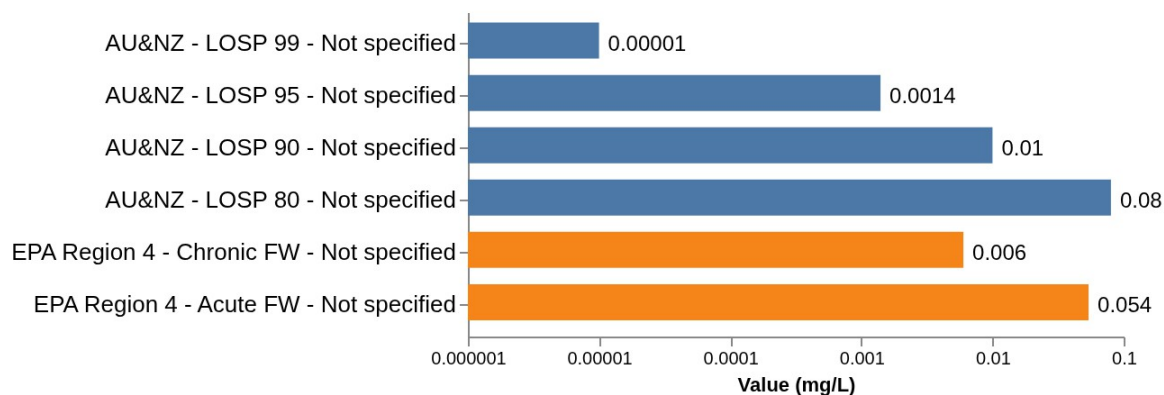
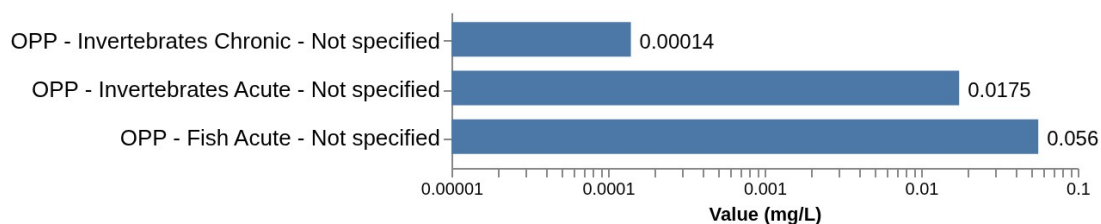


Table 378: Benchmark Values for Disulfoton sulfone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2497-06-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00014
2497-06-5	OPP	Freshwater Invertebrates Acute	Not specified	0.01750
2497-06-5	OPP	Freshwater Fish Acute	Not specified	0.05600

Benchmark Values for Disulfoton sulfone in Surface Water (Fresh Water)**Table 379: Benchmark Values for Disulfoton sulfoxide in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
2497-07-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0015
2497-07-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0320
2497-07-6	OPP	Freshwater Fish Acute	Not specified	0.0940

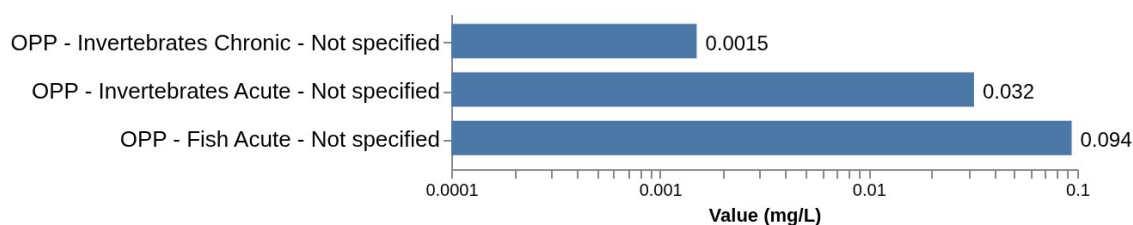
Benchmark Values for Disulfoton sulfoxide in Surface Water (Fresh Water)

Table 380: Benchmark Values for Disulfoton in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
298-04-4	California	Freshwater instantaneous max	Not specified	0.00005
298-04-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.00001
298-04-4	OPP	Freshwater Invertebrates Acute	Not specified	0.00195
298-04-4	OPP	Freshwater Fish Chronic	Not specified	0.00300
298-04-4	OPP	Freshwater Fish Acute	Not specified	0.01950

Benchmark Values for Disulfoton in Surface Water (Fresh Water)

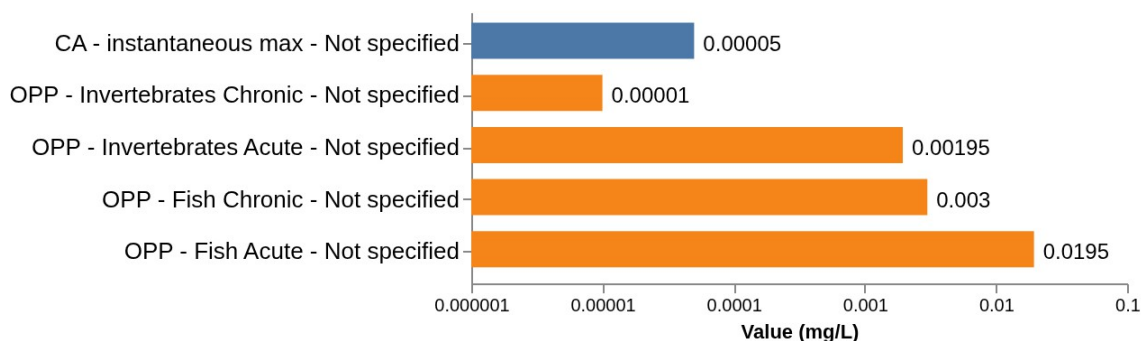


Table 381: Benchmark Values for Dithiopyr in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
97886-45-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00083	
97886-45-8	OPP	Freshwater Nonvascular Plant	Not specified	0.02000	
97886-45-8	OPP	Freshwater Fish Chronic	Not specified	0.05600	
97886-45-8	OPP	Freshwater Fish Acute	Not specified	0.23500	
97886-45-8	OPP	Freshwater Invertebrates Acute	Not specified	0.85000	22

Benchmark Values for Dithiopyr in Surface Water (Fresh Water)

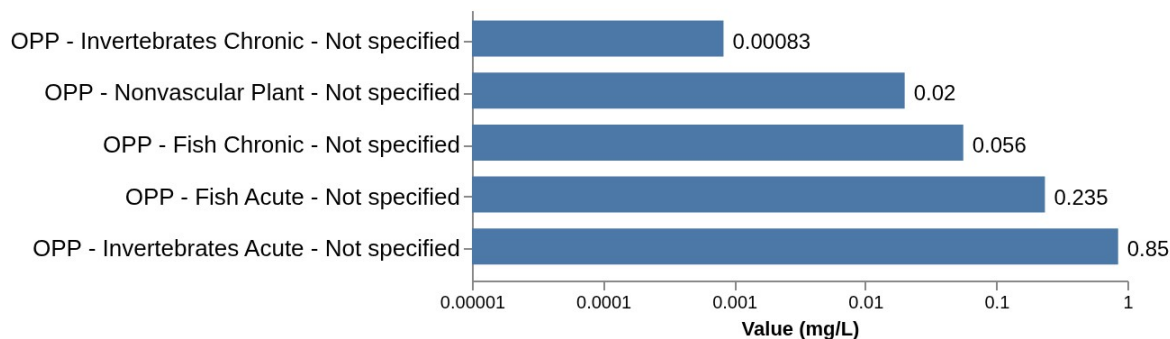


Table 382: Benchmark Values for Diuron degradate DCPMU in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-20-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0071

Benchmark Values for Diuron degradate DCPMU in Surface Water (Fresh Water)

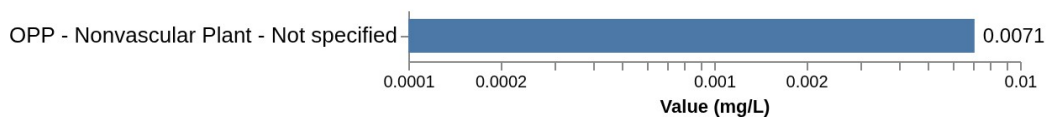


Table 383: Benchmark Values for Diuron degradate mCPDMU in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-30-0	OPP	Freshwater Nonvascular Plant	Not specified	0.107

Benchmark Values for Diuron degradate mCPDMU in Surface Water (Fresh Water)

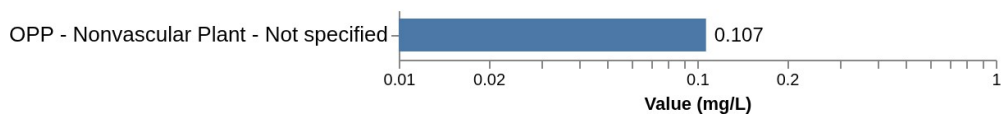


Table 384: Benchmark Values for Diuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
330-54-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.00020	83, 95
330-54-1	EPA Region 6	Freshwater Chronic	Not specified	0.07000	
330-54-1	EPA Region 6	Freshwater Acute	Not specified	0.21000	
330-54-1	OPP	Freshwater Vascular Plant	Not specified	0.00013	
330-54-1	OPP	Freshwater Nonvascular Plant	Not specified	0.00308	
330-54-1	OPP	Freshwater Fish Chronic	Not specified	0.02640	
330-54-1	OPP	Freshwater Invertebrates Acute	Not specified	0.08750	
330-54-1	OPP	Freshwater Fish Acute	Not specified	0.66000	

Benchmark Values for Diuron in Surface Water (Fresh Water)

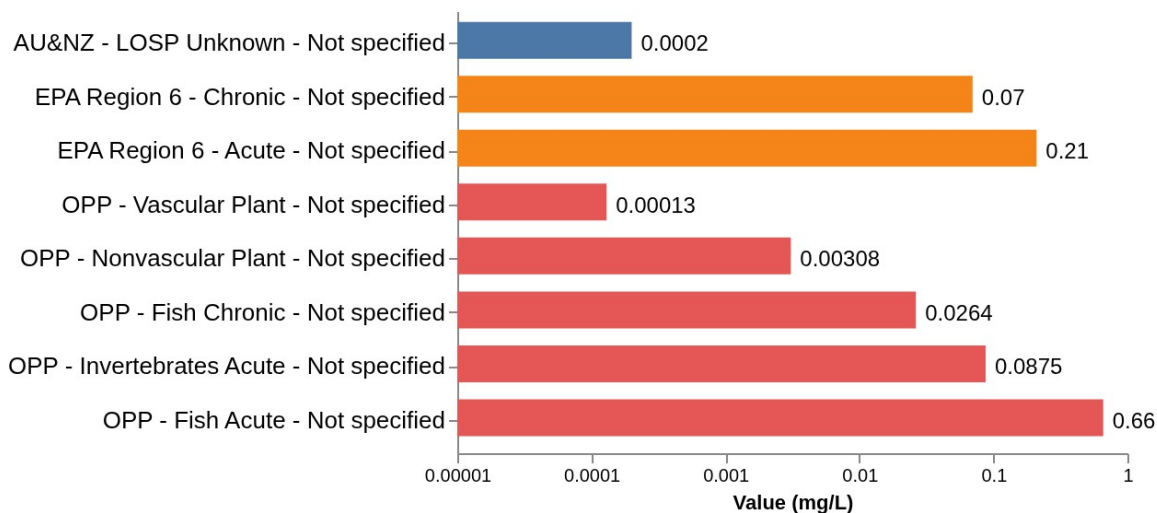


Table 385: Benchmark Values for Dodine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2439-10-3	OPP	Freshwater Nonvascular Plant	Not specified	0.00095
2439-10-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.00730
2439-10-3	OPP	Freshwater Invertebrates Acute	Not specified	0.00890
2439-10-3	OPP	Freshwater Fish Chronic	Not specified	0.09900
2439-10-3	OPP	Freshwater Fish Acute	Not specified	0.28500

Benchmark Values for Dodine in Surface Water (Fresh Water)

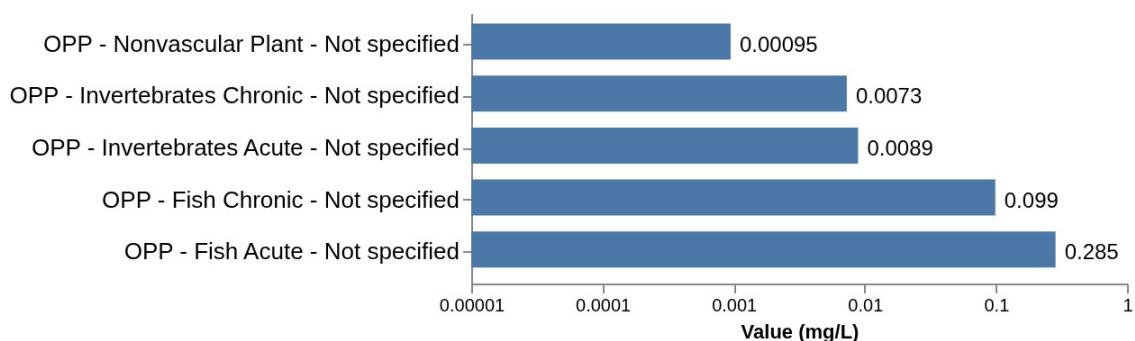


Table 386: Benchmark Values for DSMA in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
144-21-8	OPP	Freshwater Nonvascular Plant	Not specified	1.5	
144-21-8	OPP	Freshwater Fish Acute	Not specified	56.0	22
144-21-8	OPP	Freshwater Vascular Plant	Not specified	72.7	
144-21-8	OPP	Freshwater Invertebrates Acute	Not specified	76.5	

Benchmark Values for DSMA in Surface Water (Fresh Water)

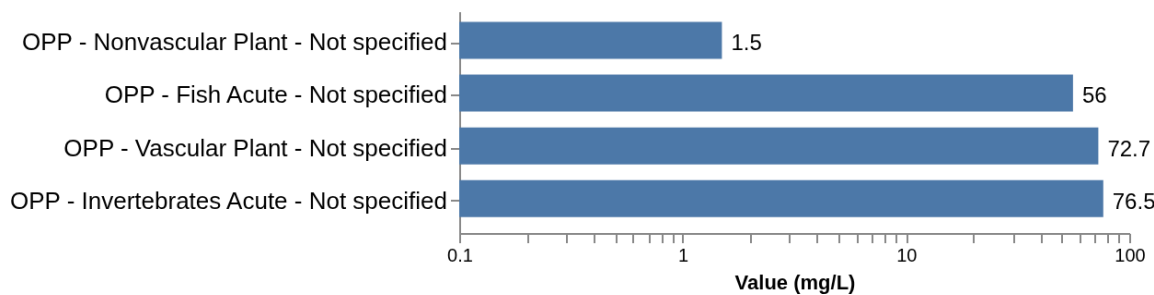


Table 387: Benchmark Values for Dyes and acids in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-19-9	OPP	Freshwater Fish Acute	Not specified	48.0	22
000000-19-9	OPP	Freshwater Invertebrates Acute	Not specified	48.5	22
000000-19-9	OPP	Freshwater Fish Chronic	Not specified	96.0	22

Benchmark Values for Dyes and acids in Surface Water (Fresh Water)

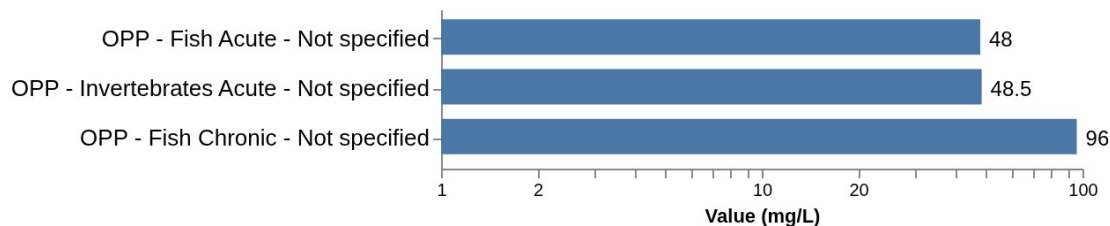


Table 388: Benchmark Values for Endosulfan I in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
959-98-8	California	Freshwater CCC, 4-day average	Not specified	0.000056	217
959-98-8	California	Freshwater instantaneous maximum	Not specified	0.000220	217
959-98-8	California	Freshwater instantaneous max	Not specified	0.000220	
959-98-8	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000056	
959-98-8	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000220	
959-98-8	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000051	
959-98-8	EPA Region 3	BTAG – Freshwater	Not specified	0.000051	
959-98-8	EPA Region 6	Freshwater Chronic	Not specified	0.000056	
959-98-8	EPA Region 6	Freshwater Acute	Not specified	0.000220	
959-98-8	New Jersey	Freshwater Chronic	Not specified	0.000056	
959-98-8	New Jersey	Freshwater Acute	Not specified	0.000220	

Benchmark Values for Endosulfan I in Surface Water (Fresh Water)

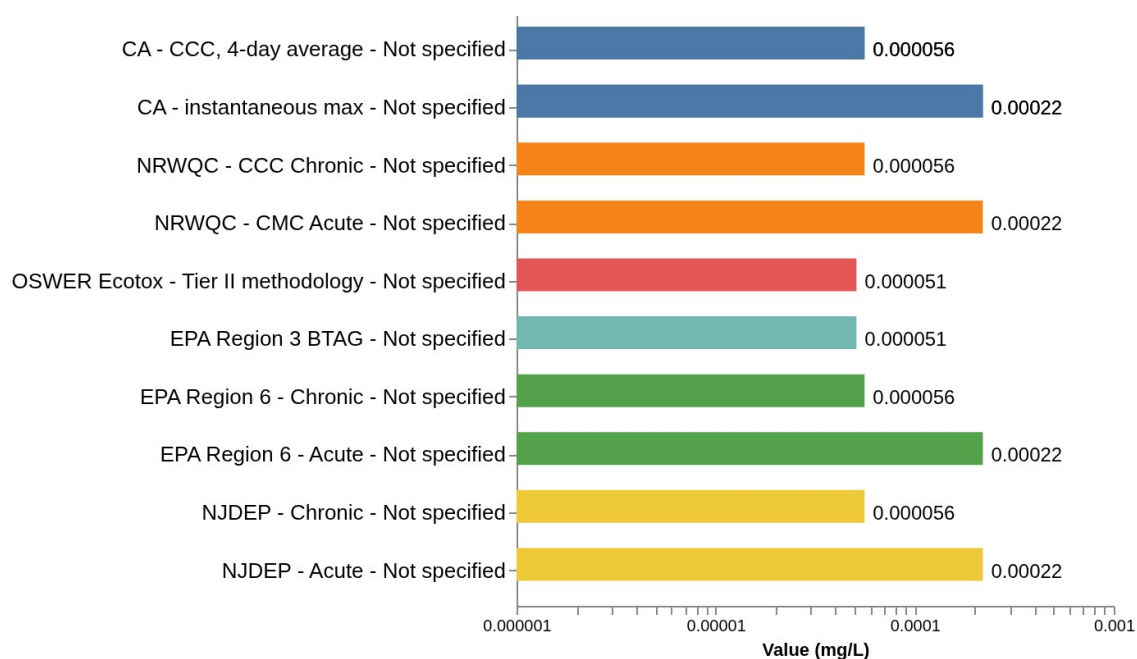


Table 389: Benchmark Values for Endosulfan II in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
33213-65-9	California	Freshwater CCC, 4-day average	Not specified	0.000056	
33213-65-9	California	Freshwater instantaneous max	Not specified	0.000220	
33213-65-9	California	Freshwater instantaneous maximum	Not specified	0.000220	217
33213-65-9	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000056	
33213-65-9	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000220	
33213-65-9	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000051	
33213-65-9	EPA Region 3	BTAG – Freshwater	Not specified	0.000051	
33213-65-9	EPA Region 6	Freshwater Chronic	Not specified	0.000056	
33213-65-9	EPA Region 6	Freshwater Acute	Not specified	0.000220	
33213-65-9	New Jersey	Freshwater Chronic	Not specified	0.000056	
33213-65-9	New Jersey	Freshwater Acute	Not specified	0.000220	

Benchmark Values for Endosulfan II in Surface Water (Fresh Water)

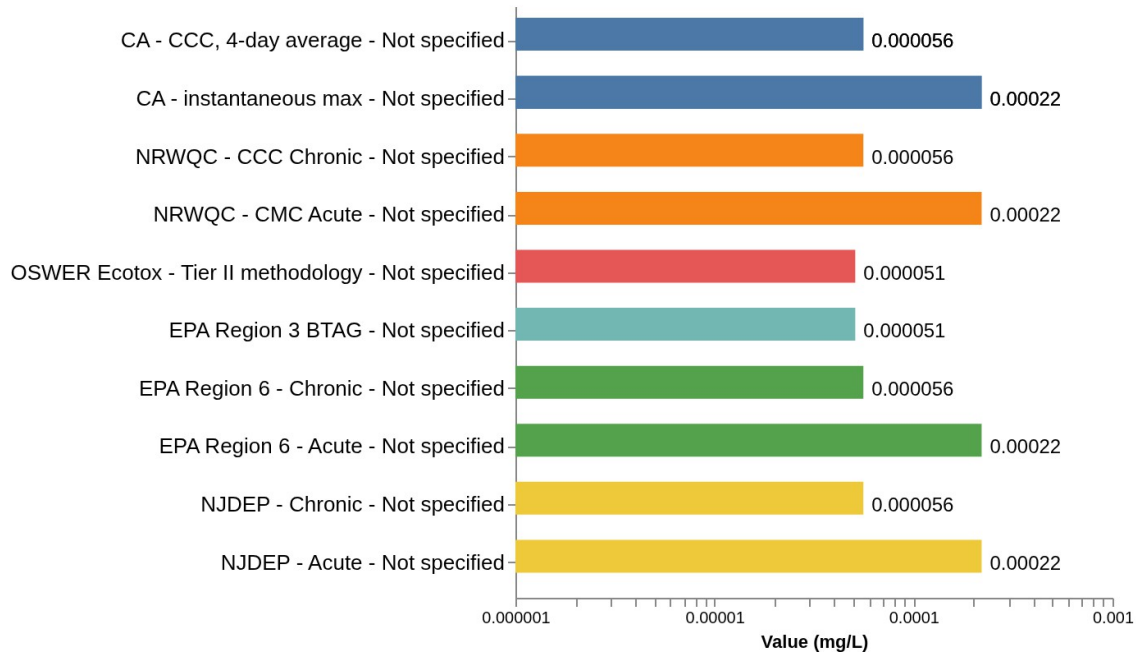


Table 390: Benchmark Values for Endosulfan Sulfate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1031-07-8	California	Freshwater 24-hour average	Not specified	0.000056
1031-07-8	EPA Region 4	Chronic Freshwater	Not specified	0.000060
1031-07-8	EPA Region 4	Acute Freshwater	Not specified	0.001900
1031-07-8	EPA Region 6	Freshwater Chronic	Not specified	0.000056
1031-07-8	EPA Region 6	Freshwater Acute	Not specified	0.000220
1031-07-8	OPP	Freshwater Fish Acute	Not specified	0.001900
1031-07-8	OPP	Freshwater Invertebrates Acute	Not specified	0.150000

Benchmark Values for Endosulfan Sulfate in Surface Water (Fresh Water)

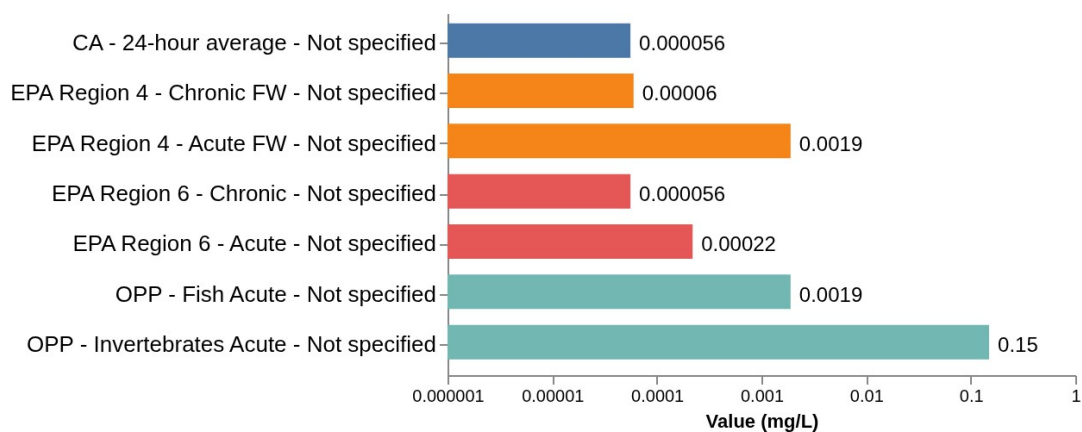


Table 391: Benchmark Values for Endosulfan in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
115-29-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000030	88, 89, 97
115-29-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000200	88, 92, 97
115-29-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000600	88, 92, 97
115-29-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.001800	88, 92, 97
115-29-7	Canada	Freshwater Long Term	Not specified	0.000003	
115-29-7	Canada	Freshwater Short Term	Not specified	0.000060	
115-29-7	Delaware	Freshwater Chronic Criterion	Not specified	0.000056	
115-29-7	Delaware	Freshwater Acute Criterion	Not specified	0.000220	
115-29-7	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000056	
115-29-7	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000220	
115-29-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000051	
115-29-7	EPA Region 3	BTAG – Freshwater	Not specified	0.000020	
115-29-7	EPA Region 4	Chronic Freshwater	Not specified	0.000060	
115-29-7	EPA Region 4	Acute Freshwater	Not specified	0.000220	
115-29-7	EPA Region 6	Freshwater Chronic	Not specified	0.000051	
115-29-7	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000056	
115-29-7	New Jersey	Freshwater Chronic	Not specified	0.000056	
115-29-7	New Jersey	Freshwater Acute	Not specified	0.000220	
115-29-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.000010	
115-29-7	OPP	Freshwater Fish Chronic	Not specified	0.000023	
115-29-7	OPP	Freshwater Fish Acute	Not specified	0.000050	
115-29-7	OPP	Freshwater Chronic	Not specified	0.000056	
115-29-7	OPP	Freshwater Acute	Not specified	0.000220	
115-29-7	OPP	Freshwater Invertebrates Acute	Not specified	0.000300	
115-29-7	OPP	Freshwater Nonvascular Plant	Not specified	0.428000	

Benchmark Values for Endosulfan in Surface Water (Fresh Water)

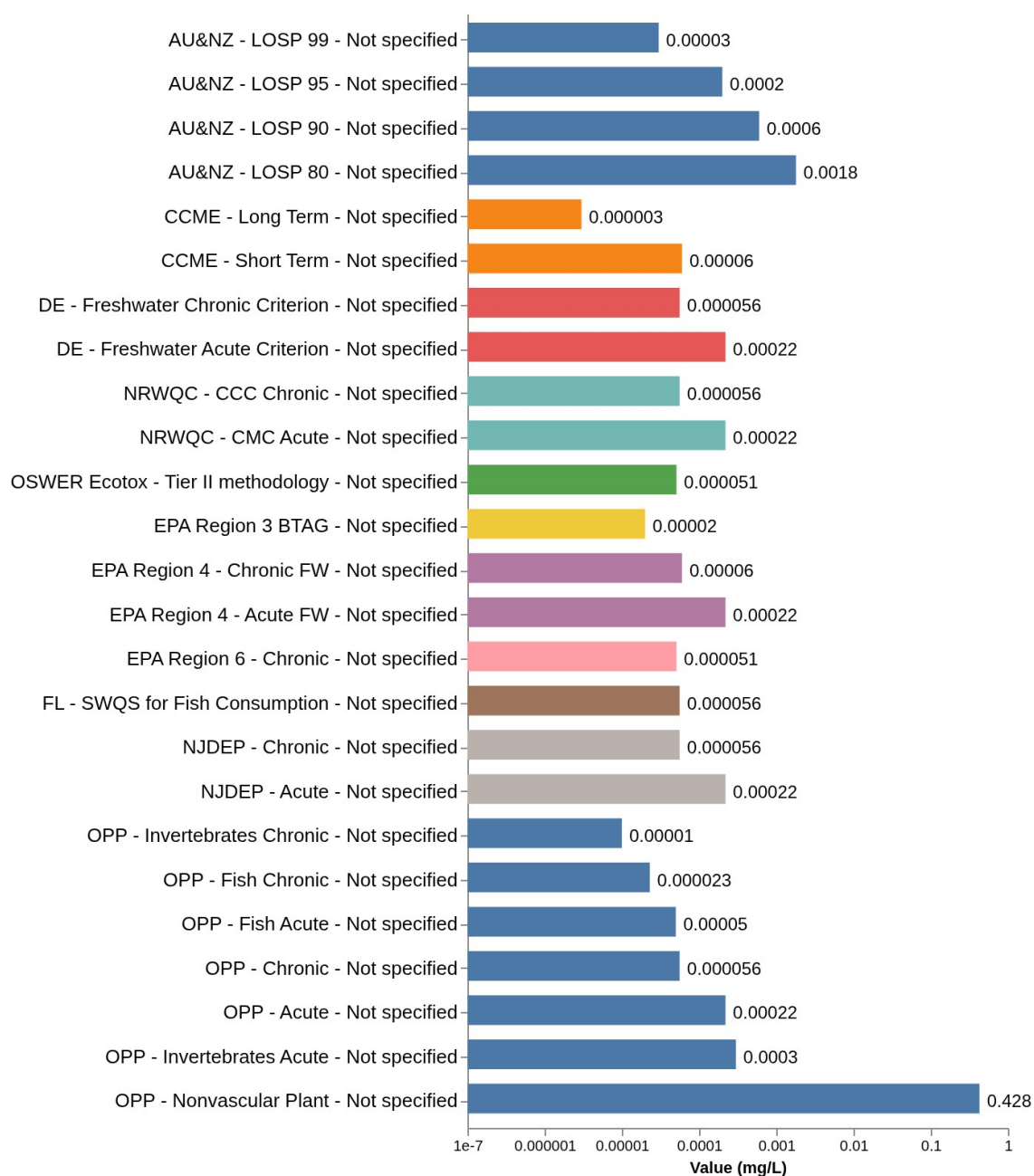
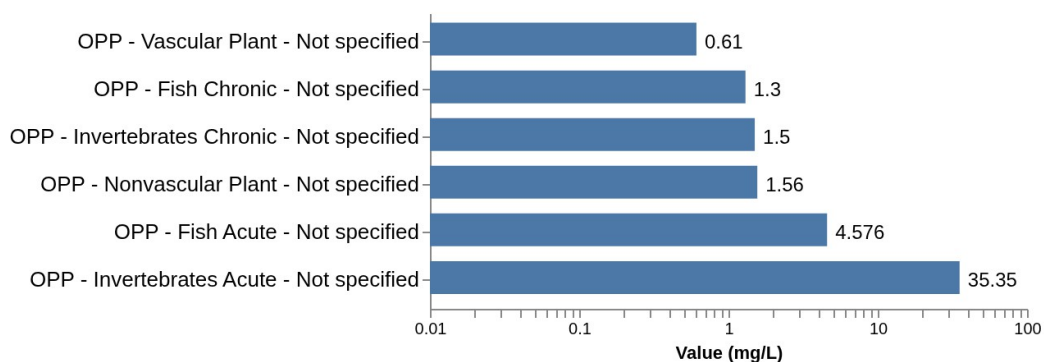


Table 392: Benchmark Values for Endothall (dipotassium salt) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2164-07-0	OPP	Freshwater Vascular Plant	Not specified	0.610
2164-07-0	OPP	Freshwater Fish Chronic	Not specified	1.300
2164-07-0	OPP	Freshwater Invertebrates Chronic	Not specified	1.500
2164-07-0	OPP	Freshwater Nonvascular Plant	Not specified	1.560
2164-07-0	OPP	Freshwater Fish Acute	Not specified	4.576
2164-07-0	OPP	Freshwater Invertebrates Acute	Not specified	35.350

Benchmark Values for Endothall (dipotassium salt) in Surface Water (Fresh Water)**Table 393: Benchmark Values for Endothall (mono N,N-dimethylalkylamine salt) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
66330-88-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0023
66330-88-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0072
66330-88-9	OPP	Freshwater Invertebrates Acute	Not specified	0.0420
66330-88-9	OPP	Freshwater Fish Chronic	Not specified	0.0460
66330-88-9	OPP	Freshwater Fish Acute	Not specified	0.0655
66330-88-9	OPP	Freshwater Vascular Plant	Not specified	0.7400

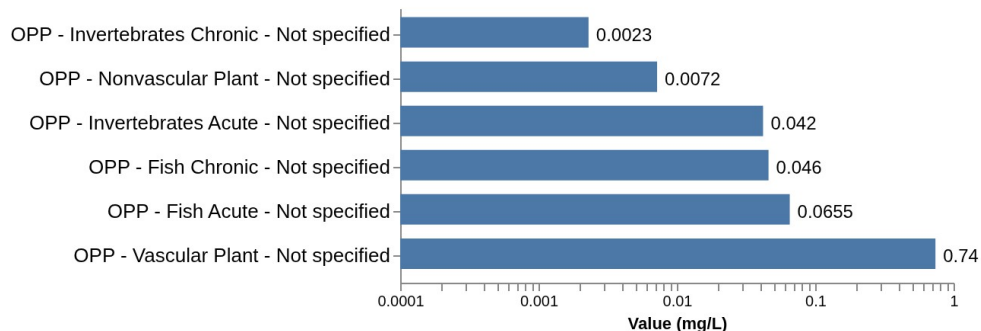
Benchmark Values for Endothall (mono N,N-dimethylalkylamine salt) in Surface Water (Fresh Water)

Table 394: Benchmark Values for Endothall in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
145-73-3	OPP	Freshwater Fish Chronic	Not specified	1.3
145-73-3	OPP	Freshwater Invertebrates Chronic	Not specified	1.5
145-73-3	OPP	Freshwater Fish Acute	Not specified	24.5
145-73-3	OPP	Freshwater Invertebrates Acute	Not specified	46.0

Benchmark Values for Endothall in Surface Water (Fresh Water)

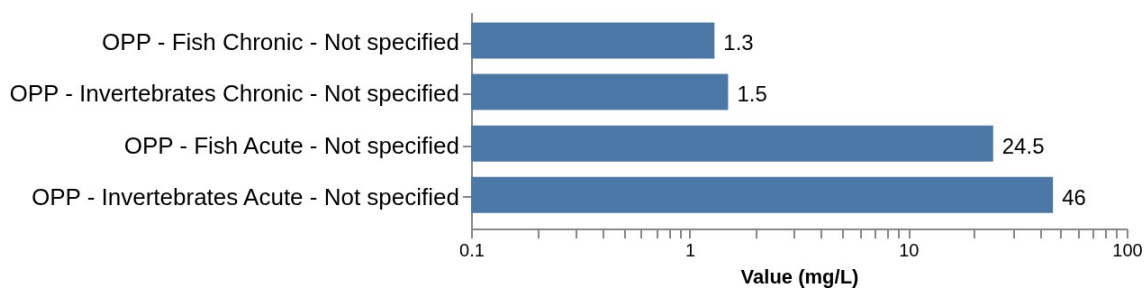


Table 395: Benchmark Values for Endrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-20-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000010	88, 89, 97
72-20-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000020	88, 97
72-20-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000040	88, 94, 97
72-20-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.000060	88, 92, 97
72-20-8	California	Freshwater CCC, 4-day average	Not specified	0.000036	
72-20-8	California	Freshwater CMC, 1-hour average	Not specified	0.000086	
72-20-8	California	Freshwater CMC, 1-hour average	Not specified	0.000086	
72-20-8	Delaware	Freshwater Chronic Criterion	Not specified	0.000036	
72-20-8	Delaware	Freshwater Acute Criterion	Not specified	0.000086	
72-20-8	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000036	
72-20-8	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000086	
72-20-8	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.000061	
72-20-8	EPA Region 3	BTAG – Freshwater	Not specified	0.000036	
72-20-8	EPA Region 4	Chronic Freshwater	Not specified	0.000040	7
72-20-8	EPA Region 4	Acute Freshwater	Not specified	0.000090	7
72-20-8	EPA Region 6	Freshwater Chronic	Not specified	0.000002	
72-20-8	EPA Region 6	Freshwater Acute	Not specified	0.000086	
72-20-8	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000002	
72-20-8	New Jersey	Freshwater Chronic	Not specified	0.000036	
72-20-8	New Jersey	Freshwater Acute	Not specified	0.000086	

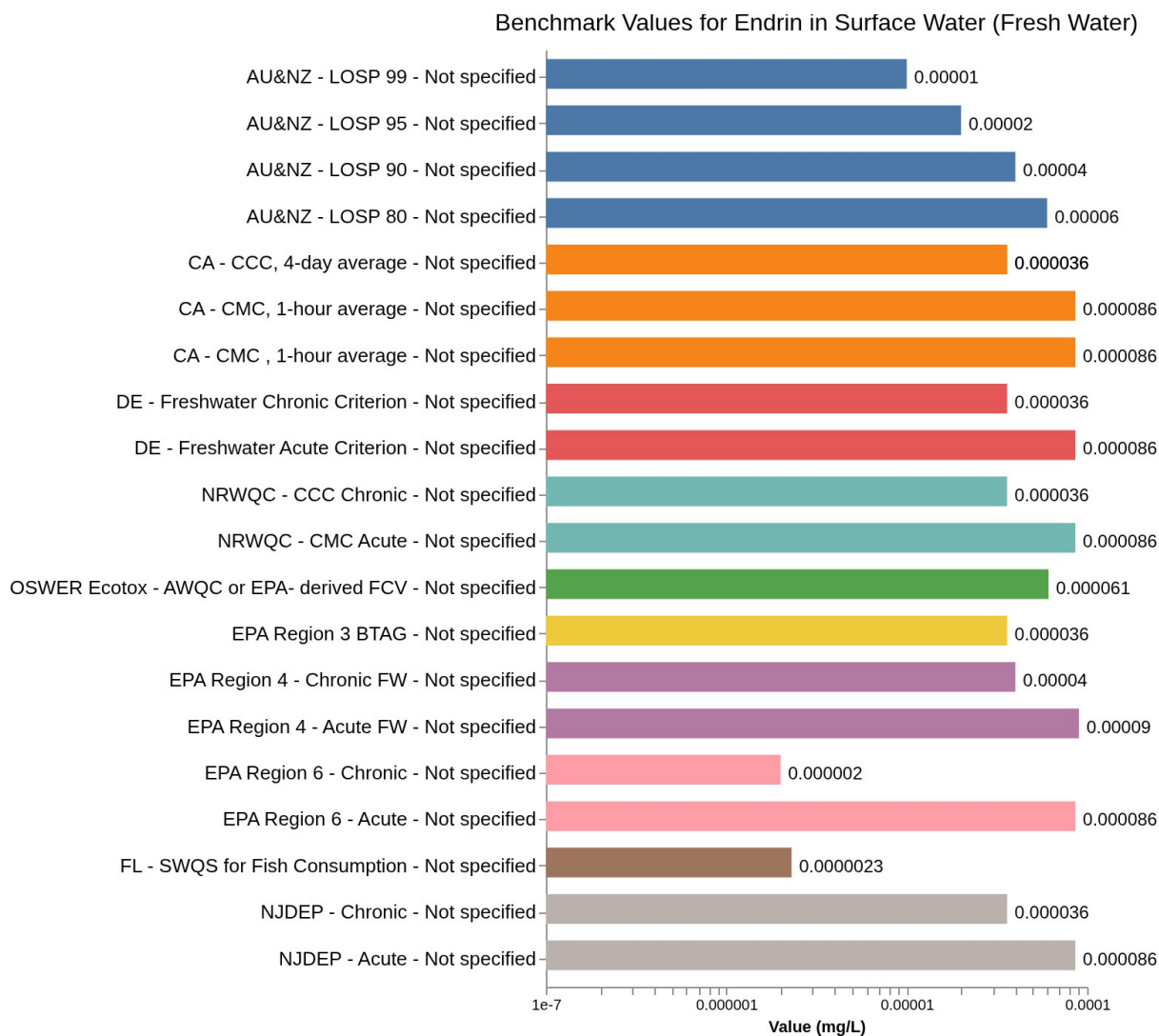


Table 396: Benchmark Values for Esbiothrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
260359-57-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00445

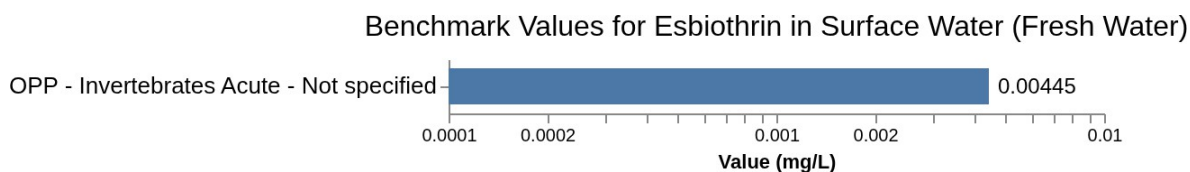


Table 397: Benchmark Values for Esfenvalerate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
66230-04-4	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	1.000000e-06	83, 96
66230-04-4	OPP	Freshwater Invertebrates Chronic	Not specified	3.090000e-08	
66230-04-4	OPP	Freshwater Invertebrates Acute	Not specified	4.240000e-07	
66230-04-4	OPP	Freshwater Fish Chronic	Not specified	1.700000e-05	
66230-04-4	OPP	Freshwater Fish Acute	Not specified	7.100000e-05	
66230-04-4	OPP	Freshwater Nonvascular Plant	Not specified	5.600000e-03	22
66230-04-4	OPP	Freshwater Vascular Plant	Not specified	8.600000e-03	22

Benchmark Values for Esfenvalerate in Surface Water (Fresh Water)

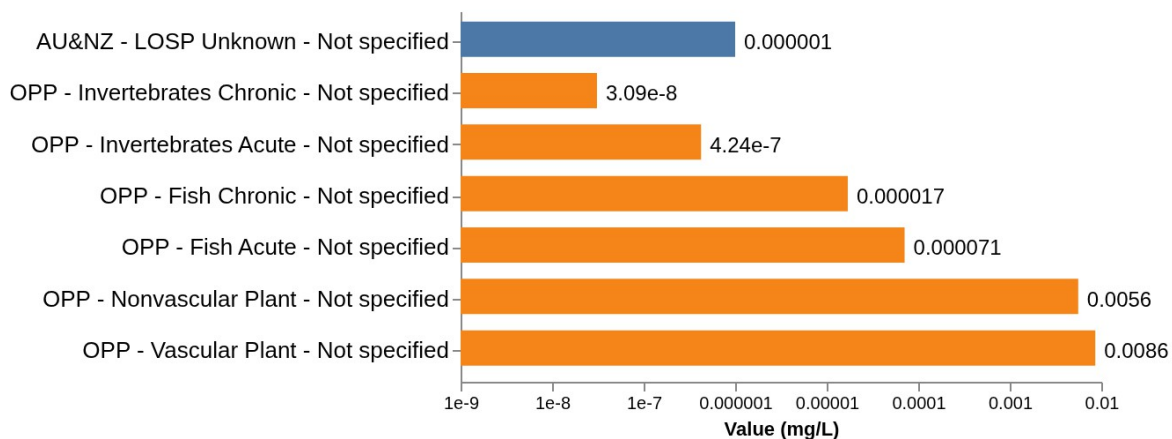


Table 398: Benchmark Values for Ethaboxam degradate "LGC-32523" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-8	OPP	Freshwater Invertebrates Acute	Not specified	55.0	22

Benchmark Values for Ethaboxam degradate "LGC-32523" in Surface Water (Fresh Water)

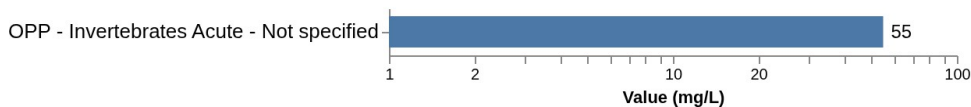


Table 399: Benchmark Values for Ethaboxam degradate "LGC-32533" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-36-9	OPP	Freshwater Invertebrates Acute	Not specified	15.0	22

Benchmark Values for Ethaboxam degradate "LGC-32533" in Surface Water (Fresh Water)

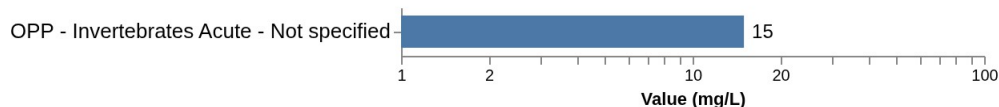


Table 400: Benchmark Values for Ethaboxam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
162650-77-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.050	
162650-77-3	OPP	Freshwater Invertebrates Acute	Not specified	0.185	
162650-77-3	OPP	Freshwater Fish Chronic	Not specified	0.880	
162650-77-3	OPP	Freshwater Fish Acute	Not specified	1.090	
162650-77-3	OPP	Freshwater Nonvascular Plant	Not specified	3.600	22
162650-77-3	OPP	Freshwater Vascular Plant	Not specified	13.000	22

Benchmark Values for Ethaboxam in Surface Water (Fresh Water)

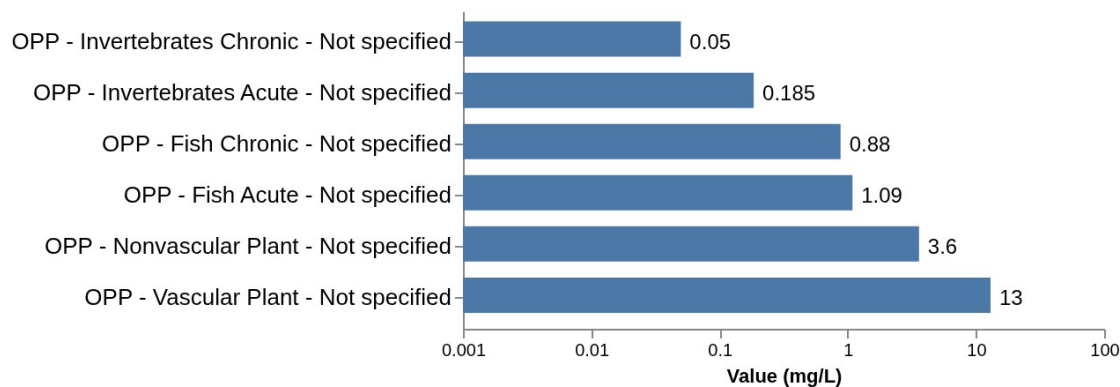


Table 401: Benchmark Values for Ethalfluralin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
55283-68-6	OPP	Freshwater Fish Chronic	Not specified	0.0004
55283-68-6	OPP	Freshwater Vascular Plant	Not specified	0.0073
55283-68-6	OPP	Freshwater Fish Acute	Not specified	0.0160
55283-68-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0240
55283-68-6	OPP	Freshwater Nonvascular Plant	Not specified	0.0250
55283-68-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0300

Benchmark Values for Ethalfluralin in Surface Water (Fresh Water)

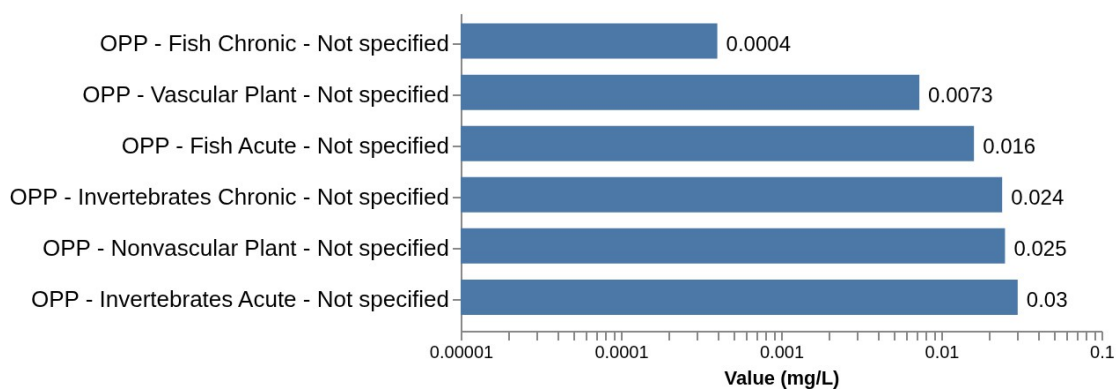


Table 402: Benchmark Values for Ethanol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
64-17-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.4	87
64-17-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.4	87, 89
64-17-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.4	87, 94
64-17-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	4.0	87, 94

Benchmark Values for Ethanol in Surface Water (Fresh Water)

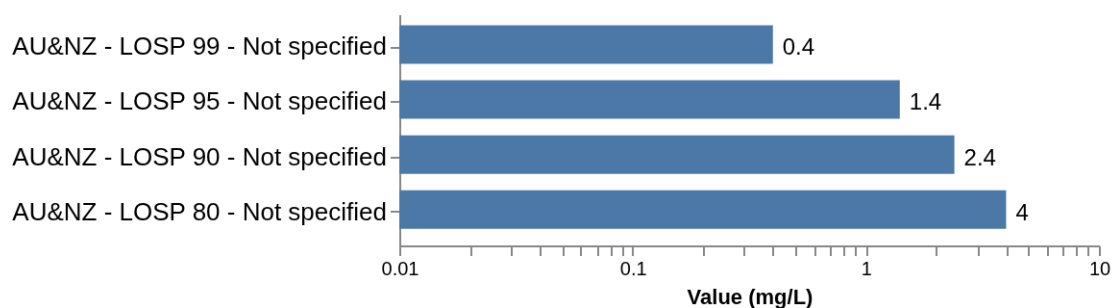


Table 403: Benchmark Values for Ethephon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
16672-87-0	OPP	Freshwater Vascular Plant	Not specified	2.50
16672-87-0	OPP	Freshwater Invertebrates Acute	Not specified	15.85
16672-87-0	OPP	Freshwater Invertebrates Chronic	Not specified	17.00
16672-87-0	OPP	Freshwater Nonvascular Plant	Not specified	23.50
16672-87-0	OPP	Freshwater Fish Chronic	Not specified	43.00
16672-87-0	OPP	Freshwater Fish Acute	Not specified	44.00

Benchmark Values for Ethephon in Surface Water (Fresh Water)

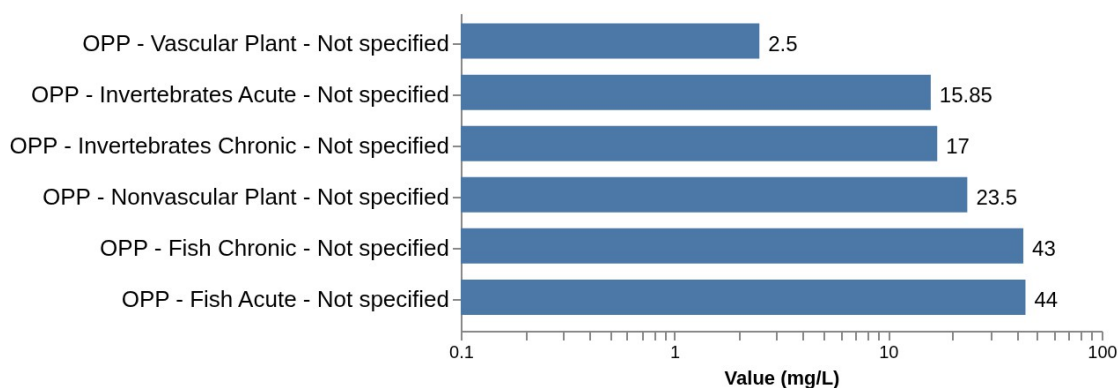


Table 404: Benchmark Values for Ethinylestradiol, 17a- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-63-6	British Columbia	Freshwater LTC	Not specified	5.000000e-07
57-63-6	British Columbia	Freshwater STA	Not specified	7.500000e-07

Benchmark Values for Ethinylestradiol, 17a- in Surface Water (Fresh Water)

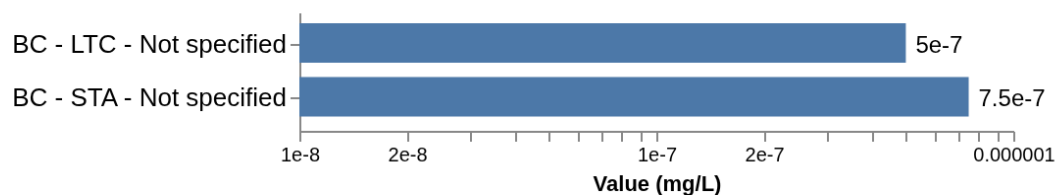


Table 405: Benchmark Values for Ethion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
563-12-2	California	Freshwater instantaneous max	Not specified	0.000020
563-12-2	OPP	Freshwater Invertebrates Acute	Not specified	0.000028
563-12-2	OPP	Freshwater Fish Acute	Not specified	0.036500

Benchmark Values for Ethion in Surface Water (Fresh Water)

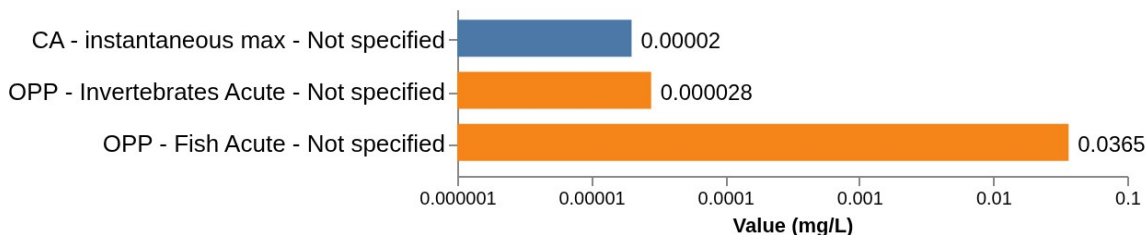


Table 406: Benchmark Values for Ethofumesate degradate CU88901 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-1	OPP	Freshwater Invertebrates Acute	Not specified	7.4	22

Benchmark Values for Ethofumesate degradate CU88901 in Surface Water (Fresh Water)

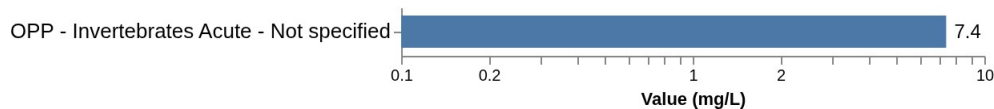


Table 407: Benchmark Values for Ethofumesate degradate ethofumesate acetic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-2	OPP	Freshwater Invertebrates Acute	Not specified	5.25	22

Benchmark Values for Ethofumesate degradate ethofumesate acetic acid in Surface Water (Fresh Water)

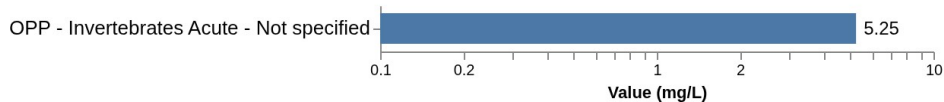


Table 408: Benchmark Values for Ethofumesate degrade NC8493 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-3	OPP	Freshwater Nonvascular Plant	Not specified	0.971	
000000-30-3	OPP	Freshwater Invertebrates Acute	Not specified	5.300	22

Benchmark Values for Ethofumesate degrade NC8493 in Surface Water (Fresh Water)

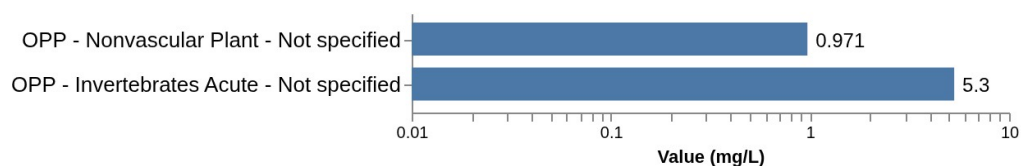


Table 409: Benchmark Values for Ethofumesate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
26225-79-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.300	
26225-79-6	OPP	Freshwater Fish Chronic	Not specified	0.306	23
26225-79-6	OPP	Freshwater Nonvascular Plant	Not specified	2.760	22
26225-79-6	OPP	Freshwater Fish Acute	Not specified	5.760	
26225-79-6	OPP	Freshwater Invertebrates Acute	Not specified	17.150	
26225-79-6	OPP	Freshwater Vascular Plant	Not specified	39.000	

Benchmark Values for Ethofumesate in Surface Water (Fresh Water)

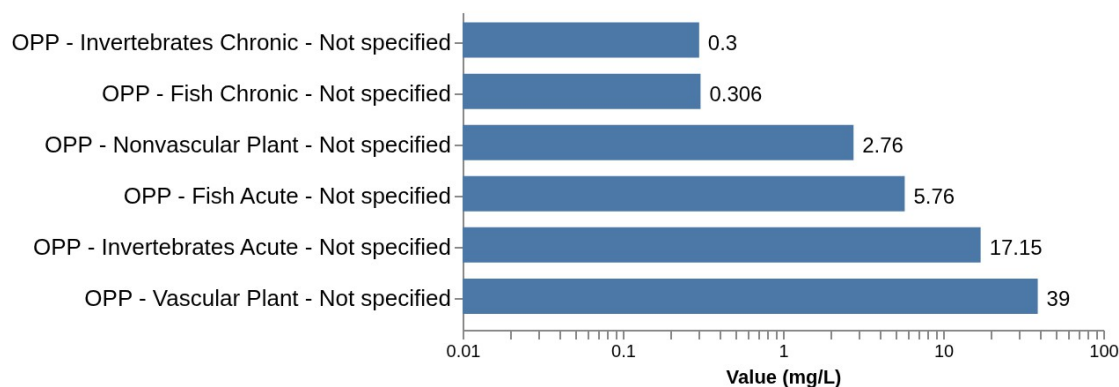


Table 410: Benchmark Values for Ethoprop in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
13194-48-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.0008
13194-48-4	OPP	Freshwater Invertebrates Acute	Not specified	0.0220
13194-48-4	OPP	Freshwater Fish Chronic	Not specified	0.0240
13194-48-4	OPP	Freshwater Fish Acute	Not specified	0.1500
13194-48-4	OPP	Freshwater Nonvascular Plant	Not specified	8.4000

Benchmark Values for Ethoprop in Surface Water (Fresh Water)

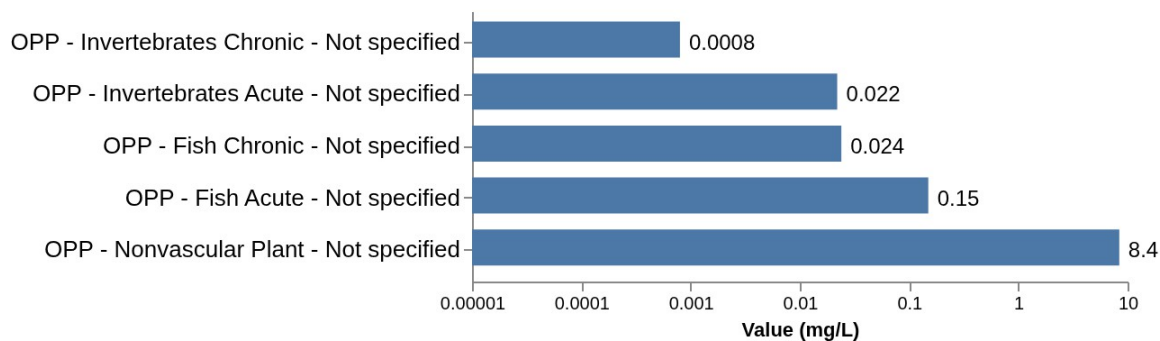


Table 411: Benchmark Values for Ethoxyquin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-53-2	OPP	Freshwater Invertebrates Acute	Not specified	1.0
91-53-2	OPP	Freshwater Fish Acute	Not specified	9.0

Benchmark Values for Ethoxyquin in Surface Water (Fresh Water)

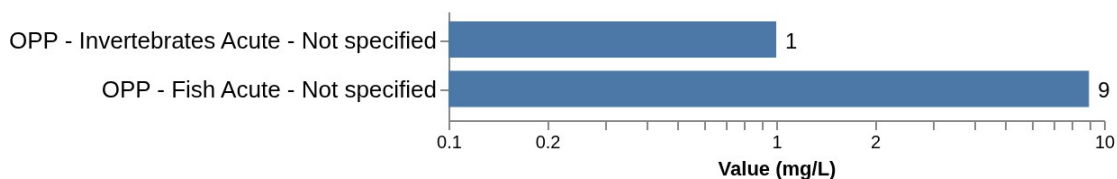
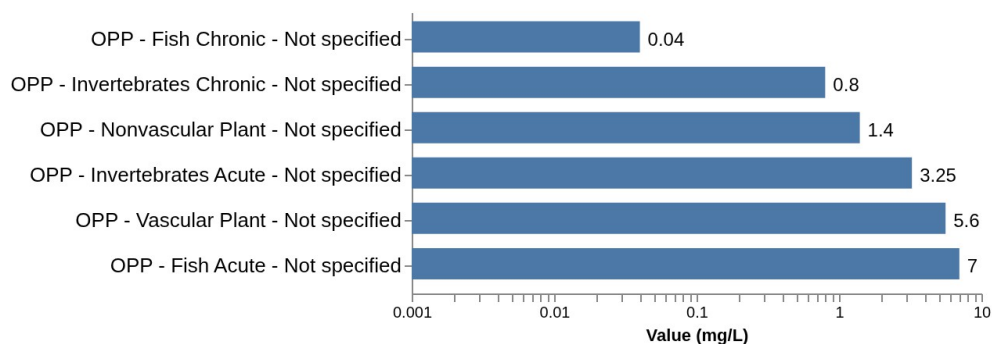


Table 412: Benchmark Values for Ethyl dipropylthiocarbamate, S- (EPTC) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
759-94-4	OPP	Freshwater Fish Chronic	Not specified	0.04
759-94-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.80
759-94-4	OPP	Freshwater Nonvascular Plant	Not specified	1.40
759-94-4	OPP	Freshwater Invertebrates Acute	Not specified	3.25
759-94-4	OPP	Freshwater Vascular Plant	Not specified	5.60
759-94-4	OPP	Freshwater Fish Acute	Not specified	7.00

Benchmark Values for Ethyl dipropylthiocarbamate, S- (EPTC) in Surface Water (Fresh Water)**Table 413: Benchmark Values for Ethylbenzene in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-41-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.050	83
100-41-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.080	83, 89
100-41-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.110	83
100-41-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.160	83
100-41-4	British Columbia	Freshwater LTC	Not specified	0.200	
100-41-4	California	Freshwater acute toxicity	Not specified	32.000	
100-41-4	Canada	Freshwater Long Term	Not specified	0.090	
100-41-4	EPA OSWER	Freshwater Tier II methodology	Not specified	0.290	
100-41-4	EPA Region 3	BTAG – Freshwater	Not specified	0.090	
100-41-4	EPA Region 4	Chronic Freshwater	Not specified	0.061	
100-41-4	EPA Region 4	Acute Freshwater	Not specified	0.550	
100-41-4	EPA Region 6	Freshwater Chronic	Not specified	1.000	
100-41-4	EPA Region 6	Freshwater Acute	Not specified	3.000	

Benchmark Values for Ethylbenzene in Surface Water (Fresh Water)

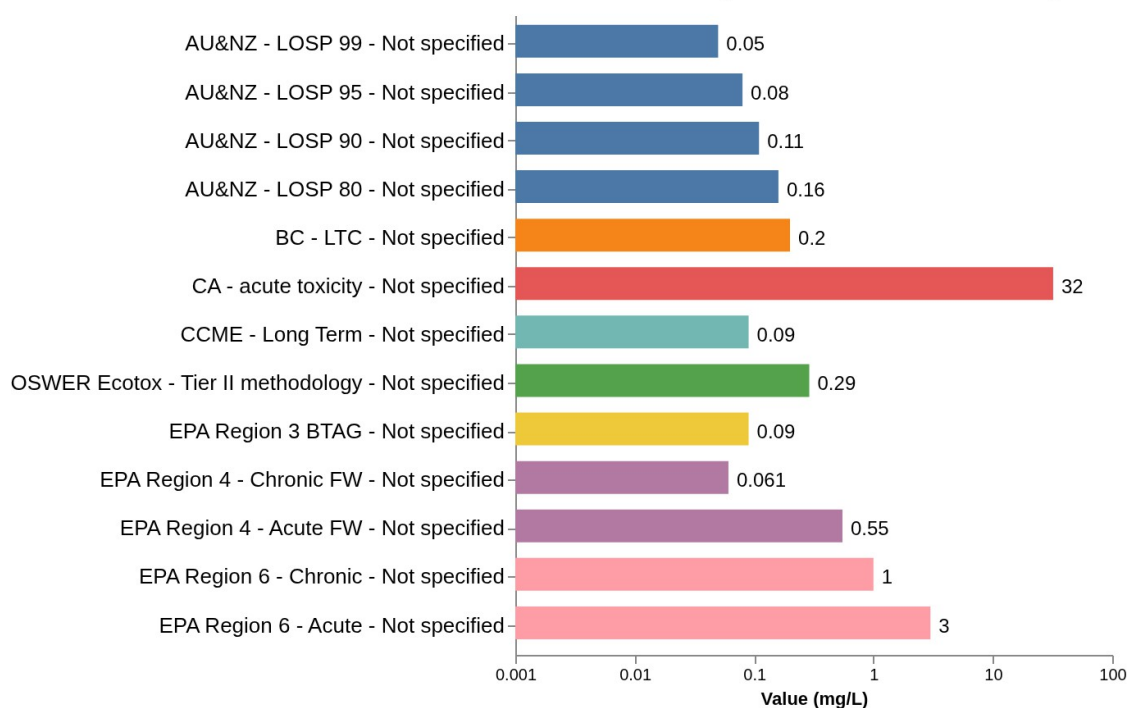


Table 414: Benchmark Values for Ethylene Glycol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-21-1	Australia and New Zealand	Freshwater LOSEP Unknown	Not specified	0.33	83
107-21-1	Canada	Freshwater Long Term	Not specified	192.00	
107-21-1	EPA Region 3	BTAG – Freshwater	Not specified	192.00	
107-21-1	EPA Region 4	Chronic Freshwater	Not specified	140.00	
107-21-1	EPA Region 4	Acute Freshwater	Not specified	1300.00	
107-21-1	EPA Region 6	Freshwater Chronic	Not specified	4048.50	
107-21-1	EPA Region 6	Freshwater Acute	Not specified	12145.50	

Benchmark Values for Ethylene Glycol in Surface Water (Fresh Water)

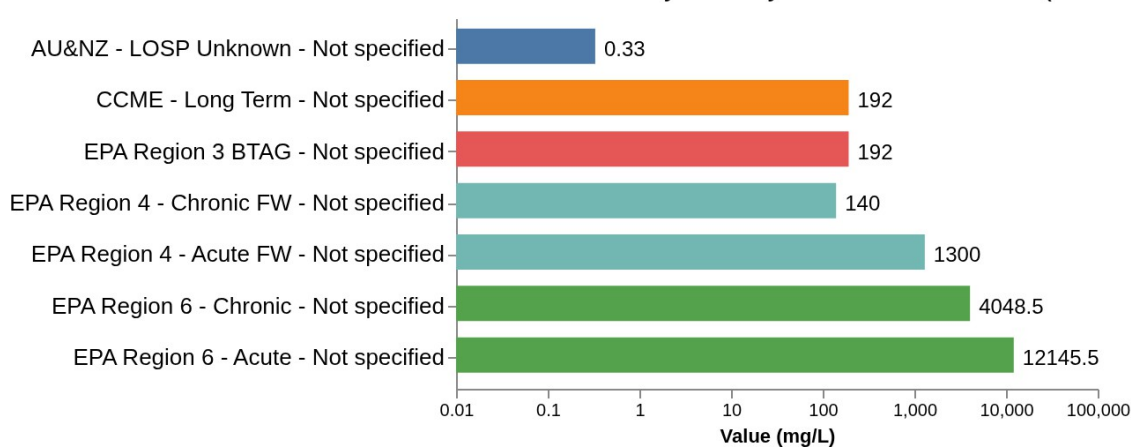


Table 415: Benchmark Values for Ethylene Thiourea in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96-45-7	OPP	Freshwater Nonvascular Plant	Not specified	23.0	
96-45-7	OPP	Freshwater Invertebrates Acute	Not specified	134.5	
96-45-7	OPP	Freshwater Fish Acute	Not specified	251.0	22
96-45-7	OPP	Freshwater Vascular Plant	Not specified	960.0	22

Benchmark Values for Ethylene Thiourea in Surface Water (Fresh Water)

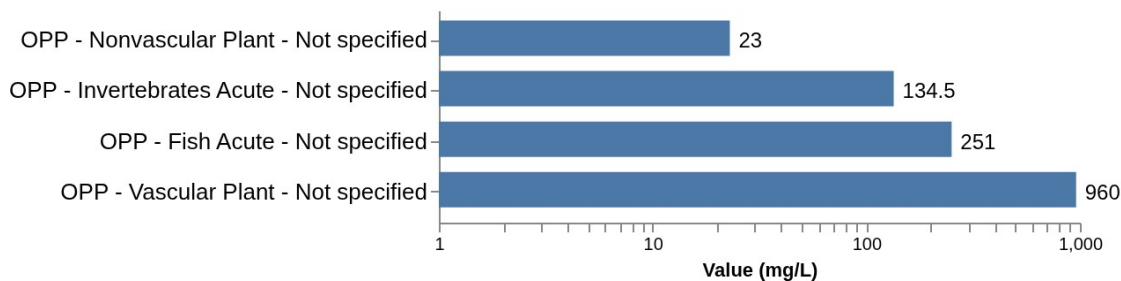


Table 416: Benchmark Values for Ethylphthalyl Ethyl Glycolate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
84-72-0	California	Freshwater chronic toxicity	Not specified	0.003
84-72-0	California	Freshwater acute toxicity	Not specified	0.940

Benchmark Values for Ethylphthalyl Ethyl Glycolate in Surface Water (Fresh Water)

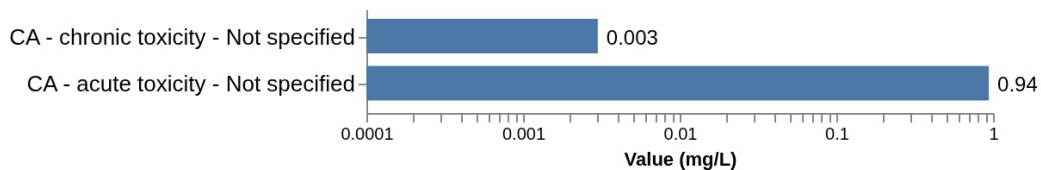


Table 417: Benchmark Values for Etofenprox in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
80844-07-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.00017	
80844-07-1	OPP	Freshwater Invertebrates Acute	Not specified	0.00040	
80844-07-1	OPP	Freshwater Fish Acute	Not specified	0.00135	
80844-07-1	OPP	Freshwater Nonvascular Plant	Not specified	0.01880	22
80844-07-1	OPP	Freshwater Fish Chronic	Not specified	0.02300	
80844-07-1	OPP	Freshwater Vascular Plant	Not specified	0.02600	22

Benchmark Values for Etofenprox in Surface Water (Fresh Water)

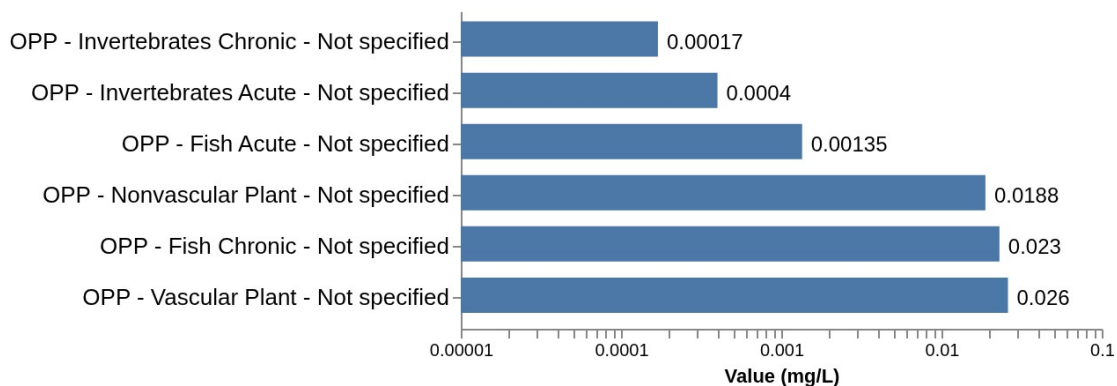


Table 418: Benchmark Values for Etoxazole degradate (R-13) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-1	OPP	Freshwater Invertebrates Acute	Not specified	0.365	22
000000-37-1	OPP	Freshwater Fish Acute	Not specified	0.370	22
000000-37-1	OPP	Freshwater Nonvascular Plant	Not specified	1.000	22

Benchmark Values for Etoxazole degradate (R-13) in Surface Water (Fresh Water)

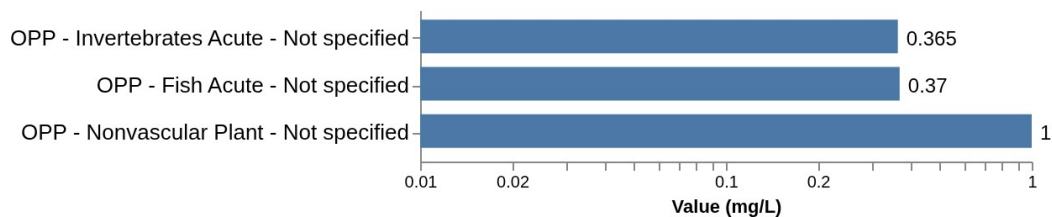


Table 419: Benchmark Values for Etoxazole degradate (R-3) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-3	OPP	Freshwater Invertebrates Acute	Not specified	0.275	22
000000-37-3	OPP	Freshwater Nonvascular Plant	Not specified	1.000	22

Benchmark Values for Etoxazole degradate (R-3) in Surface Water (Fresh Water)

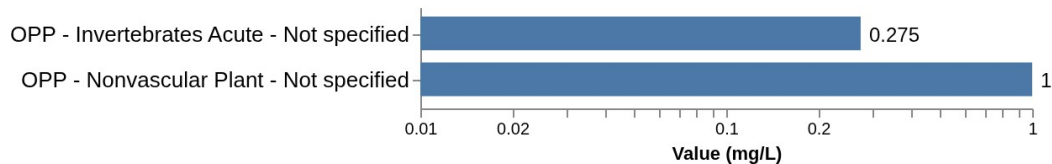
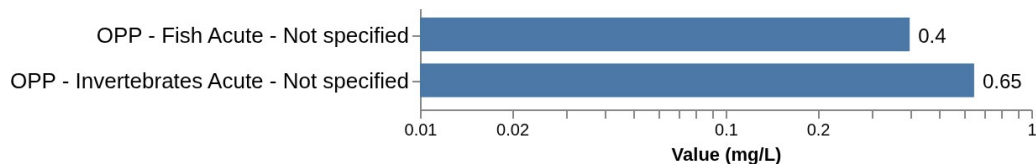
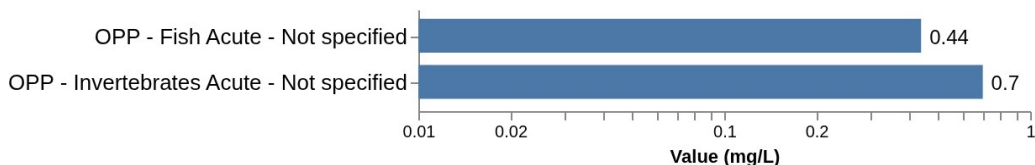


Table 420: Benchmark Values for Etoxazole degradate (R-4) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-2	OPP	Freshwater Fish Acute	Not specified	0.40	22
000000-37-2	OPP	Freshwater Invertebrates Acute	Not specified	0.65	22

Benchmark Values for Etoxazole degradate (R-4) in Surface Water (Fresh Water)**Table 421: Benchmark Values for Etoxazole degradate (R-8) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-0	OPP	Freshwater Fish Acute	Not specified	0.44	22
000000-37-0	OPP	Freshwater Invertebrates Acute	Not specified	0.70	22

Benchmark Values for Etoxazole degradate (R-8) in Surface Water (Fresh Water)**Table 422: Benchmark Values for Etoxazole degradate 2-amino-2-(4-tert-butyl-2-ethoxyphenyl)ethyl-2',6'-difluorobenzoate hydrochloride (R-7) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-8	OPP	Freshwater Invertebrates Acute	Not specified	0.37	22
000000-46-8	OPP	Freshwater Nonvascular Plant	Not specified	0.99	22

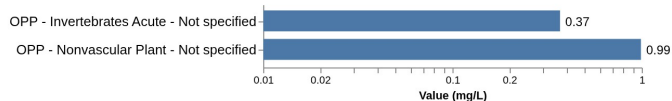
Benchmark Values for Etoxazole degradate 2-amino-2-(4-tert-butyl-2-ethoxyphenyl)ethyl-2',6'-difluorobenzoate hydrochloride (R-7) in Surface Water (Fresh Water)

Table 423: Benchmark Values for Etoxazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
153233-91-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.00013	
153233-91-1	OPP	Freshwater Invertebrates Acute	Not specified	0.00365	
153233-91-1	OPP	Freshwater Fish Chronic	Not specified	0.01500	
153233-91-1	OPP	Freshwater Nonvascular Plant	Not specified	0.05190	22
153233-91-1	OPP	Freshwater Vascular Plant	Not specified	0.05600	22
153233-91-1	OPP	Freshwater Fish Acute	Not specified	0.18500	22

Benchmark Values for Etoxazole in Surface Water (Fresh Water)

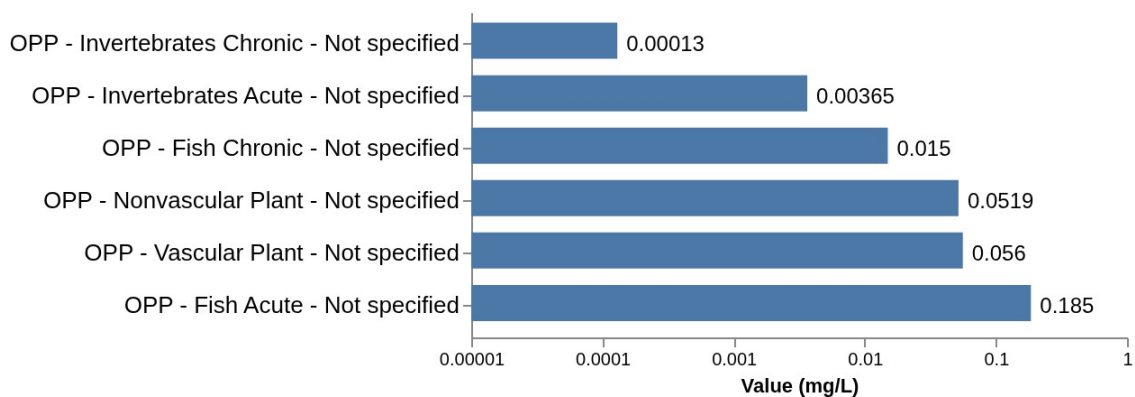


Table 424: Benchmark Values for Etridiazole degradate 3-DCMT (5-ethoxy-3-dichloromethyl-1,2,4-thiadiazole) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-37-4	OPP	Freshwater Fish Acute	Not specified	0.385
000000-37-4	OPP	Freshwater Invertebrates Acute	Not specified	0.550

Benchmark Values for Etridiazole degradate 3-DCMT (5-ethoxy-3-dichloromethyl-1,2,4-thiadiazole) in Surface Water (Fresh Water)

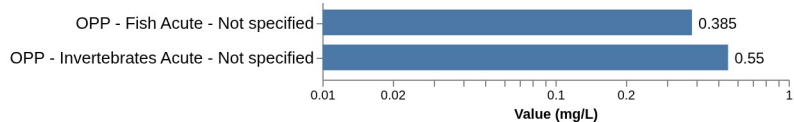


Table 425: Benchmark Values for Etridiazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2593-15-9	OPP	Freshwater Nonvascular Plant	Not specified	0.072
2593-15-9	OPP	Freshwater Fish Chronic	Not specified	0.120
2593-15-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.370
2593-15-9	OPP	Freshwater Fish Acute	Not specified	0.605
2593-15-9	OPP	Freshwater Invertebrates Acute	Not specified	1.540
2593-15-9	OPP	Freshwater Vascular Plant	Not specified	8.120

Benchmark Values for Etridiazole in Surface Water (Fresh Water)

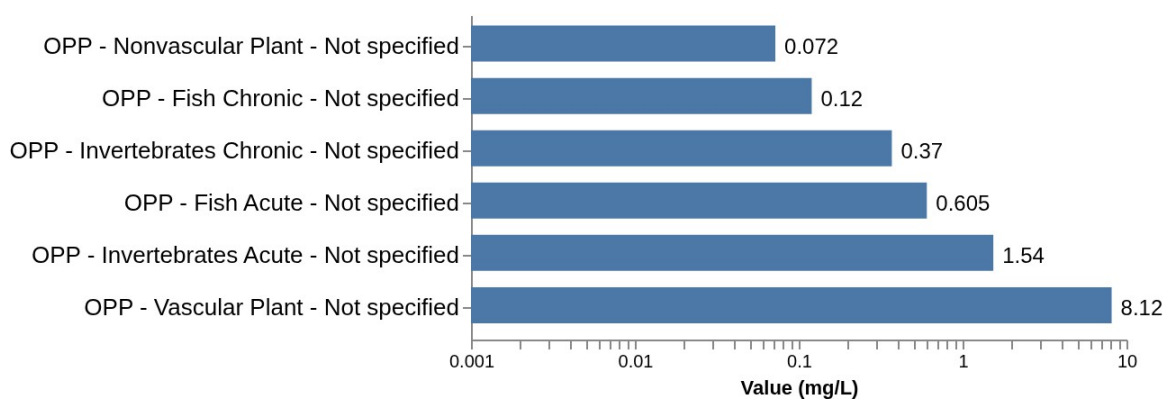


Table 426: Benchmark Values for Famoxadone degradate IN-H3310-2 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-4	OPP	Freshwater Invertebrates Acute	Not specified	1.35	22

Benchmark Values for Famoxadone degradate IN-H3310-2 in Surface Water (Fresh Water)

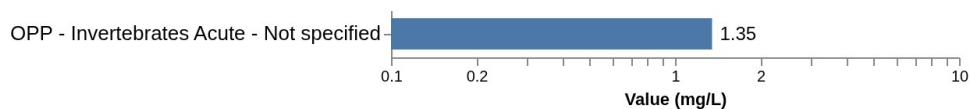


Table 427: Benchmark Values for Famoxadone degradate IN-JL856 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-5	OPP	Freshwater Invertebrates Acute	Not specified	0.095	22

Benchmark Values for Famoxadone degradate IN-JL856 in Surface Water (Fresh Water)

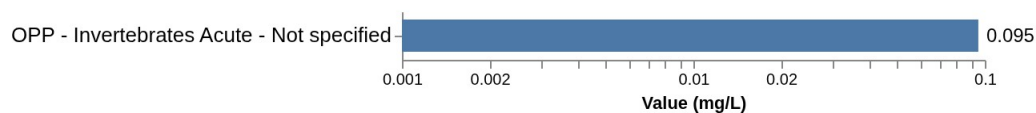


Table 428: Benchmark Values for Famoxadone degradate IN-JS940 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-6	OPP	Freshwater Fish Acute	Not specified	4.5	22
000000-30-6	OPP	Freshwater Invertebrates Acute	Not specified	4.8	22

Benchmark Values for Famoxadone degradate IN-JS940 in Surface Water (Fresh Water)

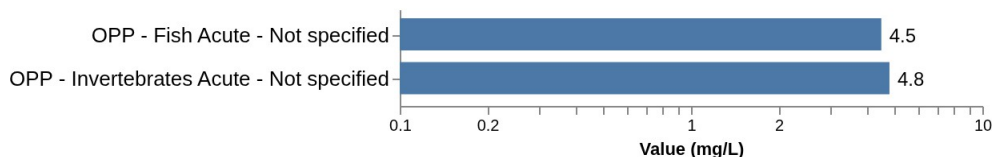


Table 429: Benchmark Values for Famoxadone degradate IN-KF015 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-30-7	OPP	Freshwater Invertebrates Acute	Not specified	2.85

Benchmark Values for Famoxadone degradate IN-KF015 in Surface Water (Fresh Water)

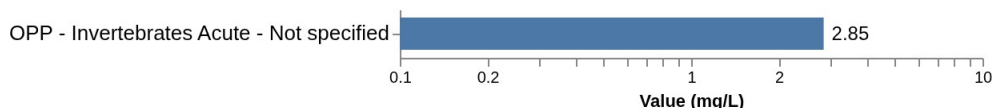


Table 430: Benchmark Values for Famoxadone degradate IN-KZ007 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-8	OPP	Freshwater Invertebrates Acute	Not specified	0.055	22

Benchmark Values for Famoxadone degradate IN-KZ007 in Surface Water (Fresh Water)

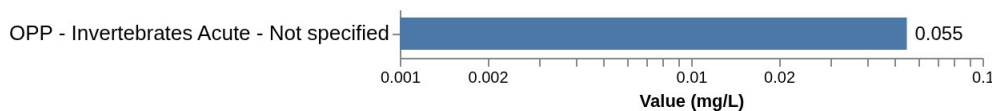


Table 431: Benchmark Values for Famoxadone degradate IN-MN467 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-30-9	OPP	Freshwater Invertebrates Acute	Not specified	0.07	22

Benchmark Values for Famoxadone degradate IN-MN467 in Surface Water (Fresh Water)

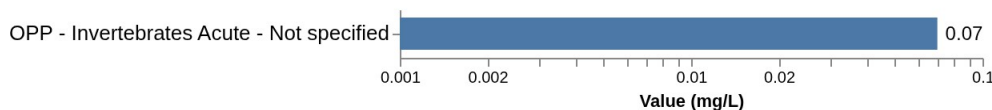
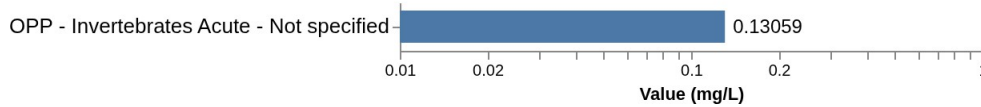
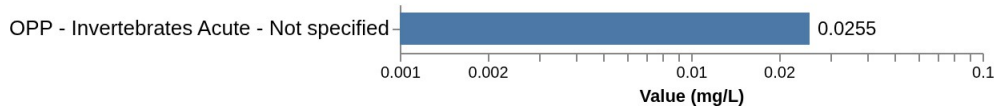


Table 432: Benchmark Values for Famoxadone degradate IN–MN468 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–31–0	OPP	Freshwater Invertebrates Acute	Not specified	0.13059

Benchmark Values for Famoxadone degradate IN–MN468 in Surface Water (Fresh Water)**Table 433: Benchmark Values for Famoxadone degradate IN–MN968 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–31–1	OPP	Freshwater Invertebrates Acute	Not specified	0.0255	22

Benchmark Values for Famoxadone degradate IN–MN968 in Surface Water (Fresh Water)**Table 434: Benchmark Values for Famoxadone in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
131807–57–3	OPP	Freshwater Invertebrates Chronic	Not specified	0.000085	
131807–57–3	OPP	Freshwater Fish Chronic	Not specified	0.001400	
131807–57–3	OPP	Freshwater Invertebrates Acute	Not specified	0.005900	
131807–57–3	OPP	Freshwater Fish Acute	Not specified	0.006000	
131807–57–3	OPP	Freshwater Nonvascular Plant	Not specified	0.013500	
131807–57–3	OPP	Freshwater Vascular Plant	Not specified	0.081000	22

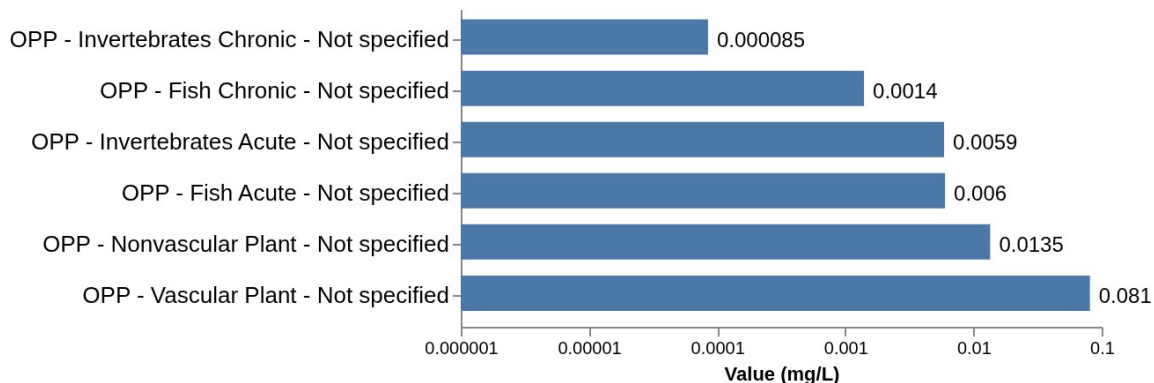
Benchmark Values for Famoxadone in Surface Water (Fresh Water)

Table 435: Benchmark Values for Fenamidone degradate RPA-410193 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
332855-88-6	OPP	Freshwater Invertebrates Acute	Not specified	2.75	22

Benchmark Values for Fenamidone degradate RPA-410193 in Surface Water (Fresh Water)

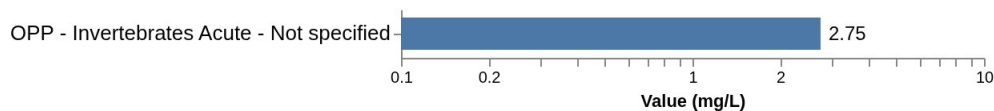


Table 436: Benchmark Values for Fenamidone degradate RPA-412636 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
27539-12-4	OPP	Freshwater Fish Acute	Not specified	8.6	22
27539-12-4	OPP	Freshwater Nonvascular Plant	Not specified	17.3	
27539-12-4	OPP	Freshwater Invertebrates Acute	Not specified	48.6	22

Benchmark Values for Fenamidone degradate RPA-412636 in Surface Water (Fresh Water)

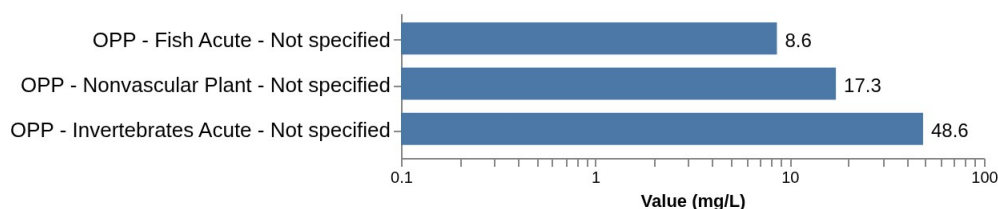


Table 437: Benchmark Values for Fenamidone degradate RPA-412708 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
332855-82-0	OPP	Freshwater Nonvascular Plant	Not specified	18.7	22
332855-82-0	OPP	Freshwater Fish Acute	Not specified	49.0	22
332855-82-0	OPP	Freshwater Invertebrates Acute	Not specified	50.4	22

Benchmark Values for Fenamidone degradate RPA-412708 in Surface Water (Fresh Water)

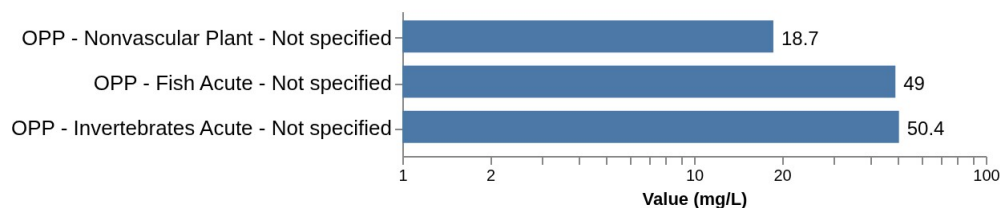


Table 438: Benchmark Values for Fenamidone degradate RPA-413255 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-5	OPP	Freshwater Fish Acute	Not specified	1.00	22
000000-37-5	OPP	Freshwater Invertebrates Acute	Not specified	4.85	

Benchmark Values for Fenamidone degradate RPA-413255 in Surface Water (Fresh Water)

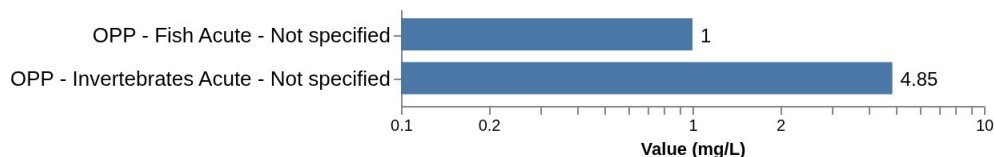


Table 439: Benchmark Values for Fenamidone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
161326-34-7	OPP	Freshwater Fish Chronic	Not specified	0.0047	
161326-34-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.0125	
161326-34-7	OPP	Freshwater Invertebrates Acute	Not specified	0.0245	
161326-34-7	OPP	Freshwater Nonvascular Plant	Not specified	0.0700	
161326-34-7	OPP	Freshwater Fish Acute	Not specified	0.3700	
161326-34-7	OPP	Freshwater Vascular Plant	Not specified	0.8800	22

Benchmark Values for Fenamidone in Surface Water (Fresh Water)

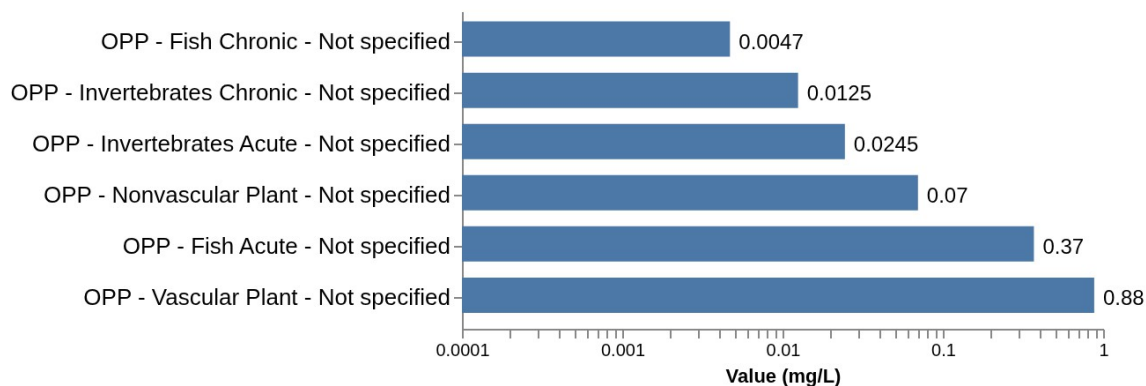


Table 440: Benchmark Values for Fenamiphos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
22224-92-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00012
22224-92-6	OPP	Freshwater Invertebrates Acute	Not specified	0.00095
22224-92-6	OPP	Freshwater Fish Chronic	Not specified	0.00380
22224-92-6	OPP	Freshwater Fish Acute	Not specified	0.00475

Benchmark Values for Fenamiphos in Surface Water (Fresh Water)

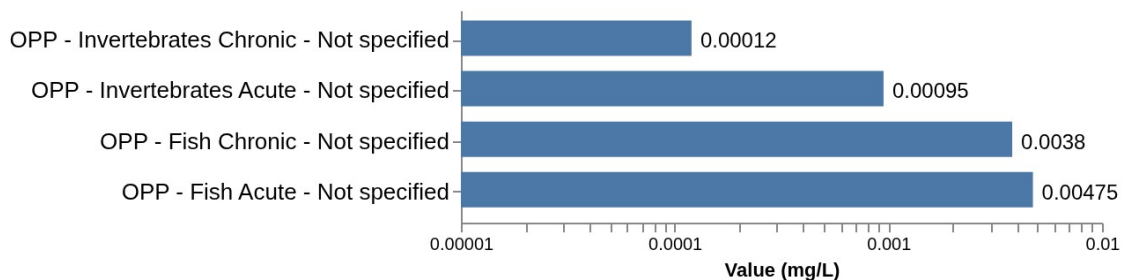


Table 441: Benchmark Values for Fenarimol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
60168-88-9	OPP	Freshwater Nonvascular Plant	Not specified	0.100
60168-88-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.113
60168-88-9	OPP	Freshwater Fish Chronic	Not specified	0.180
60168-88-9	OPP	Freshwater Fish Acute	Not specified	0.450
60168-88-9	OPP	Freshwater Invertebrates Acute	Not specified	3.400

Benchmark Values for Fenarimol in Surface Water (Fresh Water)

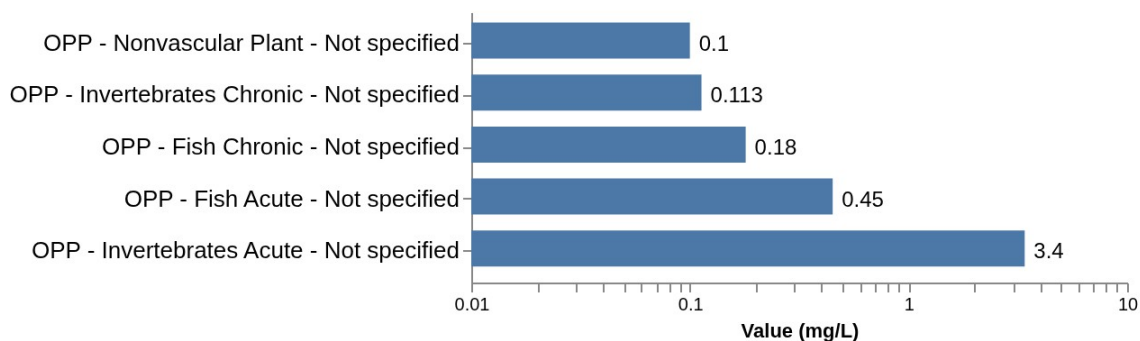


Table 442: Benchmark Values for Fenbuconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
114369-43-6	OPP	Freshwater Fish Chronic	Not specified	0.027
114369-43-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.078
114369-43-6	OPP	Freshwater Fish Acute	Not specified	0.340
114369-43-6	OPP	Freshwater Nonvascular Plant	Not specified	0.410
114369-43-6	OPP	Freshwater Vascular Plant	Not specified	0.740
114369-43-6	OPP	Freshwater Invertebrates Acute	Not specified	1.150

Benchmark Values for Fenbuconazole in Surface Water (Fresh Water)

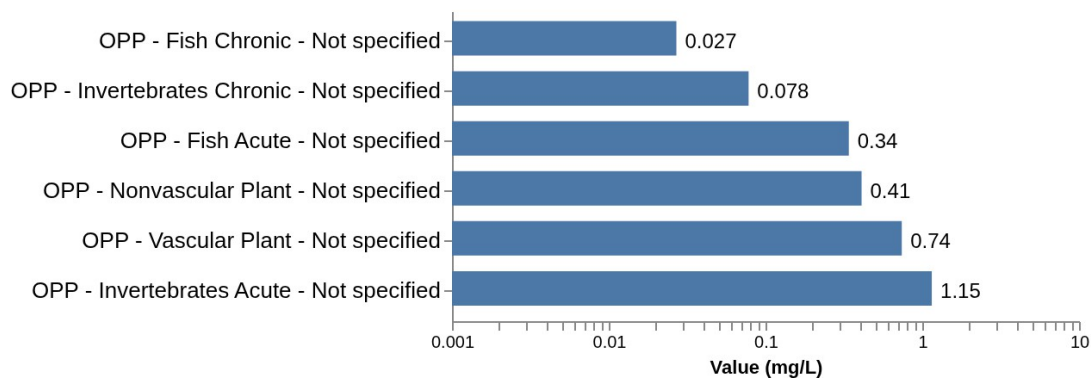


Table 443: Benchmark Values for Fenbutatin Oxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
13356-08-6	OPP	Freshwater Fish Chronic	Not specified	0.00031
13356-08-6	OPP	Freshwater Fish Acute	Not specified	0.00085
13356-08-6	OPP	Freshwater Invertebrates Acute	Not specified	0.01550
13356-08-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.01600

Benchmark Values for Fenbutatin Oxide in Surface Water (Fresh Water)

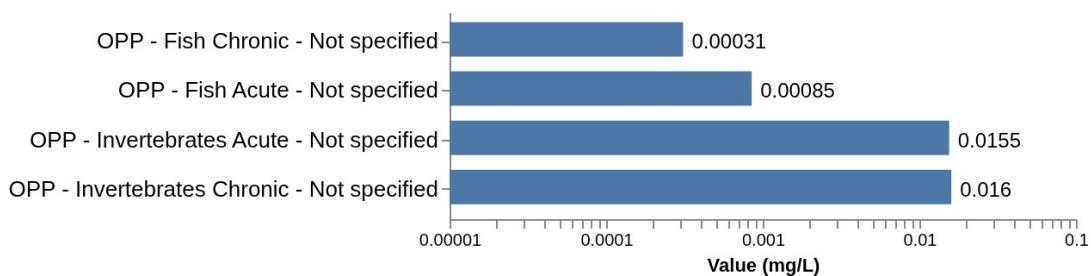


Table 444: Benchmark Values for Fenhexamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
126833-17-8	OPP	Freshwater Fish Chronic	Not specified	0.101	
126833-17-8	OPP	Freshwater Fish Acute	Not specified	0.670	
126833-17-8	OPP	Freshwater Invertebrates Chronic	Not specified	1.000	
126833-17-8	OPP	Freshwater Vascular Plant	Not specified	2.300	22
126833-17-8	OPP	Freshwater Nonvascular Plant	Not specified	4.820	
126833-17-8	OPP	Freshwater Invertebrates Acute	Not specified	9.400	22

Benchmark Values for Fenhexamid in Surface Water (Fresh Water)

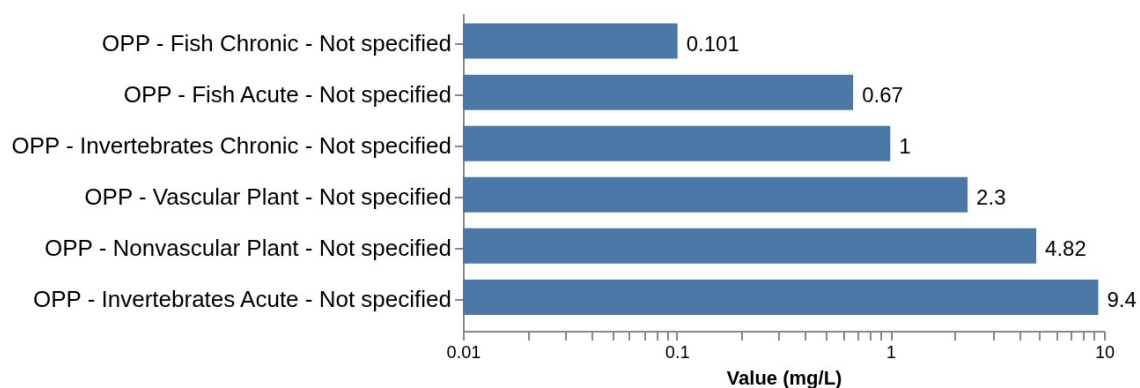


Table 445: Benchmark Values for Fenitrothion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122-14-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000100	88
122-14-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000200	88, 89
122-14-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000300	88
122-14-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.000400	88
122-14-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000087	
122-14-5	OPP	Freshwater Invertebrates Acute	Not specified	0.002150	
122-14-5	OPP	Freshwater Fish Chronic	Not specified	0.046000	
122-14-5	OPP	Freshwater Fish Acute	Not specified	0.860000	
122-14-5	OPP	Freshwater Nonvascular Plant	Not specified	1.300000	

Benchmark Values for Fenitrothion in Surface Water (Fresh Water)

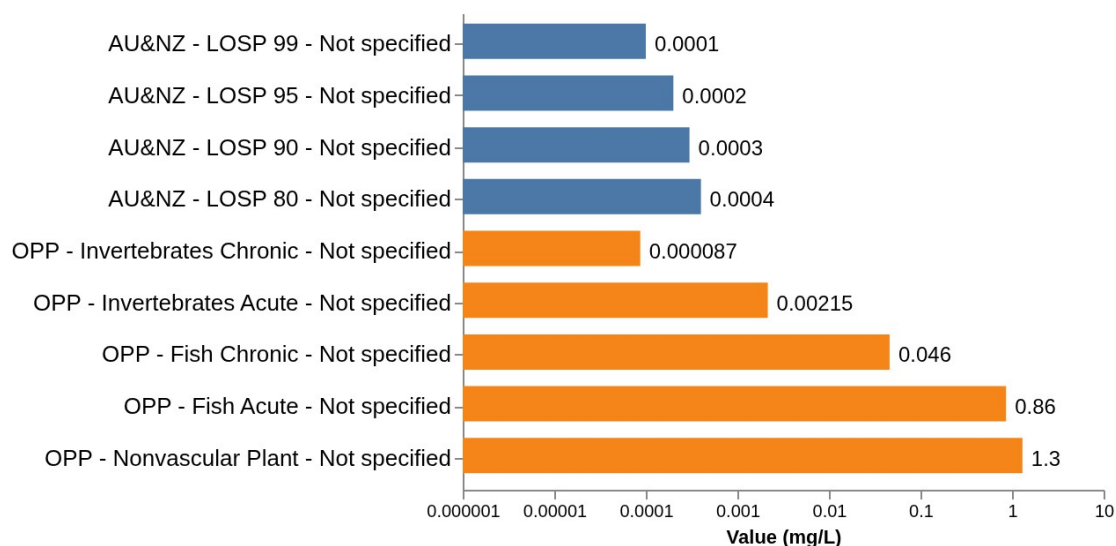


Table 446: Benchmark Values for Fenoxaprop-Et in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
66441-23-4	OPP	Freshwater Fish Acute	Not specified	0.155
66441-23-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.560
66441-23-4	OPP	Freshwater Nonvascular Plant	Not specified	0.650
66441-23-4	OPP	Freshwater Invertebrates Acute	Not specified	1.590

Benchmark Values for Fenoxaprop-Et in Surface Water (Fresh Water)

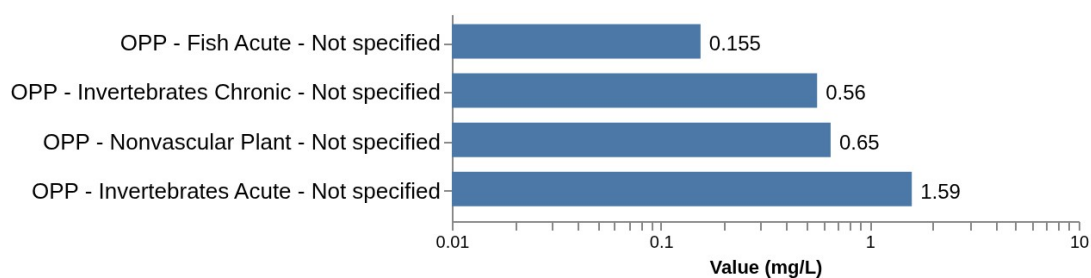


Table 447: Benchmark Values for Fenoxaprop-p acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
113158-40-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.34	
113158-40-0	OPP	Freshwater Fish Chronic	Not specified	1.80	
113158-40-0	OPP	Freshwater Invertebrates Acute	Not specified	7.10	
113158-40-0	OPP	Freshwater Fish Acute	Not specified	34.40	22
113158-40-0	OPP	Freshwater Nonvascular Plant	Not specified	44.00	

Benchmark Values for Fenoxaprop-p acid in Surface Water (Fresh Water)

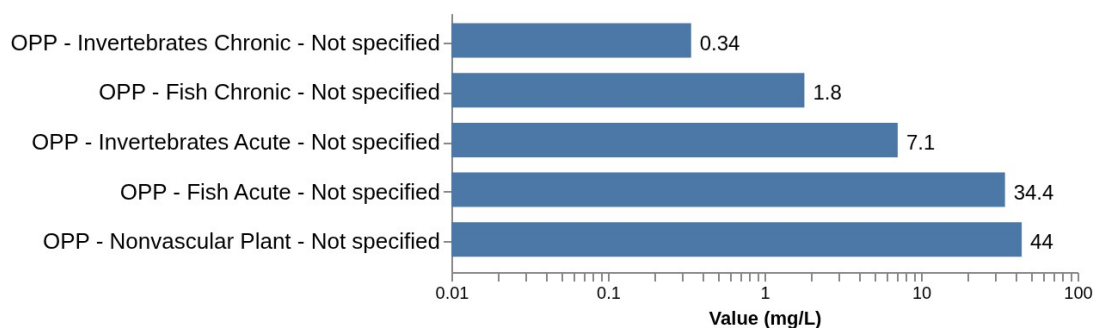


Table 448: Benchmark Values for Fenoxaprop-p-ethyl degradate (AE F046360) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-6	OPP	Freshwater Fish Chronic	Not specified	0.044	
000000-37-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.230	
000000-37-6	OPP	Freshwater Fish Acute	Not specified	0.230	
000000-37-6	OPP	Freshwater Nonvascular Plant	Not specified	0.430	
000000-37-6	OPP	Freshwater Invertebrates Acute	Not specified	0.550	22
000000-37-6	OPP	Freshwater Vascular Plant	Not specified	3.000	22

Benchmark Values for Fenoxaprop-p-ethyl degradate (AE F046360) in Surface Water (Fresh Water)

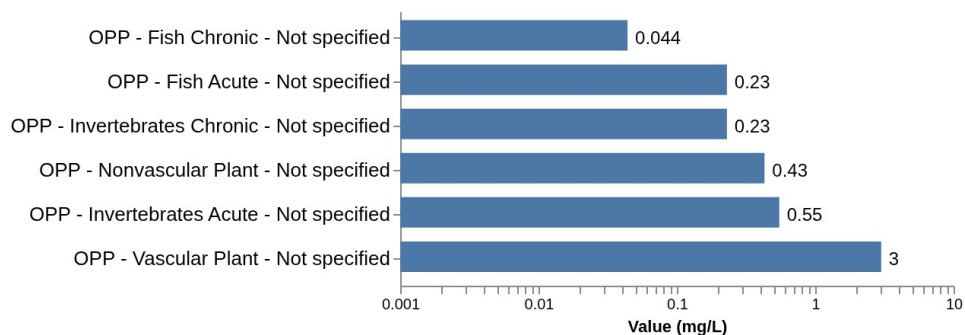


Table 449: Benchmark Values for Fenoxaprop-p-ethyl Degradate [AE F096918] in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.31	23
000000-37-7	OPP	Freshwater Nonvascular Plant	Not specified	14.00	
000000-37-7	OPP	Freshwater Fish Chronic	Not specified	31.00	
000000-37-7	OPP	Freshwater Invertebrates Acute	Not specified	92.80	22
000000-37-7	OPP	Freshwater Fish Acute	Not specified	159.00	

Benchmark Values for Fenoxaprop-p-ethyl Degradate [AE F096918] in Surface Water (Fresh Water)

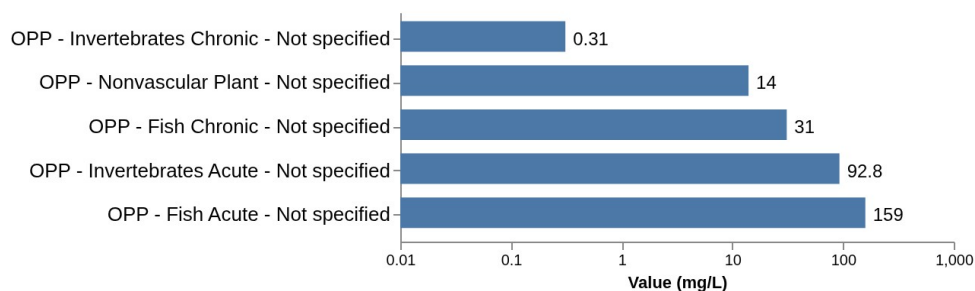


Table 450: Benchmark Values for Fenoxaprop-p-ethyl degradate AE F096918 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-37-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.31	23
000000-37-8	OPP	Freshwater Nonvascular Plant	Not specified	14.00	
000000-37-8	OPP	Freshwater Fish Chronic	Not specified	31.00	
000000-37-8	OPP	Freshwater Invertebrates Acute	Not specified	92.80	22
000000-37-8	OPP	Freshwater Fish Acute	Not specified	159.00	

Benchmark Values for Fenoxaprop-p-ethyl degradate AE F096918 in Surface Water (Fresh Water)

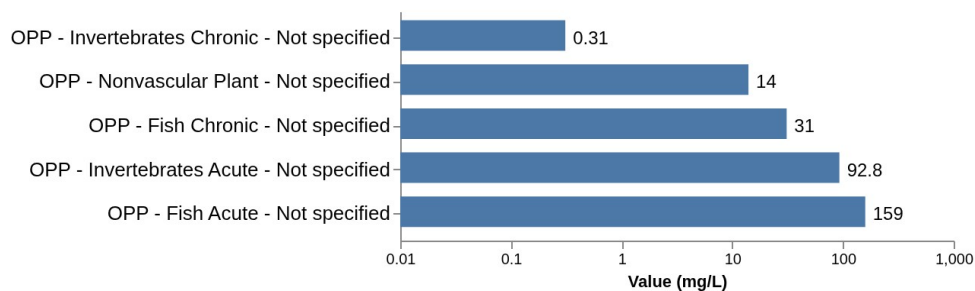


Table 451: Benchmark Values for Fenoxaprop-p-ethyl Degradate Chlorobenzoxazalone [AE F054014] in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-25-0	OPP	Freshwater Invertebrates Acute	Not specified	3.3	
95-25-0	OPP	Freshwater Fish Acute	Not specified	5.0	22
95-25-0	OPP	Freshwater Nonvascular Plant	Not specified	7.5	

Benchmark Values for Fenoxaprop-p-ethyl Degradate Chlorobenzoxazalone [AE F054014] in Surface Water (Fresh Water)

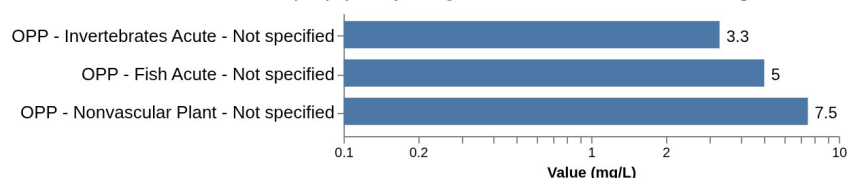


Table 452: Benchmark Values for Fenoxaprop-p-ethyl Degradate Fenoxaprop-p acid (AE F088406) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.34	
000000-38-0	OPP	Freshwater Fish Chronic	Not specified	1.80	
000000-38-0	OPP	Freshwater Invertebrates Acute	Not specified	7.10	
000000-38-0	OPP	Freshwater Fish Acute	Not specified	34.40	22
000000-38-0	OPP	Freshwater Nonvascular Plant	Not specified	44.00	

Benchmark Values for Fenoxaprop-p-ethyl Degradate Fenoxaprop-p acid (AE F088406) in Surface Water (Fresh Water)

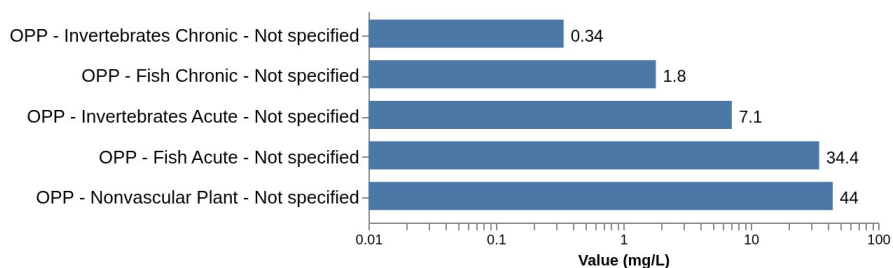


Table 453: Benchmark Values for Fenoxaprop-p-ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71283-80-2	OPP	Freshwater Fish Chronic	Not specified	0.044	
71283-80-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.230	
71283-80-2	OPP	Freshwater Fish Acute	Not specified	0.230	
71283-80-2	OPP	Freshwater Nonvascular Plant	Not specified	0.430	
71283-80-2	OPP	Freshwater Invertebrates Acute	Not specified	0.550	22
71283-80-2	OPP	Freshwater Vascular Plant	Not specified	3.000	22

Benchmark Values for Fenoxaprop-p-ethyl in Surface Water (Fresh Water)

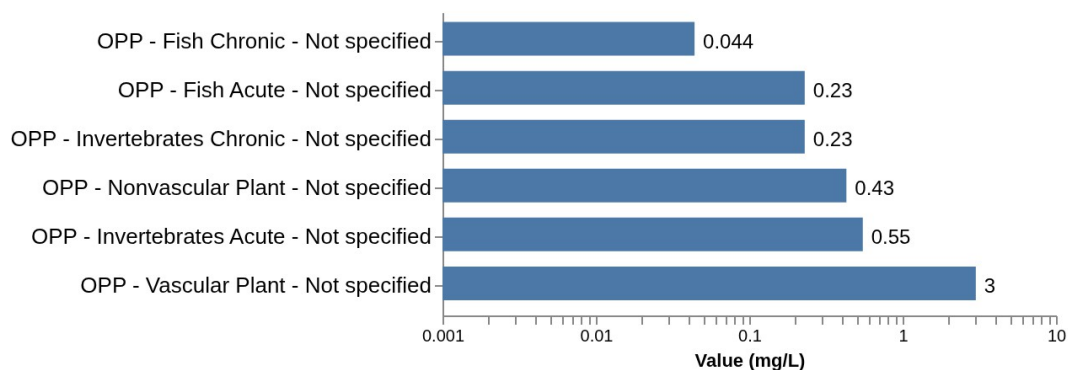


Table 454: Benchmark Values for Fenoxycarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
72490-01-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.000002
72490-01-8	OPP	Freshwater Fish Chronic	Not specified	0.048000
72490-01-8	OPP	Freshwater Invertebrates Acute	Not specified	0.200000
72490-01-8	OPP	Freshwater Fish Acute	Not specified	0.800000

Benchmark Values for Fenoxycarb in Surface Water (Fresh Water)

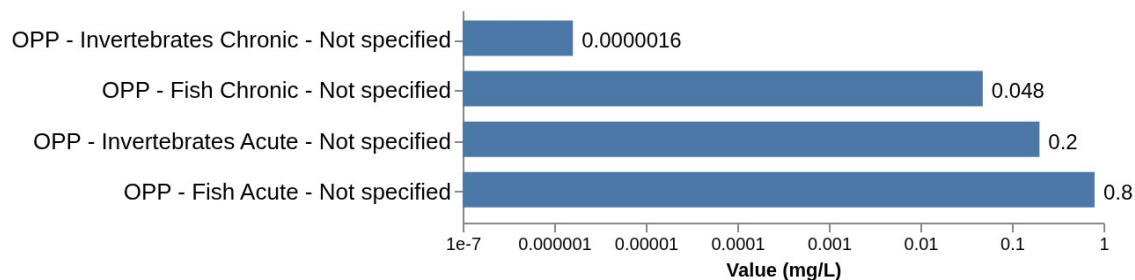


Table 455: Benchmark Values for Fenpropathrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
39515-41-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.000002	23
39515-41-8	OPP	Freshwater Invertebrates Acute	Not specified	0.000002	
39515-41-8	OPP	Freshwater Fish Chronic	Not specified	0.000060	
39515-41-8	OPP	Freshwater Fish Acute	Not specified	0.001100	
39515-41-8	OPP	Freshwater Nonvascular Plant	Not specified	0.063000	
39515-41-8	OPP	Freshwater Vascular Plant	Not specified	1.000000	22

Benchmark Values for Fenpropathrin in Surface Water (Fresh Water)

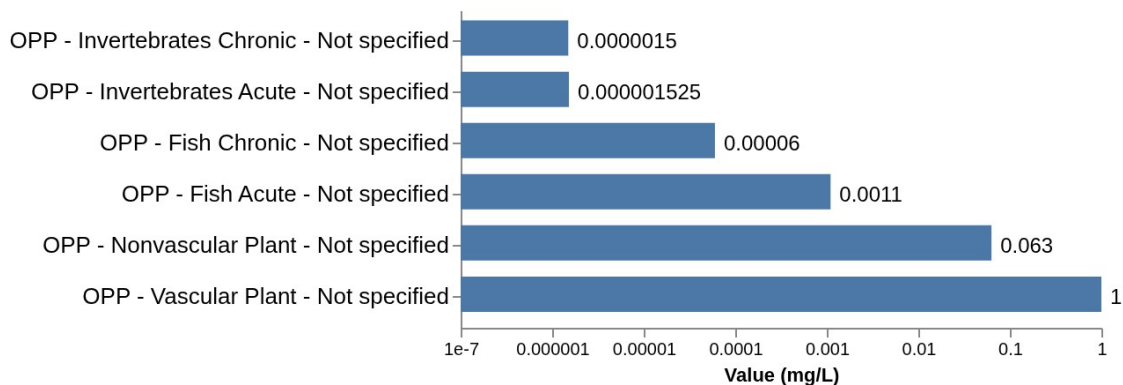


Table 456: Benchmark Values for Fenpyrazamine degradate (S-2188-DC) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-2	OPP	Freshwater Nonvascular Plant	Not specified	32.0	
000000-38-2	OPP	Freshwater Fish Acute	Not specified	44.5	22
000000-38-2	OPP	Freshwater Invertebrates Acute	Not specified	47.0	22

Benchmark Values for Fenpyrazamine degradate (S-2188-DC) in Surface Water (Fresh Water)

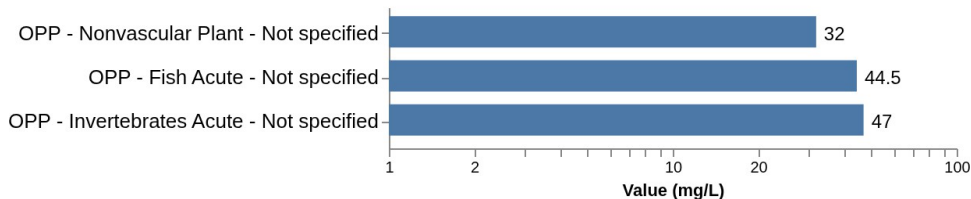


Table 457: Benchmark Values for Fenpyrazamine degradate (S-2188-OH) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-3	OPP	Freshwater Fish Acute	Not specified	48.5	22
000000-38-3	OPP	Freshwater Invertebrates Acute	Not specified	49.0	22
000000-38-3	OPP	Freshwater Nonvascular Plant	Not specified	55.0	

Benchmark Values for Fenpyrazamine degradate (S-2188-OH) in Surface Water (Fresh Water)

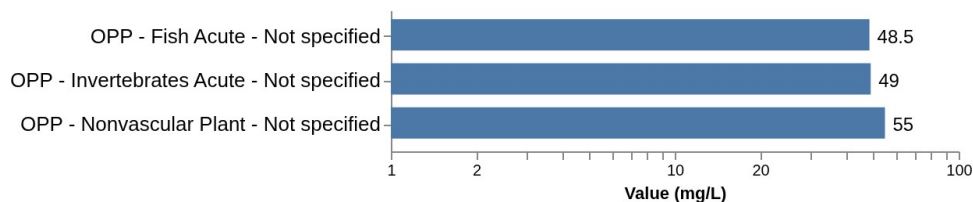


Table 458: Benchmark Values for Fenpyrazamine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
473798-59-3	OPP	Freshwater Nonvascular Plant	Not specified	0.011
473798-59-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.340
473798-59-3	OPP	Freshwater Fish Chronic	Not specified	0.370
473798-59-3	OPP	Freshwater Vascular Plant	Not specified	1.100
473798-59-3	OPP	Freshwater Fish Acute	Not specified	2.600
473798-59-3	OPP	Freshwater Invertebrates Acute	Not specified	2.750

Benchmark Values for Fenpyrazamine in Surface Water (Fresh Water)

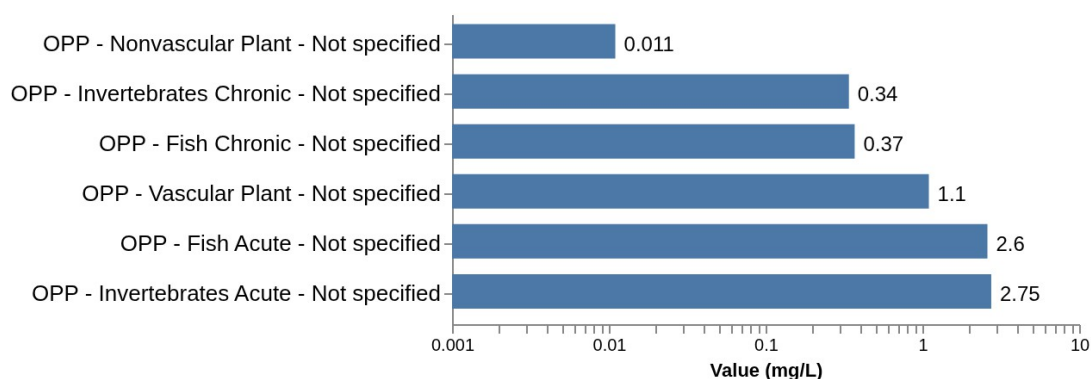


Table 459: Benchmark Values for Fenpyroximate degradate M-3 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-38-4	OPP	Freshwater Fish Acute	Not specified	3.100
000000-38-4	OPP	Freshwater Invertebrates Acute	Not specified	6.525

Benchmark Values for Fenpyroximate degradate M-3 in Surface Water (Fresh Water)

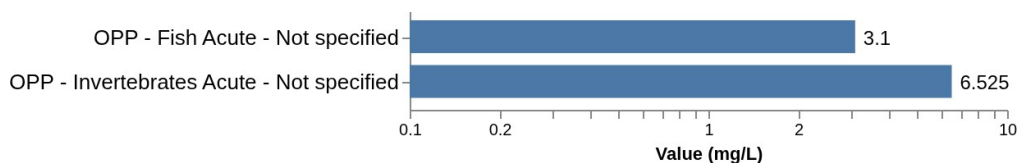


Table 460: Benchmark Values for Fenpyroximate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
134098-61-6	OPP	Freshwater Fish Chronic	Not specified	0.000016	
134098-61-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.000170	23
134098-61-6	OPP	Freshwater Fish Acute	Not specified	0.000365	
134098-61-6	OPP	Freshwater Nonvascular Plant	Not specified	0.000660	
134098-61-6	OPP	Freshwater Invertebrates Acute	Not specified	0.001800	
134098-61-6	OPP	Freshwater Vascular Plant	Not specified	0.190000	22

Benchmark Values for Fenpyroximate in Surface Water (Fresh Water)

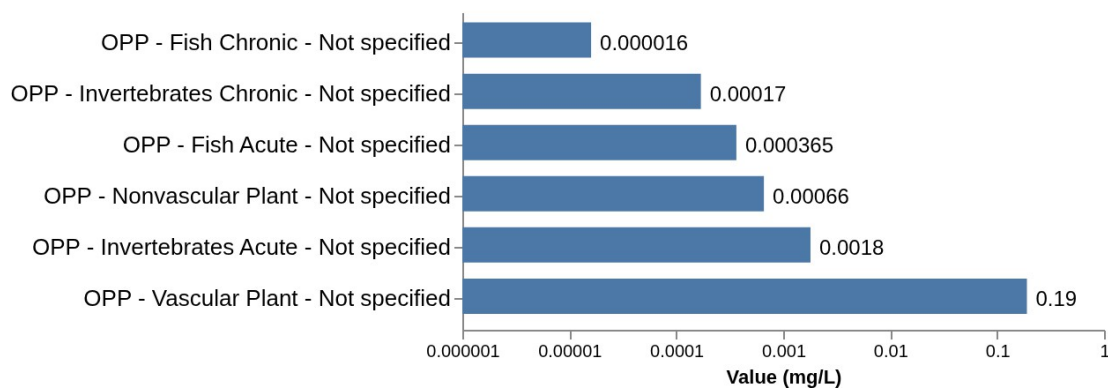


Table 461: Benchmark Values for Fenthion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
55-38-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.000013	
55-38-9	OPP	Freshwater Invertebrates Acute	Not specified	0.002600	
55-38-9	OPP	Freshwater Fish Chronic	Not specified	0.007500	
55-38-9	OPP	Freshwater Nonvascular Plant	Not specified	0.400000	
55-38-9	OPP	Freshwater Fish Acute	Not specified	0.415000	
55-38-9	OPP	Freshwater Vascular Plant	Not specified	2.800000	22

Benchmark Values for Fenthion in Surface Water (Fresh Water)

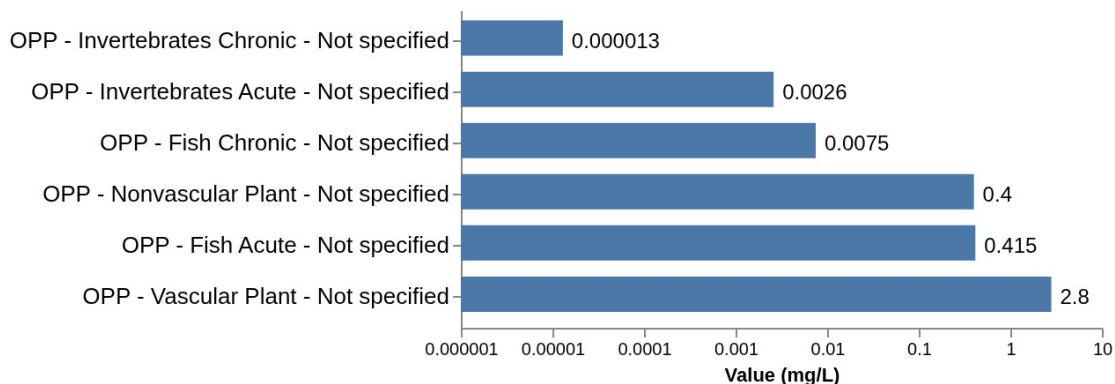


Table 462: Benchmark Values for Fipronil degradate fipronil desulfinyl (MB46513) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-5	OPP	Freshwater Fish Chronic	Not specified	0.00053	
000000-38-5	OPP	Freshwater Fish Acute	Not specified	0.01000	
000000-38-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.04100	
000000-38-5	OPP	Freshwater Nonvascular Plant	Not specified	0.07600	
000000-38-5	OPP	Freshwater Vascular Plant	Not specified	0.10000	22
000000-38-5	OPP	Freshwater Invertebrates Acute	Not specified	0.17750	

Benchmark Values for Fipronil degradate fipronil desulfinyl (MB46513) in Surface Water (Fresh Water)

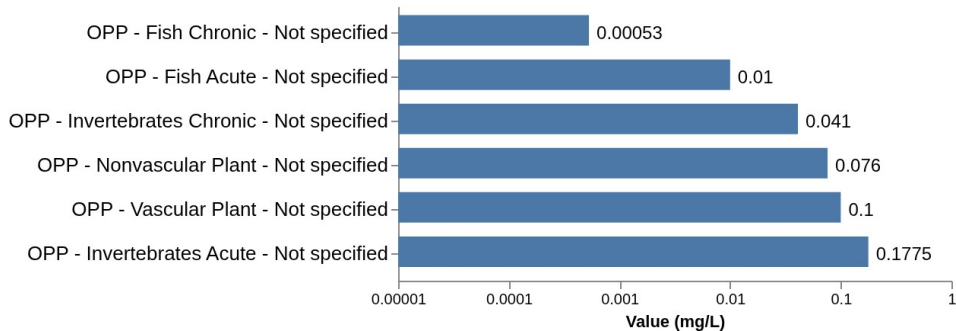


Table 463: Benchmark Values for Fipronil degradate fipronil sulfide (MB45950) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-6	OPP	Freshwater Fish Chronic	Not specified	0.00083	
000000-38-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00516	
000000-38-6	OPP	Freshwater Fish Acute	Not specified	0.01540	
000000-38-6	OPP	Freshwater Invertebrates Acute	Not specified	0.05000	
000000-38-6	OPP	Freshwater Nonvascular Plant	Not specified	0.76700	
000000-38-6	OPP	Freshwater Vascular Plant	Not specified	1.00700	22

Benchmark Values for Fipronil degradate fipronil sulfide (MB45950) in Surface Water (Fresh Water)

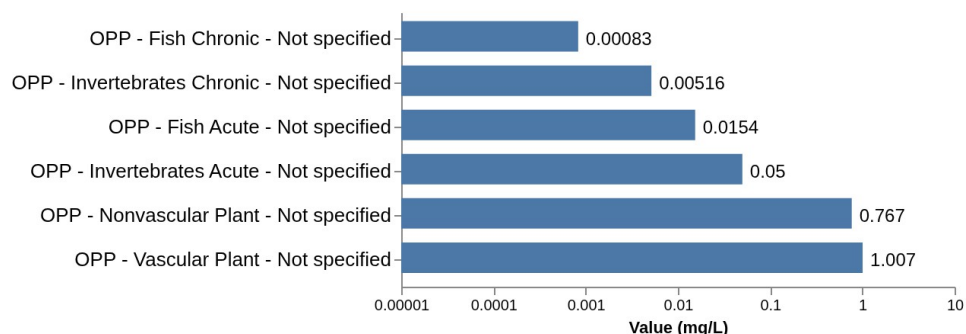


Table 464: Benchmark Values for Fipronil degradate fipronil sulfone (MB46136) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00022	23
000000-38-7	OPP	Freshwater Fish Chronic	Not specified	0.00067	
000000-38-7	OPP	Freshwater Fish Acute	Not specified	0.01250	
000000-38-7	OPP	Freshwater Invertebrates Acute	Not specified	0.01450	
000000-38-7	OPP	Freshwater Nonvascular Plant	Not specified	0.76700	
000000-38-7	OPP	Freshwater Vascular Plant	Not specified	1.00700	22

Benchmark Values for Fipronil degradate fipronil sulfone (MB46136) in Surface Water (Fresh Water)

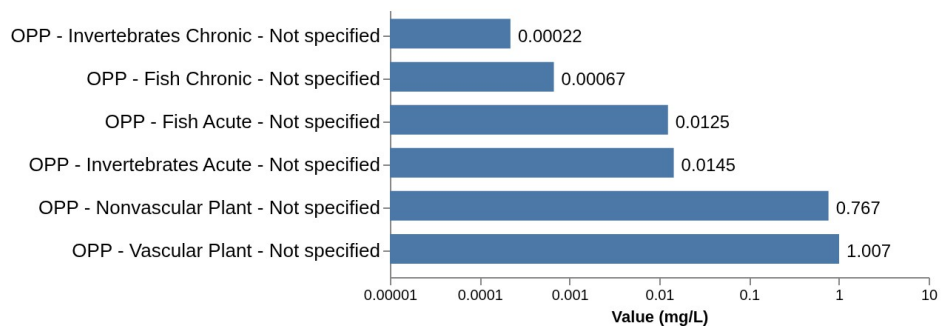


Table 465: Benchmark Values for Fipronil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120068-37-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.000011	
120068-37-3	OPP	Freshwater Invertebrates Acute	Not specified	0.000110	
120068-37-3	OPP	Freshwater Fish Acute	Not specified	0.041500	
120068-37-3	OPP	Freshwater Nonvascular Plant	Not specified	0.076000	
120068-37-3	OPP	Freshwater Vascular Plant	Not specified	0.100000	22

Benchmark Values for Fipronil in Surface Water (Fresh Water)

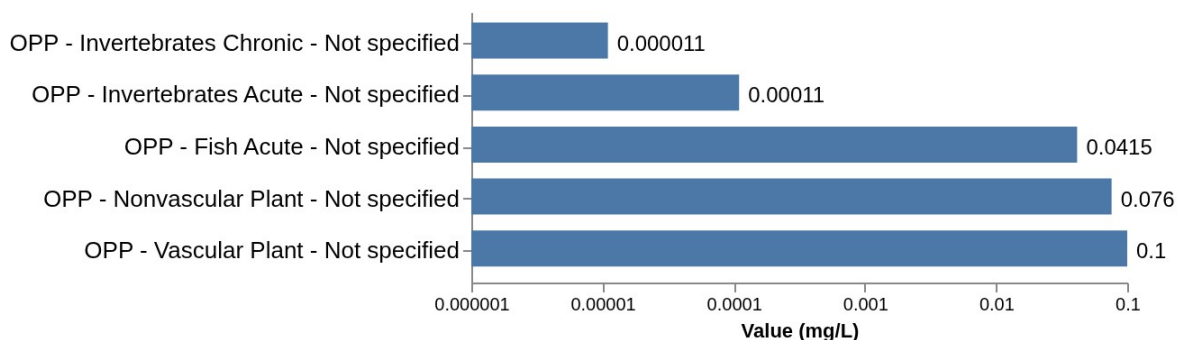


Table 466: Benchmark Values for Flazasulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
104040-78-0	OPP	Freshwater Vascular Plant	Not specified	0.000076
104040-78-0	OPP	Freshwater Nonvascular Plant	Not specified	0.004100

Benchmark Values for Flazasulfuron in Surface Water (Fresh Water)

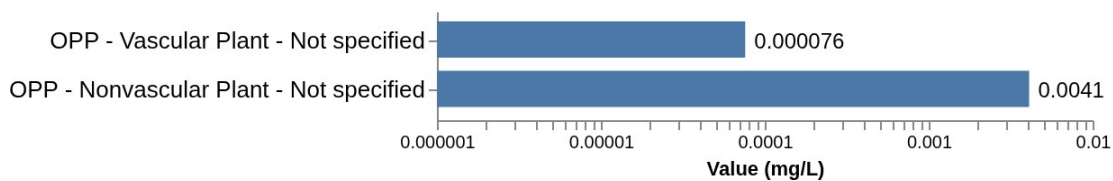


Table 467: Benchmark Values for Flonicamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
158062-67-0	OPP	Freshwater Invertebrates Chronic	Not specified	3.0	
158062-67-0	OPP	Freshwater Fish Chronic	Not specified	9.5	
158062-67-0	OPP	Freshwater Fish Acute	Not specified	49.0	22
158062-67-0	OPP	Freshwater Invertebrates Acute	Not specified	49.5	22
158062-67-0	OPP	Freshwater Nonvascular Plant	Not specified	96.7	22
158062-67-0	OPP	Freshwater Vascular Plant	Not specified	119.0	22

Benchmark Values for Flonicamid in Surface Water (Fresh Water)

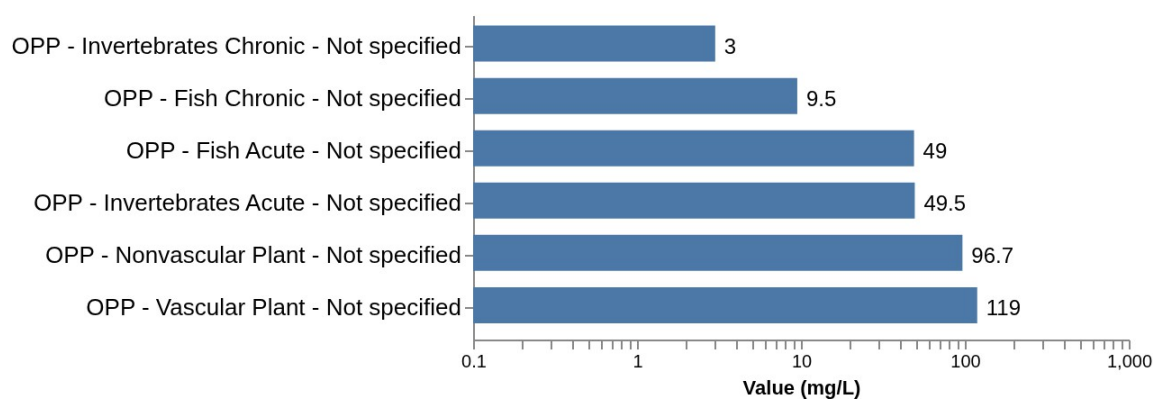


Table 468: Benchmark Values for Florasulam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
145701-23-1	OPP	Freshwater Vascular Plant	Not specified	0.00118	
145701-23-1	OPP	Freshwater Nonvascular Plant	Not specified	0.00345	
145701-23-1	OPP	Freshwater Invertebrates Chronic	Not specified	38.90000	
145701-23-1	OPP	Freshwater Fish Acute	Not specified	50.00000	22
145701-23-1	OPP	Freshwater Fish Chronic	Not specified	119.00000	
145701-23-1	OPP	Freshwater Invertebrates Acute	Not specified	146.00000	22

Benchmark Values for Florasulam in Surface Water (Fresh Water)

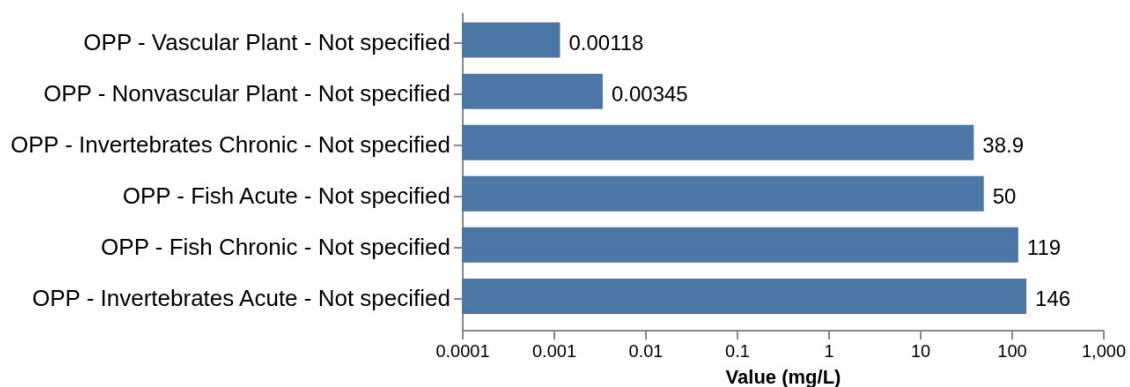


Table 469: Benchmark Values for Florpyrauxifen-benzyl degradate Acid X11438848 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-8	OPP	Freshwater Vascular Plant	Not specified	0.000497	
000000-38-8	OPP	Freshwater Invertebrates Chronic	Not specified	25.900000	
000000-38-8	OPP	Freshwater Fish Chronic	Not specified	29.800000	
000000-38-8	OPP	Freshwater Invertebrates Acute	Not specified	45.900000	22
000000-38-8	OPP	Freshwater Fish Acute	Not specified	49.700000	22

Benchmark Values for Florpyrauxifen-benzyl degradate Acid X11438848 in Surface Water (Fresh Water)

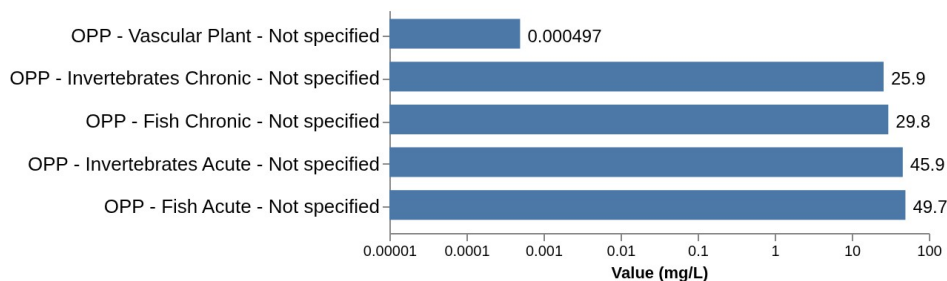


Table 470: Benchmark Values for Florpyrauxifen-benzyl degradate Des-Chloro- XDE-848 BE ester X12131932 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-9	OPP	Freshwater Invertebrates Acute	Not specified	0.49	22
000000-38-9	OPP	Freshwater Fish Acute	Not specified	0.50	22

Benchmark Values for Florpyrauxifen-benzyl degradate Des-Chloro- XDE-848 BE ester X12131932 in Surface Water (Fresh Water)

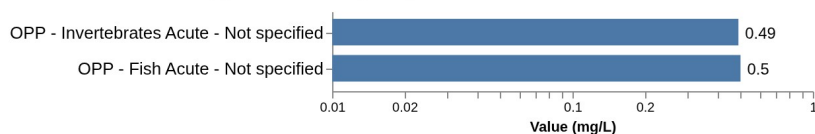


Table 471: Benchmark Values for Florpyrauxifen-benzyl degradate Des-Chloro-Acid X12393505 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-0	OPP	Freshwater Fish Acute	Not specified	45.0	22
000000-40-0	OPP	Freshwater Invertebrates Acute	Not specified	55.0	22

Benchmark Values for Florpyrauxifen-benzyl degradate Des-Chloro-Acid X12393505 in Surface Water (Fresh Water)

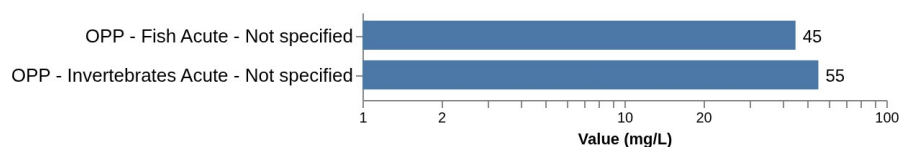


Table 472: Benchmark Values for Florpyrauxifen-benzyl degradate Hydroxy Acid X1196341 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-1	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22
000000-40-1	OPP	Freshwater Fish Acute	Not specified	60.0	22

Benchmark Values for Florpyrauxifen-benzyl degradate Hydroxy Acid X1196341 in Surface Water (Fresh Water)

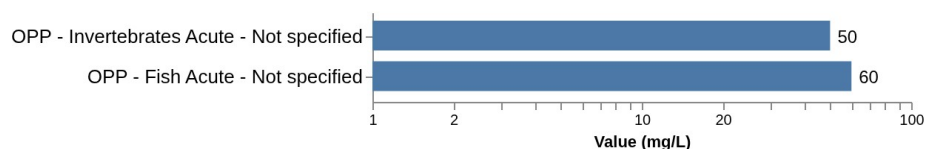


Table 473: Benchmark Values for Florpyrauxifen-benzyl degradate Nitro-Hydroxy Acid X12483137 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-2	OPP	Freshwater Fish Acute	Not specified	4.8	22
000000-40-2	OPP	Freshwater Invertebrates Acute	Not specified	5.0	22

Benchmark Values for Florpyrauxifen-benzyl degradate Nitro-Hydroxy Acid X12483137 in Surface Water (Fresh Water)

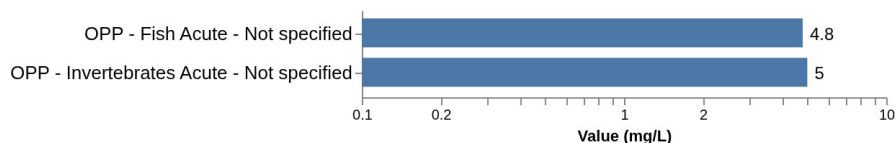


Table 474: Benchmark Values for Fluazifop-p-butyl degradate 5-(trifluoromethyl)-2(1H)-pyridinone (R154719) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
33252-63-0	OPP	Freshwater Fish Acute	Not specified	120.0
33252-63-0	OPP	Freshwater Invertebrates Acute	Not specified	333.0
33252-63-0	OPP	Freshwater Nonvascular Plant	Not specified	340.0

Benchmark Values for Fluazifop-p-butyl degradate 5-(trifluoromethyl)-2(1H)-pyridinone (R154719) in Surface Water (Fresh Water)

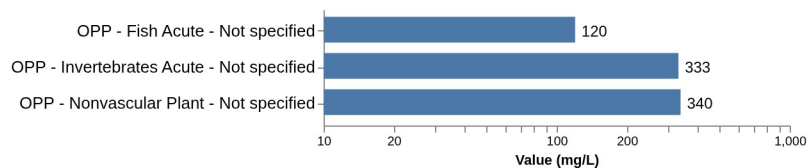


Table 475: Benchmark Values for Fluazifop-p-butyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
79241-46-6	OPP	Freshwater Fish Chronic	Not specified	0.203
79241-46-6	OPP	Freshwater Fish Acute	Not specified	0.225
79241-46-6	OPP	Freshwater Invertebrates Acute	Not specified	2.570

Benchmark Values for Fluazifop-p-butyl in Surface Water (Fresh Water)

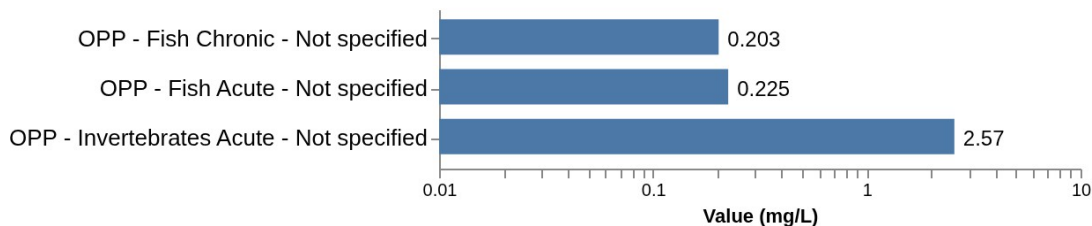


Table 476: Benchmark Values for Fluazinam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
79622-59-6	OPP	Freshwater Fish Chronic	Not specified	0.00069
79622-59-6	OPP	Freshwater Nonvascular Plant	Not specified	0.00110
79622-59-6	OPP	Freshwater Fish Acute	Not specified	0.01800
79622-59-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.06800
79622-59-6	OPP	Freshwater Invertebrates Acute	Not specified	0.09000

Benchmark Values for Fluazinam in Surface Water (Fresh Water)

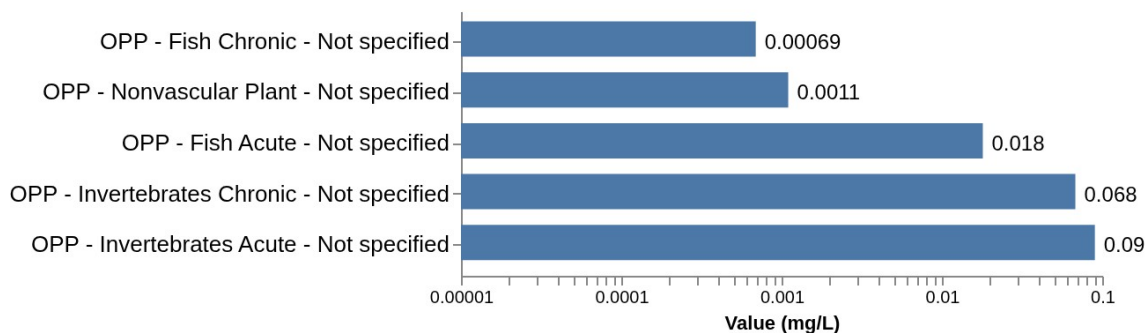


Table 477: Benchmark Values for Flubendiamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
272451-65-7	OPP	Freshwater Invertebrates Acute	Not specified	0.02740	22
272451-65-7	OPP	Freshwater Fish Acute	Not specified	0.03255	22
272451-65-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.04110	
272451-65-7	OPP	Freshwater Vascular Plant	Not specified	0.05460	22
272451-65-7	OPP	Freshwater Fish Chronic	Not specified	0.06050	
272451-65-7	OPP	Freshwater Nonvascular Plant	Not specified	0.06930	22

Benchmark Values for Flubendiamide in Surface Water (Fresh Water)

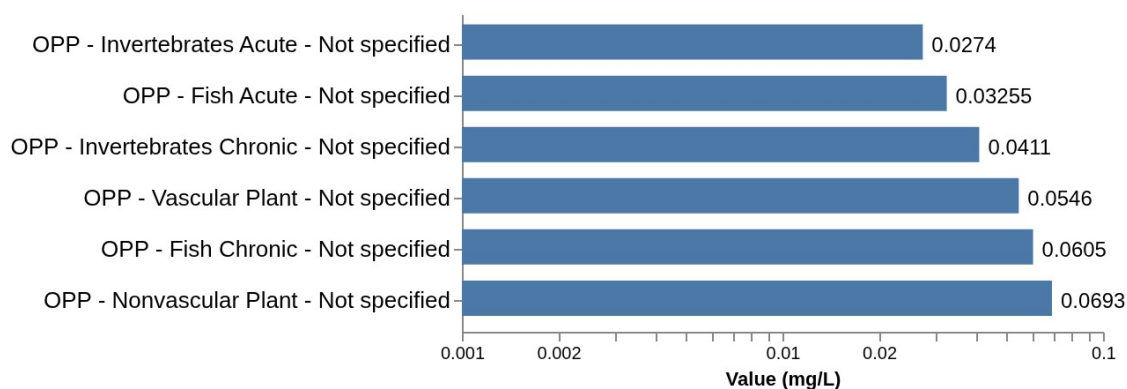


Table 478: Benchmark Values for Fludioxonil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
131341-86-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.014
131341-86-1	OPP	Freshwater Fish Chronic	Not specified	0.018
131341-86-1	OPP	Freshwater Fish Acute	Not specified	0.235
131341-86-1	OPP	Freshwater Nonvascular Plant	Not specified	0.280
131341-86-1	OPP	Freshwater Invertebrates Acute	Not specified	0.450
131341-86-1	OPP	Freshwater Vascular Plant	Not specified	0.630

Benchmark Values for Fludioxonil in Surface Water (Fresh Water)

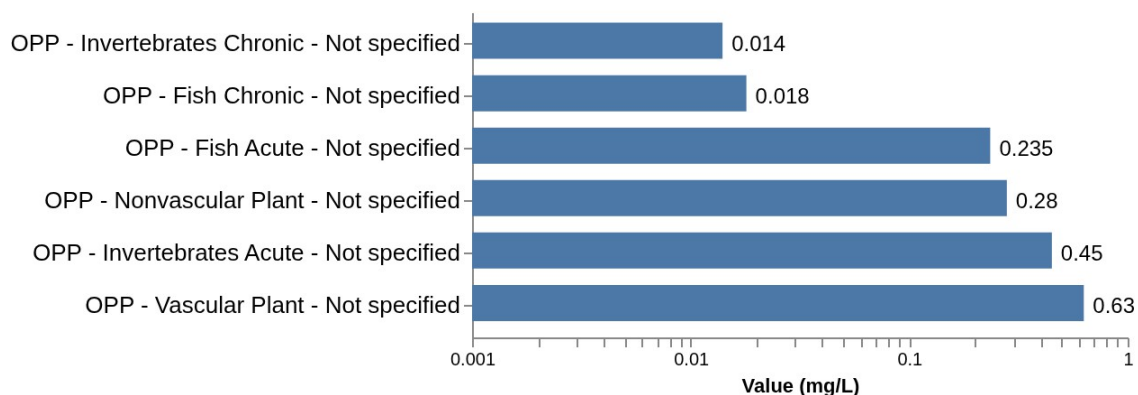
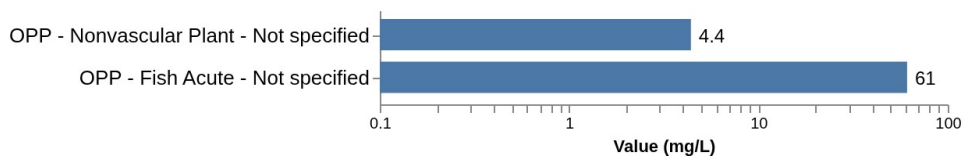
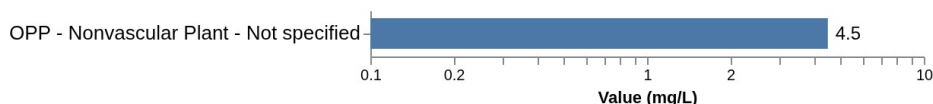


Table 479: Benchmark Values for Fluensulfone degradate Butene Sulfonic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-3	OPP	Freshwater Nonvascular Plant	Not specified	4.4	22
000000-40-3	OPP	Freshwater Fish Acute	Not specified	61.0	22

Benchmark Values for Fluensulfone degradate Butene Sulfonic Acid in Surface Water (Fresh Water)**Table 480: Benchmark Values for Fluensulfone degradate Deschloro-Fluensulfone in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-47-0	OPP	Freshwater Nonvascular Plant	Not specified	4.5	22

Benchmark Values for Fluensulfone degradate Deschloro-Fluensulfone in Surface Water (Fresh Water)**Table 481: Benchmark Values for Fluensulfone in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
318290-98-1	OPP	Freshwater Nonvascular Plant	Not specified	0.022
318290-98-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.200
318290-98-1	OPP	Freshwater Fish Chronic	Not specified	0.630
318290-98-1	OPP	Freshwater Vascular Plant	Not specified	2.700
318290-98-1	OPP	Freshwater Fish Acute	Not specified	6.500
318290-98-1	OPP	Freshwater Invertebrates Acute	Not specified	11.000

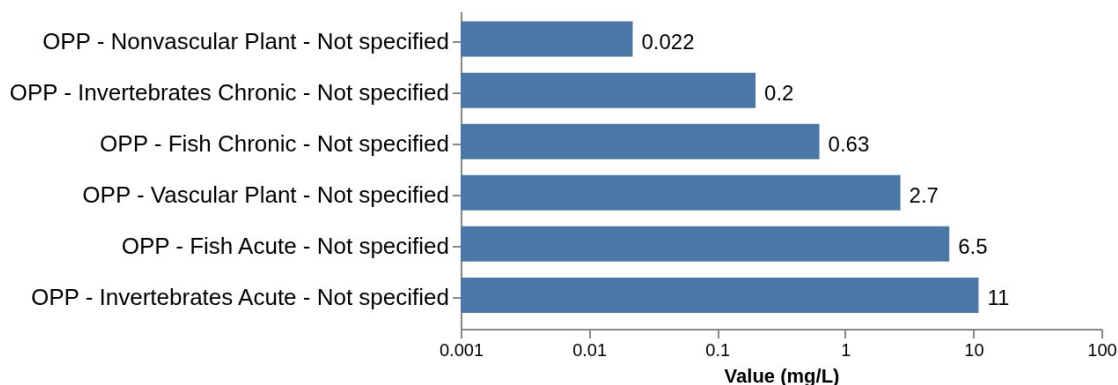
Benchmark Values for Fluensulfone in Surface Water (Fresh Water)

Table 482: Benchmark Values for Flufenacet (Thiaflumide) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
142459-58-3	OPP	Freshwater Vascular Plant	Not specified	0.00245
142459-58-3	OPP	Freshwater Nonvascular Plant	Not specified	0.00290
142459-58-3	OPP	Freshwater Fish Chronic	Not specified	0.07500
142459-58-3	OPP	Freshwater Fish Acute	Not specified	1.13000
142459-58-3	OPP	Freshwater Invertebrates Acute	Not specified	1.40000
142459-58-3	OPP	Freshwater Invertebrates Chronic	Not specified	6.30000

Benchmark Values for Flufenacet (Thiaflumide) in Surface Water (Fresh Water)

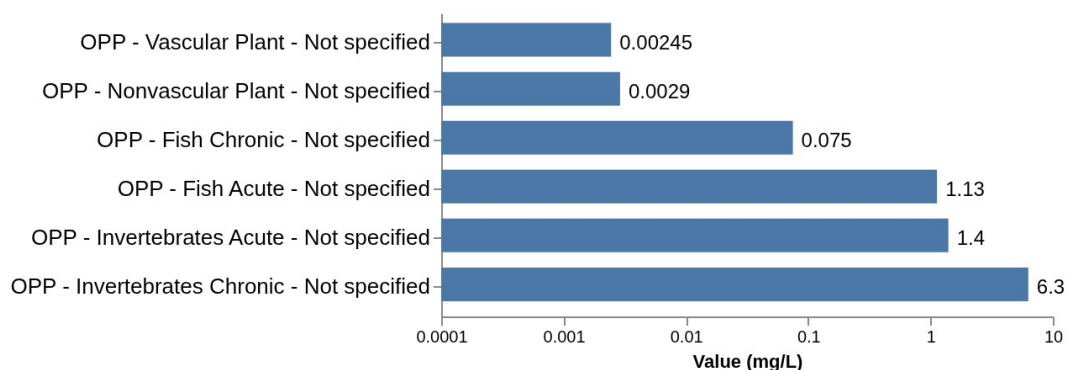


Table 483: Benchmark Values for Flufenacet degradate thiadone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
84352-75-0	OPP	Freshwater Fish Acute	Not specified	4.20
84352-75-0	OPP	Freshwater Nonvascular Plant	Not specified	6.40
84352-75-0	OPP	Freshwater Vascular Plant	Not specified	10.34
84352-75-0	OPP	Freshwater Invertebrates Acute	Not specified	15.85

Benchmark Values for Flufenacet degradate thiadone in Surface Water (Fresh Water)

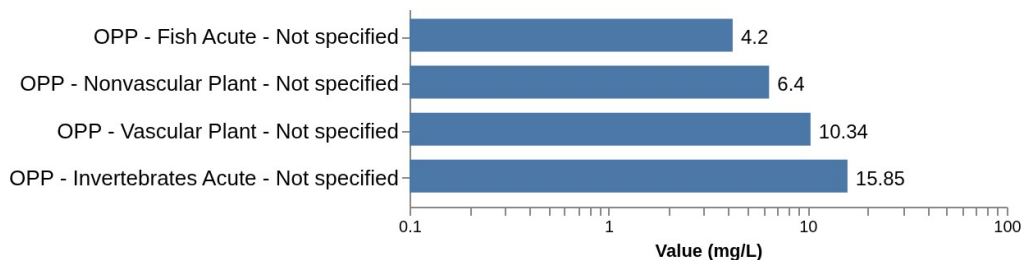


Table 484: Benchmark Values for Flumetsulam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98967-40-9	OPP	Freshwater Vascular Plant	Not specified	0.00310	
98967-40-9	OPP	Freshwater Nonvascular Plant	Not specified	0.00321	
98967-40-9	OPP	Freshwater Invertebrates Chronic	Not specified	111.00000	
98967-40-9	OPP	Freshwater Invertebrates Acute	Not specified	127.00000	
98967-40-9	OPP	Freshwater Fish Acute	Not specified	146.50000	22
98967-40-9	OPP	Freshwater Fish Chronic	Not specified	197.00000	

Benchmark Values for Flumetsulam in Surface Water (Fresh Water)

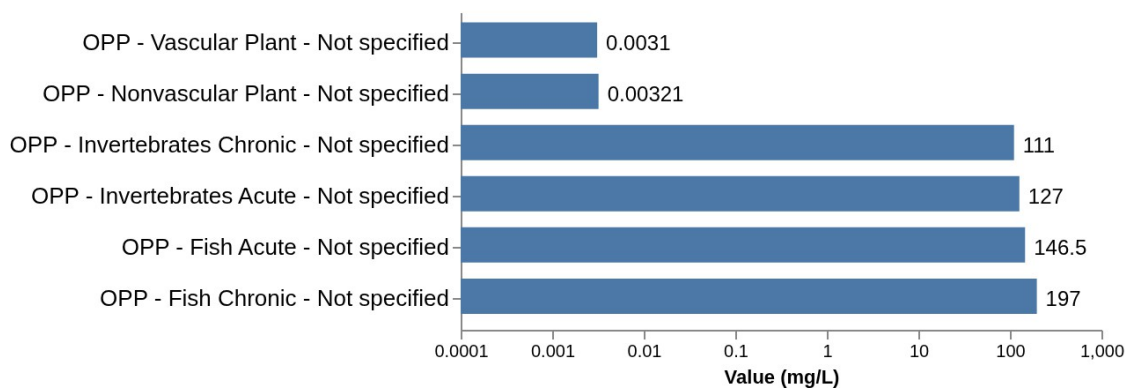


Table 485: Benchmark Values for Flumiclorac pentyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87546-18-7	OPP	Freshwater Nonvascular Plant	Not specified	0.0350	22
87546-18-7	OPP	Freshwater Vascular Plant	Not specified	0.0350	22
87546-18-7	OPP	Freshwater Invertebrates Acute	Not specified	0.0945	22
87546-18-7	OPP	Freshwater Fish Acute	Not specified	0.5500	
87546-18-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.6700	

Benchmark Values for Flumiclorac pentyl in Surface Water (Fresh Water)

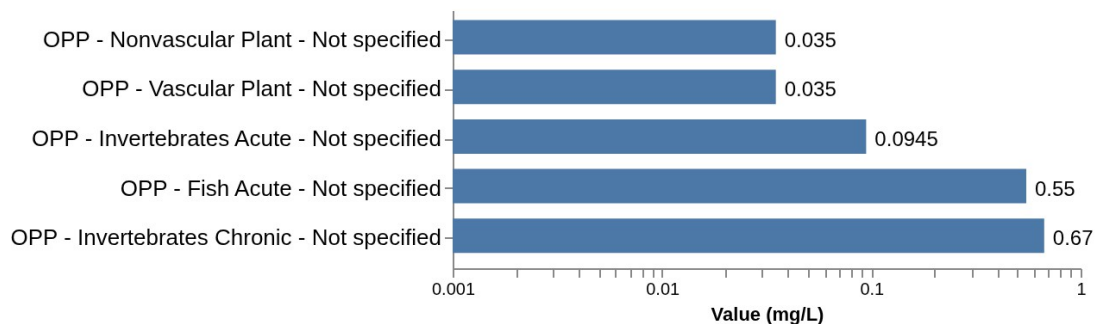


Table 486: Benchmark Values for Flumiclorac-pentyl degradate Flumiclorac acid (IMCA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87547-04-4	OPP	Freshwater Nonvascular Plant	Not specified	0.035	22
87547-04-4	OPP	Freshwater Vascular Plant	Not specified	0.035	22
87547-04-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.670	

Benchmark Values for Flumiclorac-pentyl degradate Flumiclorac acid (IMCA) in Surface Water (Fresh Water)

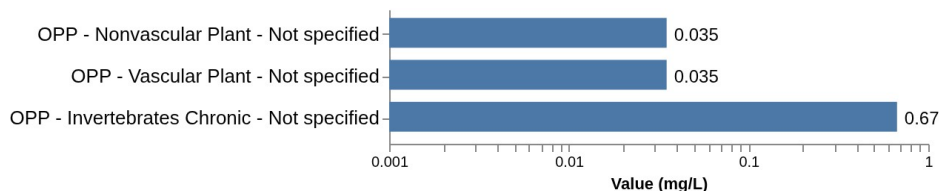


Table 487: Benchmark Values for Flumioxazin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
103361-09-7	OPP	Freshwater Vascular Plant	Not specified	0.00049
103361-09-7	OPP	Freshwater Nonvascular Plant	Not specified	0.00083
103361-09-7	OPP	Freshwater Fish Chronic	Not specified	0.00770
103361-09-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.02800
103361-09-7	OPP	Freshwater Fish Acute	Not specified	1.15000
103361-09-7	OPP	Freshwater Invertebrates Acute	Not specified	2.75000

Benchmark Values for Flumioxazin in Surface Water (Fresh Water)

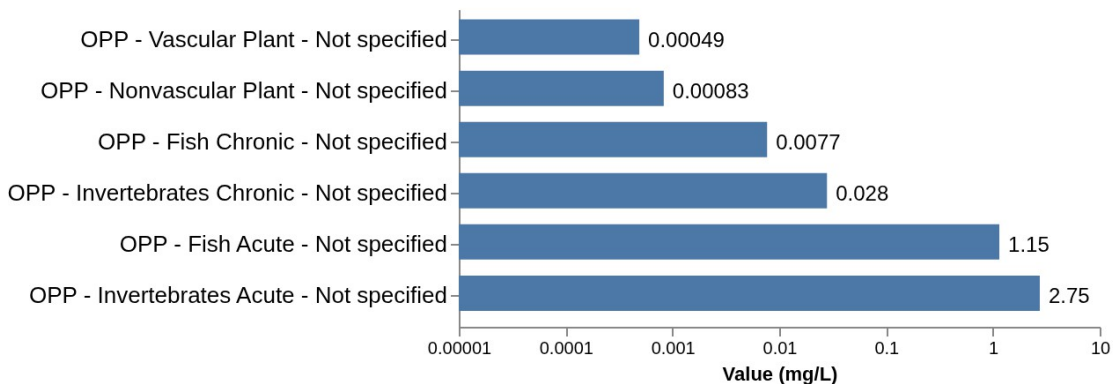


Table 488: Benchmark Values for Fluometuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2164-17-2	OPP	Freshwater Nonvascular Plant	Not specified	0.030
2164-17-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.038
2164-17-2	OPP	Freshwater Invertebrates Acute	Not specified	0.110
2164-17-2	OPP	Freshwater Fish Chronic	Not specified	0.140
2164-17-2	OPP	Freshwater Vascular Plant	Not specified	0.220
2164-17-2	OPP	Freshwater Fish Acute	Not specified	1.480

Benchmark Values for Fluometuron in Surface Water (Fresh Water)

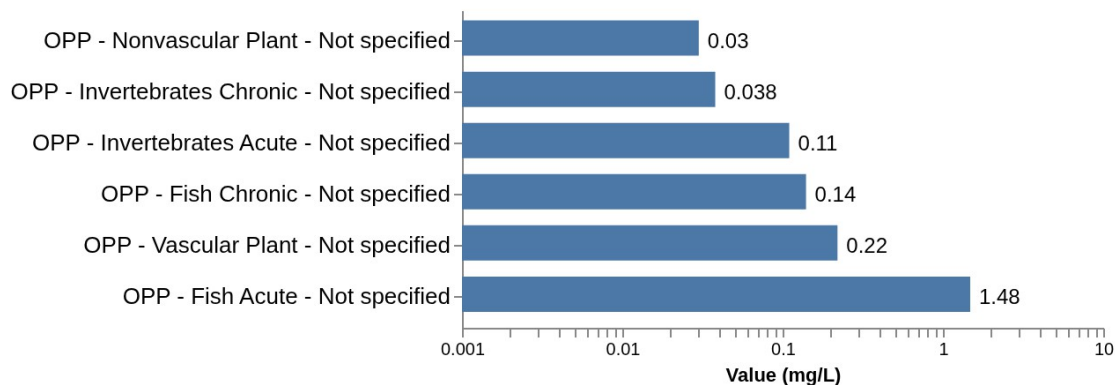


Table 489: Benchmark Values for Fluopicolide degradate—3-chloro-5-trifluoromethylpyridine-2-carboxylic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-46-9	OPP	Freshwater Fish Acute	Not specified	51.0

Benchmark Values for Fluopicolide degradate- 3-chloro-5-trifluoromethylpyridine-2-carboxylic acid in Surface Water (Fresh Water)

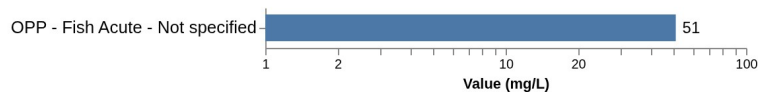


Table 490: Benchmark Values for Fluopicolide degradate– BAM in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–40–5	OPP	Freshwater Nonvascular Plant	Not specified	10.00
000000–40–5	OPP	Freshwater Fish Chronic	Not specified	10.00
000000–40–5	OPP	Freshwater Invertebrates Acute	Not specified	92.05
000000–40–5	OPP	Freshwater Fish Acute	Not specified	123.00
000000–40–5	OPP	Freshwater Invertebrates Chronic	Not specified	320.00

Benchmark Values for Fluopicolide degradate- BAM in Surface Water (Fresh Water)

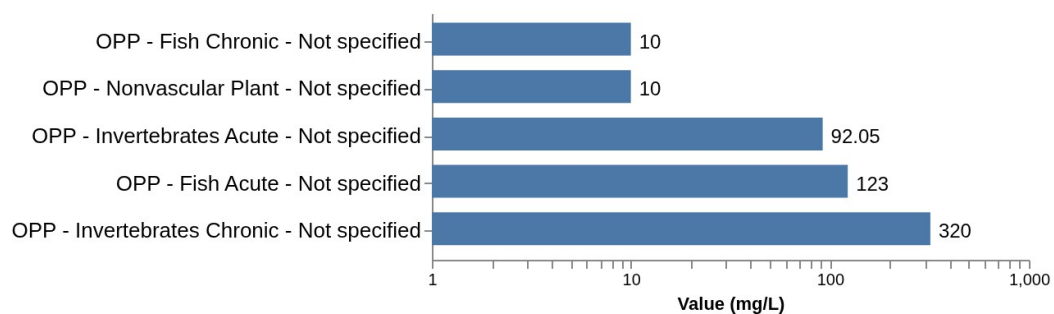


Table 491: Benchmark Values for Fluopicolide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
239110–15–7	OPP	Freshwater Fish Chronic	Not specified	0.1510	
239110–15–7	OPP	Freshwater Fish Acute	Not specified	0.1745	
239110–15–7	OPP	Freshwater Invertebrates Chronic	Not specified	0.1900	
239110–15–7	OPP	Freshwater Invertebrates Acute	Not specified	0.8500	22
239110–15–7	OPP	Freshwater Nonvascular Plant	Not specified	2.6000	22
239110–15–7	OPP	Freshwater Vascular Plant	Not specified	3.2000	22

Benchmark Values for Fluopicolide in Surface Water (Fresh Water)

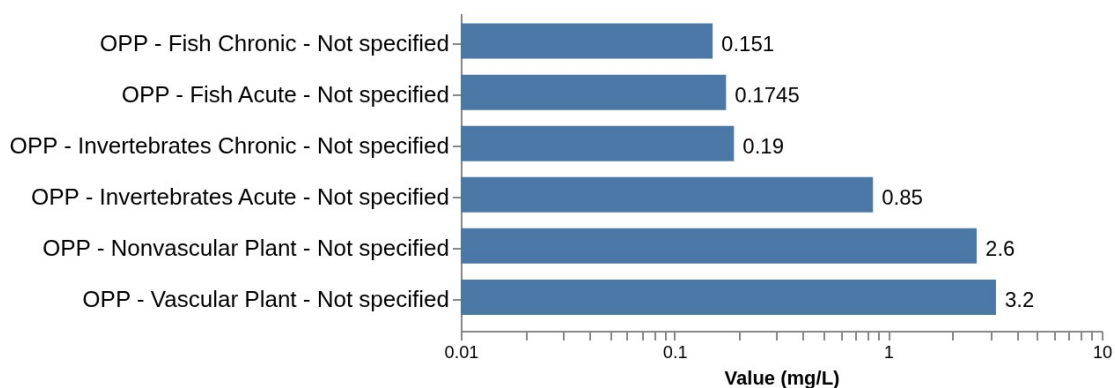


Table 492: Benchmark Values for Fluoranthene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
206-44-0	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00100	83, 89, 97
206-44-0	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00140	83, 97
206-44-0	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00170	83, 97
206-44-0	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00200	83, 97
206-44-0	British Columbia	Freshwater LTC	Not specified	0.00400	
206-44-0	California	Freshwater acute toxicity	Not specified	3.98000	
206-44-0	Canada	Freshwater Long Term	Not specified	0.00004	
206-44-0	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.00810	
206-44-0	EPA Region 3	BTAG – Freshwater	Not specified	0.00004	
206-44-0	EPA Region 4	Chronic Freshwater	Not specified	0.00080	7
206-44-0	EPA Region 4	Acute Freshwater	Not specified	0.00370	7
206-44-0	EPA Region 6	Freshwater Chronic	Not specified	0.00616	
206-44-0	EPA Region 6	Freshwater Acute	Not specified	0.03360	
206-44-0	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.37000	

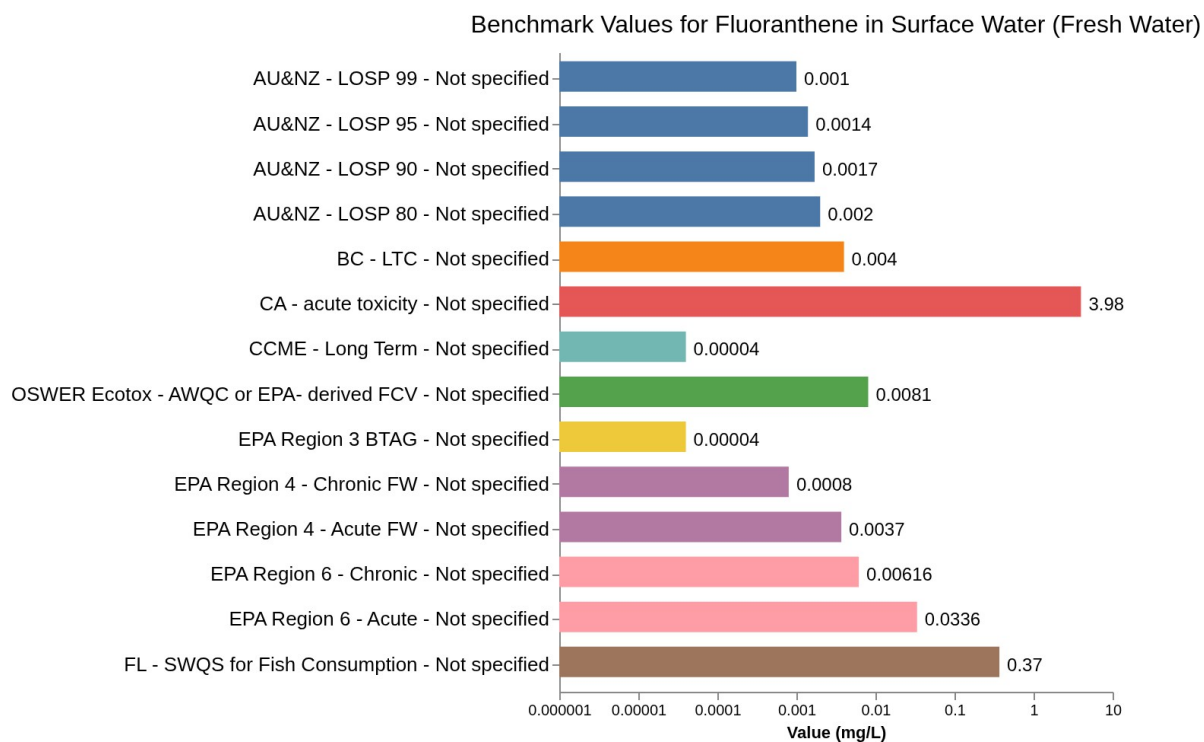


Table 493: Benchmark Values for Fluorene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-73-7	British Columbia	Freshwater LTC	Not specified	0.0120
86-73-7	Canada	Freshwater Long Term	Not specified	0.0030
86-73-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0039
86-73-7	EPA Region 3	BTAG – Freshwater	Not specified	0.0030
86-73-7	EPA Region 4	Chronic Freshwater	Not specified	0.0190
86-73-7	EPA Region 4	Acute Freshwater	Not specified	0.1100
86-73-7	EPA Region 6	Freshwater Chronic	Not specified	0.0020
86-73-7	EPA Region 6	Freshwater Acute	Not specified	0.0640
86-73-7	Florida	SWQS for Fish Consumption Freshwater	Not specified	14.0000

Benchmark Values for Fluorene in Surface Water (Fresh Water)

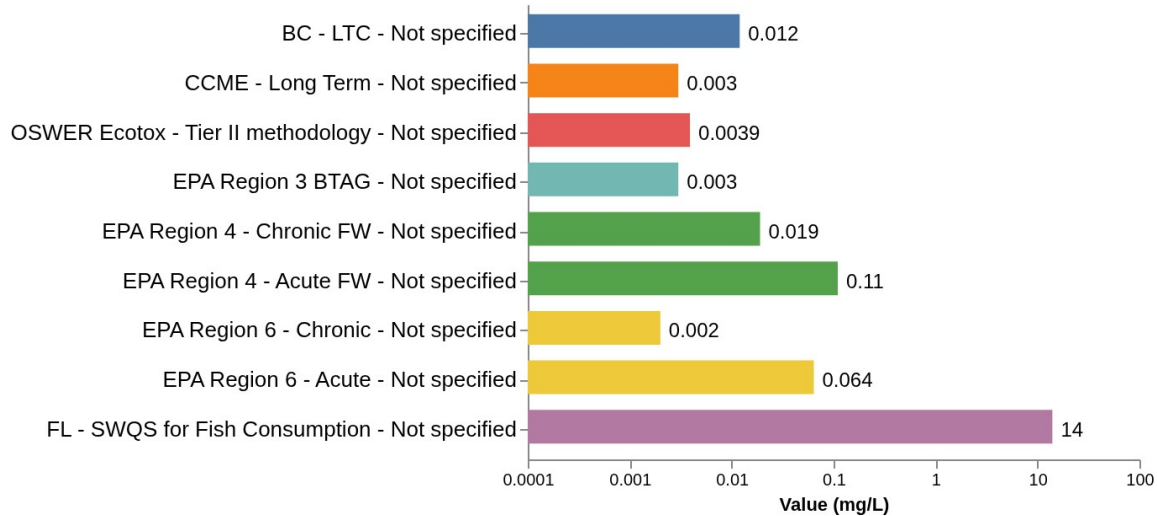


Table 494: Benchmark Values for Fluoride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16984-48-8	British Columbia	Freshwater STA	Not specified	0.4000	116
16984-48-8	Canada	Freshwater Long Term	Not specified	0.1200	
16984-48-8	EPA Region 3	BTAG – Freshwater	Not specified	2.1194	
16984-48-8	EPA Region 4	Chronic Freshwater	Not specified	2.7000	
16984-48-8	EPA Region 4	Acute Freshwater	Not specified	9.8000	
16984-48-8	EPA Region 6	Freshwater Chronic	Not specified	1.9400	
16984-48-8	Florida	SWQS for Fish Consumption Freshwater	Not specified	10.0000	

Benchmark Values for Fluoride in Surface Water (Fresh Water)

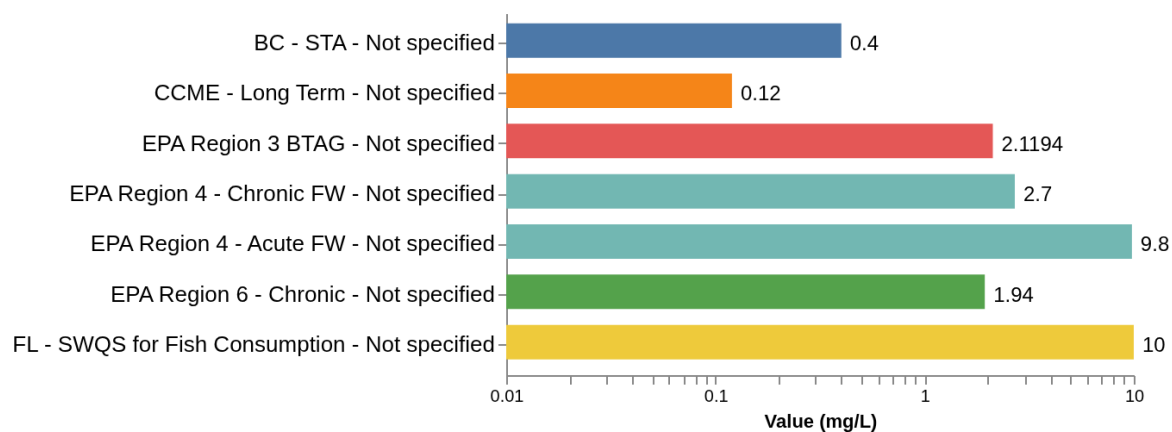


Table 495: Benchmark Values for Fluorine (Soluble Fluoride) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7782-41-4	EPA Region 3	BTAG – Freshwater	Not specified	1.08

Benchmark Values for Fluorine (Soluble Fluoride) in Surface Water (Fresh Water)

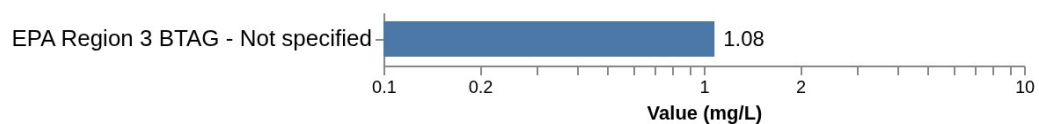


Table 496: Benchmark Values for Fluoxastrobin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
361377-29-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0450
361377-29-9	OPP	Freshwater Fish Chronic	Not specified	0.0557
361377-29-9	OPP	Freshwater Invertebrates Acute	Not specified	0.0600
361377-29-9	OPP	Freshwater Fish Acute	Not specified	0.2175
361377-29-9	OPP	Freshwater Nonvascular Plant	Not specified	0.2600
361377-29-9	OPP	Freshwater Vascular Plant	Not specified	1.2000

Benchmark Values for Fluoxastrobin in Surface Water (Fresh Water)

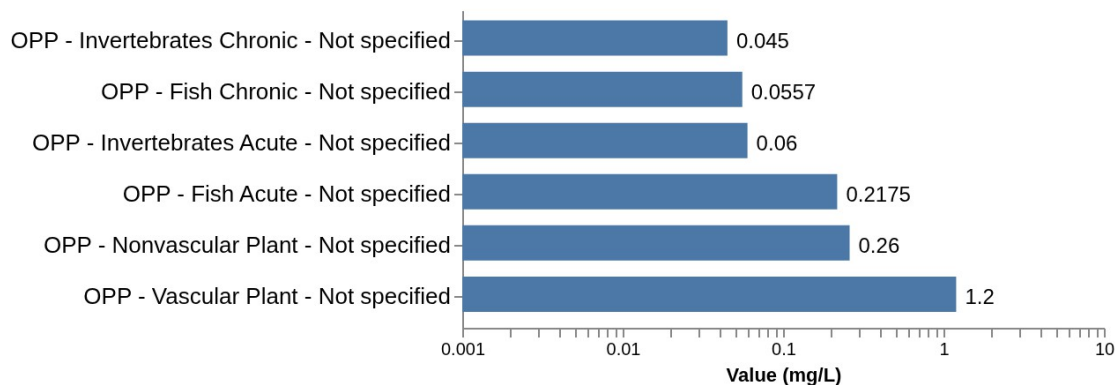


Table 497: Benchmark Values for Fluridone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
59756-60-4	OPP	Freshwater Fish Chronic	Not specified	0.48
59756-60-4	OPP	Freshwater Fish Acute	Not specified	2.55
59756-60-4	OPP	Freshwater Invertebrates Acute	Not specified	2.60

Benchmark Values for Fluridone in Surface Water (Fresh Water)

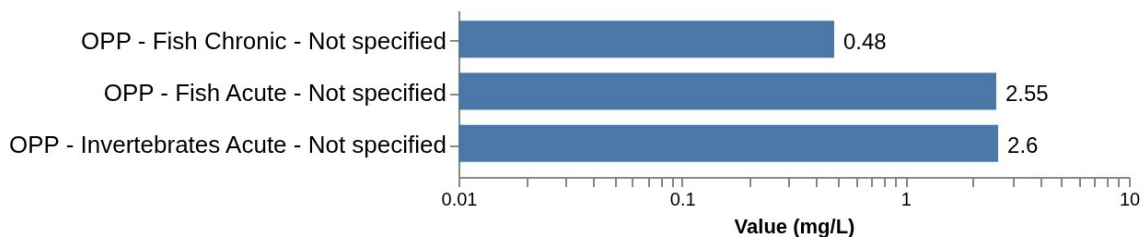


Table 498: Benchmark Values for Fluroxypyr acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
69377-81-7	OPP	Freshwater Fish Chronic	Not specified	3.00	
69377-81-7	OPP	Freshwater Fish Acute	Not specified	7.15	
69377-81-7	OPP	Freshwater Invertebrates Acute	Not specified	50.00	22
69377-81-7	OPP	Freshwater Nonvascular Plant	Not specified	100.00	22

Benchmark Values for Fluroxypyr acid in Surface Water (Fresh Water)

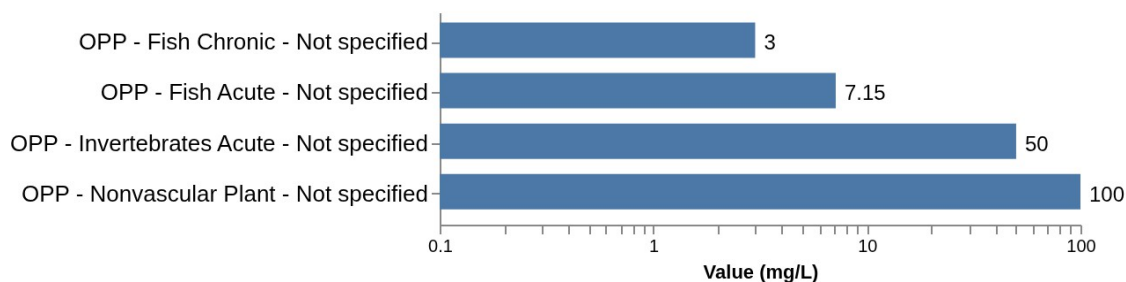


Table 499: Benchmark Values for Fluroxypyr in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
81406-37-3	OPP	Freshwater Nonvascular Plant	Not specified	0.0560	
81406-37-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.0605	
81406-37-3	OPP	Freshwater Invertebrates Acute	Not specified	0.3000	22
81406-37-3	OPP	Freshwater Fish Acute	Not specified	0.3150	22
81406-37-3	OPP	Freshwater Vascular Plant	Not specified	1.4000	

Benchmark Values for Fluroxypyr in Surface Water (Fresh Water)

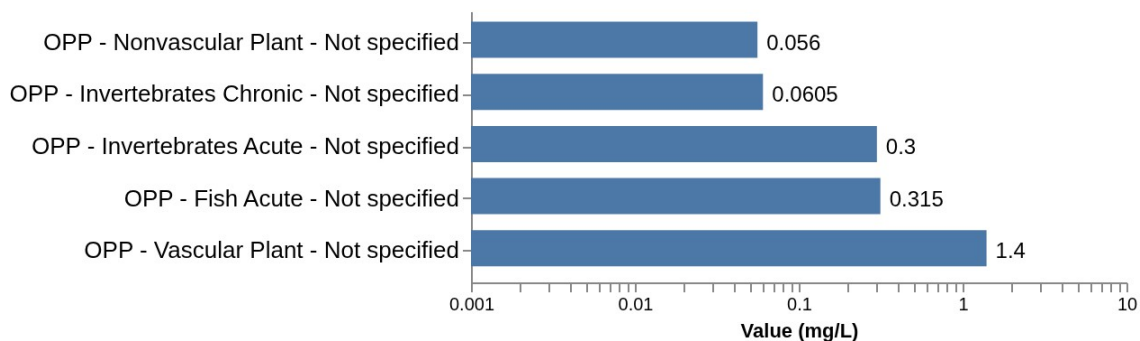


Table 500: Benchmark Values for Flurprimidol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
56425-91-3	OPP	Freshwater Vascular Plant	Not specified	0.0085
56425-91-3	OPP	Freshwater Nonvascular Plant	Not specified	0.8400
56425-91-3	OPP	Freshwater Fish Chronic	Not specified	0.9390
56425-91-3	OPP	Freshwater Invertebrates Chronic	Not specified	2.9500
56425-91-3	OPP	Freshwater Invertebrates Acute	Not specified	5.9000
56425-91-3	OPP	Freshwater Fish Acute	Not specified	8.6000

Benchmark Values for Flurprimidol in Surface Water (Fresh Water)

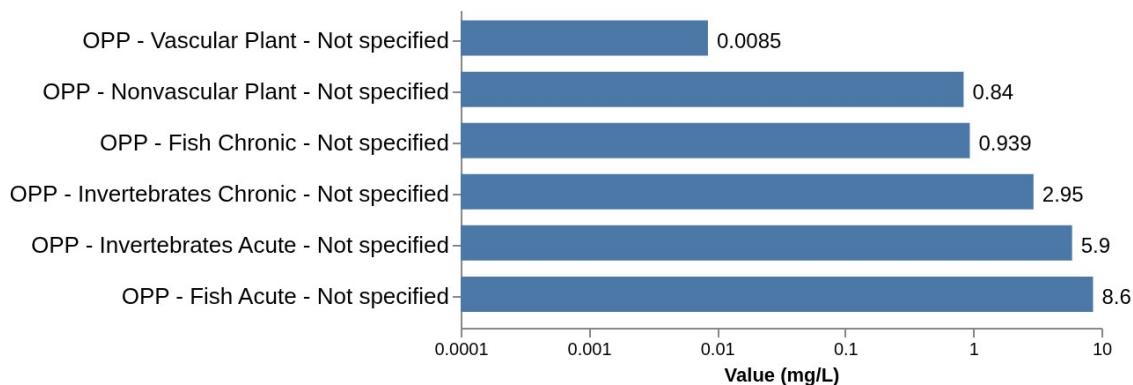


Table 501: Benchmark Values for Flutianil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
958647-10-4	OPP	Freshwater Fish Chronic	Not specified	0.00224	
958647-10-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.00710	
958647-10-4	OPP	Freshwater Nonvascular Plant	Not specified	0.12000	
958647-10-4	OPP	Freshwater Vascular Plant	Not specified	0.21400	22
958647-10-4	OPP	Freshwater Fish Acute	Not specified	0.39500	22
958647-10-4	OPP	Freshwater Invertebrates Acute	Not specified	0.47500	22

Benchmark Values for Flutianil in Surface Water (Fresh Water)

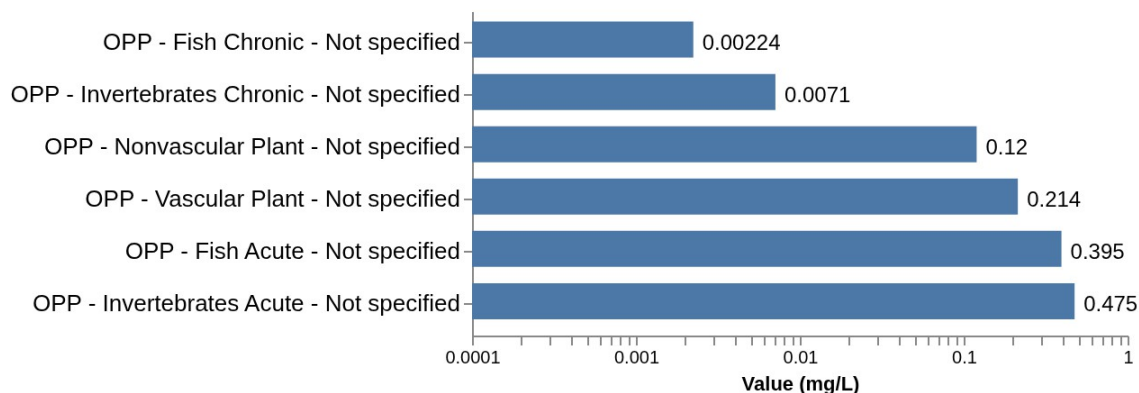


Table 502: Benchmark Values for Flutolanil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
66332-96-5	OPP	Freshwater Fish Chronic	Not specified	0.22	
66332-96-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.53	
66332-96-5	OPP	Freshwater Nonvascular Plant	Not specified	0.80	22
66332-96-5	OPP	Freshwater Fish Acute	Not specified	1.25	
66332-96-5	OPP	Freshwater Invertebrates Acute	Not specified	3.40	22
66332-96-5	OPP	Freshwater Vascular Plant	Not specified	8.01	22

Benchmark Values for Flutolanil in Surface Water (Fresh Water)

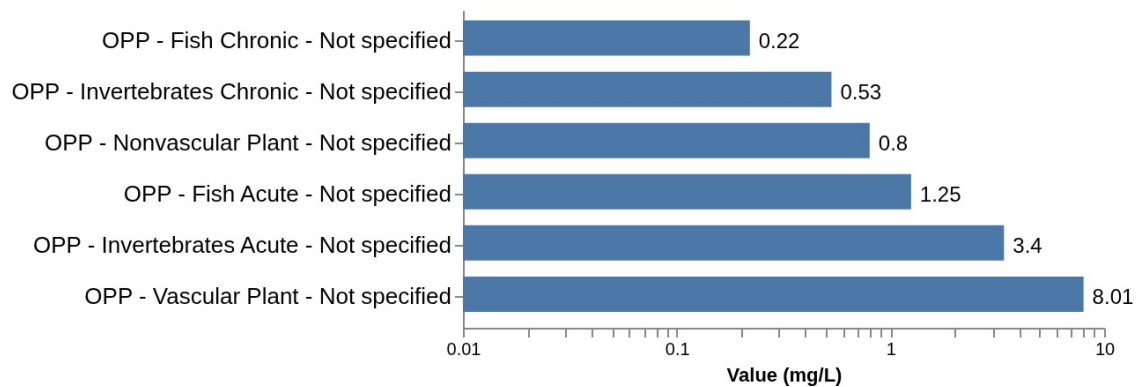


Table 503: Benchmark Values for Flutriafol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
76674-21-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.31
76674-21-0	OPP	Freshwater Nonvascular Plant	Not specified	0.46
76674-21-0	OPP	Freshwater Vascular Plant	Not specified	0.78
76674-21-0	OPP	Freshwater Fish Chronic	Not specified	4.80
76674-21-0	OPP	Freshwater Fish Acute	Not specified	16.50
76674-21-0	OPP	Freshwater Invertebrates Acute	Not specified	33.55

Benchmark Values for Flutriafol in Surface Water (Fresh Water)

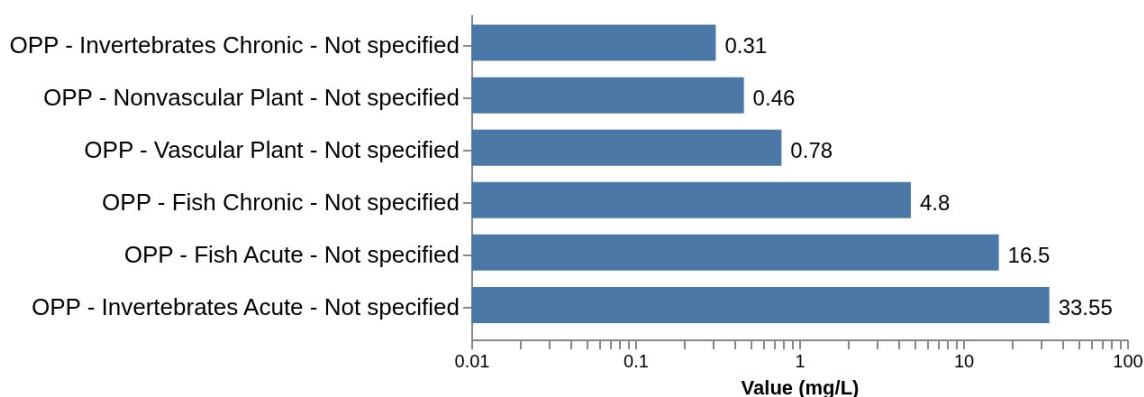


Table 504: Benchmark Values for Folpet in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
133-07-3	OPP	Freshwater Fish Acute	Not specified	0.0075	
133-07-3	OPP	Freshwater Fish Chronic	Not specified	0.0088	
133-07-3	OPP	Freshwater Invertebrates Acute	Not specified	0.0100	
133-07-3	OPP	Freshwater Nonvascular Plant	Not specified	0.0500	
133-07-3	OPP	Freshwater Vascular Plant	Not specified	3.7000	22

Benchmark Values for Folpet in Surface Water (Fresh Water)

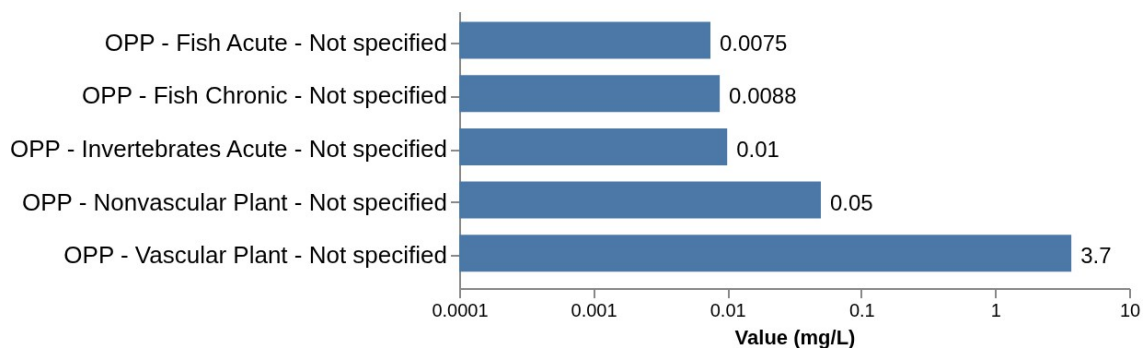


Table 505: Benchmark Values for Fomesafen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
72178-02-0	OPP	Freshwater Nonvascular Plant	Not specified	0.092
72178-02-0	OPP	Freshwater Vascular Plant	Not specified	0.210
72178-02-0	OPP	Freshwater Fish Chronic	Not specified	9.400
72178-02-0	OPP	Freshwater Invertebrates Chronic	Not specified	50.000
72178-02-0	OPP	Freshwater Fish Acute	Not specified	63.000
72178-02-0	OPP	Freshwater Invertebrates Acute	Not specified	188.000

Benchmark Values for Fomesafen in Surface Water (Fresh Water)

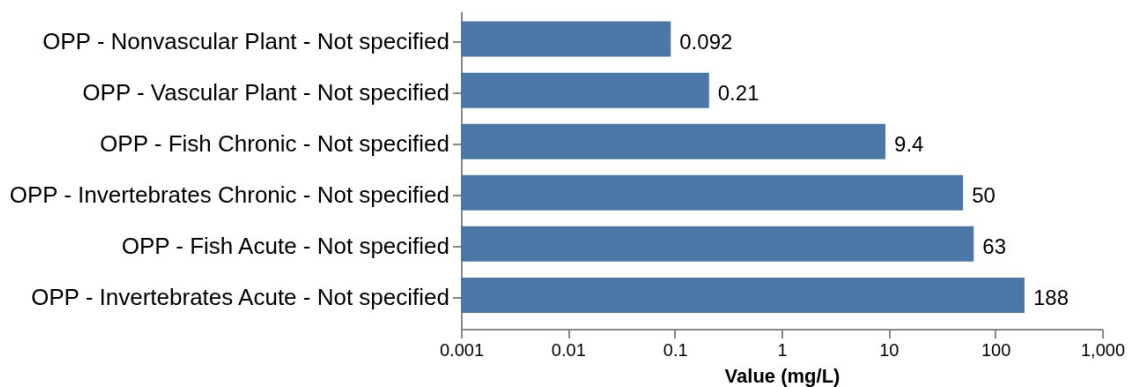


Table 506: Benchmark Values for Foramsulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
173159-57-4	OPP	Freshwater Vascular Plant	Not specified	0.00065	
173159-57-4	OPP	Freshwater Nonvascular Plant	Not specified	3.30000	
173159-57-4	OPP	Freshwater Fish Chronic	Not specified	10.50000	
173159-57-4	OPP	Freshwater Fish Acute	Not specified	50.00000	22
173159-57-4	OPP	Freshwater Invertebrates Acute	Not specified	51.25000	22
173159-57-4	OPP	Freshwater Invertebrates Chronic	Not specified	100.00000	

Benchmark Values for Foramsulfuron in Surface Water (Fresh Water)

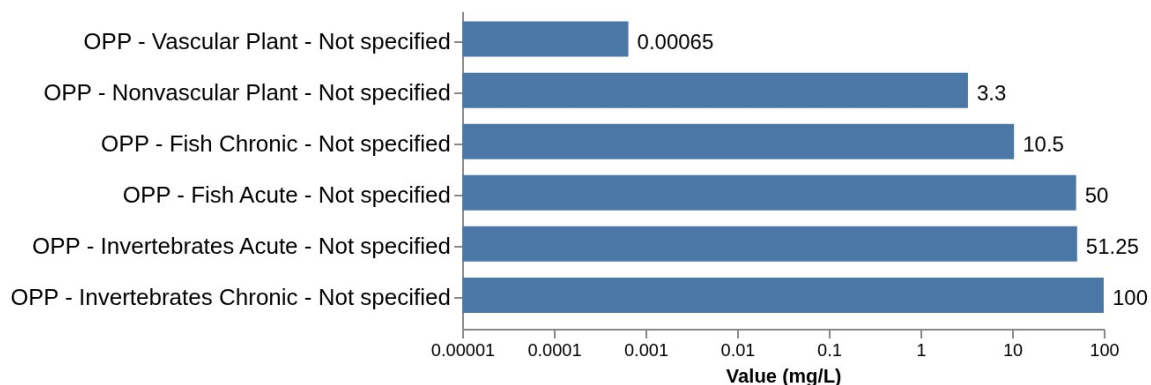


Table 507: Benchmark Values for Forchlorfenuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68157-60-8	OPP	Freshwater Nonvascular Plant	Not specified	0.016	22
68157-60-8	OPP	Freshwater Vascular Plant	Not specified	0.900	22
68157-60-8	OPP	Freshwater Invertebrates Acute	Not specified	2.650	
68157-60-8	OPP	Freshwater Fish Acute	Not specified	4.400	

Benchmark Values for Forchlorfenuron in Surface Water (Fresh Water)

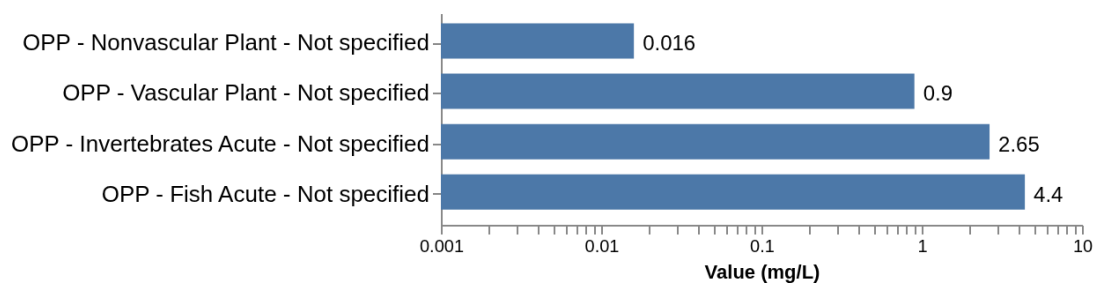


Table 508: Benchmark Values for Formaldehyde in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
50-00-0	EPA Region 4	Chronic Freshwater	Not specified	0.18
50-00-0	EPA Region 4	Acute Freshwater	Not specified	0.79

Benchmark Values for Chlorantraniliprole in Surface Water (Fresh Water)

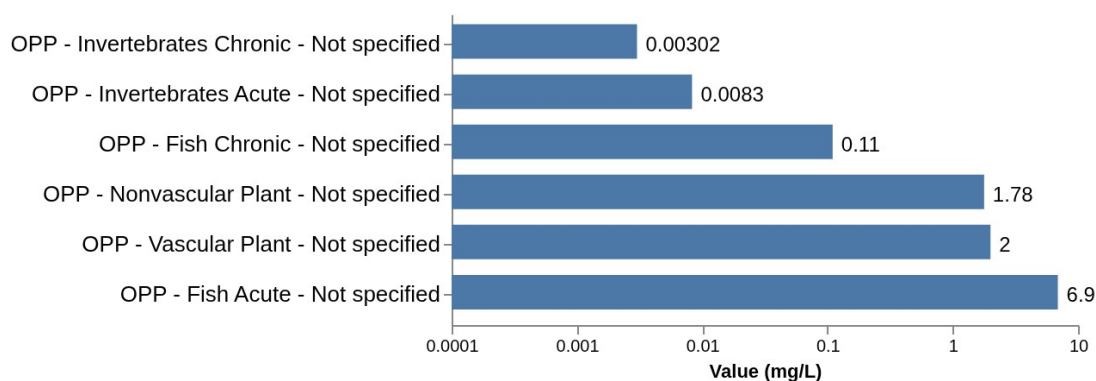


Table 509: Benchmark Values for Formetanate HC1 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
23422-53-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0005
23422-53-9	OPP	Freshwater Invertebrates Acute	Not specified	0.0450
23422-53-9	OPP	Freshwater Fish Chronic	Not specified	0.4800
23422-53-9	OPP	Freshwater Fish Acute	Not specified	1.3500

Benchmark Values for Formetanate HC1 in Surface Water (Fresh Water)

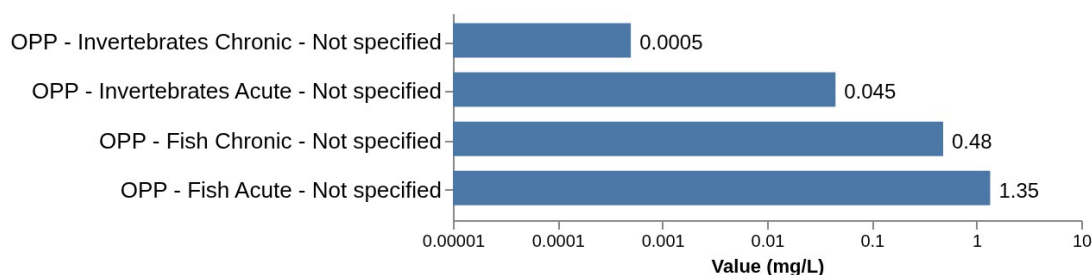


Table 510: Benchmark Values for Fosamine Ammonium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
25954-13-6	OPP	Freshwater Nonvascular Plant	Not specified	15.0	22
25954-13-6	OPP	Freshwater Vascular Plant	Not specified	21.0	22
25954-13-6	OPP	Freshwater Fish Acute	Not specified	188.5	
25954-13-6	OPP	Freshwater Invertebrates Acute	Not specified	762.0	

Benchmark Values for Fosamine Ammonium in Surface Water (Fresh Water)

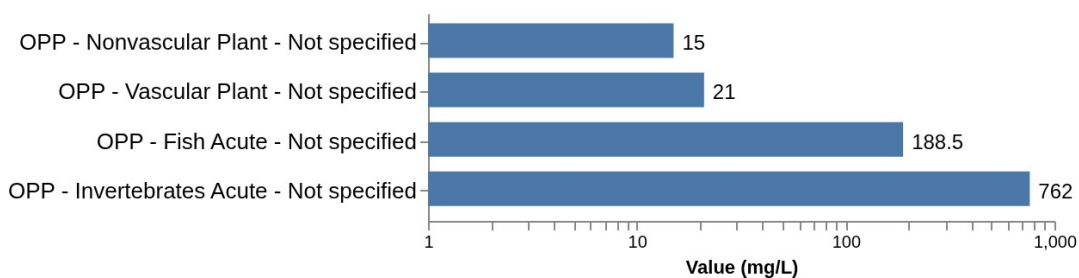


Table 511: Benchmark Values for Fosetyl-AL in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
39148-24-8	OPP	Freshwater Nonvascular Plant	Not specified	0.78
39148-24-8	OPP	Freshwater Fish Chronic	Not specified	8.00
39148-24-8	OPP	Freshwater Fish Acute	Not specified	41.70
39148-24-8	OPP	Freshwater Vascular Plant	Not specified	80.00
39148-24-8	OPP	Freshwater Invertebrates Acute	Not specified	152.00

Benchmark Values for Fosetyl-AL in Surface Water (Fresh Water)

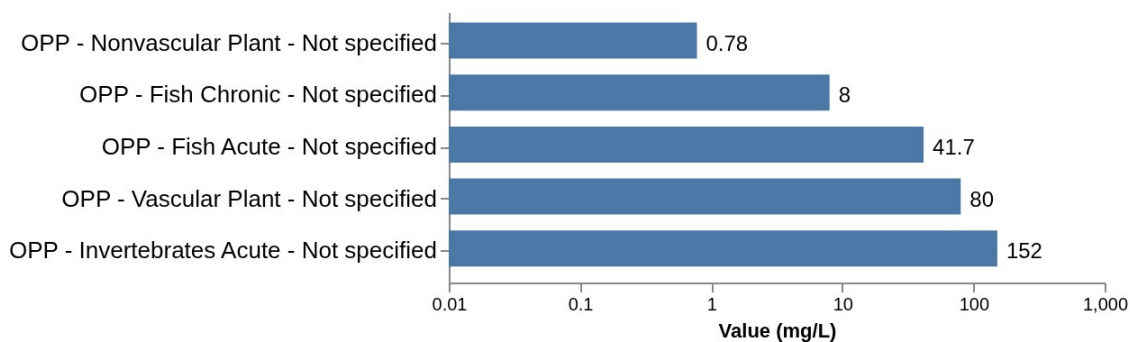


Table 512: Benchmark Values for Fosthiazate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98886-44-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.061	
98886-44-3	OPP	Freshwater Invertebrates Acute	Not specified	0.130	
98886-44-3	OPP	Freshwater Fish Chronic	Not specified	2.320	
98886-44-3	OPP	Freshwater Nonvascular Plant	Not specified	4.510	22
98886-44-3	OPP	Freshwater Fish Acute	Not specified	55.500	

Benchmark Values for Fosthiazate in Surface Water (Fresh Water)

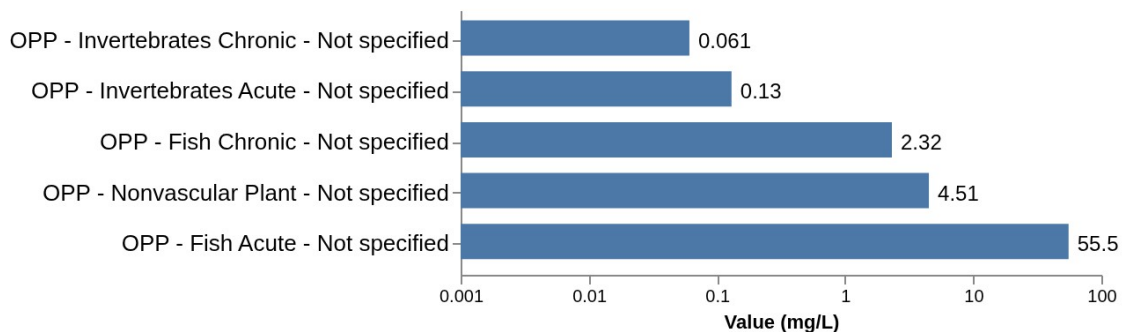


Table 513: Benchmark Values for Gamma Cyhalothrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76703-62-3	OPP	Freshwater Invertebrates Acute	Not specified	4.000000e-08	
76703-62-3	OPP	Freshwater Invertebrates Chronic	Not specified	1.930000e-06	
76703-62-3	OPP	Freshwater Fish Acute	Not specified	1.450000e-05	
76703-62-3	OPP	Freshwater Vascular Plant	Not specified	5.080000e-04	22
76703-62-3	OPP	Freshwater Nonvascular Plant	Not specified	3.100000e-01	22

Benchmark Values for Gamma Cyhalothrin in Surface Water (Fresh Water)

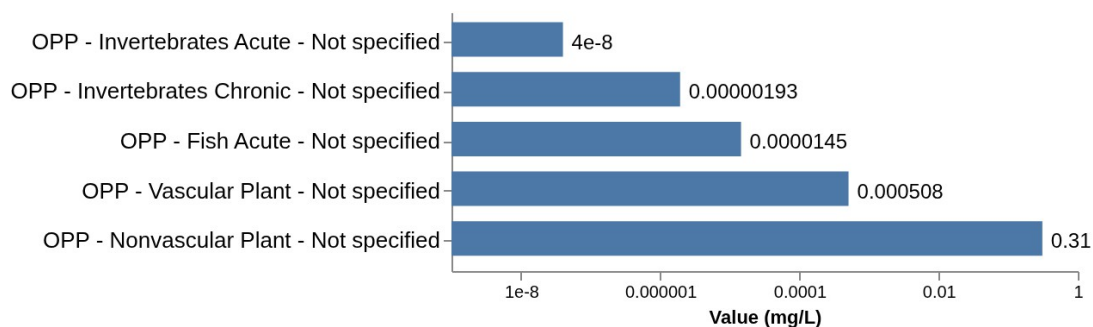


Table 514: Benchmark Values for Glufosinate degradate 2-methylphosphinico-acetic acid (MPA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-7	OPP	Freshwater Invertebrates Acute	Not specified	18.50	
000000-40-7	OPP	Freshwater Fish Acute	Not specified	49.45	22
000000-40-7	OPP	Freshwater Vascular Plant	Not specified	97.20	22
000000-40-7	OPP	Freshwater Nonvascular Plant	Not specified	357.00	22

Benchmark Values for Glufosinate degradate 2-methylphosphinico-acetic acid (MPA) in Surface Water (Fresh Water)

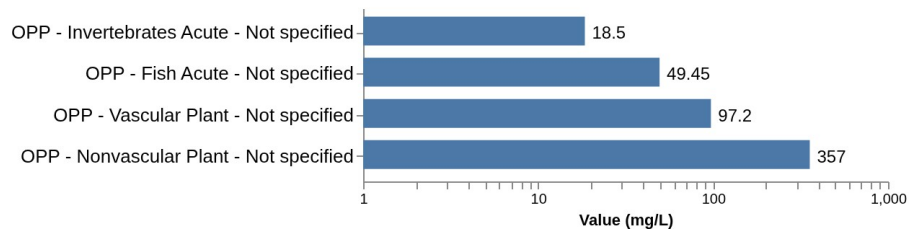


Table 515: Benchmark Values for Glufosinate degradate 3-methylphosphinicopropionic acid (MPP) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
15090-23-0	OPP	Freshwater Invertebrates Chronic	Not specified	6.43	23
15090-23-0	OPP	Freshwater Invertebrates Acute	Not specified	21.00	
15090-23-0	OPP	Freshwater Fish Chronic	Not specified	26.00	
15090-23-0	OPP	Freshwater Fish Acute	Not specified	50.00	22
15090-23-0	OPP	Freshwater Vascular Plant	Not specified	103.00	22
15090-23-0	OPP	Freshwater Nonvascular Plant	Not specified	1000.00	22

Benchmark Values for Glufosinate degradate 3-methylphosphinicopropionic acid (MPP) in Surface Water (Fresh Water)

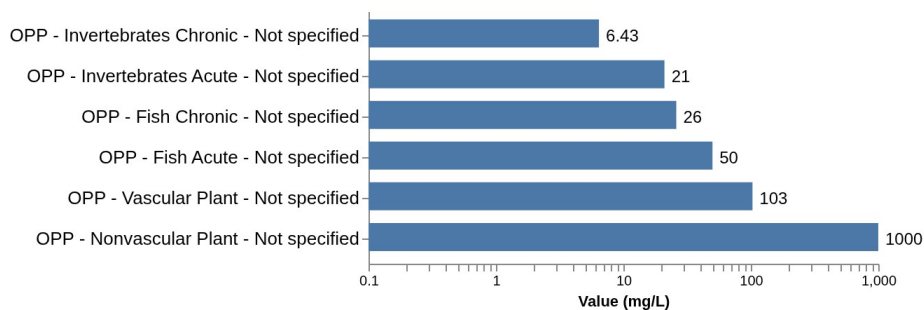


Table 516: Benchmark Values for Glufosinate degradate Methylphosphinico-formic acid (MPF) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-8	OPP	Freshwater Invertebrates Acute	Not specified	49.1	22
000000-40-8	OPP	Freshwater Fish Acute	Not specified	51.0	22
000000-40-8	OPP	Freshwater Nonvascular Plant	Not specified	94.8	22

Benchmark Values for Glufosinate degradate Methylphosphinico-formic acid (MPF) in Surface Water (Fresh Water)

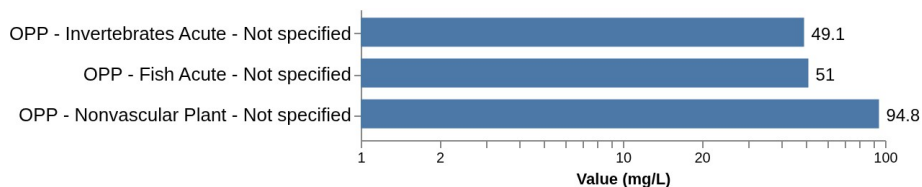


Table 517: Benchmark Values for Glufosinate, Ammonium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
77182-82-2	OPP	Freshwater Nonvascular Plant	Not specified	0.072	
77182-82-2	OPP	Freshwater Vascular Plant	Not specified	1.470	
77182-82-2	OPP	Freshwater Invertebrates Chronic	Not specified	31.000	
77182-82-2	OPP	Freshwater Fish Chronic	Not specified	50.000	
77182-82-2	OPP	Freshwater Fish Acute	Not specified	156.000	22
77182-82-2	OPP	Freshwater Invertebrates Acute	Not specified	325.500	

Benchmark Values for Glufosinate, Ammonium in Surface Water (Fresh Water)

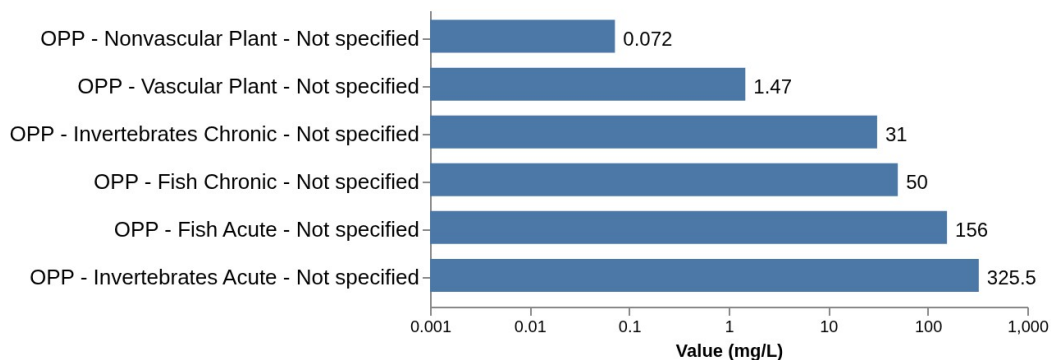


Table 518: Benchmark Values for Glyphosate isopropylamine salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
38641-94-0	OPP	Freshwater Fish Acute	Not specified	34.7

Benchmark Values for Glyphosate isopropylamine salt in Surface Water (Fresh Water)

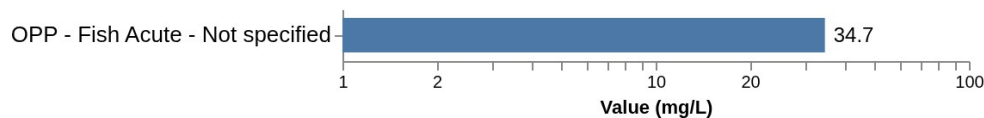


Table 519: Benchmark Values for Glyphosate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1071-83-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.18	85, 108
1071-83-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.32	85, 89, 108
1071-83-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.46	85, 108
1071-83-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.76	85, 108
1071-83-6	Canada	Freshwater Long Term	Not specified	0.80	69
1071-83-6	Canada	Freshwater Short Term	Not specified	27.00	
1071-83-6	EPA Region 6	Freshwater Chronic	Not specified	0.80	
1071-83-6	EPA Region 6	Freshwater Acute	Not specified	27.00	
1071-83-6	OPP	Freshwater Vascular Plant	Not specified	11.90	
1071-83-6	OPP	Freshwater Nonvascular Plant	Not specified	12.10	
1071-83-6	OPP	Freshwater Fish Acute	Not specified	21.50	
1071-83-6	OPP	Freshwater Fish Chronic	Not specified	25.70	
1071-83-6	OPP	Freshwater Invertebrates Acute	Not specified	26.60	
1071-83-6	OPP	Freshwater Invertebrates Chronic	Not specified	49.90	

Benchmark Values for Glyphosate in Surface Water (Fresh Water)

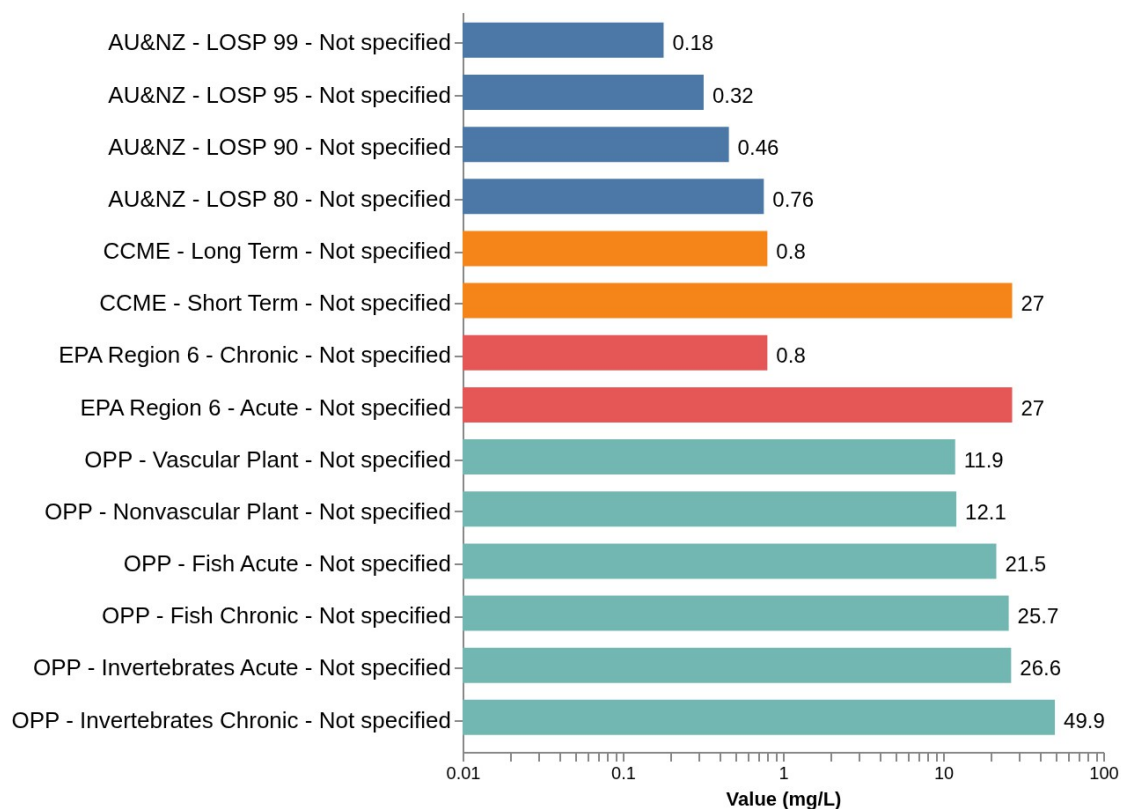


Table 520: Benchmark Values for Halauxifen–methyl X11406790 degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–40–9	OPP	Freshwater Vascular Plant	Not specified	0.10	22
000000–40–9	OPP	Freshwater Nonvascular Plant	Not specified	1.83	
000000–40–9	OPP	Freshwater Invertebrates Acute	Not specified	12.50	22
000000–40–9	OPP	Freshwater Fish Acute	Not specified	14.50	22

Benchmark Values for Halauxifen-methyl X11406790 degradate in Surface Water (Fresh Water)

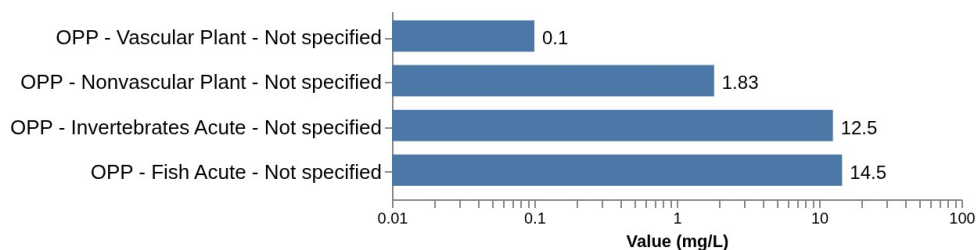


Table 521: Benchmark Values for Halauxifen–methyl X11449757 degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–41–0	OPP	Freshwater Vascular Plant	Not specified	0.10	22
000000–41–0	OPP	Freshwater Nonvascular Plant	Not specified	5.28	
000000–41–0	OPP	Freshwater Fish Chronic	Not specified	8.90	
000000–41–0	OPP	Freshwater Invertebrates Acute	Not specified	57.50	22
000000–41–0	OPP	Freshwater Fish Acute	Not specified	62.00	22

Benchmark Values for Halauxifen-methyl X11449757 degradate in Surface Water (Fresh Water)

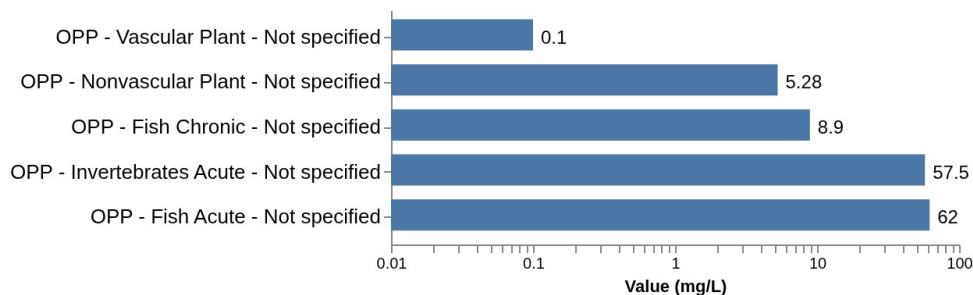


Table 522: Benchmark Values for Halauxifen-methyl XDE-729 acid degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
943832-60-8	OPP	Freshwater Vascular Plant	Not specified	0.00058	
943832-60-8	OPP	Freshwater Fish Chronic	Not specified	11.80000	
943832-60-8	OPP	Freshwater Nonvascular Plant	Not specified	23.20000	
943832-60-8	OPP	Freshwater Invertebrates Acute	Not specified	53.00000	22
943832-60-8	OPP	Freshwater Fish Acute	Not specified	53.50000	22
943832-60-8	OPP	Freshwater Invertebrates Chronic	Not specified	98.30000	

Benchmark Values for Halauxifen-methyl XDE-729 acid degradate in Surface Water (Fresh Water)

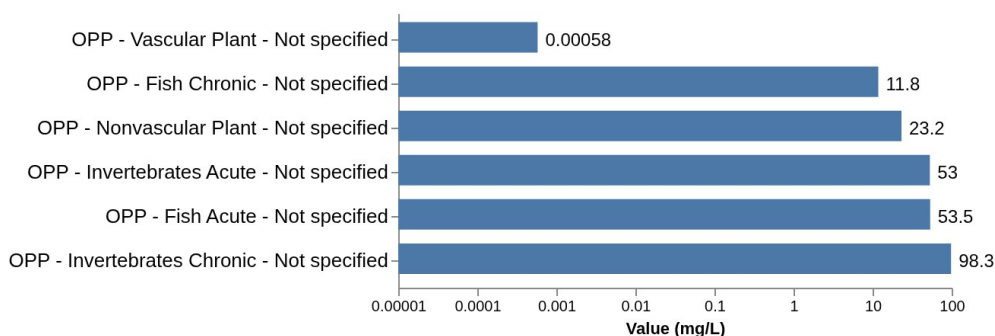


Table 523: Benchmark Values for Halauxifen-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
943831-98-9	OPP	Freshwater Vascular Plant	Not specified	0.000135
943831-98-9	OPP	Freshwater Fish Chronic	Not specified	0.022000
943831-98-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.144000
943831-98-9	OPP	Freshwater Fish Acute	Not specified	1.005000
943831-98-9	OPP	Freshwater Invertebrates Acute	Not specified	1.060000
943831-98-9	OPP	Freshwater Nonvascular Plant	Not specified	1.280000

Benchmark Values for Halauxifen-methyl in Surface Water (Fresh Water)

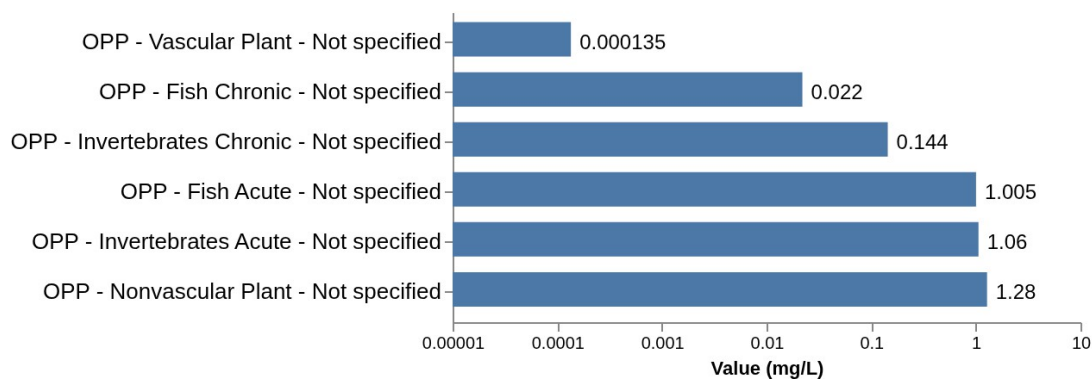


Table 524: Benchmark Values for Haloethers in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-6	California	Freshwater chronic toxicity	Not specified	0.122
000000-47-6	California	Freshwater acute toxicity	Not specified	0.360

Benchmark Values for Haloethers in Surface Water (Fresh Water)

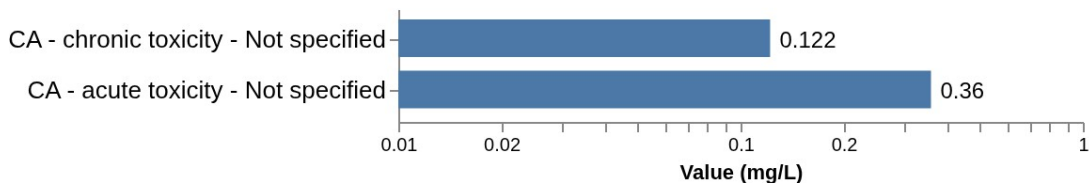


Table 525: Benchmark Values for Halohydantoin degradate DMH in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-31-2	OPP	Freshwater Fish Chronic	Not specified	12.7	
000000-31-2	OPP	Freshwater Invertebrates Chronic	Not specified	70.9	
000000-31-2	OPP	Freshwater Fish Acute	Not specified	486.0	22
000000-31-2	OPP	Freshwater Invertebrates Acute	Not specified	535.0	22
000000-31-2	OPP	Freshwater Nonvascular Plant	Not specified	1000.0	22

Benchmark Values for Halohydantoin degradate DMH in Surface Water (Fresh Water)

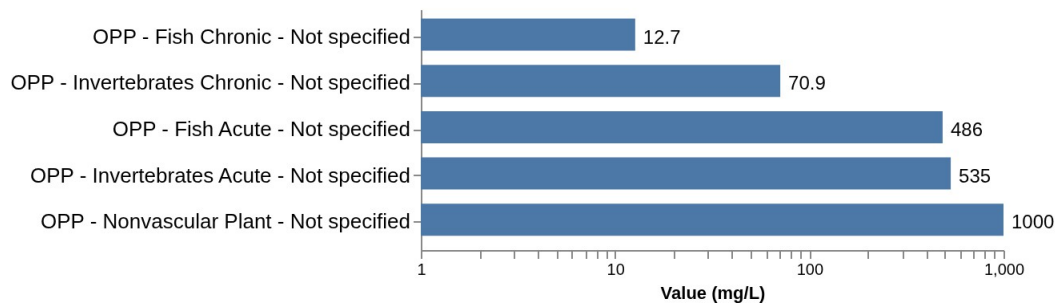


Table 526: Benchmark Values for Halohydantoin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
16079-88-2	OPP	Freshwater Fish Acute	Not specified	0.200
16079-88-2	OPP	Freshwater Invertebrates Acute	Not specified	0.235

Benchmark Values for Halohydantoin in Surface Water (Fresh Water)

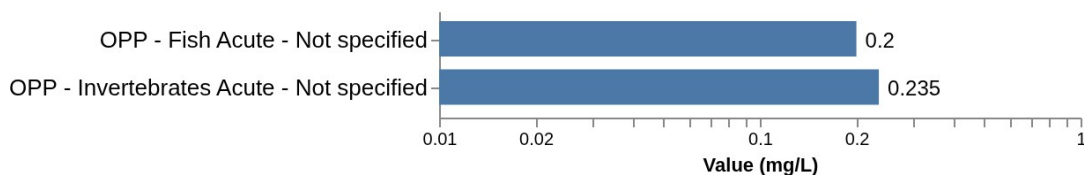


Table 527: Benchmark Values for Halomethanes in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-7	California	Freshwater acute toxicity	Not specified	11.0

Benchmark Values for Halomethanes in Surface Water (Fresh Water)

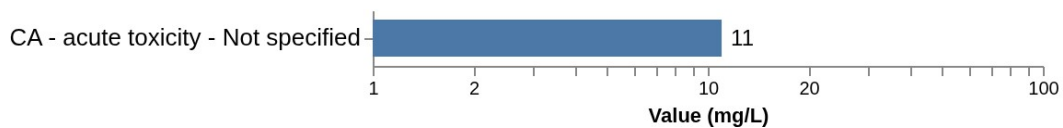


Table 528: Benchmark Values for Halosulfuron methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
100784-20-1	OPP	Freshwater Vascular Plant	Not specified	0.000042
100784-20-1	OPP	Freshwater Nonvascular Plant	Not specified	0.004100

Benchmark Values for Halosulfuron methyl in Surface Water (Fresh Water)

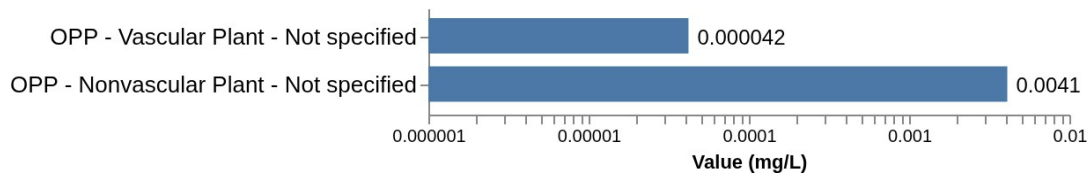


Table 529: Benchmark Values for Heptachlor Epoxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1024-57-3	California	Freshwater CCC, 4-day average	Not specified	0.000004
1024-57-3	California	Freshwater instantaneous max	Not specified	0.000520
1024-57-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000004
1024-57-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000520
1024-57-3	EPA Region 3	BTAG – Freshwater	Not specified	0.000002
1024-57-3	EPA Region 4	Chronic Freshwater	Not specified	0.000004
1024-57-3	EPA Region 4	Acute Freshwater	Not specified	0.000500
1024-57-3	EPA Region 6	Freshwater Chronic	Not specified	0.000004
1024-57-3	EPA Region 6	Freshwater Acute	Not specified	0.000520
1024-57-3	New Jersey	Freshwater Chronic	Not specified	0.000004
1024-57-3	New Jersey	Freshwater Acute	Not specified	0.000520

Benchmark Values for Heptachlor Epoxide in Surface Water (Fresh Water)

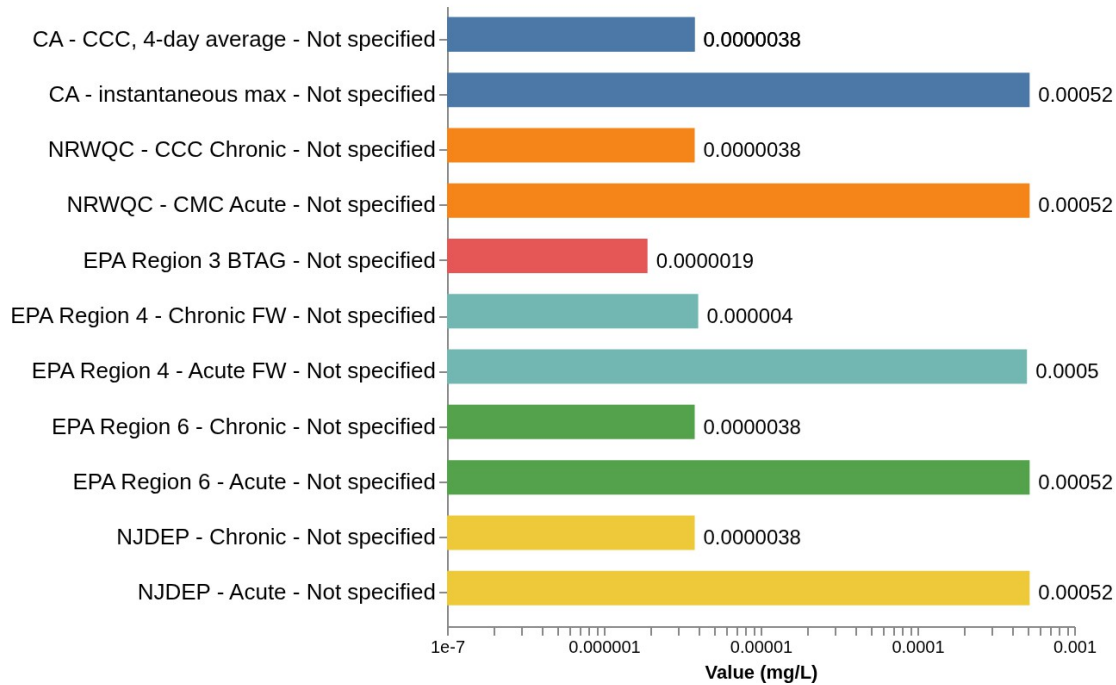


Table 530: Benchmark Values for Heptachlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76-44-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	1.000000e-05	88, 89, 97
76-44-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	9.000000e-05	88, 97
76-44-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.500000e-04	88, 97
76-44-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	7.000000e-04	88, 92, 97
76-44-8	California	Freshwater CCC, 4-day average	Not specified	3.800000e-06	214
76-44-8	California	Freshwater instantaneous max	Not specified	5.200000e-04	
76-44-8	California	Freshwater instantaneous maximum	Not specified	5.200000e-04	
76-44-8	Delaware	Freshwater Chronic Criterion	Not specified	3.800000e-06	
76-44-8	Delaware	Freshwater Acute Criterion	Not specified	5.200000e-04	
76-44-8	EPA NRWQC	Freshwater CCC Chronic	Not specified	3.800000e-06	
76-44-8	EPA NRWQC	Freshwater CMC Acute	Not specified	5.200000e-04	
76-44-8	EPA OSWER	Freshwater Tier II methodology	Not specified	6.900000e-06	
76-44-8	EPA Region 3	BTAG – Freshwater	Not specified	1.900000e-06	
76-44-8	EPA Region 4	Chronic Freshwater	Not specified	4.000000e-06	7
76-44-8	EPA Region 4	Acute Freshwater	Not specified	5.000000e-04	7
76-44-8	EPA Region 6	Freshwater Chronic	Not specified	4.000000e-06	
76-44-8	EPA Region 6	Freshwater Acute	Not specified	5.200000e-04	
76-44-8	Florida	SWQS for Fish Consumption Freshwater	Not specified	2.100000e-07	
76-44-8	New Jersey	Freshwater Chronic	Not specified	3.800000e-06	
76-44-8	New Jersey	Freshwater Acute	Not specified	5.200000e-04	

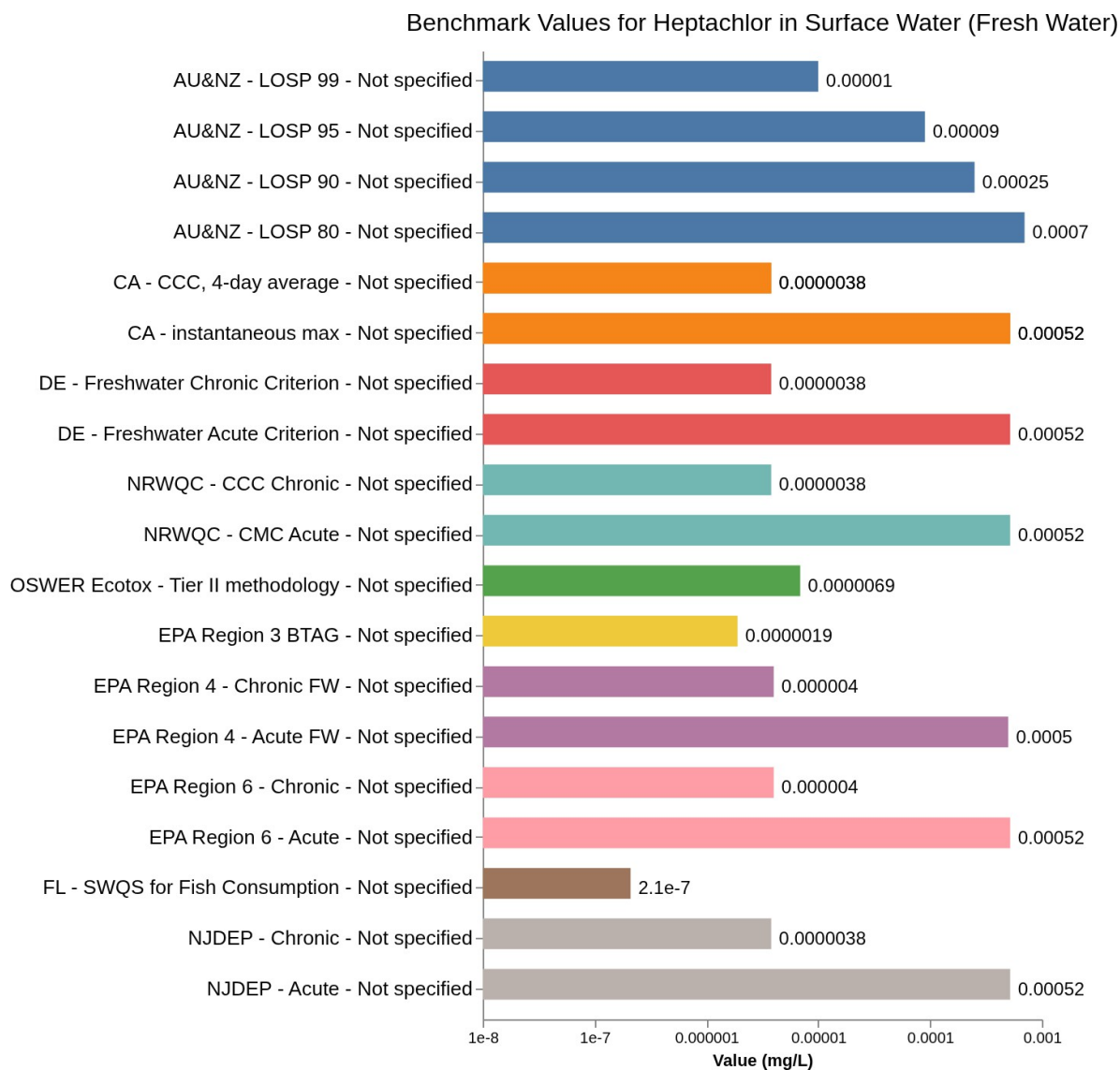


Table 531: Benchmark Values for Hexabromocyclododecane (HBCD) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
3194-55-6	ECC Canada	Freshwater LTC	Not specified	0.00056

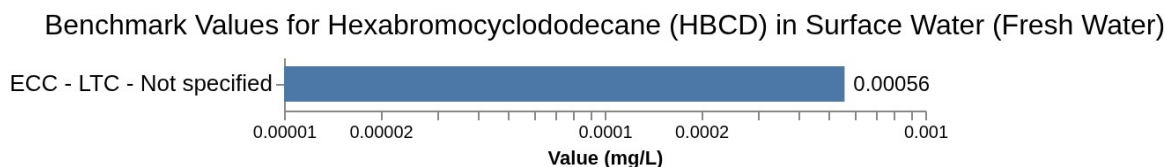


Table 532: Benchmark Values for Hexabromodiphenyl ether, 2,2',4,4',5,5'– (BDE–153) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
68631–49–2	California	Freshwater chronic toxicity	Not specified	0.122
68631–49–2	California	Freshwater acute toxicity	Not specified	0.360

Benchmark Values for Hexabromodiphenyl ether, 2,2',4,4',5,5'– (BDE-153) in Surface Water (Fresh Water)

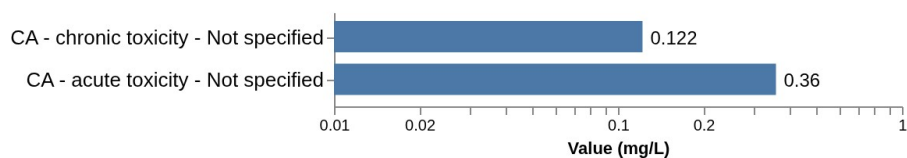


Table 533: Benchmark Values for Hexachlorobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
118-74-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	5.000000e-05	83, 89, 97
118-74-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.000000e-04	83, 97
118-74-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.000000e-04	83, 97
118-74-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	3.000000e-04	83, 97
118-74-1	California	Freshwater other toxicity	Not specified	5.000000e-02	
118-74-1	California	Freshwater acute toxicity	Not specified	2.500000e-01	
118-74-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	3.680000e-03	
118-74-1	EPA Region 3	BTAG – Freshwater	Not specified	3.000000e-07	
118-74-1	EPA Region 4	Chronic Freshwater	Wildlife only	3.000000e-07	7
118-74-1	EPA Region 4	Chronic Freshwater	Aquatic only	1.500000e-04	7
118-74-1	EPA Region 4	Acute Freshwater	Aquatic only	2.800000e-03	7

Benchmark Values for Hexachlorobenzene in Surface Water (Fresh Water)

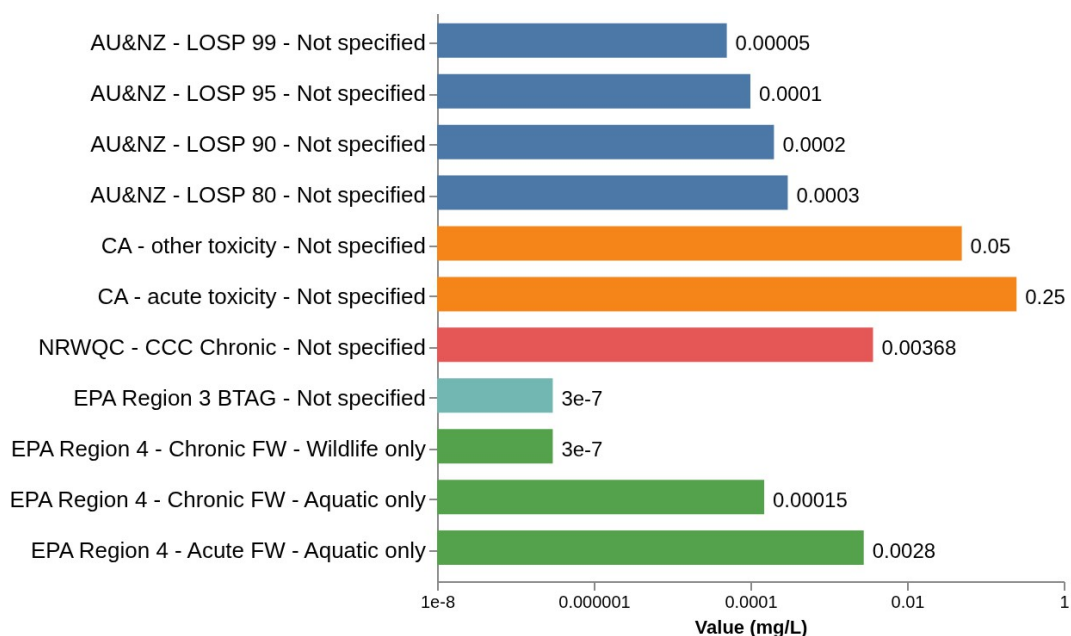


Table 534: Benchmark Values for Hexachlorobiphenyl, 3,3',4,4',5,5' – (PCB 169) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
32774-16-6	British Columbia	Freshwater STA	Not specified	6.000000e-08

Benchmark Values for Hexachlorobiphenyl, 3,3',4,4',5,5' – (PCB 169) in Surface Water (Fresh Water)

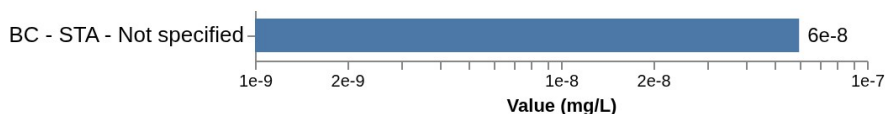


Table 535: Benchmark Values for Hexachlorobutadiene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-68-3	California	Freshwater chronic toxicity	Not specified	0.00930	
87-68-3	California	Freshwater acute toxicity	Not specified	0.09000	
87-68-3	Canada	Freshwater Long Term	Not specified	0.00130	
87-68-3	EPA Region 3	BTAG – Freshwater	Not specified	0.00130	
87-68-3	EPA Region 4	Chronic Freshwater	Wildlife only	0.00100	7
87-68-3	EPA Region 4	Chronic Freshwater	Aquatic only	0.00100	7
87-68-3	EPA Region 4	Acute Freshwater	Aquatic only	0.01000	7
87-68-3	EPA Region 4	Acute Freshwater	Wildlife only	0.01000	7
87-68-3	EPA Region 6	Freshwater Chronic	Not specified	0.00436	
87-68-3	EPA Region 6	Freshwater Acute	Not specified	0.13100	
87-68-3	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.04970	

Benchmark Values for Hexachlorobutadiene in Surface Water (Fresh Water)

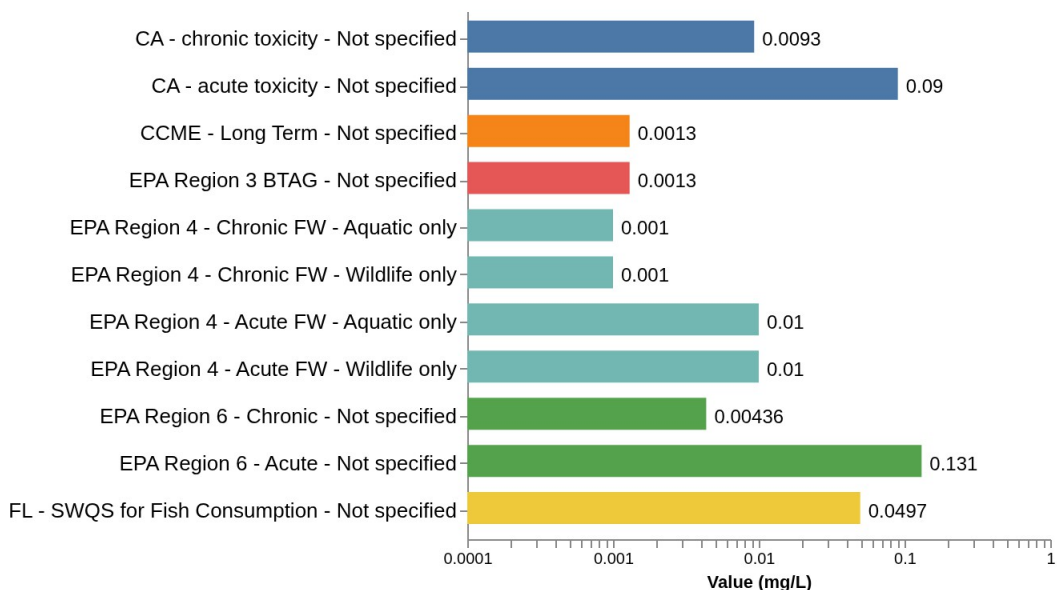


Table 536: Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-02-2	Delaware	Freshwater Chronic Criterion	Not specified	0.000080
000000-02-2	Delaware	Freshwater Acute Criterion	Not specified	0.000095

Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water (Fresh Water)

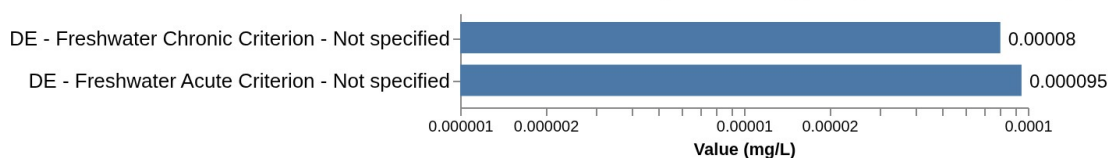


Table 537: Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-84-6	EPA Region 4	Chronic Freshwater	Not specified	0.00001	7
319-84-6	EPA Region 6	Freshwater Chronic	Not specified	0.00940	
319-84-6	EPA Region 6	Freshwater Acute	Not specified	0.28000	

Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water (Fresh Water)

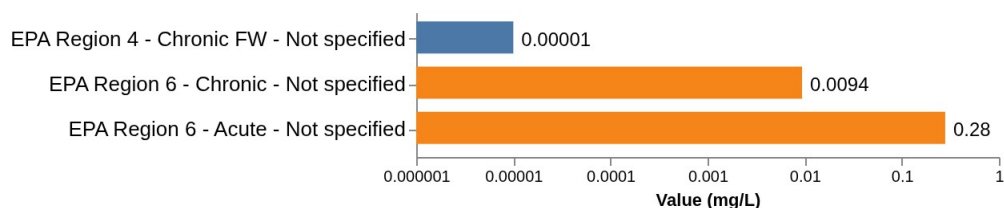


Table 538: Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-85-7	EPA Region 4	Chronic Freshwater	Not specified	0.000010	7
319-85-7	EPA Region 6	Freshwater Chronic	Not specified	0.011000	
319-85-7	EPA Region 6	Freshwater Acute	Not specified	0.330000	
319-85-7	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000046	

Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water (Fresh Water)

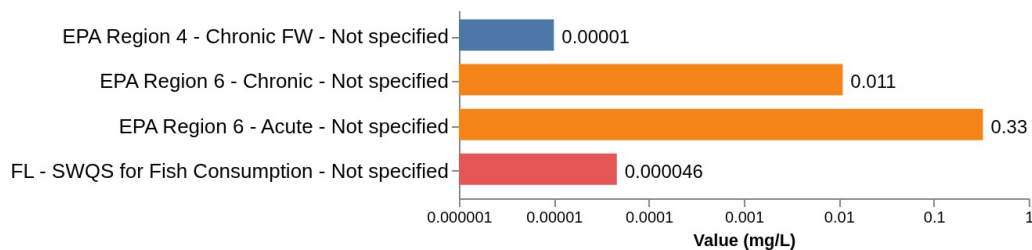


Table 539: Benchmark Values for Hexachlorocyclohexane, Delta- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
319-86-8	EPA Region 3	BTAG – Freshwater	Not specified	0.141
319-86-8	EPA Region 6	Freshwater Chronic	Not specified	0.019
319-86-8	EPA Region 6	Freshwater Acute	Not specified	0.560

Benchmark Values for Hexachlorocyclohexane, Delta- in Surface Water (Fresh Water)

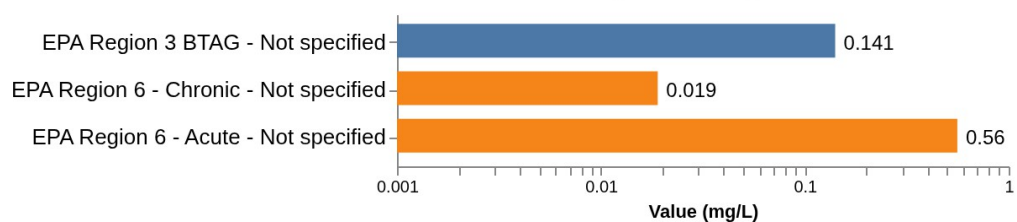


Table 540: Benchmark Values for Hexachlorocyclohexane, Gamma- (Lindane) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
58-89-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000070	88
58-89-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000200	88, 89
58-89-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000400	88
58-89-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.001000	88, 92
58-89-9	California	Freshwater CCC, 4-day average	Not specified	0.000080	
58-89-9	California	Freshwater CMC, 1-hour average	Not specified	0.000950	
58-89-9	California	Freshwater CMC, 1-hour average	Not specified	0.000950	
58-89-9	Canada	Freshwater Long Term	Not specified	0.000010	
58-89-9	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000950	
58-89-9	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.000080	
58-89-9	EPA Region 3	BTAG – Freshwater	Not specified	0.000010	
58-89-9	EPA Region 4	Chronic Freshwater	Wildlife only	0.000110	7
58-89-9	EPA Region 4	Chronic Freshwater	Aquatic only	0.000110	7
58-89-9	EPA Region 4	Acute Freshwater	Aquatic only	0.000950	7
58-89-9	EPA Region 4	Acute Freshwater	Wildlife only	0.000950	7
58-89-9	EPA Region 6	Freshwater Chronic	Not specified	0.000080	
58-89-9	EPA Region 6	Freshwater Acute	Not specified	0.001126	
58-89-9	New Jersey	Freshwater Acute	Not specified	0.000950	
58-89-9	OPP	Freshwater Invertebrates Acute	Not specified	0.000500	
58-89-9	OPP	Freshwater Fish Acute	Not specified	0.000850	
58-89-9	OPP	Freshwater Acute	Not specified	0.000950	
58-89-9	OPP	Freshwater Fish Chronic	Not specified	0.002900	
58-89-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.054000	

Benchmark Values for Hexachlorocyclohexane, Gamma- (Lindane) in Surface Water (Fresh Water)

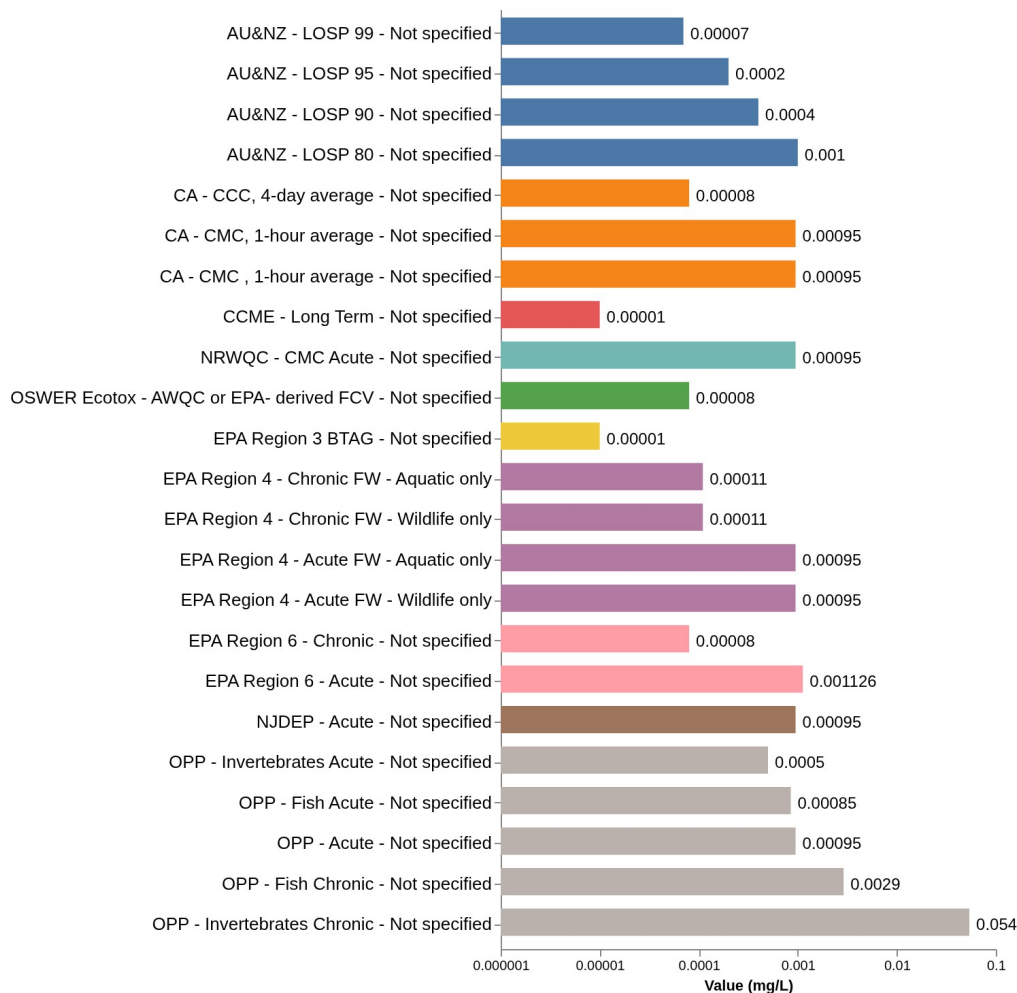


Table 541: Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
608-73-1	California	Freshwater acute toxicity	Not specified	0.10000
608-73-1	EPA Region 3	BTAG – Freshwater	Not specified	0.00001

Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water (Fresh Water)

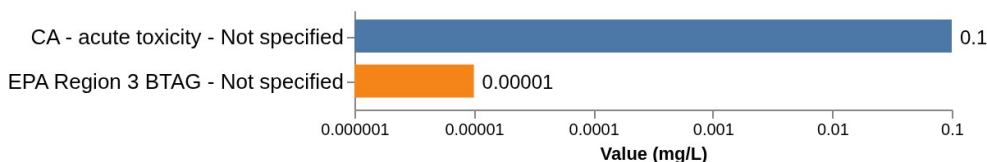
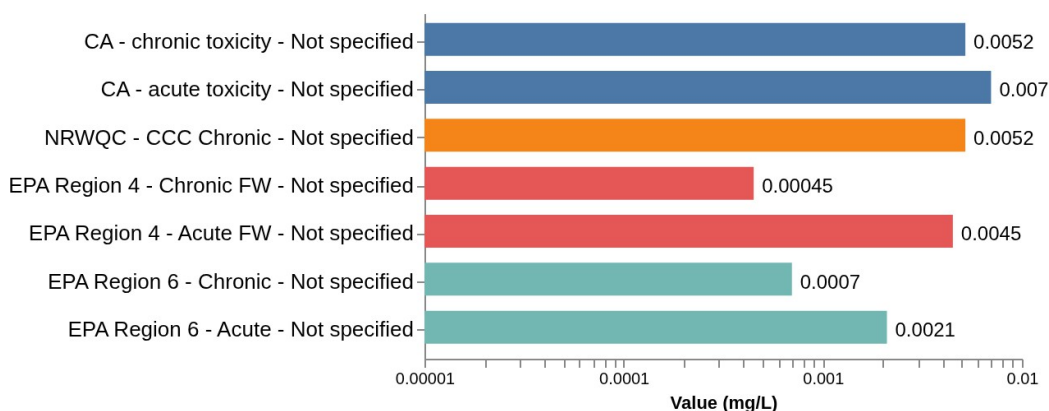


Table 542: Benchmark Values for Hexachlorocyclopentadiene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
77-47-4	California	Freshwater chronic toxicity	Not specified	0.00520	
77-47-4	California	Freshwater acute toxicity	Not specified	0.00700	
77-47-4	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00520	
77-47-4	EPA Region 4	Chronic Freshwater	Not specified	0.00045	7
77-47-4	EPA Region 4	Acute Freshwater	Not specified	0.00450	7
77-47-4	EPA Region 6	Freshwater Chronic	Not specified	0.00070	
77-47-4	EPA Region 6	Freshwater Acute	Not specified	0.00210	

Benchmark Values for Hexachlorocyclopentadiene in Surface Water (Fresh Water)**Table 543: Benchmark Values for Hexachloroethane in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-72-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.290	87, 89, 97
67-72-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.360	87, 97
67-72-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.420	87, 97
67-72-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.500	87, 97
67-72-1	California	Freshwater chronic toxicity	Not specified	0.540	
67-72-1	California	Freshwater acute toxicity	Not specified	0.980	
67-72-1	EPA OSWER	Freshwater Tier II methodology	Not specified	0.012	
67-72-1	EPA Region 3	BTAG – Freshwater	Not specified	0.012	
67-72-1	EPA Region 4	Chronic Freshwater	Not specified	0.012	
67-72-1	EPA Region 4	Acute Freshwater	Not specified	0.210	
67-72-1	EPA Region 6	Freshwater Chronic	Not specified	0.012	
67-72-1	EPA Region 6	Freshwater Acute	Not specified	0.210	

Benchmark Values for Hexachloroethane in Surface Water (Fresh Water)

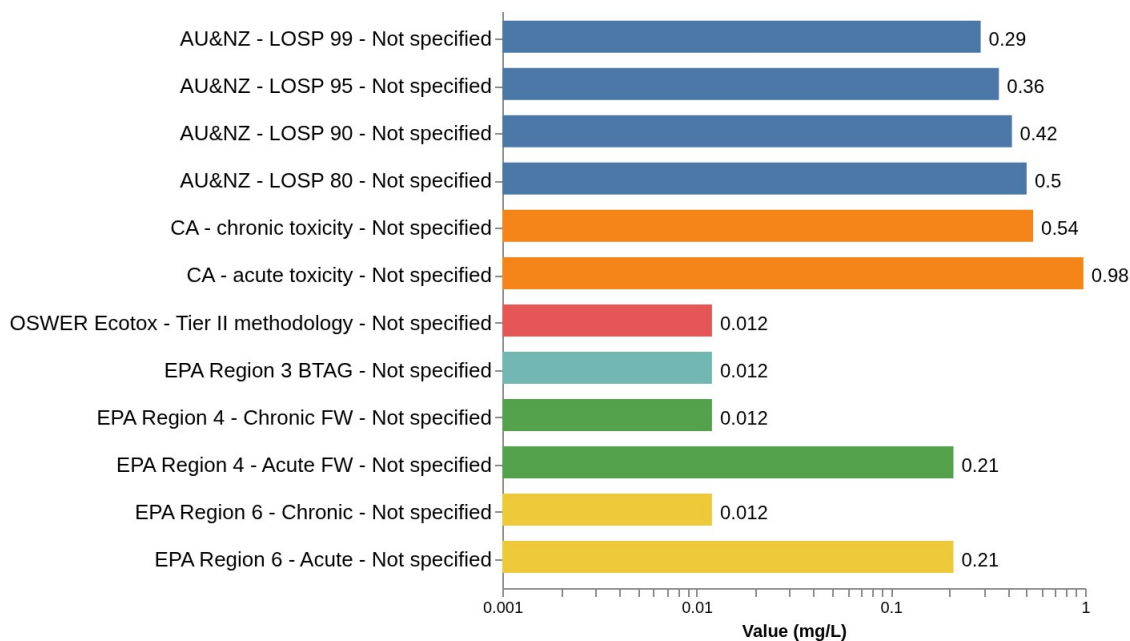


Table 544: Benchmark Values for Hexaflumuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
86479-06-3	OPP	Freshwater Invertebrates Acute	Not specified	0.000056	
86479-06-3	OPP	Freshwater Fish Acute	Not specified	0.127800	22

Benchmark Values for Hexaflumuron in Surface Water (Fresh Water)

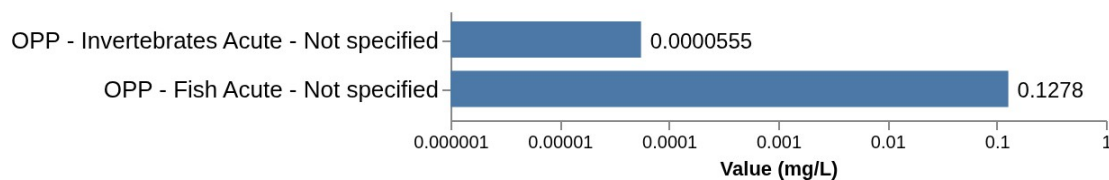


Table 545: Benchmark Values for Hexahydro–1,3,5–trinitro–1,3,5–triazine (RDX) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
121–82–4	EPA Region 3	BTAG – Freshwater	Not specified	0.360
121–82–4	EPA Region 4	Chronic Freshwater	Not specified	0.079
121–82–4	EPA Region 4	Acute Freshwater	Not specified	0.520
121–82–4	EPA Region 6	Freshwater Chronic	Not specified	0.186
121–82–4	EPA Region 6	Freshwater Acute	Not specified	1.390

Benchmark Values for Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Surface Water (Fresh Water)

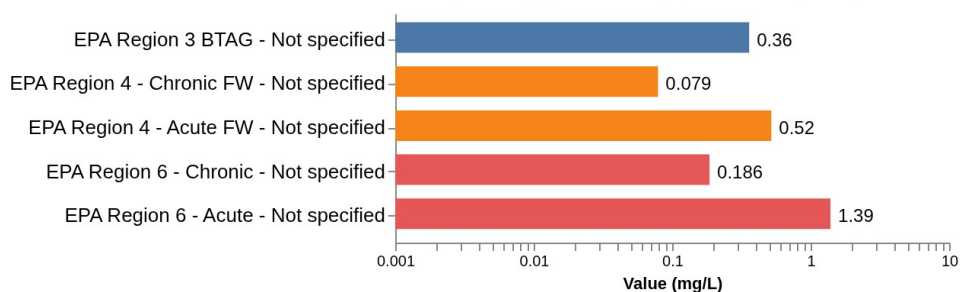


Table 546: Benchmark Values for Hexane, n– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
110–54–3	EPA Region 3	BTAG – Freshwater	Not specified	0.00058
110–54–3	EPA Region 4	Chronic Freshwater	Not specified	0.00060
110–54–3	EPA Region 4	Acute Freshwater	Not specified	0.01000
110–54–3	EPA Region 6	Freshwater Chronic	Not specified	0.00058
110–54–3	EPA Region 6	Freshwater Acute	Not specified	0.01000

Benchmark Values for Hexane, n- in Surface Water (Fresh Water)

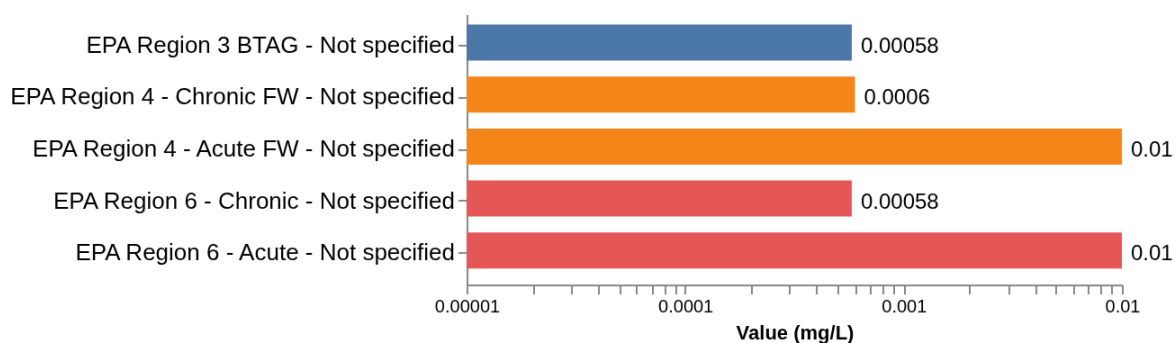


Table 547: Benchmark Values for Hexanone, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
591-78-6	EPA Region 3	BTAG – Freshwater	Not specified	0.099
591-78-6	EPA Region 4	Chronic Freshwater	Not specified	0.099
591-78-6	EPA Region 4	Acute Freshwater	Not specified	1.800
591-78-6	EPA Region 6	Freshwater Chronic	Not specified	6.130
591-78-6	EPA Region 6	Freshwater Acute	Not specified	36.790

Benchmark Values for Hexanone, 2- in Surface Water (Fresh Water)

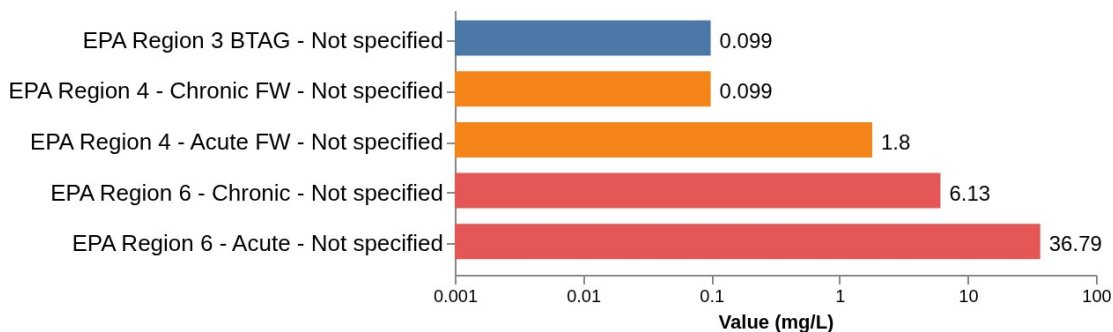


Table 548: Benchmark Values for Hexazinone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
51235-04-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0070
51235-04-2	OPP	Freshwater Vascular Plant	Not specified	0.0374
51235-04-2	OPP	Freshwater Fish Chronic	Not specified	17.0000
51235-04-2	OPP	Freshwater Invertebrates Chronic	Not specified	20.0000
51235-04-2	OPP	Freshwater Invertebrates Acute	Not specified	75.8000
51235-04-2	OPP	Freshwater Fish Acute	Not specified	137.0000

Benchmark Values for Hexazinone in Surface Water (Fresh Water)

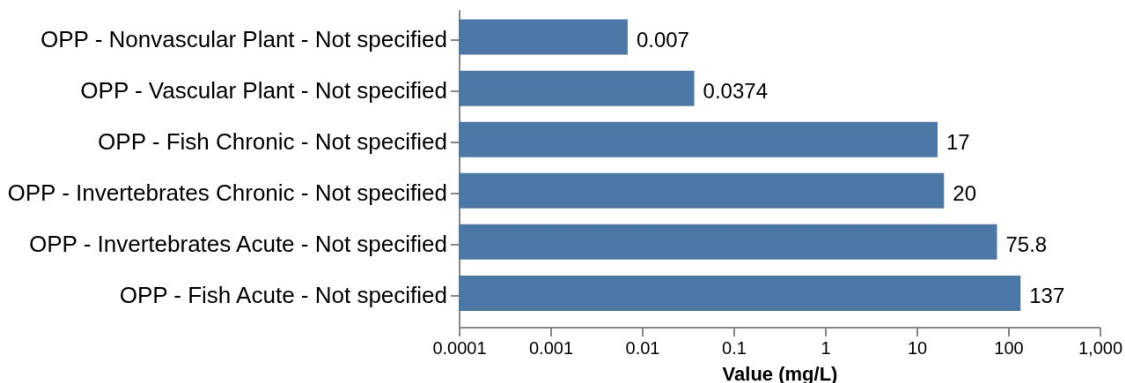


Table 549: Benchmark Values for Hexythiazox in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78587-05-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.0061	
78587-05-0	OPP	Freshwater Fish Acute	Not specified	0.0600	22
78587-05-0	OPP	Freshwater Vascular Plant	Not specified	0.1200	22
78587-05-0	OPP	Freshwater Nonvascular Plant	Not specified	0.1200	22

Benchmark Values for Hexythiazox in Surface Water (Fresh Water)

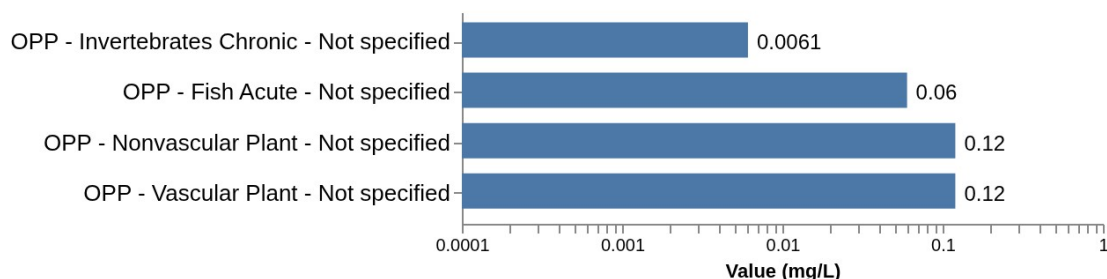


Table 550: Benchmark Values for Hydramethylnon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
67485-29-4	OPP	Freshwater Fish Acute	Not specified	0.045
67485-29-4	OPP	Freshwater Invertebrates Acute	Not specified	0.570

Benchmark Values for Hydramethylnon in Surface Water (Fresh Water)

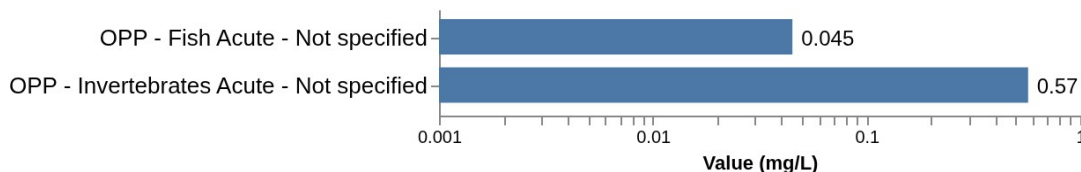


Table 551: Benchmark Values for Hydrazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
302-01-2	EPA Region 3	BTAG – Freshwater	Not specified	0.010	14
302-01-2	EPA Region 4	Chronic Freshwater	Not specified	0.002	
302-01-2	EPA Region 4	Acute Freshwater	Not specified	0.016	

Benchmark Values for Hydrazine in Surface Water (Fresh Water)

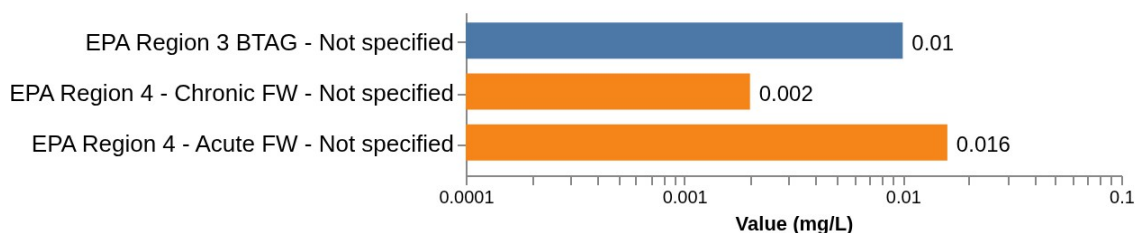


Table 552: Benchmark Values for Hydrogen Cyanamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
420-04-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.100	
420-04-2	OPP	Freshwater Nonvascular Plant	Not specified	0.370	
420-04-2	OPP	Freshwater Fish Chronic	Not specified	0.507	23
420-04-2	OPP	Freshwater Invertebrates Acute	Not specified	1.650	
420-04-2	OPP	Freshwater Vascular Plant	Not specified	3.000	
420-04-2	OPP	Freshwater Fish Acute	Not specified	23.000	

Benchmark Values for Hydrogen Cyanamide in Surface Water (Fresh Water)

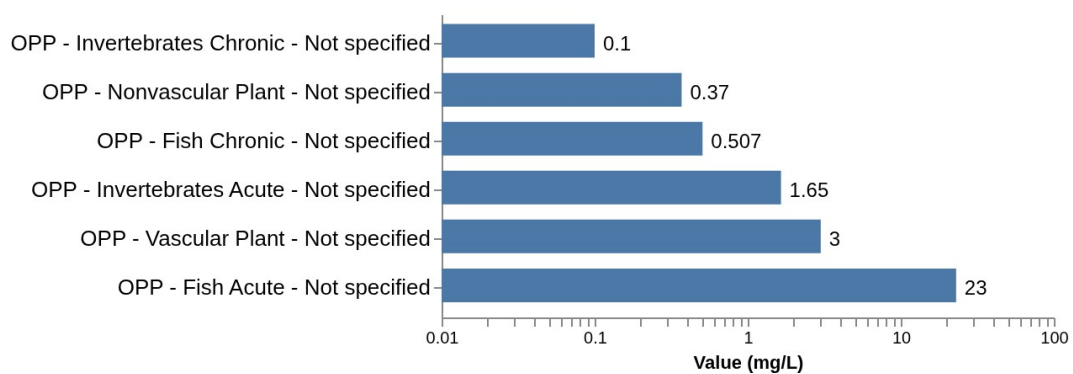


Table 553: Benchmark Values for Hydrogen Sulfide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7783-06-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0005	88, 109
7783-06-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0010	88, 89, 109
7783-06-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0015	88, 109
7783-06-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0026	88, 109
7783-06-4	California	Freshwater instantaneous max	Not specified	0.0020	
7783-06-4	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0020	
7783-06-4	EPA Region 3	BTAG – Freshwater	Not specified	0.0020	
7783-06-4	EPA Region 4	Chronic Freshwater	Not specified	0.0020	
7783-06-4	EPA Region 4	Acute Freshwater	Not specified	0.0032	
7783-06-4	EPA Region 6	Freshwater Chronic	Not specified	0.0020	
7783-06-4	New Jersey	Freshwater Chronic	Not specified	0.0020	

Benchmark Values for Hydrogen Sulfide in Surface Water (Fresh Water)

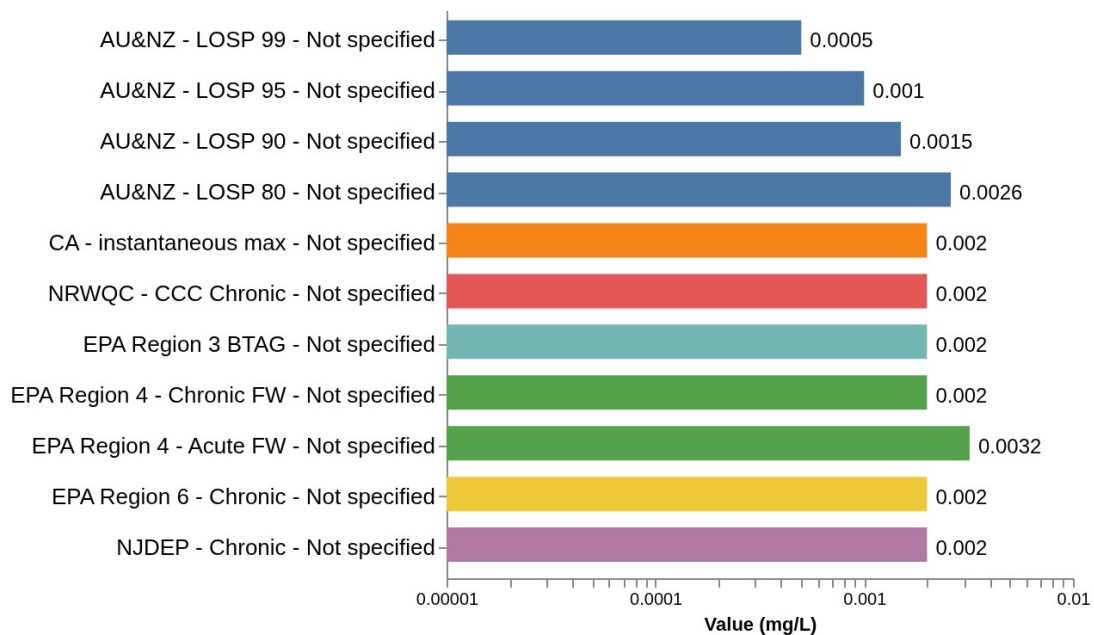


Table 554: Benchmark Values for Hydroquinone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
123-31-9	EPA Region 3	BTAG – Freshwater	Not specified	0.0022
123-31-9	EPA Region 4	Chronic Freshwater	Not specified	0.0022
123-31-9	EPA Region 4	Acute Freshwater	Not specified	0.0044

Benchmark Values for Hydroquinone in Surface Water (Fresh Water)

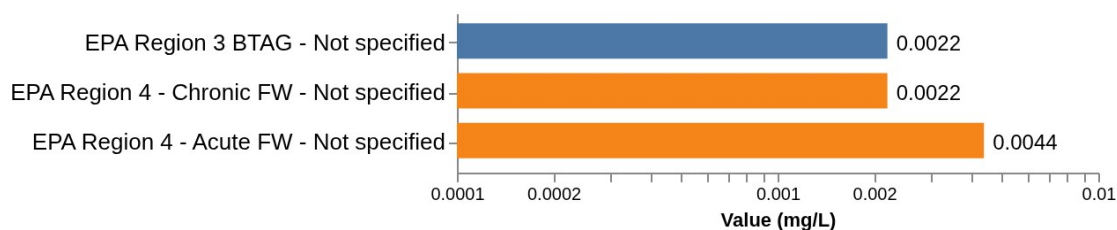


Table 555: Benchmark Values for Hydroxyatrazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2163-68-0	OPP	Freshwater Fish Acute	Not specified	1.50	22
2163-68-0	OPP	Freshwater Invertebrates Acute	Not specified	2.05	22
2163-68-0	OPP	Freshwater Nonvascular Plant	Not specified	10.00	22

Benchmark Values for Hydroxyatrazine in Surface Water (Fresh Water)

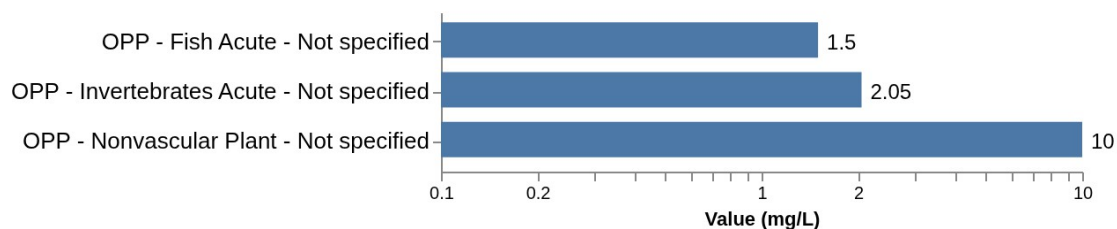


Table 556: Benchmark Values for Hydroxyphenol, 3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-43-6	British Columbia	Freshwater STA	Not specified	0.0125

Benchmark Values for Hydroxyphenol, 3- in Surface Water (Fresh Water)

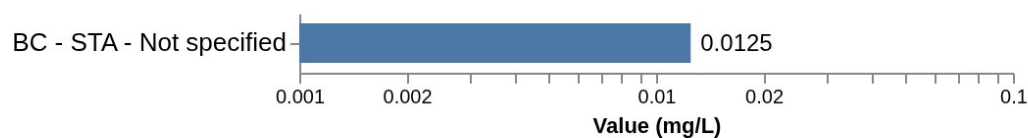


Table 557: Benchmark Values for Hydroxyphenol, 4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
8027-02-9	British Columbia	Freshwater STA	Not specified	0.0045

Benchmark Values for Hydroxyphenol, 4- in Surface Water (Fresh Water)

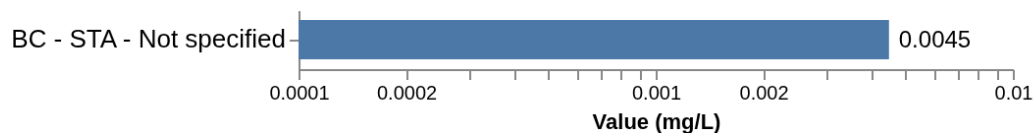


Table 558: Benchmark Values for Hymexazol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
10004-44-1	OPP	Freshwater Vascular Plant	Not specified	7.90	
10004-44-1	OPP	Freshwater Invertebrates Acute	Not specified	15.40	
10004-44-1	OPP	Freshwater Nonvascular Plant	Not specified	23.39	
10004-44-1	OPP	Freshwater Fish Acute	Not specified	50.00	22

Benchmark Values for Hymexazol in Surface Water (Fresh Water)

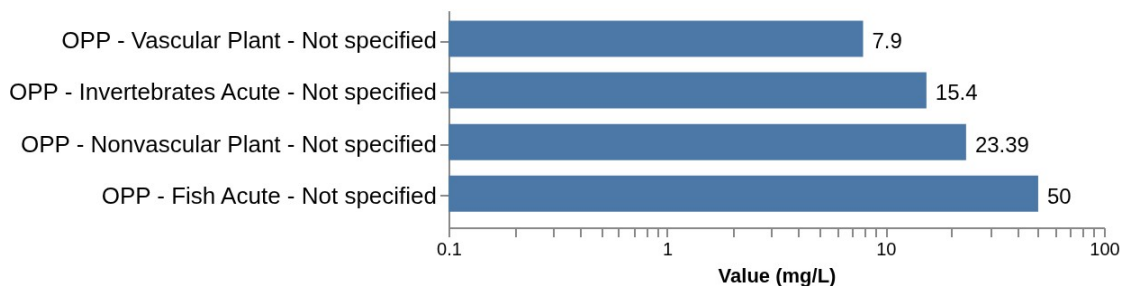


Table 559: Benchmark Values for Imazamox in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
114311-32-9	OPP	Freshwater Vascular Plant	Not specified	0.008	
114311-32-9	OPP	Freshwater Nonvascular Plant	Not specified	0.037	22
114311-32-9	OPP	Freshwater Fish Acute	Not specified	59.500	22
114311-32-9	OPP	Freshwater Invertebrates Acute	Not specified	61.000	22

Benchmark Values for Imazamox in Surface Water (Fresh Water)

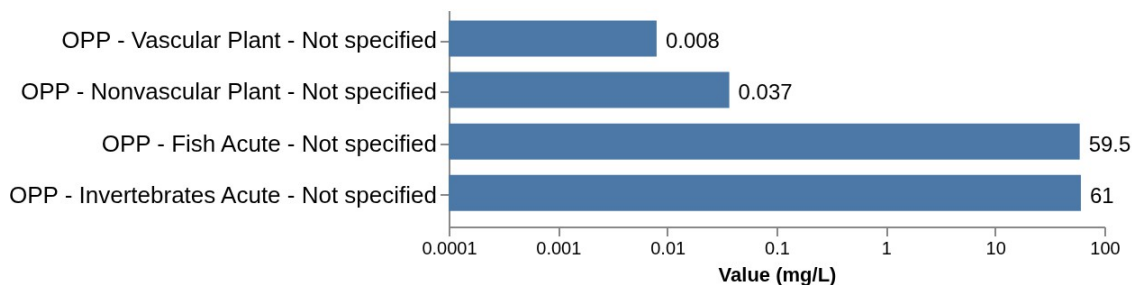


Table 560: Benchmark Values for Imazapic in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
104098-48-8	OPP	Freshwater Vascular Plant	Not specified	0.00622	
104098-48-8	OPP	Freshwater Nonvascular Plant	Not specified	0.04410	22
104098-48-8	OPP	Freshwater Fish Acute	Not specified	50.00000	22
104098-48-8	OPP	Freshwater Invertebrates Acute	Not specified	50.00000	22
104098-48-8	OPP	Freshwater Fish Chronic	Not specified	96.00000	
104098-48-8	OPP	Freshwater Invertebrates Chronic	Not specified	96.00000	

Benchmark Values for Imazapic in Surface Water (Fresh Water)

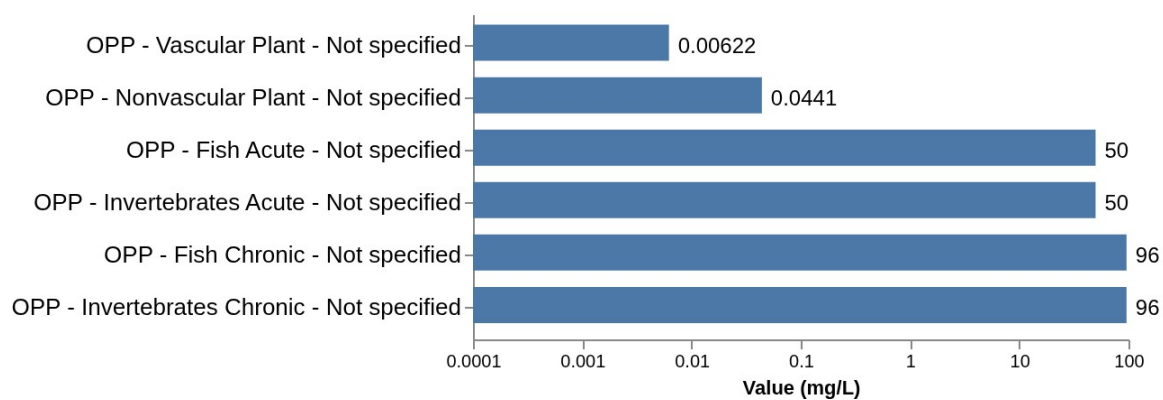


Table 561: Benchmark Values for Imazapyr Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
81334-34-1	OPP	Freshwater Vascular Plant	Not specified	0.024	
81334-34-1	OPP	Freshwater Nonvascular Plant	Not specified	12.200	
81334-34-1	OPP	Freshwater Fish Chronic	Not specified	43.100	
81334-34-1	OPP	Freshwater Invertebrates Acute	Not specified	50.000	22
81334-34-1	OPP	Freshwater Fish Acute	Not specified	50.000	22
81334-34-1	OPP	Freshwater Invertebrates Chronic	Not specified	97.100	

Benchmark Values for Imazapyr Acid in Surface Water (Fresh Water)

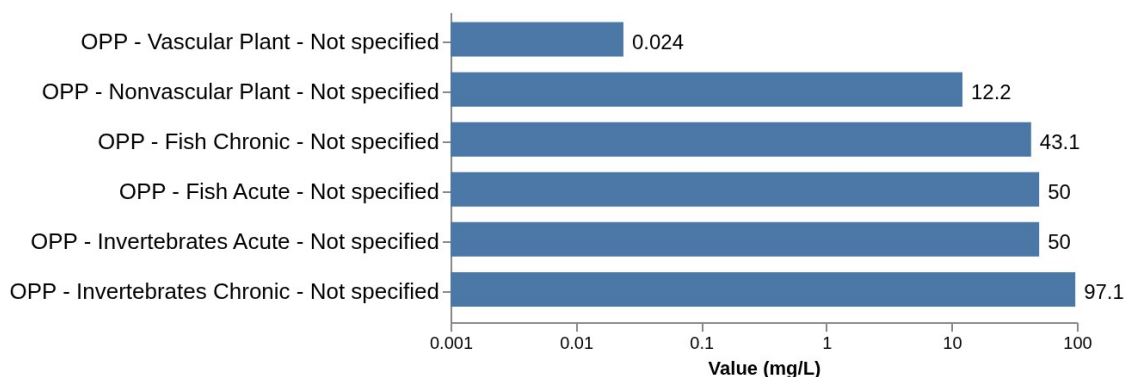


Table 562: Benchmark Values for Imazapyr isopropylamine salt (IPA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-41-1	OPP	Freshwater Vascular Plant	Not specified	0.018
000000-41-1	OPP	Freshwater Nonvascular Plant	Not specified	11.500

Benchmark Values for Imazapyr isopropylamine salt (IPA) in Surface Water (Fresh Water)

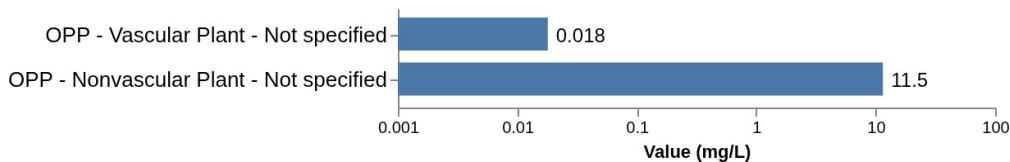


Table 563: Benchmark Values for Imazaquin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
81335-37-7	OPP	Freshwater Invertebrates Acute	Not specified	140.0
81335-37-7	OPP	Freshwater Fish Acute	Not specified	140.0

Benchmark Values for Imazaquin in Surface Water (Fresh Water)

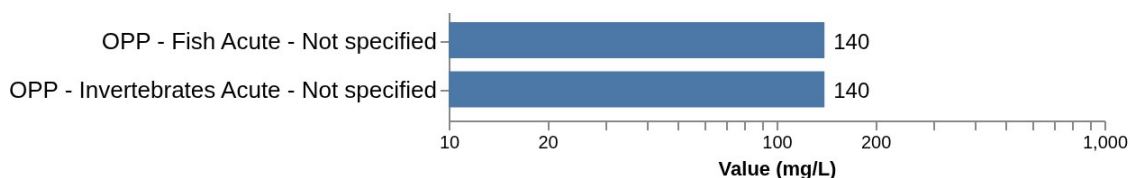


Table 564: Benchmark Values for Imazethapyr CL266858 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-2	OPP	Freshwater Nonvascular Plant	Not specified	11.87	
000000-41-2	OPP	Freshwater Invertebrates Acute	Not specified	50.00	22

Benchmark Values for Imazethapyr CL266858 in Surface Water (Fresh Water)

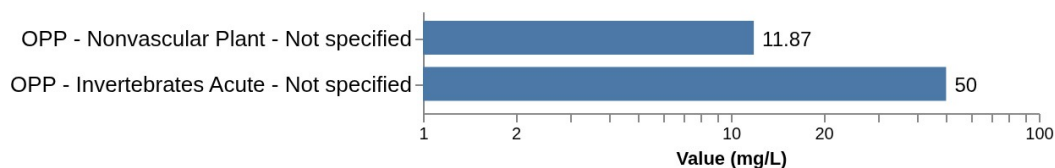


Table 565: Benchmark Values for Imazethapyr CL271197 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-3	OPP	Freshwater Vascular Plant	Not specified	0.101	22
000000-41-3	OPP	Freshwater Nonvascular Plant	Not specified	12.400	
000000-41-3	OPP	Freshwater Invertebrates Acute	Not specified	50.000	22

Benchmark Values for Imazethapyr CL271197 in Surface Water (Fresh Water)

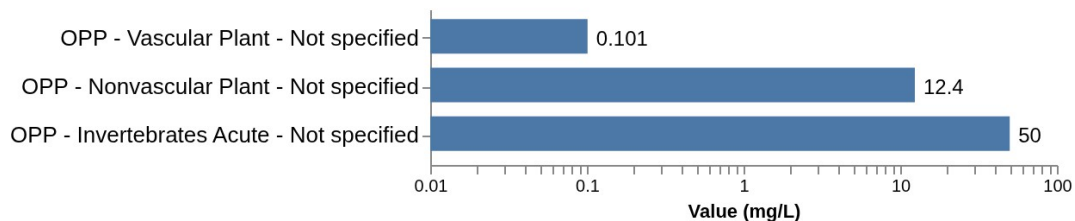


Table 566: Benchmark Values for Imazethapyr CL290084 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-4	OPP	Freshwater Vascular Plant	Not specified	0.03714	
000000-41-4	OPP	Freshwater Nonvascular Plant	Not specified	28.77000	
000000-41-4	OPP	Freshwater Invertebrates Acute	Not specified	50.00000	22

Benchmark Values for Imazethapyr CL290084 in Surface Water (Fresh Water)

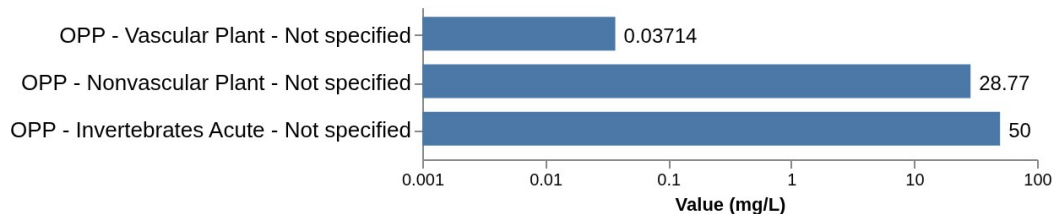


Table 567: Benchmark Values for Imazethapyr in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
81335-77-5	OPP	Freshwater Vascular Plant	Not specified	0.0081	
81335-77-5	OPP	Freshwater Nonvascular Plant	Not specified	4.7700	
81335-77-5	OPP	Freshwater Fish Chronic	Not specified	97.0000	
81335-77-5	OPP	Freshwater Invertebrates Chronic	Not specified	103.0000	
81335-77-5	OPP	Freshwater Fish Acute	Not specified	120.0000	
81335-77-5	OPP	Freshwater Invertebrates Acute	Not specified	500.0000	22

Benchmark Values for Imazethapyr in Surface Water (Fresh Water)

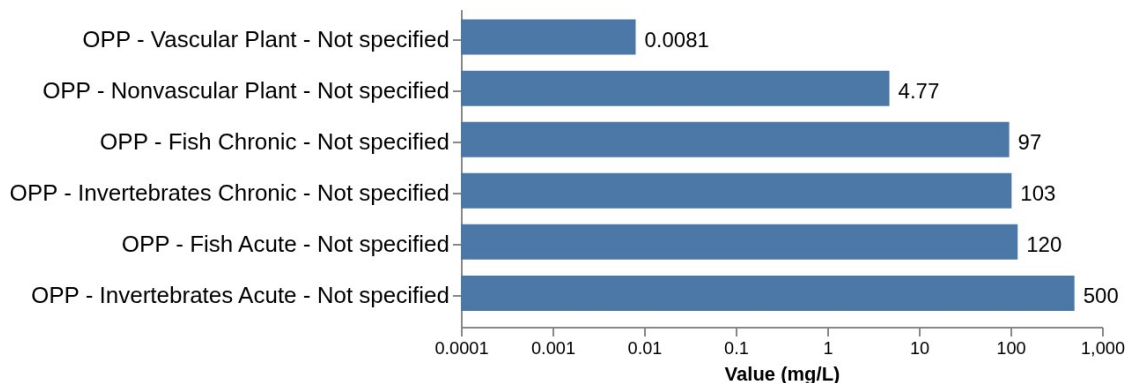


Table 568: Benchmark Values for Imazosulfuron degradate (IPSN) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-5	OPP	Freshwater Invertebrates Chronic	Not specified	11.0	
000000-41-5	OPP	Freshwater Vascular Plant	Not specified	113.0	22

Benchmark Values for Imazosulfuron degradate (IPSN) in Surface Water (Fresh Water)

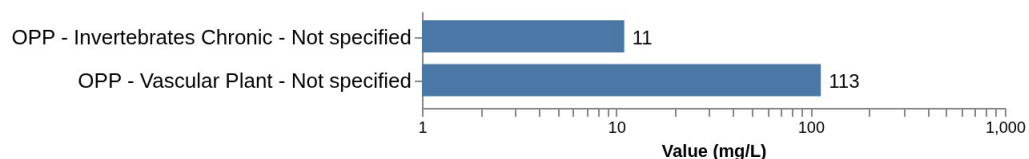


Table 569: Benchmark Values for Imazosulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122548-33-8	OPP	Freshwater Vascular Plant	Not specified	0.00146	
122548-33-8	OPP	Freshwater Nonvascular Plant	Not specified	0.20600	
122548-33-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.84000	
122548-33-8	OPP	Freshwater Fish Chronic	Not specified	2.90000	
122548-33-8	OPP	Freshwater Fish Acute	Not specified	34.50000	22
122548-33-8	OPP	Freshwater Invertebrates Acute	Not specified	45.50000	22

Benchmark Values for Imazosulfuron in Surface Water (Fresh Water)

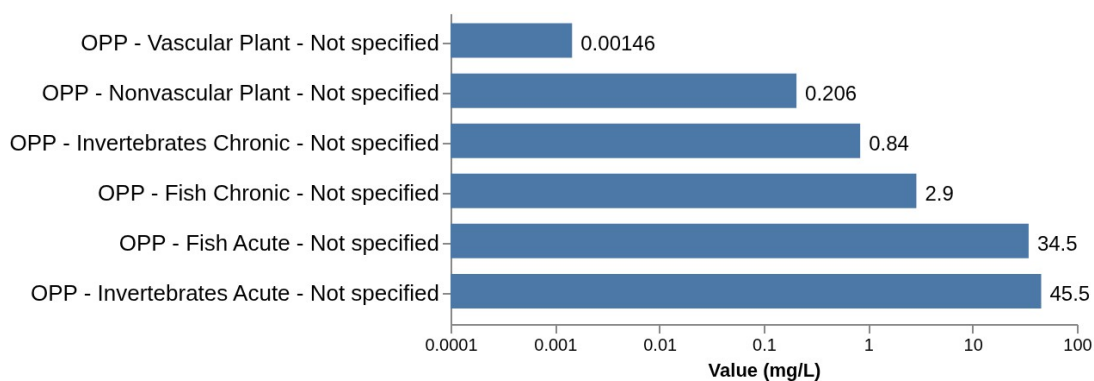


Table 570: Benchmark Values for Imidacloprid guanidine degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-6	OPP	Freshwater Invertebrates Acute	Not specified	28.0	

Benchmark Values for Imidacloprid guanidine degradate in Surface Water (Fresh Water)

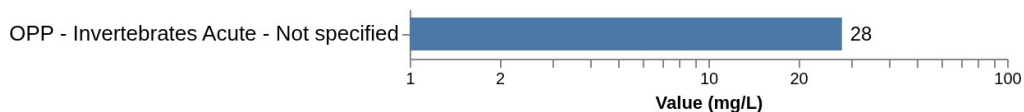


Table 571: Benchmark Values for Imidacloprid urea degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-7	OPP	Freshwater Invertebrates Acute	Not specified	47.4	22

Benchmark Values for Imidacloprid urea degradate in Surface Water (Fresh Water)

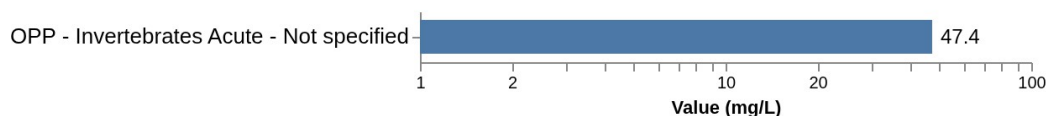


Table 572: Benchmark Values for Imidacloprid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
138261-41-3	Canada	Freshwater Long Term	Not specified	0.000230
138261-41-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.000010
138261-41-3	OPP	Freshwater Invertebrates Acute	Not specified	0.000385
138261-41-3	OPP	Freshwater Fish Chronic	Not specified	9.000000
138261-41-3	OPP	Freshwater Fish Acute	Not specified	114.500000

Benchmark Values for Imidacloprid in Surface Water (Fresh Water)

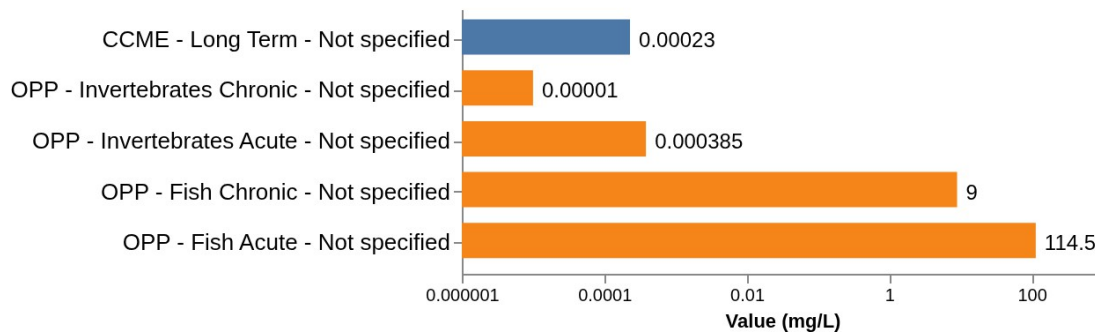


Table 573: Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
193-39-5	EPA Region 4	Chronic Freshwater	Not specified	0.000012	7
193-39-5	EPA Region 4	Acute Freshwater	Not specified	0.000270	7

Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water (Fresh Water)

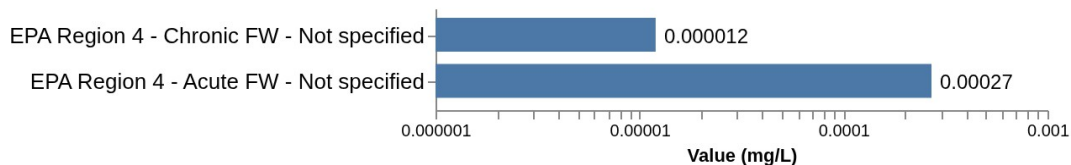


Table 574: Benchmark Values for Indoxacarb degradate- (IN-JT333) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0036	
000000-41-9	OPP	Freshwater Fish Chronic	Not specified	0.0055	
000000-41-9	OPP	Freshwater Fish Acute	Not specified	0.0120	
000000-41-9	OPP	Freshwater Invertebrates Acute	Not specified	0.0145	22

Benchmark Values for Indoxacarb degradate- (IN-JT333) in Surface Water (Fresh Water)

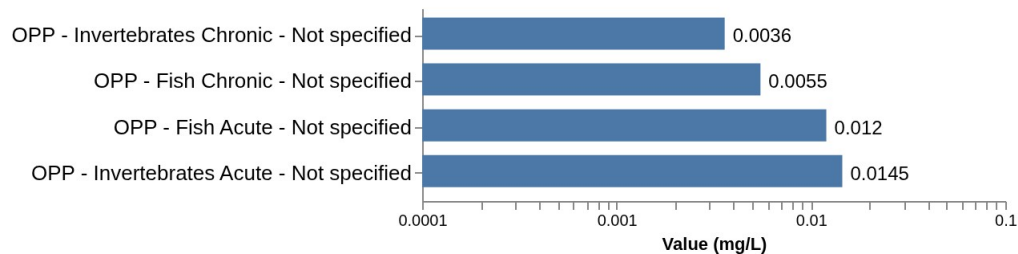


Table 575: Benchmark Values for Indoxacarb degradate (IN-JT333) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-41-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.0036	
000000-41-8	OPP	Freshwater Fish Chronic	Not specified	0.0055	
000000-41-8	OPP	Freshwater Fish Acute	Not specified	0.0120	
000000-41-8	OPP	Freshwater Invertebrates Acute	Not specified	0.0145	22

Benchmark Values for Indoxacarb degradate (IN-JT333) in Surface Water (Fresh Water)

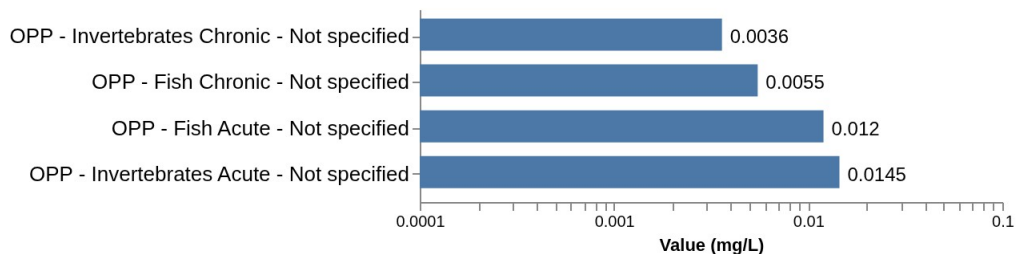


Table 576: Benchmark Values for Indoxacarb degradate (IN-MP819) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.0080	
000000-42-0	OPP	Freshwater Invertebrates Acute	Not specified	0.0320	
000000-42-0	OPP	Freshwater Fish Chronic	Not specified	0.0849	
000000-42-0	OPP	Freshwater Fish Acute	Not specified	0.1840	22

Benchmark Values for Indoxacarb degradate (IN-MP819) in Surface Water (Fresh Water)

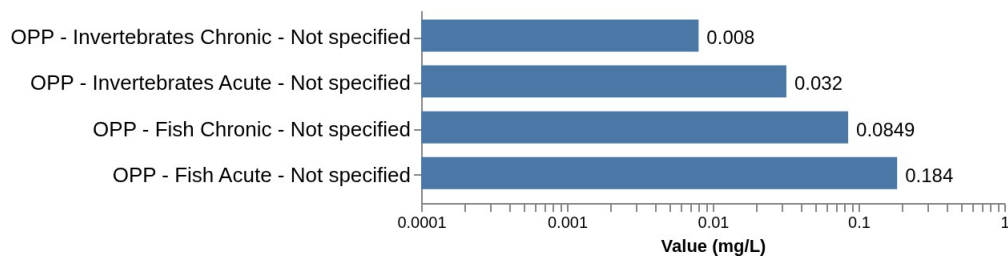


Table 577: Benchmark Values for Indoxacarb degradate– (IN–MP819) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–42–1	OPP	Freshwater Invertebrates Chronic	Not specified	0.0080	
000000–42–1	OPP	Freshwater Invertebrates Acute	Not specified	0.0320	
000000–42–1	OPP	Freshwater Fish Chronic	Not specified	0.0849	
000000–42–1	OPP	Freshwater Fish Acute	Not specified	0.1840	22

Benchmark Values for Indoxacarb degradate- (IN-MP819) in Surface Water (Fresh Water)

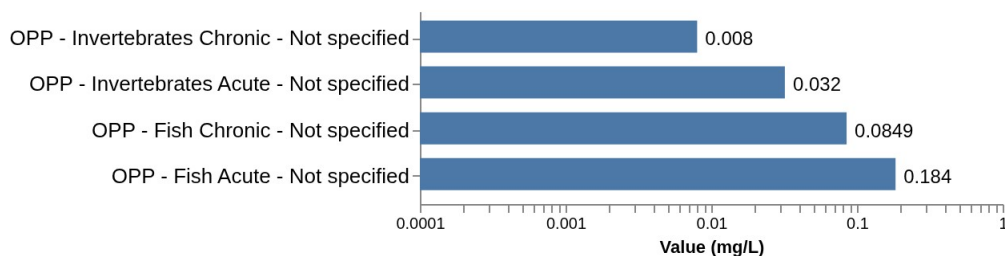


Table 578: Benchmark Values for Indoxacarb degradate (KN127) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–42–2	OPP	Freshwater Fish Acute	Not specified	0.197

Benchmark Values for Indoxacarb degradate (KN127) in Surface Water (Fresh Water)

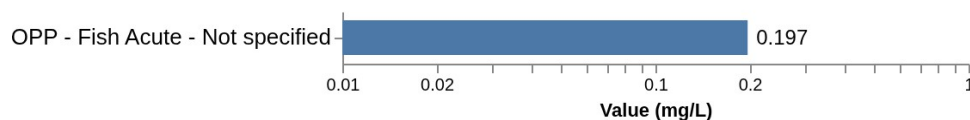


Table 579: Benchmark Values for Indoxacarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
173584-44-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.075	
173584-44-6	OPP	Freshwater Vascular Plant	Not specified	0.084	22
173584-44-6	OPP	Freshwater Nonvascular Plant	Not specified	0.110	22
173584-44-6	OPP	Freshwater Fish Acute	Not specified	0.145	
173584-44-6	OPP	Freshwater Fish Chronic	Not specified	0.150	
173584-44-6	OPP	Freshwater Invertebrates Acute	Not specified	0.300	

Benchmark Values for Indoxacarb in Surface Water (Fresh Water)

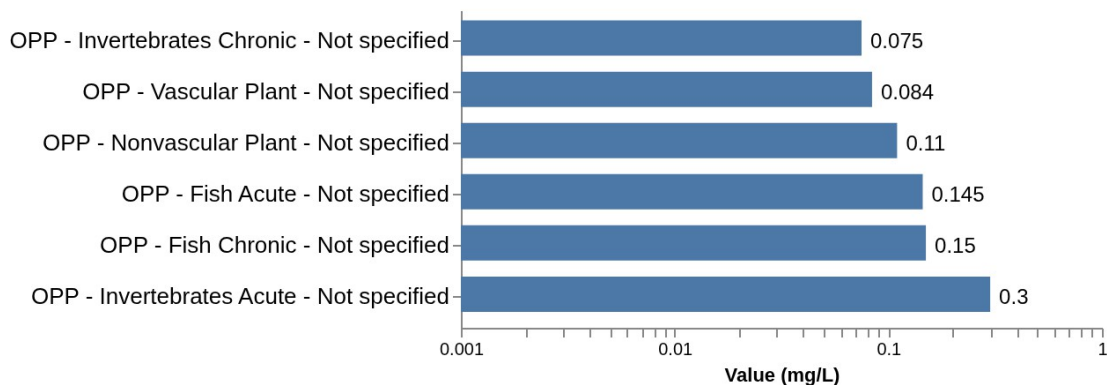


Table 580: Benchmark Values for Iodoform in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-47-8	California	Freshwater acute toxicity	Not specified	11.0

Benchmark Values for Iodoform in Surface Water (Fresh Water)

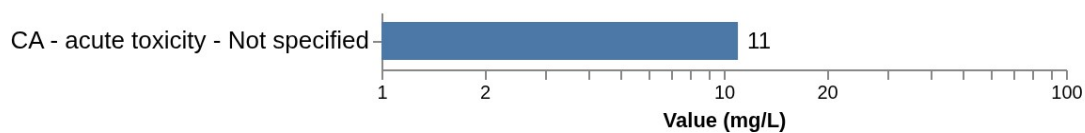


Table 581: Benchmark Values for Iodomethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-88-4	OPP	Freshwater Invertebrates Acute	Not specified	0.285
74-88-4	OPP	Freshwater Fish Acute	Not specified	0.665

Benchmark Values for Iodomethane in Surface Water (Fresh Water)

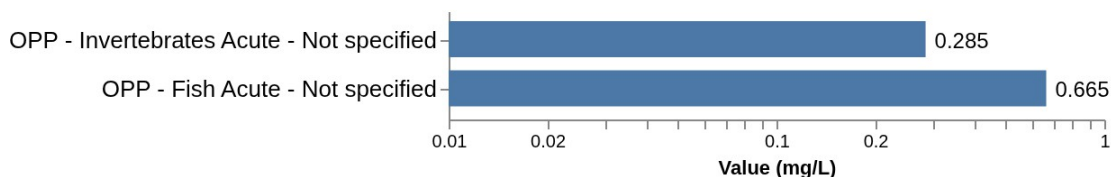


Table 582: Benchmark Values for Iodopropynyl Butylcarbamate (IPBC) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
55406-53-6	Canada	Freshwater Long Term	Not specified	0.0019

Benchmark Values for Iodopropynyl Butylcarbamate (IPBC) in Surface Water (Fresh Water)

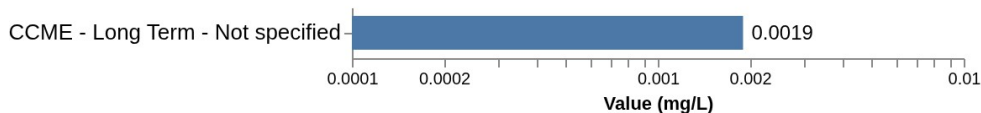


Table 583: Benchmark Values for Iodosulfuron Methyl-Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
144550-36-7	OPP	Freshwater Vascular Plant	Not specified	0.0007	
144550-36-7	OPP	Freshwater Nonvascular Plant	Not specified	0.0410	
144550-36-7	OPP	Freshwater Invertebrates Chronic	Not specified	9.1000	
144550-36-7	OPP	Freshwater Fish Chronic	Not specified	10.2000	
144550-36-7	OPP	Freshwater Invertebrates Acute	Not specified	43.4500	22
144550-36-7	OPP	Freshwater Fish Acute	Not specified	44.0500	22

Benchmark Values for Iodosulfuron Methyl-Sodium in Surface Water (Fresh Water)

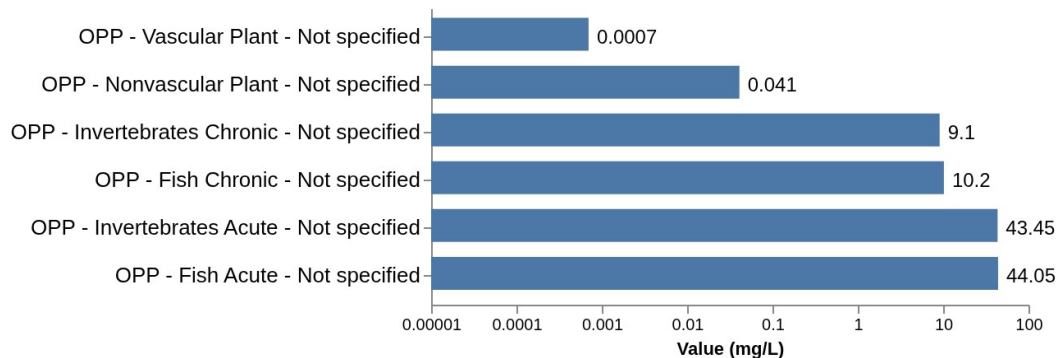


Table 584: Benchmark Values for Ipoconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
125225-28-7	OPP	Freshwater Fish Chronic	Not specified	0.00018
125225-28-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.03040
125225-28-7	OPP	Freshwater Vascular Plant	Not specified	0.35000
125225-28-7	OPP	Freshwater Nonvascular Plant	Not specified	0.65000
125225-28-7	OPP	Freshwater Fish Acute	Not specified	0.76500
125225-28-7	OPP	Freshwater Invertebrates Acute	Not specified	0.85000

Benchmark Values for Ipoconazole in Surface Water (Fresh Water)

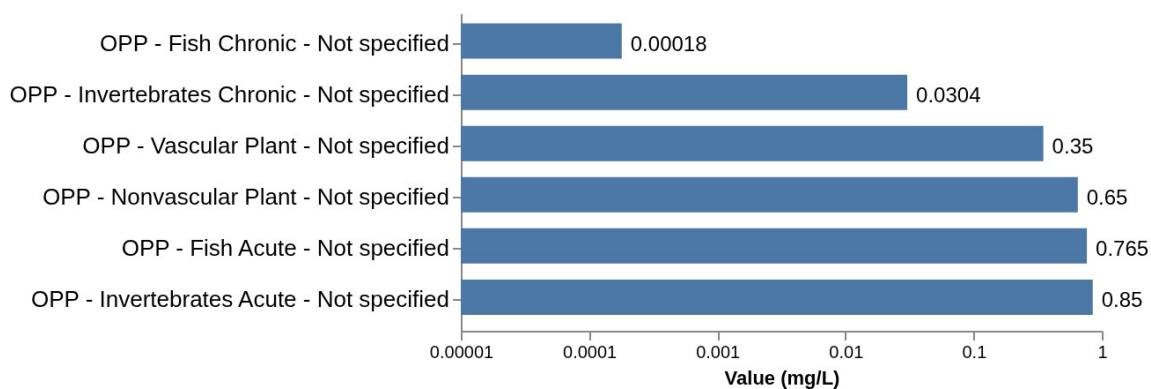


Table 585: Benchmark Values for Iprodione in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
36734-19-7	OPP	Freshwater Invertebrates Acute	Not specified	0.120	
36734-19-7	OPP	Freshwater Fish Chronic	Not specified	0.260	
36734-19-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.288	
36734-19-7	OPP	Freshwater Nonvascular Plant	Not specified	0.330	
36734-19-7	OPP	Freshwater Fish Acute	Not specified	3.080	
36734-19-7	OPP	Freshwater Vascular Plant	Not specified	12.600	22

Benchmark Values for Iprodione in Surface Water (Fresh Water)

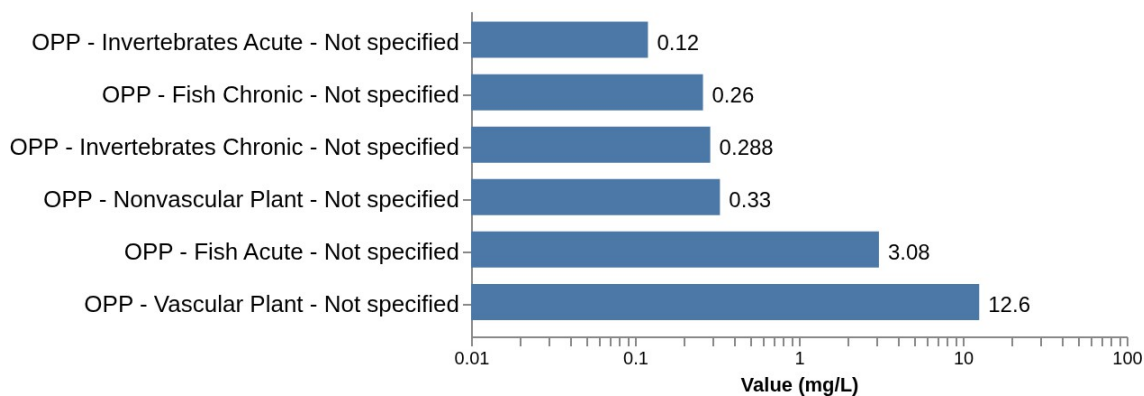


Table 586: Benchmark Values for Iron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-89-6	British Columbia	Freshwater STA	Not specified	0.35
7439-89-6	California	Freshwater CCC, 4-day average	Not specified	1.00
7439-89-6	Canada	Freshwater Long Term	Not specified	0.30
7439-89-6	Delaware	Freshwater Chronic Criterion	Not specified	1.00
7439-89-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.00
7439-89-6	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	1.00
7439-89-6	EPA Region 3	BTAG – Freshwater	Not specified	0.30
7439-89-6	EPA Region 4	Chronic Freshwater	Not specified	1.00
7439-89-6	EPA Region 6	Freshwater Chronic	Not specified	1.00
7439-89-6	Florida	SWQS for Fish Consumption Freshwater	Not specified	1.00

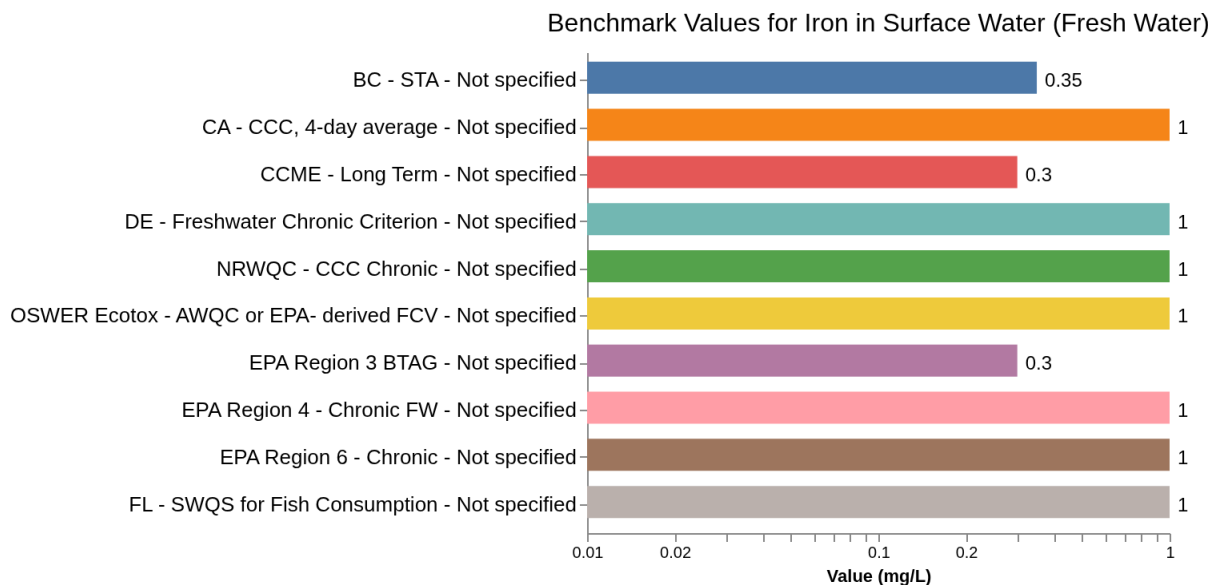


Table 587: Benchmark Values for Isodecyl diphenyl phosphate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
29761-21-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0017
29761-21-5	EPA Region 4	Chronic Freshwater	Not specified	0.0017
29761-21-5	EPA Region 4	Acute Freshwater	Not specified	0.0220

Benchmark Values for Isodecyl diphenyl phosphate in Surface Water (Fresh Water)

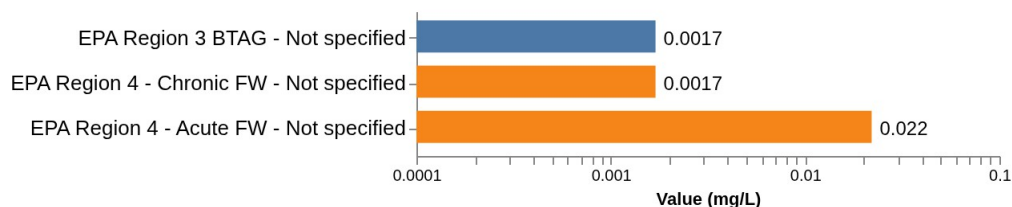


Table 588: Benchmark Values for Isofetamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
875915-78-9	OPP	Freshwater Fish Chronic	Not specified	0.086	
875915-78-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.390	23
875915-78-9	OPP	Freshwater Fish Acute	Not specified	1.135	
875915-78-9	OPP	Freshwater Invertebrates Acute	Not specified	2.350	
875915-78-9	OPP	Freshwater Nonvascular Plant	Not specified	4.100	22
875915-78-9	OPP	Freshwater Vascular Plant	Not specified	4.900	22

Benchmark Values for Isofetamid in Surface Water (Fresh Water)

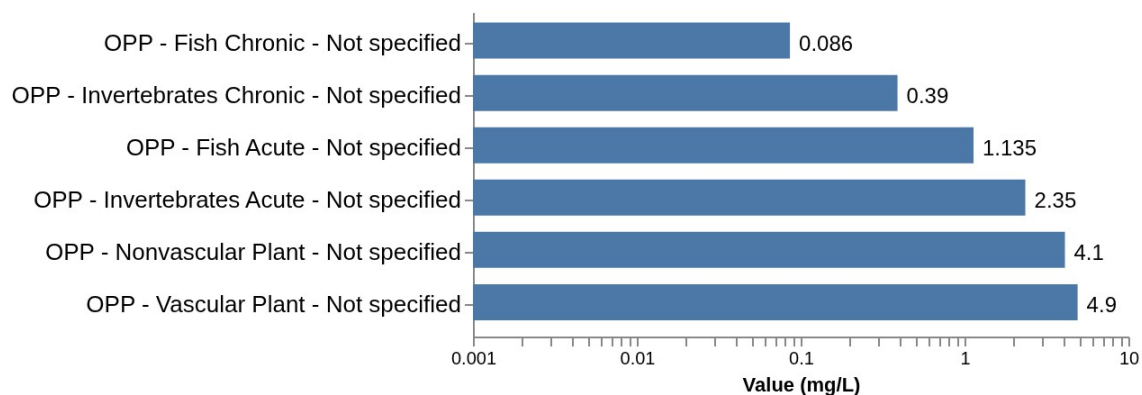


Table 589: Benchmark Values for Isophorone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-59-1	California	Freshwater acute toxicity	Not specified	117.000
78-59-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.117
78-59-1	EPA Region 4	Chronic Freshwater	Not specified	0.920
78-59-1	EPA Region 4	Acute Freshwater	Not specified	7.500
78-59-1	EPA Region 6	Freshwater Chronic	Not specified	6.000
78-59-1	EPA Region 6	Freshwater Acute	Not specified	36.000

Benchmark Values for Isophorone in Surface Water (Fresh Water)

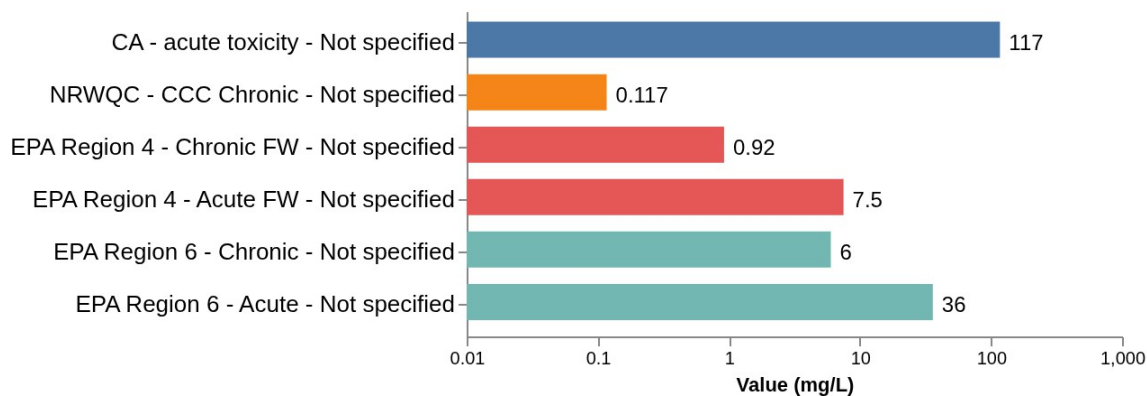


Table 590: Benchmark Values for Isopropanol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-63-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	4.2000	83
67-63-0	EPA Region 3	BTAG – Freshwater	Not specified	0.0075	
67-63-0	EPA Region 4	Chronic Freshwater	Not specified	0.0075	
67-63-0	EPA Region 4	Acute Freshwater	Not specified	0.1300	
67-63-0	EPA Region 6	Freshwater Chronic	Not specified	0.0075	
67-63-0	EPA Region 6	Freshwater Acute	Not specified	0.1300	

Benchmark Values for Isopropanol in Surface Water (Fresh Water)

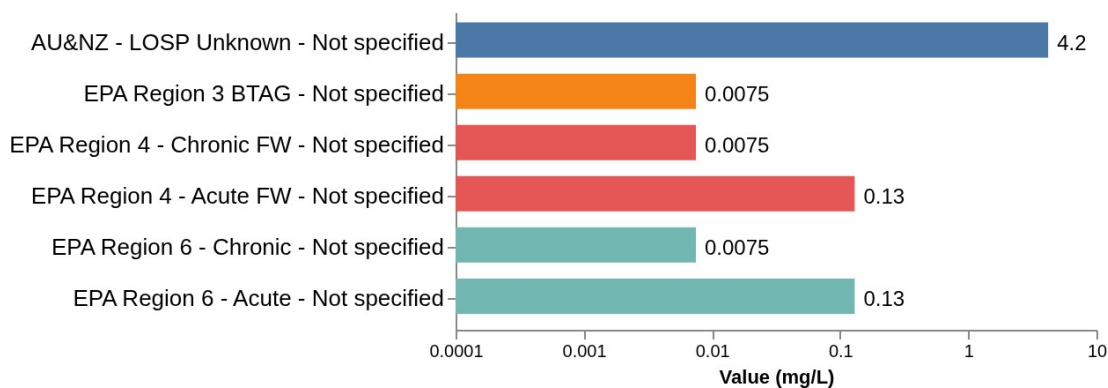


Table 591: Benchmark Values for Isopropyl-2-(otolyl)acetamide, 2-cyano-N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-38-1	OPP	Freshwater Invertebrates Acute	Not specified	25	22

Benchmark Values for Isopropyl-2-(otolyl)acetamide, 2-cyano-N- in Surface Water (Fresh Water)

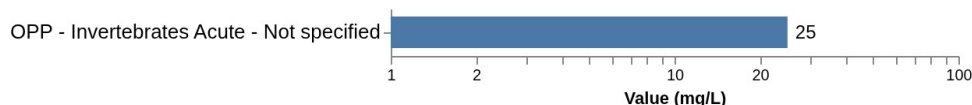


Table 592: Benchmark Values for Isopropyltoluene, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
99-87-6	EPA Region 3	BTAG – Freshwater	Not specified	0.085
99-87-6	EPA Region 4	Chronic Freshwater	Not specified	0.016
99-87-6	EPA Region 4	Acute Freshwater	Not specified	0.150
99-87-6	EPA Region 6	Freshwater Chronic	Not specified	0.042
99-87-6	EPA Region 6	Freshwater Acute	Not specified	0.254

Benchmark Values for Isopropyltoluene, p- in Surface Water (Fresh Water)

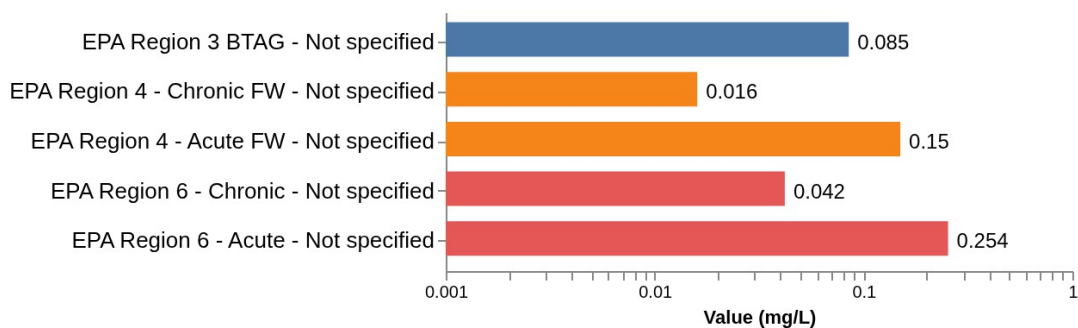


Table 593: Benchmark Values for Isothiazolones, total in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-0	EPA Region 3	BTAG – Freshwater	Not specified	0.001

Benchmark Values for Isothiazolones, total in Surface Water (Fresh Water)

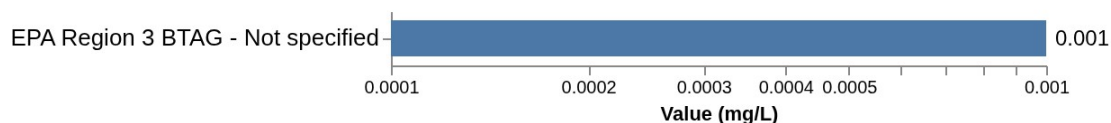


Table 594: Benchmark Values for Isoxaben in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
82558-50-7	OPP	Freshwater Vascular Plant	Not specified	0.010	
82558-50-7	OPP	Freshwater Fish Chronic	Not specified	0.400	
82558-50-7	OPP	Freshwater Fish Acute	Not specified	0.500	22
82558-50-7	OPP	Freshwater Invertebrates Acute	Not specified	0.650	22
82558-50-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.690	
82558-50-7	OPP	Freshwater Nonvascular Plant	Not specified	0.922	

Benchmark Values for Isoxaben in Surface Water (Fresh Water)

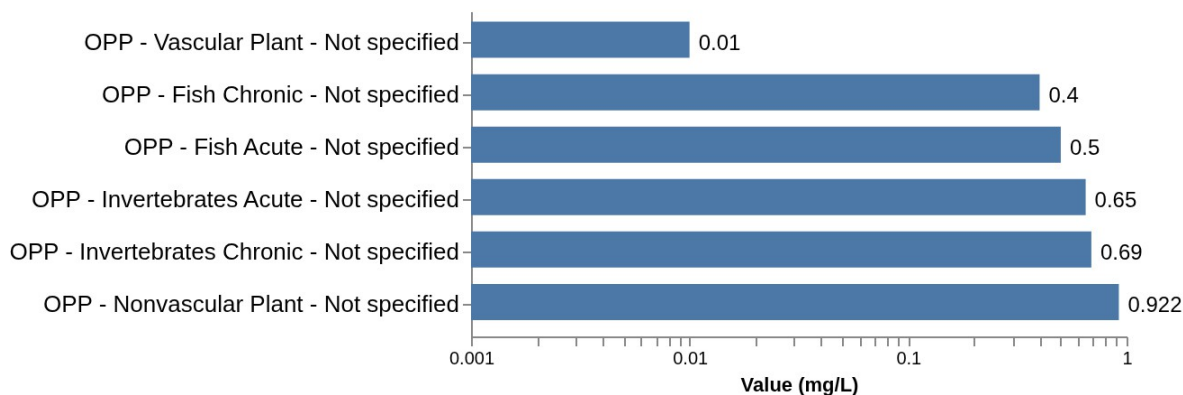


Table 595: Benchmark Values for Isoxaflutole – rpa202248 (degradate) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-3	OPP	Freshwater Vascular Plant	Not specified	0.075	
000000-42-3	OPP	Freshwater Nonvascular Plant	Not specified	5.000	
000000-42-3	OPP	Freshwater Fish Acute	Not specified	15.300	22
000000-42-3	OPP	Freshwater Invertebrates Acute	Not specified	29.800	22

Benchmark Values for Isoxaflutole - rpa202248 (degradate) in Surface Water (Fresh Water)

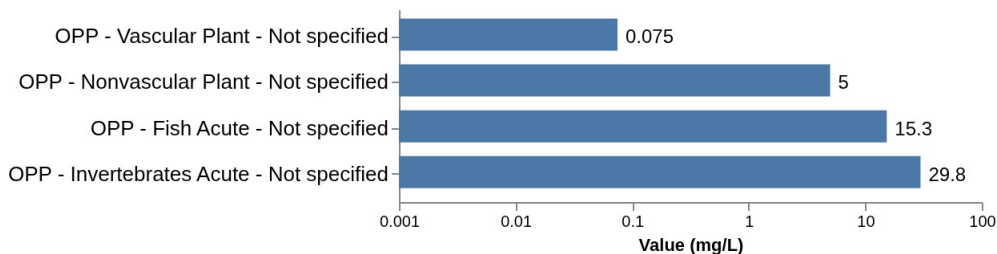


Table 596: Benchmark Values for Isoxaflutole – rpa203328 (degradate) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–31–3	OPP	Freshwater Nonvascular Plant	Not specified	6.9	
000000–31–3	OPP	Freshwater Invertebrates Chronic	Not specified	8.1	
000000–31–3	OPP	Freshwater Vascular Plant	Not specified	9.8	22
000000–31–3	OPP	Freshwater Invertebrates Acute	Not specified	75.0	22
000000–31–3	OPP	Freshwater Fish Acute	Not specified	80.0	22

Benchmark Values for Isoxaflutole - rpa203328 (degradate) in Surface Water (Fresh Water)

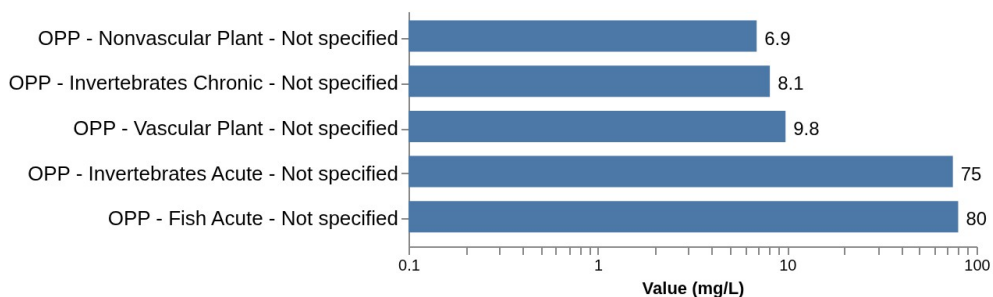


Table 597: Benchmark Values for Isoxaflutole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
141112–29–0	OPP	Freshwater Vascular Plant	Not specified	0.0049	
141112–29–0	OPP	Freshwater Fish Chronic	Not specified	0.0800	
141112–29–0	OPP	Freshwater Nonvascular Plant	Not specified	0.1100	
141112–29–0	OPP	Freshwater Invertebrates Chronic	Not specified	0.3500	
141112–29–0	OPP	Freshwater Invertebrates Acute	Not specified	0.7500	22
141112–29–0	OPP	Freshwater Fish Acute	Not specified	0.8500	

Benchmark Values for Isoxaflutole in Surface Water (Fresh Water)

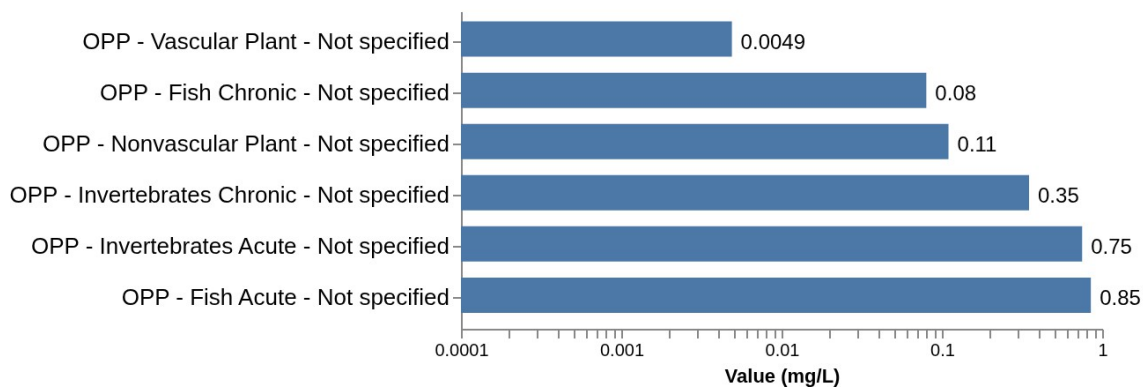


Table 598: Benchmark Values for Kasugamycin mono-hydrochloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
19408-46-9	OPP	Freshwater Nonvascular Plant	Not specified	0.65	
19408-46-9	OPP	Freshwater Fish Chronic	Not specified	9.50	
19408-46-9	OPP	Freshwater Invertebrates Acute	Not specified	33.10	22
19408-46-9	OPP	Freshwater Fish Acute	Not specified	55.00	22
19408-46-9	OPP	Freshwater Vascular Plant	Not specified	86.00	

Benchmark Values for Kasugamycin mono-hydrochloride in Surface Water (Fresh Water)

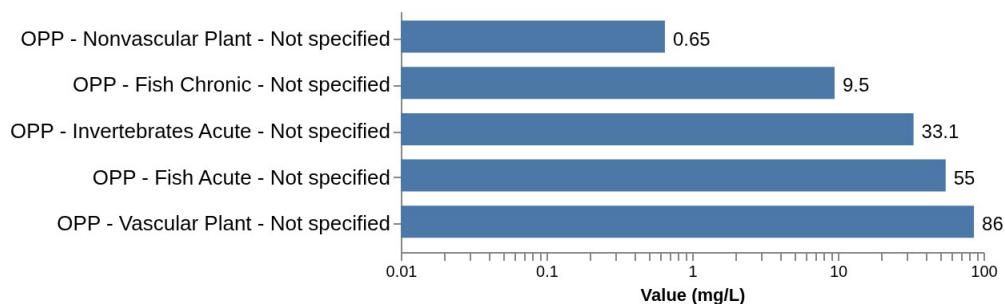


Table 599: Benchmark Values for Kathon 930 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
64359-81-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00040
64359-81-5	OPP	Freshwater Fish Chronic	Not specified	0.00042
64359-81-5	OPP	Freshwater Fish Acute	Not specified	0.00070
64359-81-5	OPP	Freshwater Invertebrates Acute	Not specified	0.00260
64359-81-5	OPP	Freshwater Nonvascular Plant	Not specified	0.01800
64359-81-5	OPP	Freshwater Vascular Plant	Not specified	0.16600

Benchmark Values for Kathon 930 in Surface Water (Fresh Water)

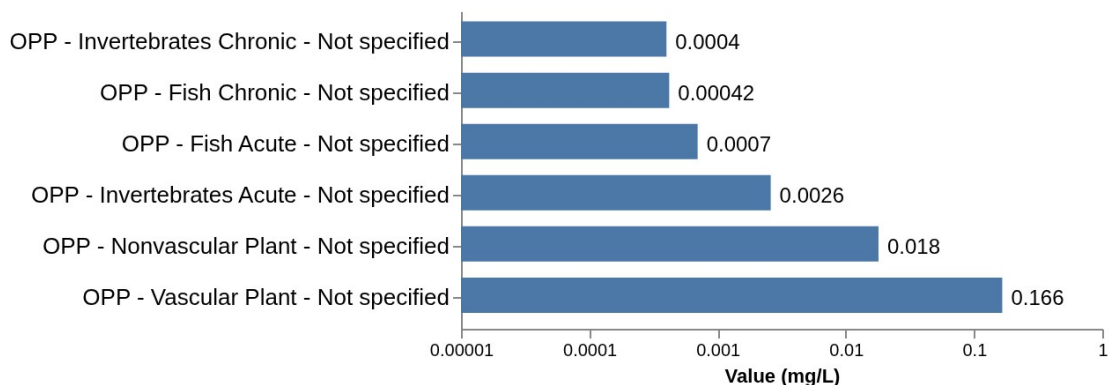


Table 600: Benchmark Values for Kresoxim-methyl degradate (BF490-1) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-4	OPP	Freshwater Invertebrates Acute	Not specified	50	22
000000-42-4	OPP	Freshwater Fish Acute	Not specified	52	22

Benchmark Values for Kresoxim-methyl degradate (BF490-1) in Surface Water (Fresh Water)

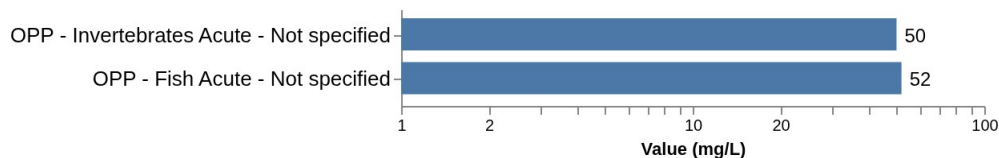


Table 601: Benchmark Values for Kresoxim-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
143390-89-0	OPP	Freshwater Nonvascular Plant	Not specified	0.0303	
143390-89-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.0550	
143390-89-0	OPP	Freshwater Fish Chronic	Not specified	0.0870	
143390-89-0	OPP	Freshwater Fish Acute	Not specified	0.0950	
143390-89-0	OPP	Freshwater Invertebrates Acute	Not specified	0.1660	
143390-89-0	OPP	Freshwater Vascular Plant	Not specified	0.3010	22

Benchmark Values for Kresoxim-methyl in Surface Water (Fresh Water)

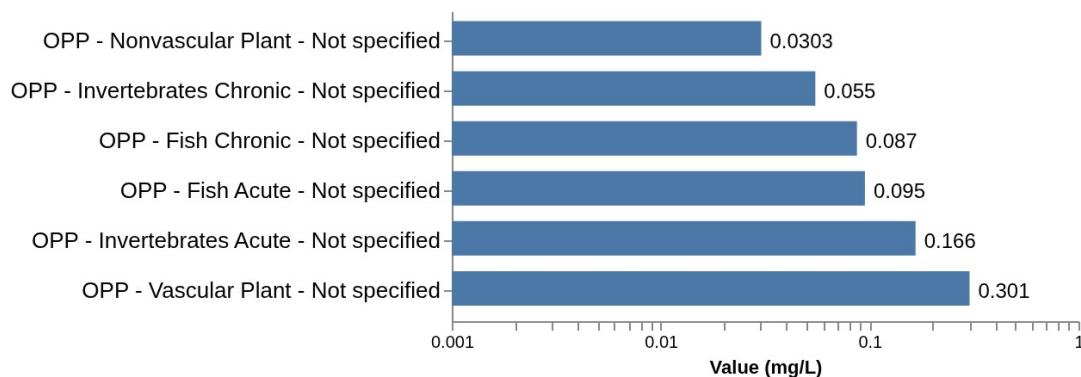


Table 602: Benchmark Values for Lactofen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
77501-63-4	OPP	Freshwater Nonvascular Plant	Not specified	0.00044
77501-63-4	OPP	Freshwater Fish Chronic	Not specified	0.00140
77501-63-4	OPP	Freshwater Vascular Plant	Not specified	0.02300
77501-63-4	OPP	Freshwater Fish Acute	Not specified	0.23000
77501-63-4	OPP	Freshwater Invertebrates Acute	Not specified	2.42500

Benchmark Values for Lactofen in Surface Water (Fresh Water)

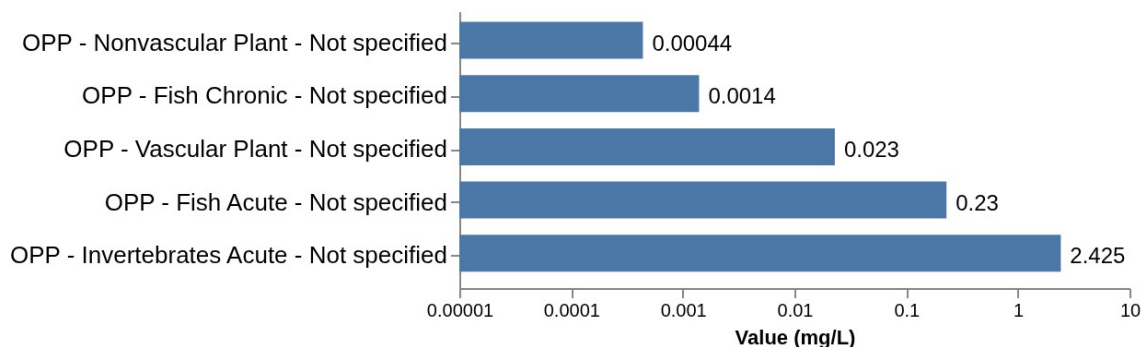


Table 603: Benchmark Values for Lambda cyhalothrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91465-08-6	OPP	Freshwater Invertebrates Acute	Not specified	4.000000e-08	
91465-08-6	OPP	Freshwater Invertebrates Chronic	Not specified	2.200000e-07	
91465-08-6	OPP	Freshwater Fish Acute	Not specified	1.450000e-05	
91465-08-6	OPP	Freshwater Fish Chronic	Not specified	3.100000e-05	
91465-08-6	OPP	Freshwater Vascular Plant	Not specified	5.080000e-04	22
91465-08-6	OPP	Freshwater Nonvascular Plant	Not specified	3.100000e-01	22

Benchmark Values for Lambda cyhalothrin in Surface Water (Fresh Water)

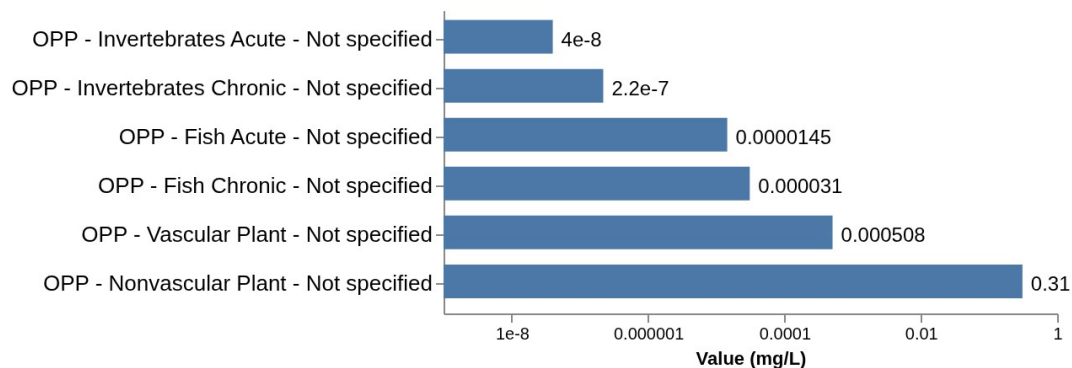


Table 604: Benchmark Values for Lead and Compounds in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-92-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.001	88, 104
7439-92-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0034	88, 89, 104
7439-92-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0056	88, 104
7439-92-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0094	88, 94, 104
7439-92-1	British Columbia	Freshwater LTC	Not specified		117
7439-92-1	Canada	Freshwater Long Term	Not specified		60
7439-92-1	Delaware	Freshwater Chronic Criterion	Not specified		236, 246
7439-92-1	Delaware	Freshwater Acute Criterion	Not specified		236, 245
7439-92-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0025	
7439-92-1	EPA NRWQC	Freshwater CMC Acute	Not specified	0.065	
7439-92-1	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.0025	157
7439-92-1	EPA Region 3	BTAG – Freshwater	Not specified	0.0025	
7439-92-1	EPA Region 4	Chronic Freshwater	Not specified	0.00125	1, 2
7439-92-1	EPA Region 4	Acute Freshwater	Not specified	0.0301	1, 2
7439-92-1	EPA Region 6	Freshwater Chronic	Not specified	0.00117	21
7439-92-1	EPA Region 6	Freshwater Acute	Not specified	0.03014	21
7439-92-1	New Jersey	Freshwater Chronic	Not specified	0.0054	199, 200
7439-92-1	New Jersey	Freshwater Acute	Not specified	0.038	199, 200

Benchmark Values for Lead and Compounds in Surface Water (Fresh Water)

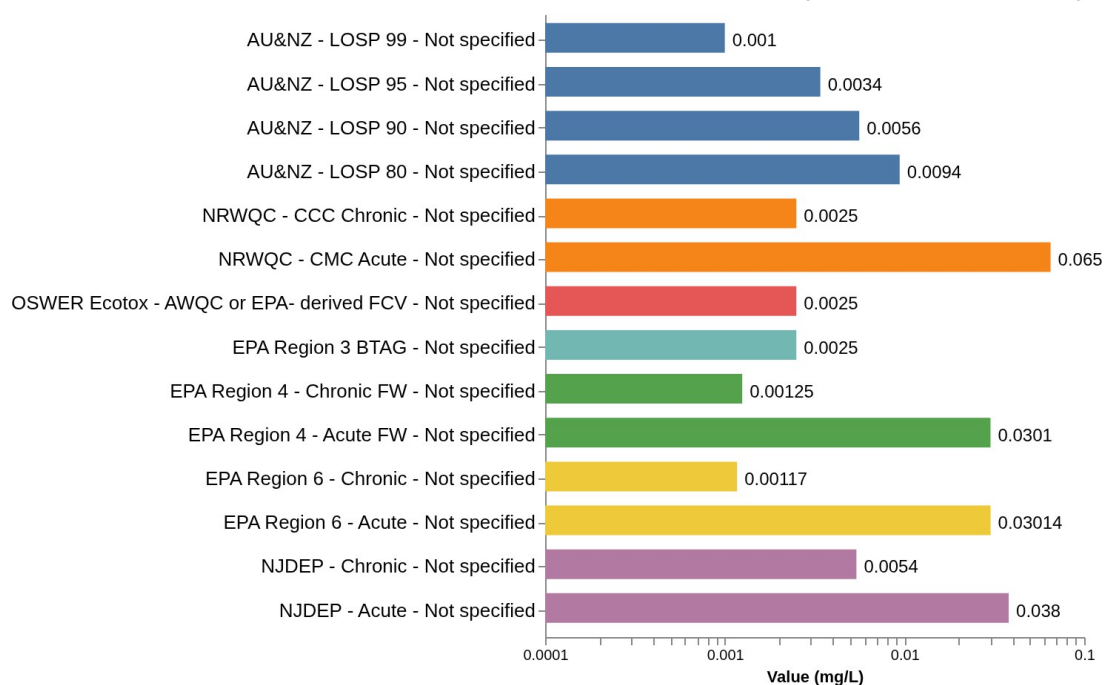


Table 605: Benchmark Values for Limonene, d- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
5989-27-5	OPP	Freshwater Nonvascular Plant	Not specified	9.353
5989-27-5	OPP	Freshwater Invertebrates Acute	Not specified	19.500
5989-27-5	OPP	Freshwater Vascular Plant	Not specified	29.650
5989-27-5	OPP	Freshwater Fish Acute	Not specified	40.000

Benchmark Values for Limonene, d- in Surface Water (Fresh Water)

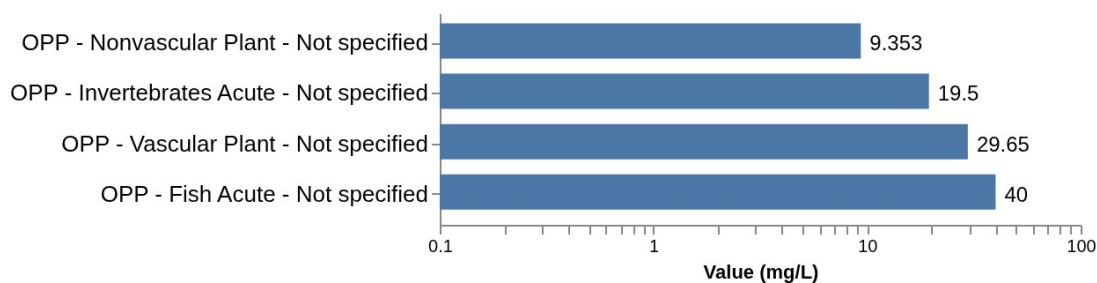


Table 606: Benchmark Values for Linear alkyl benzene sulfates (LAS) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-08-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.065	87
000000-08-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.280	87, 89
000000-08-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.520	87, 94
000000-08-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.000	87, 94
000000-08-1	EPA Region 3	BTAG - Freshwater	Not specified	0.040	

Benchmark Values for Linear alkyl benzene sulfates (LAS) in Surface Water (Fresh Water)

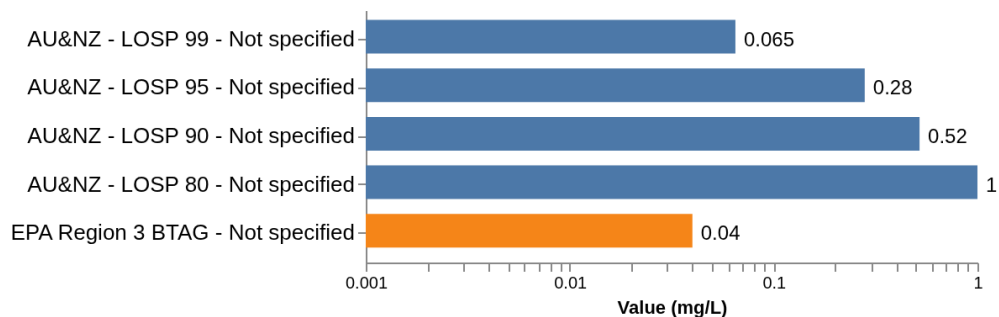


Table 607: Benchmark Values for Linuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
330-55-2	Canada	Freshwater Long Term	Not specified	0.00700
330-55-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.00009
330-55-2	OPP	Freshwater Vascular Plant	Not specified	0.00250
330-55-2	OPP	Freshwater Fish Chronic	Not specified	0.00558
330-55-2	OPP	Freshwater Nonvascular Plant	Not specified	0.01370
330-55-2	OPP	Freshwater Invertebrates Acute	Not specified	0.06000
330-55-2	OPP	Freshwater Fish Acute	Not specified	1.50000

Benchmark Values for Linuron in Surface Water (Fresh Water)

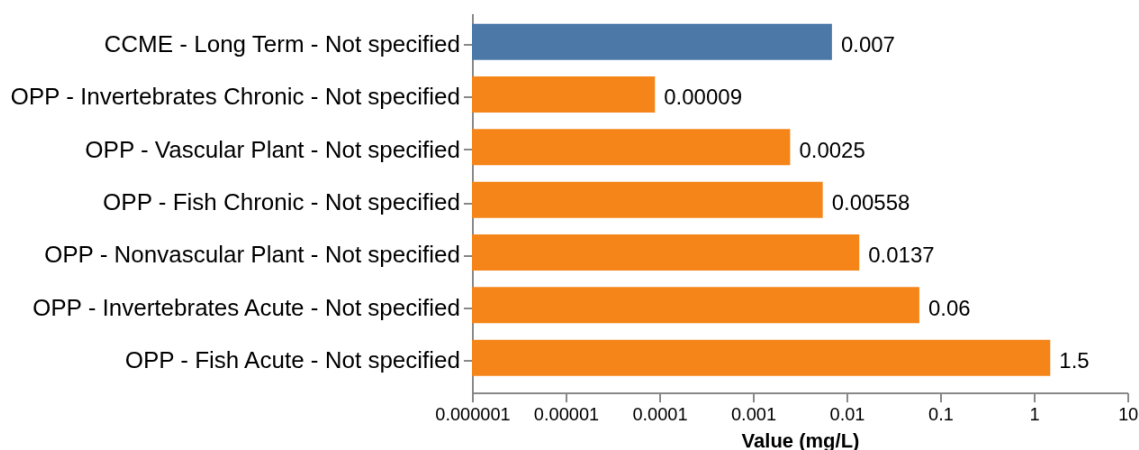


Table 608: Benchmark Values for Lithium perfluorooctanesulfonate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
29457-72-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
29457-72-5	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	

Benchmark Values for Lithium perfluorooctanesulfonate in Surface Water (Fresh Water)

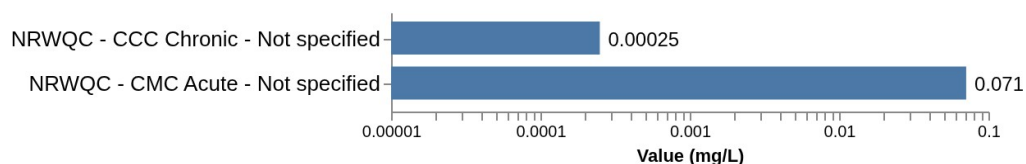


Table 609: Benchmark Values for Lithium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-93-2	EPA Region 3	BTAG – Freshwater	Not specified	0.014
7439-93-2	EPA Region 4	Chronic Freshwater	Not specified	0.440
7439-93-2	EPA Region 4	Acute Freshwater	Not specified	0.910
7439-93-2	EPA Region 6	Freshwater Chronic	Not specified	0.014
7439-93-2	EPA Region 6	Freshwater Acute	Not specified	0.258

Benchmark Values for Lithium in Surface Water (Fresh Water)

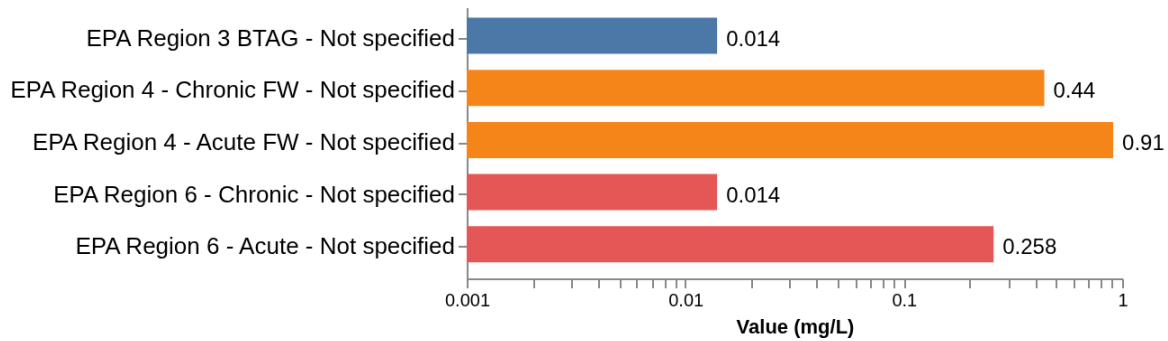


Table 610: Benchmark Values for Magnesium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-95-4	EPA Region 3	BTAG – Freshwater	Not specified	82
7439-95-4	EPA Region 4	Chronic Freshwater	Not specified	82

Benchmark Values for Magnesium in Surface Water (Fresh Water)

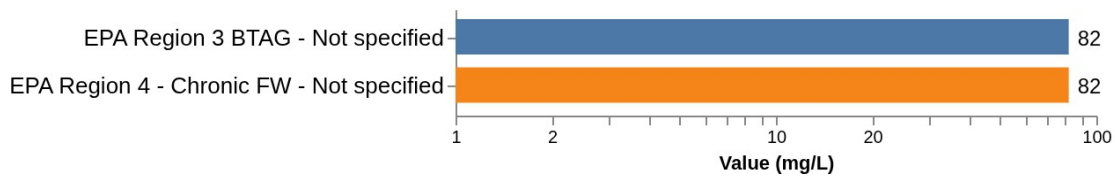


Table 611: Benchmark Values for Malathion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-75-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000002	88
121-75-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000050	88, 89
121-75-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000200	88
121-75-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.001100	88, 92
121-75-5	California	Freshwater instantaneous max	Not specified	0.000100	
121-75-5	California	Freshwater CMC, 1-hour average	Not specified	0.000430	
121-75-5	Delaware	Freshwater Chronic Criterion	Not specified	0.000100	
121-75-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000100	
121-75-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000097	
121-75-5	EPA Region 3	BTAG – Freshwater	Not specified	0.000097	
121-75-5	EPA Region 4	Chronic Freshwater	Not specified	0.000100	
121-75-5	EPA Region 4	Acute Freshwater	Not specified	0.000300	
121-75-5	EPA Region 6	Freshwater Chronic	Not specified	0.000010	
121-75-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000100	
121-75-5	New Jersey	Freshwater Chronic	Not specified	0.000100	
121-75-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000049	
121-75-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000060	
121-75-5	OPP	Freshwater Chronic	Not specified	0.000100	
121-75-5	OPP	Freshwater Fish Acute	Not specified	0.002050	
121-75-5	OPP	Freshwater Fish Chronic	Not specified	0.008600	
121-75-5	OPP	Freshwater Nonvascular Plant	Not specified	2.040000	
121-75-5	OPP	Freshwater Vascular Plant	Not specified	24.000000	

Benchmark Values for Malathion in Surface Water (Fresh Water)

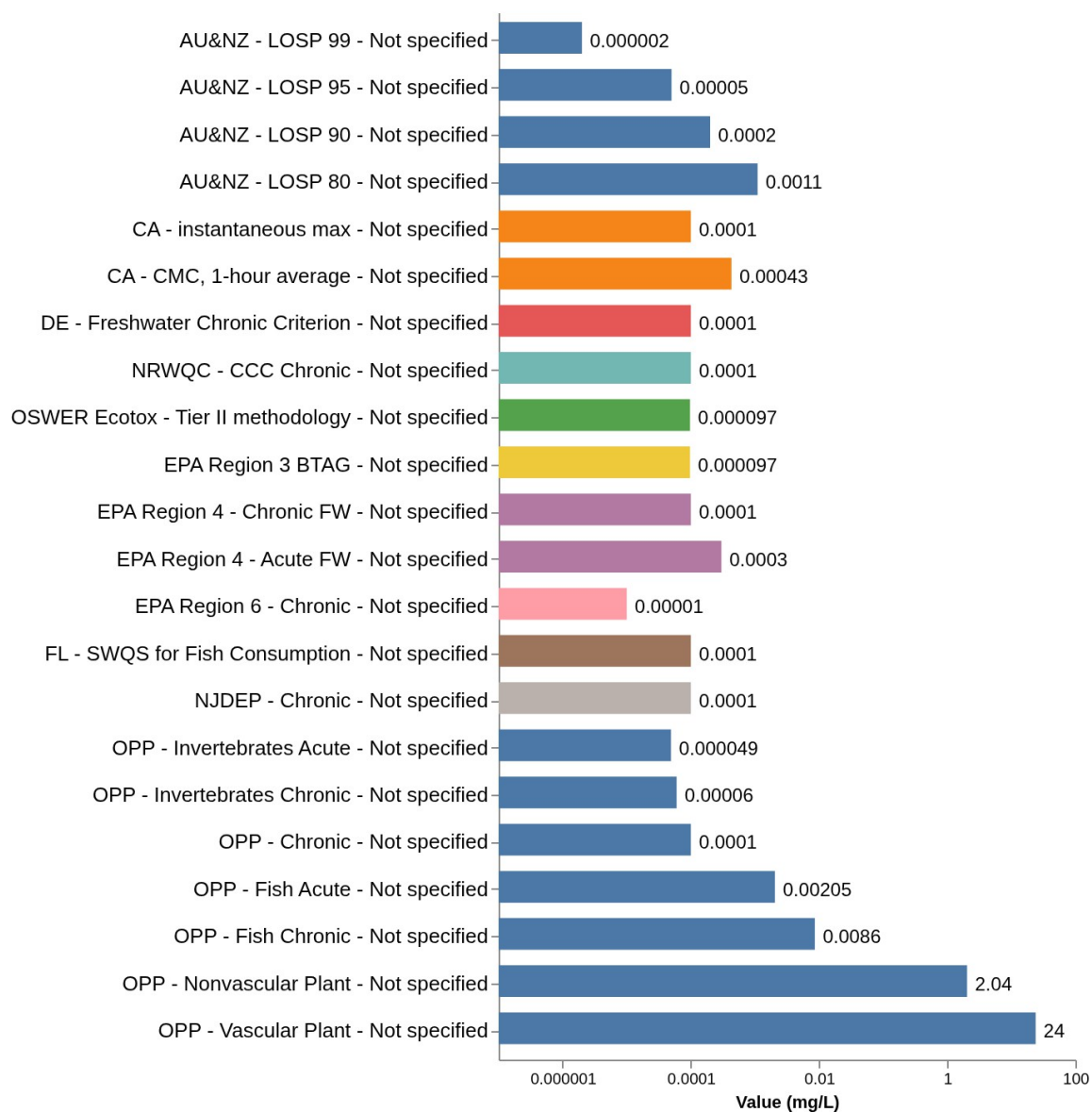


Table 612: Benchmark Values for Maleic Hydrazide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
123-33-1	OPP	Freshwater Fish Chronic	Not specified	9.60	
123-33-1	OPP	Freshwater Invertebrates Acute	Not specified	53.75	
123-33-1	OPP	Freshwater Nonvascular Plant	Not specified	95.00	22
123-33-1	OPP	Freshwater Invertebrates Chronic	Not specified	99.00	
123-33-1	OPP	Freshwater Vascular Plant	Not specified	114.00	
123-33-1	OPP	Freshwater Fish Acute	Not specified	120.00	22

Benchmark Values for Maleic Hydrazide in Surface Water (Fresh Water)

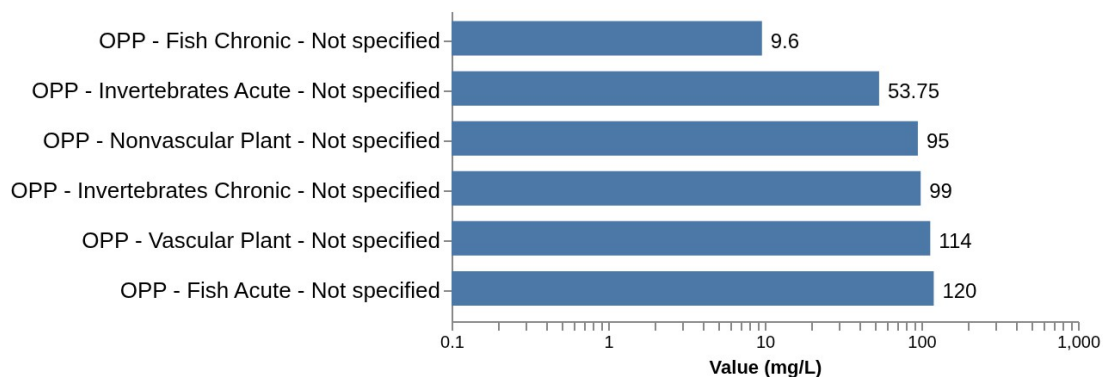


Table 613: Benchmark Values for Mancozeb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
8018-01-7	OPP	Freshwater Fish Chronic	Not specified	0.00135
8018-01-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.01800
8018-01-7	OPP	Freshwater Nonvascular Plant	Not specified	0.04700
8018-01-7	OPP	Freshwater Fish Acute	Not specified	0.45500
8018-01-7	OPP	Freshwater Invertebrates Acute	Not specified	0.52000

Benchmark Values for Mancozeb in Surface Water (Fresh Water)

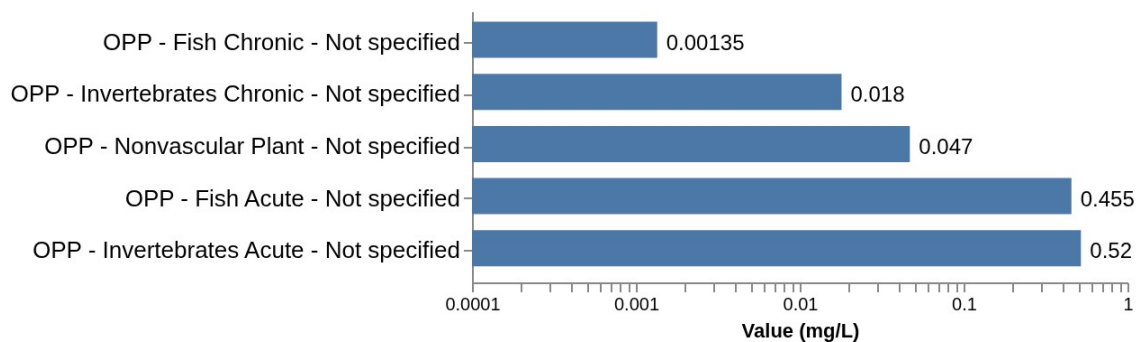
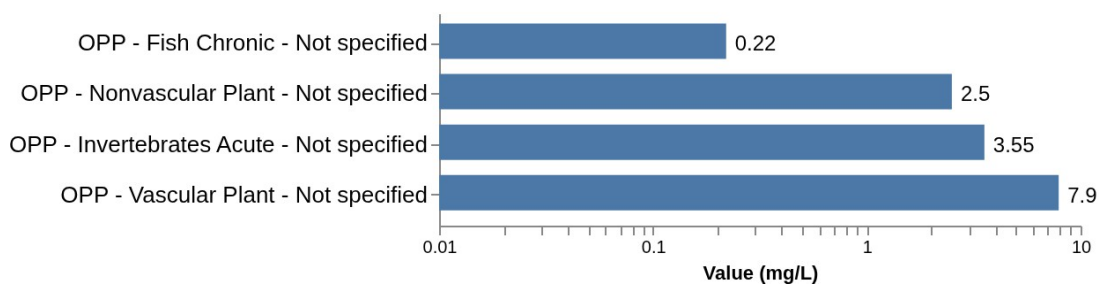


Table 614: Benchmark Values for Mandipropamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
374726-62-2	OPP	Freshwater Fish Chronic	Not specified	0.22	
374726-62-2	OPP	Freshwater Nonvascular Plant	Not specified	2.50	22
374726-62-2	OPP	Freshwater Invertebrates Acute	Not specified	3.55	
374726-62-2	OPP	Freshwater Vascular Plant	Not specified	7.90	22

Benchmark Values for Mandipropamid in Surface Water (Fresh Water)**Table 615: Benchmark Values for Maneb in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
12427-38-2	OPP	Freshwater Fish Chronic	Not specified	0.0061
12427-38-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0134
12427-38-2	OPP	Freshwater Fish Acute	Not specified	0.0210
12427-38-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0600

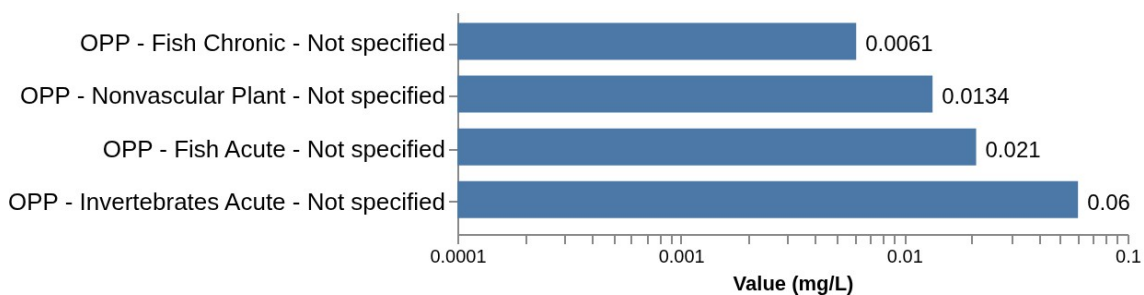
Benchmark Values for Maneb in Surface Water (Fresh Water)

Table 616: Benchmark Values for Manganese (Diet) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-96-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	1.2	88
7439-96-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	1.9	88, 90
7439-96-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	2.5	88, 94
7439-96-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	3.6	88, 94
7439-96-5	British Columbia	Freshwater STA	Not specified		119
7439-96-5	British Columbia	Freshwater LTC	Not specified		126
7439-96-5	Canada	Freshwater Short Term	Not specified		56
7439-96-5	Canada	Freshwater Long Term	Not specified		61
7439-96-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.08	
7439-96-5	EPA Region 3	BTAG – Freshwater	Not specified	0.12	
7439-96-5	EPA Region 4	Chronic Freshwater	Not specified	0.093	
7439-96-5	EPA Region 4	Acute Freshwater	Not specified	1.68	
7439-96-5	EPA Region 6	Freshwater Chronic	Not specified	1.31	21
7439-96-5	EPA Region 6	Freshwater Acute	Not specified	2.37	21

Benchmark Values for Manganese (Diet) in Surface Water (Fresh Water)

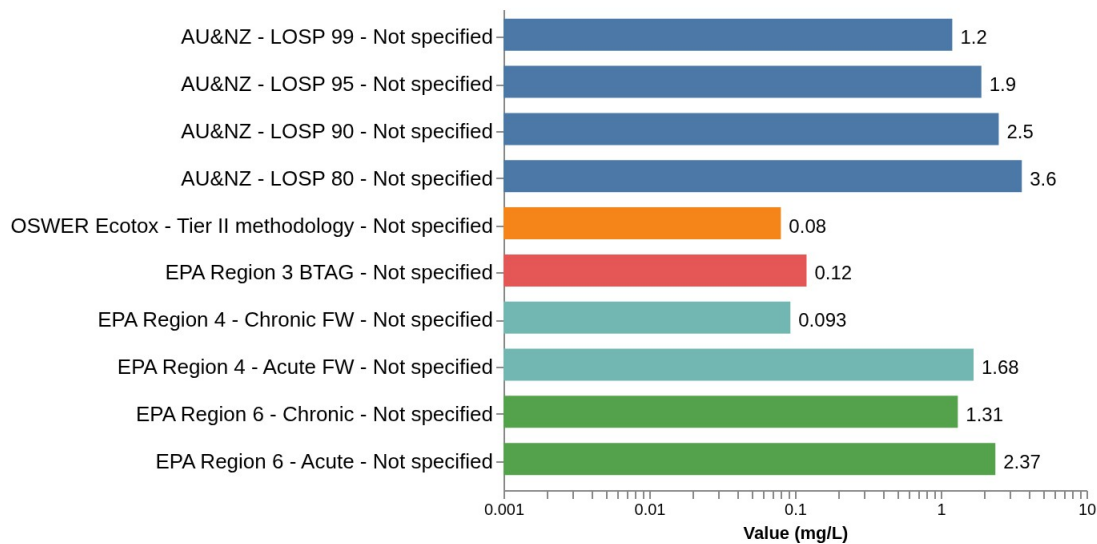


Table 617: Benchmark Values for MCPB Sodium Salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
6062-26-6	OPP	Freshwater Vascular Plant	Not specified	0.21
6062-26-6	OPP	Freshwater Nonvascular Plant	Not specified	0.38
6062-26-6	OPP	Freshwater Fish Acute	Not specified	1.95
6062-26-6	OPP	Freshwater Invertebrates Acute	Not specified	25.00

Benchmark Values for MCPB Sodium Salt in Surface Water (Fresh Water)

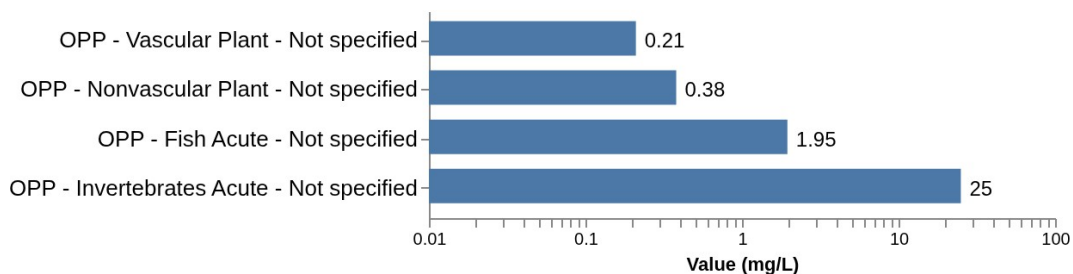


Table 618: Benchmark Values for MCPP-p in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16484-77-8	OPP	Freshwater Nonvascular Plant	Not specified	0.014	
16484-77-8	OPP	Freshwater Vascular Plant	Not specified	1.300	
16484-77-8	OPP	Freshwater Invertebrates Acute	Not specified	45.500	22
16484-77-8	OPP	Freshwater Fish Acute	Not specified	46.500	22
16484-77-8	OPP	Freshwater Invertebrates Chronic	Not specified	50.800	

Benchmark Values for MCPP-p in Surface Water (Fresh Water)

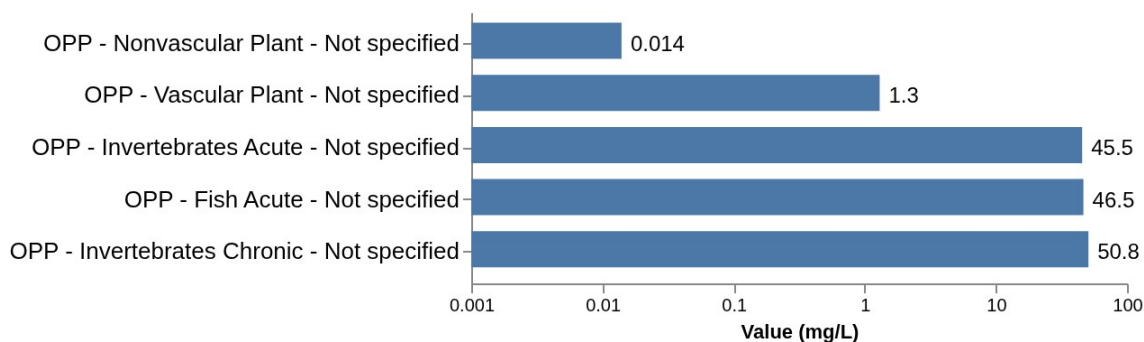


Table 619: Benchmark Values for MCP-P-dimethylammonium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
66423-09-4	OPP	Freshwater Nonvascular Plant	Not specified	0.014	
66423-09-4	OPP	Freshwater Vascular Plant	Not specified	1.300	
66423-09-4	OPP	Freshwater Fish Acute	Not specified	46.500	22

Benchmark Values for MCP-P-dimethylammonium in Surface Water (Fresh Water)

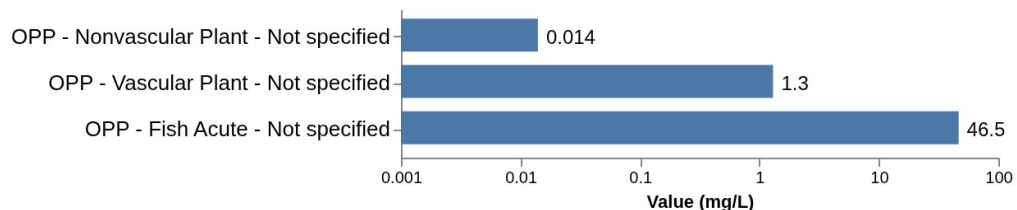


Table 620: Benchmark Values for Mefenoxam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
70630-17-0	OPP	Freshwater Invertebrates Chronic	Not specified	1.2	
70630-17-0	OPP	Freshwater Fish Chronic	Not specified	9.1	
70630-17-0	OPP	Freshwater Invertebrates Acute	Not specified	26.9	
70630-17-0	OPP	Freshwater Fish Acute	Not specified	55.0	22
70630-17-0	OPP	Freshwater Vascular Plant	Not specified	77.0	

Benchmark Values for Mefenoxam in Surface Water (Fresh Water)

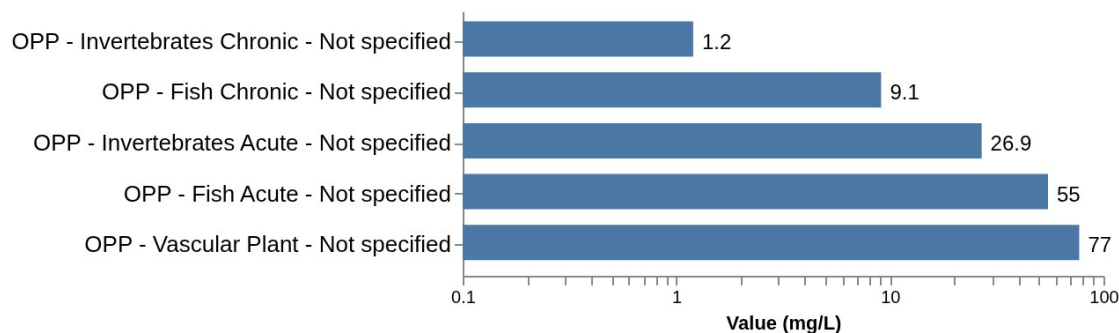


Table 621: Benchmark Values for Melamine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-78-1	OPP	Freshwater Invertebrates Chronic	Not specified	18	
108-78-1	OPP	Freshwater Invertebrates Acute	Not specified	30	
108-78-1	OPP	Freshwater Fish Acute	Not specified	60	22
108-78-1	OPP	Freshwater Fish Chronic	Not specified	500	
108-78-1	OPP	Freshwater Nonvascular Plant	Not specified	940	

Benchmark Values for Melamine in Surface Water (Fresh Water)

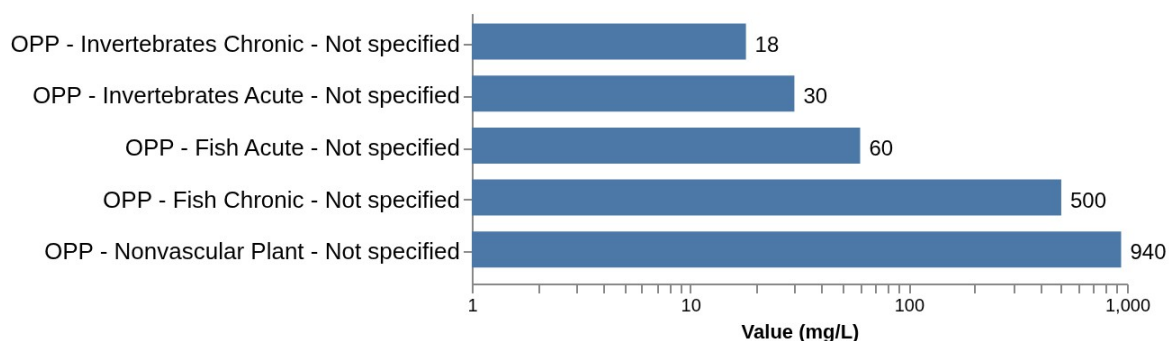


Table 622: Benchmark Values for Mepiquat Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
24307-26-4	OPP	Freshwater Vascular Plant	Not specified	0.184	22
24307-26-4	OPP	Freshwater Nonvascular Plant	Not specified	0.184	22
24307-26-4	OPP	Freshwater Invertebrates Chronic	Not specified	12.500	
24307-26-4	OPP	Freshwater Invertebrates Acute	Not specified	25.400	
24307-26-4	OPP	Freshwater Fish Chronic	Not specified	105.500	
24307-26-4	OPP	Freshwater Fish Acute	Not specified	365.000	

Benchmark Values for Mepiquat Chloride in Surface Water (Fresh Water)

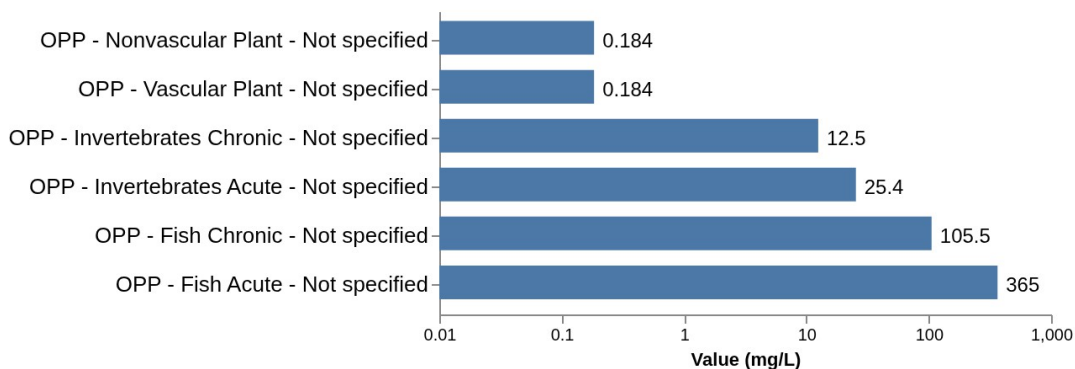


Table 623: Benchmark Values for Mercury (elemental) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-97-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000060	88, 89, 97
7439-97-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000600	88, 97
7439-97-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.001900	88, 94, 97
7439-97-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.005400	88, 92, 97
7439-97-6	British Columbia	Freshwater LTC	Not specified	0.000020	127
7439-97-6	California	Freshwater CCC, 4-day average	Not specified	0.000770	214
7439-97-6	California	Freshwater CMC, 1-hour average	Not specified	0.001400	214
7439-97-6	Canada	Freshwater Long Term	Not specified	0.000026	
7439-97-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000770	
7439-97-6	EPA NRWQC	Freshwater CMC Acute	Not specified	0.001400	
7439-97-6	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.001300	
7439-97-6	EPA Region 3	BTAG – Freshwater	Not specified	0.000026	
7439-97-6	EPA Region 4	Chronic Freshwater	Wildlife only	0.000001	7
7439-97-6	EPA Region 4	Acute Freshwater	Wildlife only	0.000012	7
7439-97-6	EPA Region 4	Chronic Freshwater	Aquatic only	0.000770	1, 7
7439-97-6	EPA Region 4	Acute Freshwater	Aquatic only	0.001400	1, 7
7439-97-6	EPA Region 6	Freshwater Chronic	Not specified	0.001300	
7439-97-6	EPA Region 6	Freshwater Acute	Not specified	0.002400	
7439-97-6	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000012	
7439-97-6	New Jersey	Freshwater Chronic	Not specified	0.000770	199, 200
7439-97-6	New Jersey	Freshwater Acute	Not specified	0.001400	199, 200

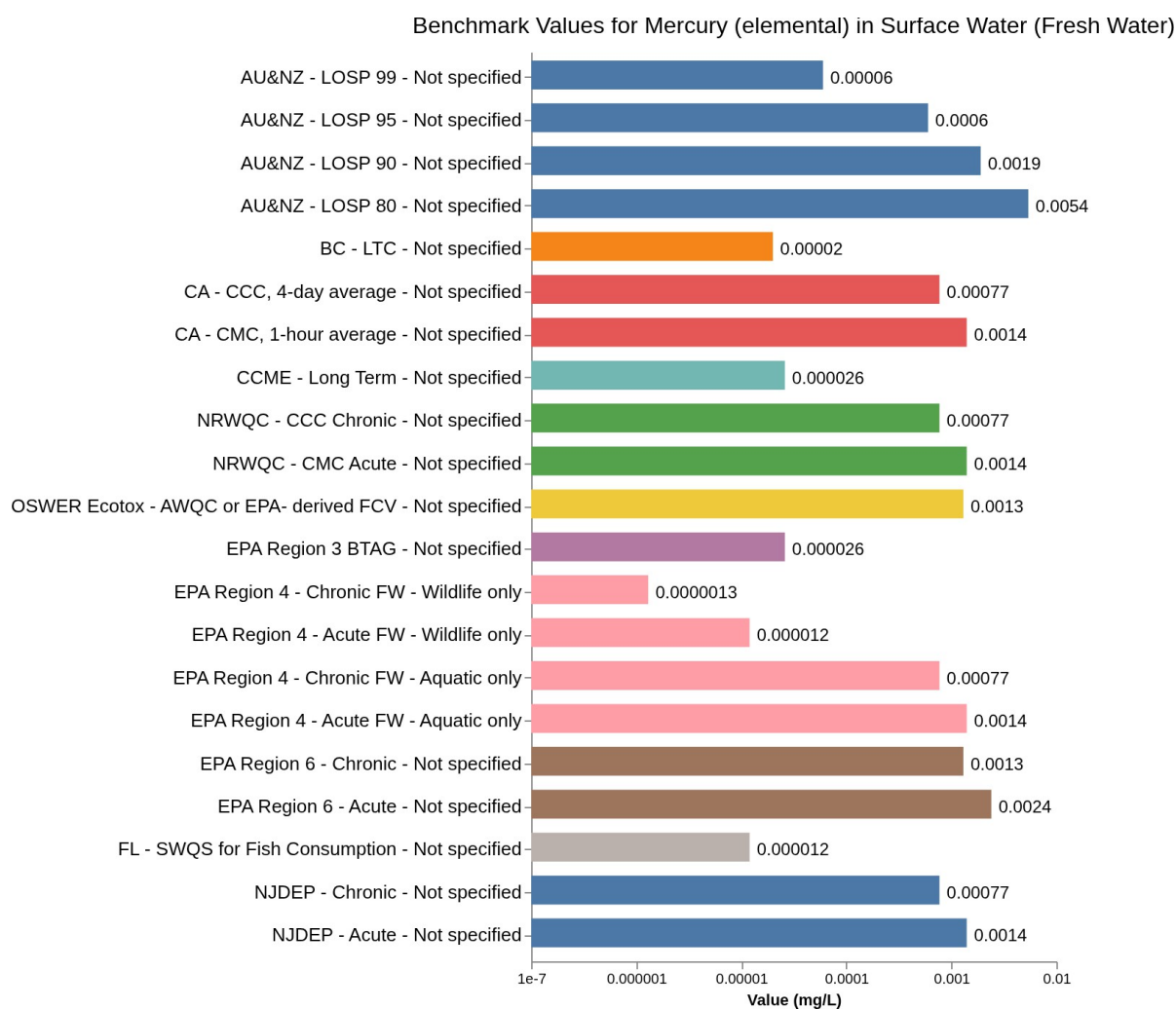


Table 624: Benchmark Values for Mercury, Inorganic Salts in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-01-7	Delaware	Freshwater Chronic Criterion	Not specified	0.00077	236
000000-01-7	Delaware	Freshwater Acute Criterion	Not specified	0.00140	236

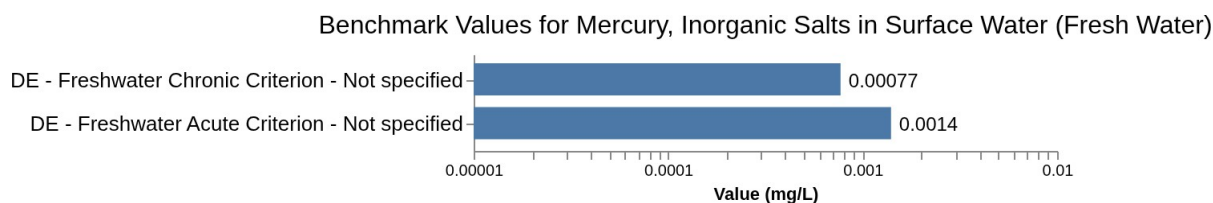


Table 625: Benchmark Values for Mesosulfuron methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
208465-21-8	OPP	Freshwater Vascular Plant	Not specified	0.00064	
208465-21-8	OPP	Freshwater Invertebrates Chronic	Not specified	1.70000	
208465-21-8	OPP	Freshwater Nonvascular Plant	Not specified	2.40000	
208465-21-8	OPP	Freshwater Fish Chronic	Not specified	29.60000	
208465-21-8	OPP	Freshwater Invertebrates Acute	Not specified	45.10000	22
208465-21-8	OPP	Freshwater Fish Acute	Not specified	45.75000	22

Benchmark Values for Mesosulfuron methyl in Surface Water (Fresh Water)

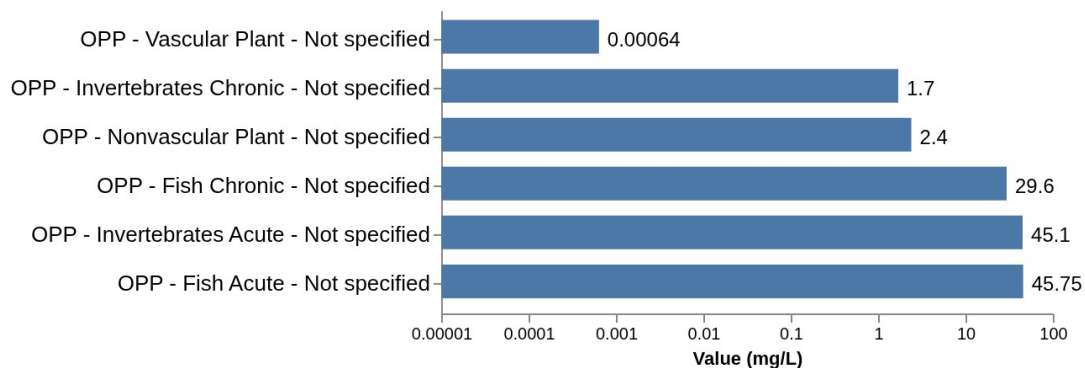


Table 626: Benchmark Values for Mesosulfuron-methyl degradate (F147447) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-5	OPP	Freshwater Vascular Plant	Not specified	90.9	22
000000-42-5	OPP	Freshwater Nonvascular Plant	Not specified	92.0	22

Benchmark Values for Mesosulfuron-methyl degradate (F147447) in Surface Water (Fresh Water)

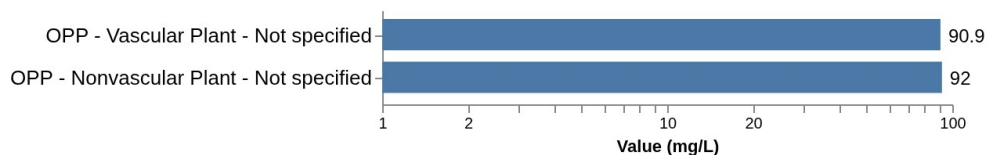


Table 627: Benchmark Values for Mesosulfuron-methyl degradate (F160459) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-42-6	OPP	Freshwater Vascular Plant	Not specified	1.5

Benchmark Values for Mesosulfuron-methyl degradate (F160459) in Surface Water (Fresh Water)

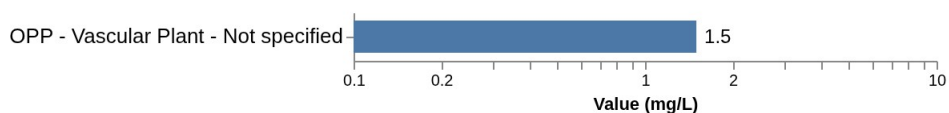


Table 628: Benchmark Values for Mesosulfuron-methyl degradate (F160460) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-7	OPP	Freshwater Vascular Plant	Not specified	94.71	22
000000-42-7	OPP	Freshwater Nonvascular Plant	Not specified	98.00	

Benchmark Values for Mesosulfuron-methyl degradate (F160460) in Surface Water (Fresh Water)

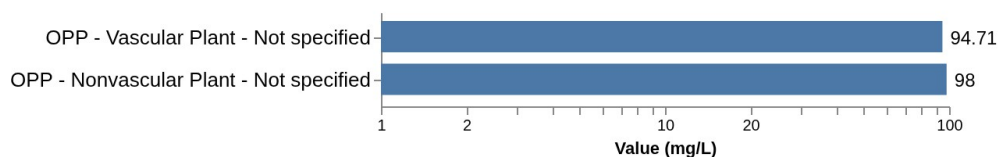


Table 629: Benchmark Values for Mesotrione in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
104206-82-8	OPP	Freshwater Vascular Plant	Not specified	0.0048	
104206-82-8	OPP	Freshwater Nonvascular Plant	Not specified	0.8200	22
104206-82-8	OPP	Freshwater Invertebrates Chronic	Not specified	3.0550	
104206-82-8	OPP	Freshwater Fish Chronic	Not specified	11.0000	
104206-82-8	OPP	Freshwater Fish Acute	Not specified	60.0000	22
104206-82-8	OPP	Freshwater Invertebrates Acute	Not specified	67.0000	

Benchmark Values for Mesotrione in Surface Water (Fresh Water)

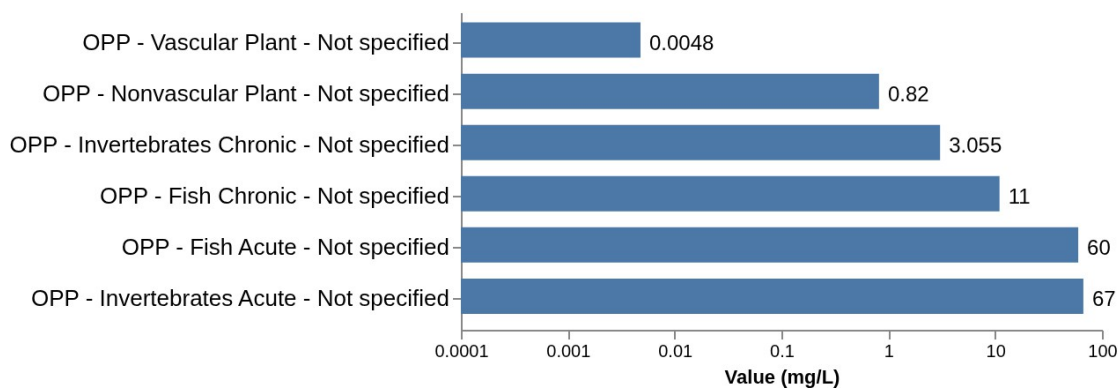


Table 630: Benchmark Values for Metalaxyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
57837-19-1	OPP	Freshwater Invertebrates Chronic	Not specified	1.2
57837-19-1	OPP	Freshwater Fish Chronic	Not specified	9.1
57837-19-1	OPP	Freshwater Invertebrates Acute	Not specified	14.0
57837-19-1	OPP	Freshwater Fish Acute	Not specified	65.0
57837-19-1	OPP	Freshwater Vascular Plant	Not specified	85.0

Benchmark Values for Metalaxyl in Surface Water (Fresh Water)

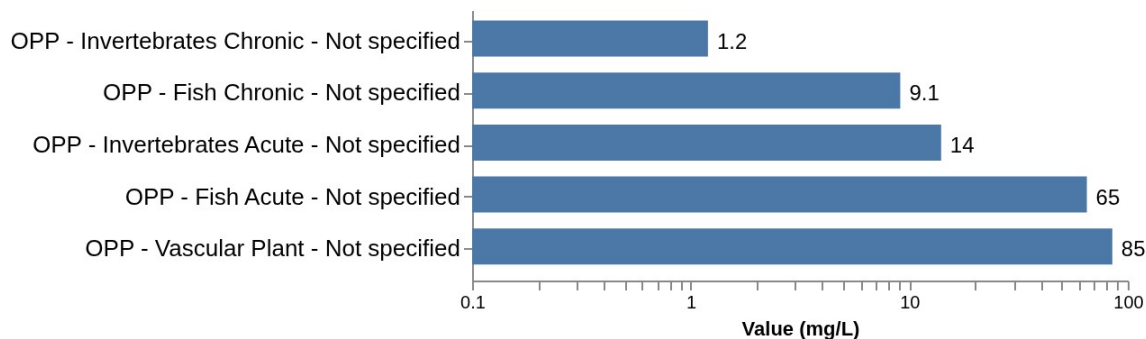


Table 631: Benchmark Values for Metaldehyde in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
9002-91-9	OPP	Freshwater Nonvascular Plant	Not specified	22.1	
9002-91-9	OPP	Freshwater Fish Acute	Not specified	34.5	
9002-91-9	OPP	Freshwater Fish Chronic	Not specified	37.5	
9002-91-9	OPP	Freshwater Invertebrates Acute	Not specified	38.8	22
9002-91-9	OPP	Freshwater Invertebrates Chronic	Not specified	73.9	
9002-91-9	OPP	Freshwater Vascular Plant	Not specified	105.0	22

Benchmark Values for Metaldehyde in Surface Water (Fresh Water)

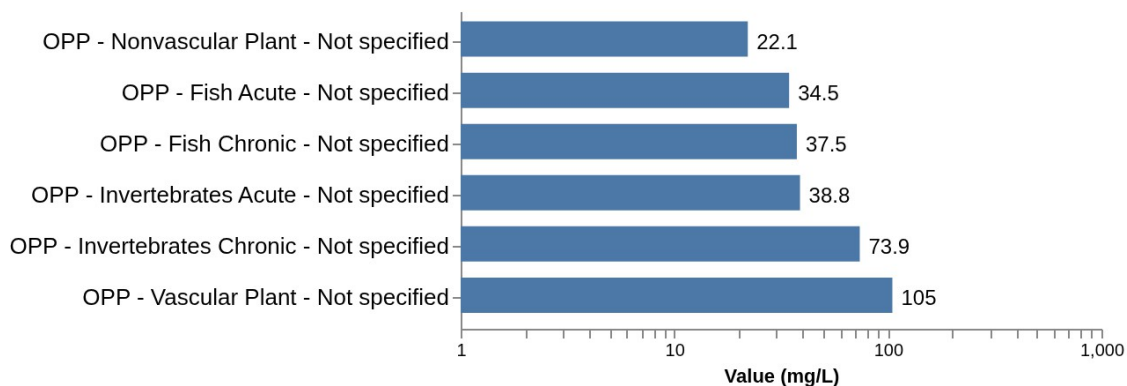


Table 632: Benchmark Values for Metconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
125116-23-6	OPP	Freshwater Fish Chronic	Not specified	0.0029
125116-23-6	OPP	Freshwater Vascular Plant	Not specified	0.0220
125116-23-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0310
125116-23-6	OPP	Freshwater Nonvascular Plant	Not specified	0.0810
125116-23-6	OPP	Freshwater Fish Acute	Not specified	1.6500
125116-23-6	OPP	Freshwater Invertebrates Acute	Not specified	2.9500

Benchmark Values for Metconazole in Surface Water (Fresh Water)

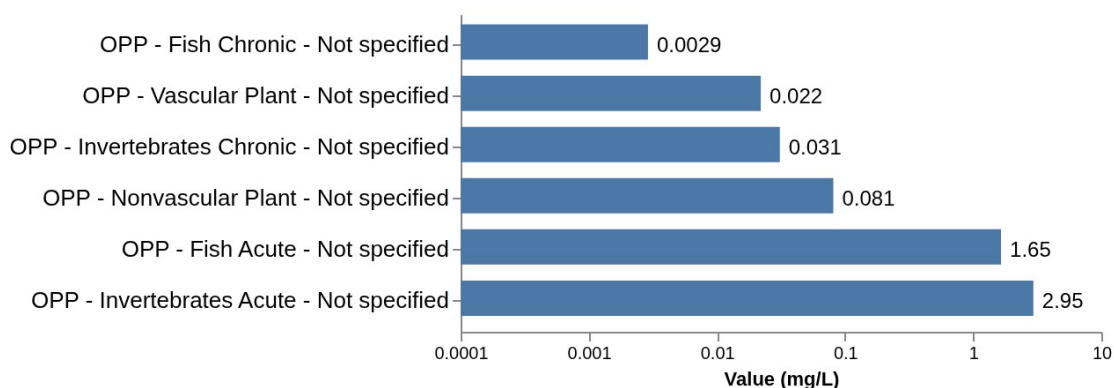


Table 633: Benchmark Values for Methamidophos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
10265-92-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0045	
10265-92-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0130	
10265-92-6	OPP	Freshwater Fish Chronic	Not specified	0.1736	
10265-92-6	OPP	Freshwater Fish Acute	Not specified	12.5000	
10265-92-6	OPP	Freshwater Nonvascular Plant	Not specified	50.0000	22

Benchmark Values for Methamidophos in Surface Water (Fresh Water)

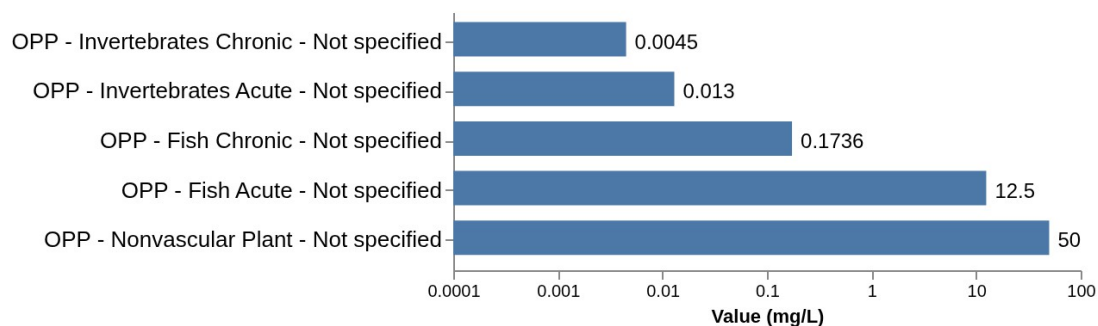


Table 634: Benchmark Values for Methanol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
67-56-1	EPA Region 4	Chronic Freshwater	Not specified	0.33
67-56-1	EPA Region 4	Acute Freshwater	Not specified	3.00

Benchmark Values for Methanol in Surface Water (Fresh Water)

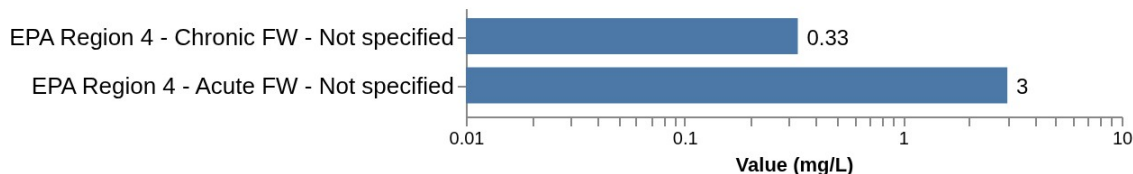


Table 635: Benchmark Values for Methidathion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
950-37-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00066
950-37-8	OPP	Freshwater Fish Acute	Not specified	0.00110
950-37-8	OPP	Freshwater Invertebrates Acute	Not specified	0.00150
950-37-8	OPP	Freshwater Fish Chronic	Not specified	0.00630

Benchmark Values for Methidathion in Surface Water (Fresh Water)

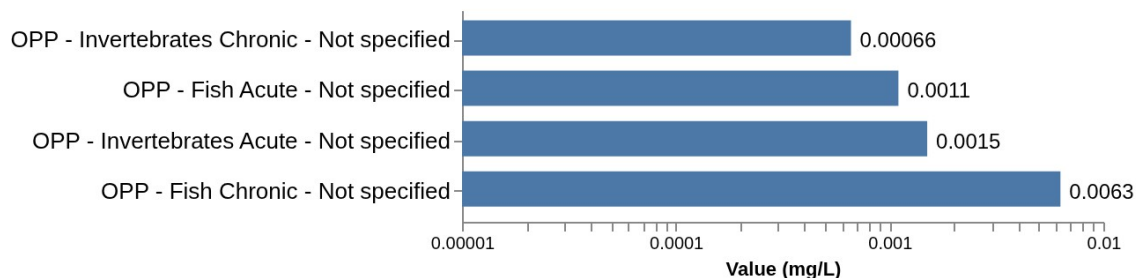


Table 636: Benchmark Values for Methiocarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2032-65-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00275
2032-65-7	OPP	Freshwater Fish Chronic	Not specified	0.05000
2032-65-7	OPP	Freshwater Fish Acute	Not specified	0.09000

Benchmark Values for Methiocarb in Surface Water (Fresh Water)

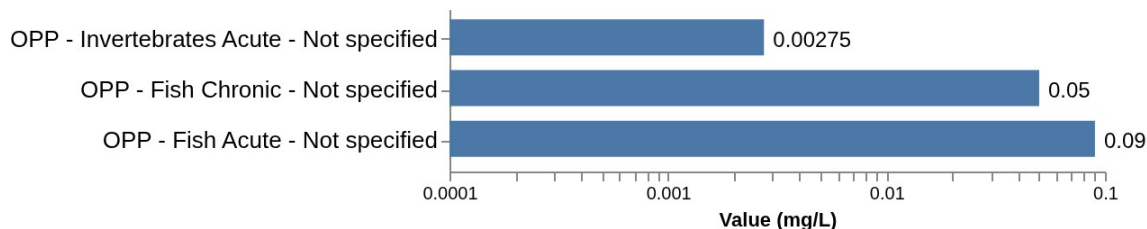


Table 637: Benchmark Values for Methiozolin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
403640-27-7	OPP	Freshwater Vascular Plant	Not specified	0.007
403640-27-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.117
403640-27-7	OPP	Freshwater Fish Chronic	Not specified	0.140
403640-27-7	OPP	Freshwater Fish Acute	Not specified	0.650
403640-27-7	OPP	Freshwater Nonvascular Plant	Not specified	1.010
403640-27-7	OPP	Freshwater Invertebrates Acute	Not specified	1.015

Benchmark Values for Methiozolin in Surface Water (Fresh Water)

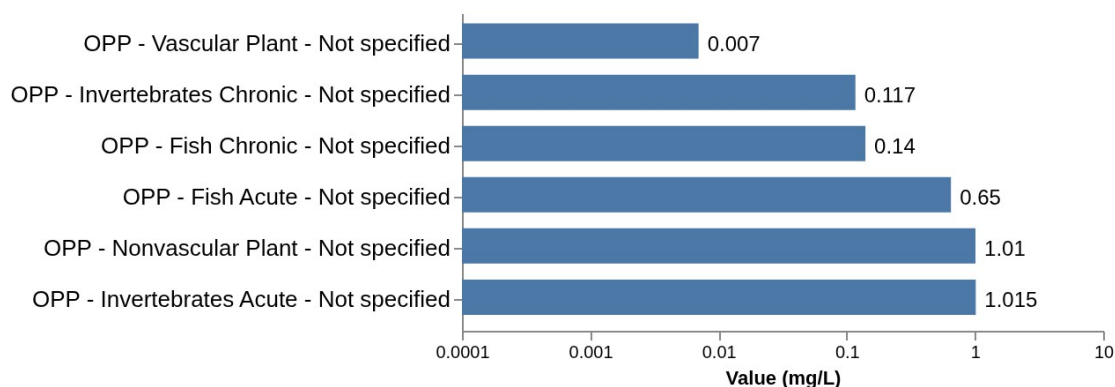


Table 638: Benchmark Values for Methomyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16752-77-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00050	87
16752-77-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00350	87, 89
16752-77-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00950	87
16752-77-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.02300	87
16752-77-5	California	Freshwater CCC, 4-day average	Not specified	0.00052	
16752-77-5	California	Freshwater CMC, 1-hour average	Not specified	0.00550	
16752-77-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.00060	
16752-77-5	OPP	Freshwater Invertebrates Acute	Not specified	0.00440	
16752-77-5	OPP	Freshwater Fish Chronic	Not specified	0.05700	
16752-77-5	OPP	Freshwater Fish Acute	Not specified	0.25000	

Benchmark Values for Methomyl in Surface Water (Fresh Water)

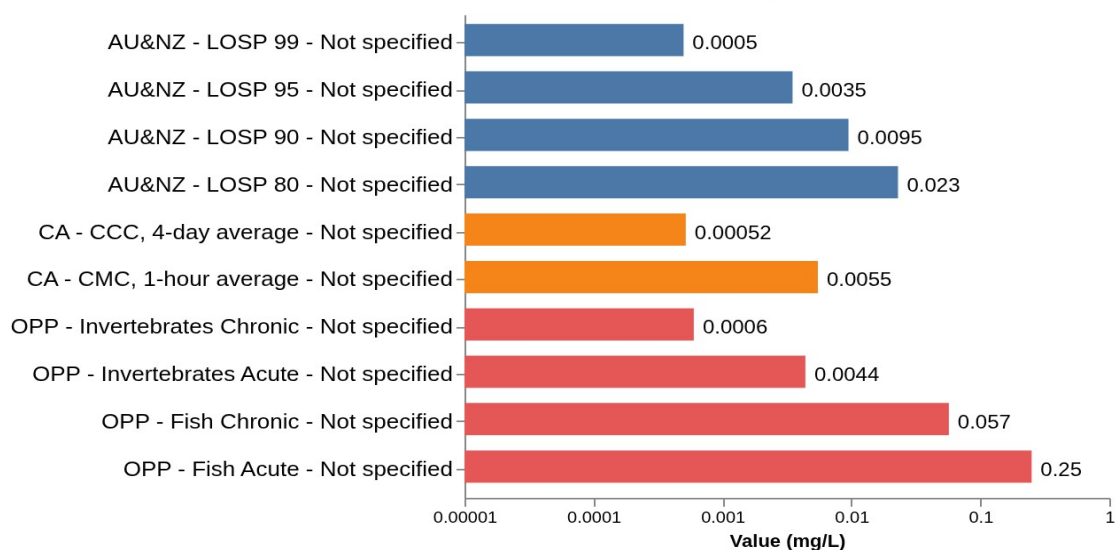


Table 639: Benchmark Values for Methoprene, S- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
65733-16-6	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0002	83

Benchmark Values for Methoprene, S- in Surface Water (Fresh Water)

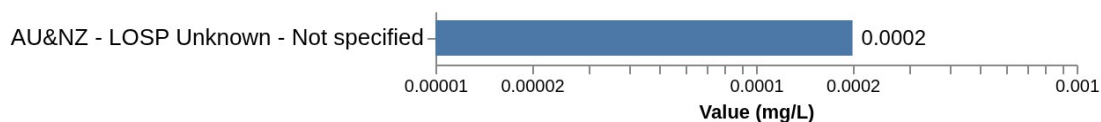


Table 640: Benchmark Values for Methoprene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
40596-69-8	Canada	Freshwater Long Term	Not specified	0.00009
40596-69-8	OPP	Freshwater Fish Chronic	Not specified	0.04800
40596-69-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.05100
40596-69-8	OPP	Freshwater Invertebrates Acute	Not specified	0.16500
40596-69-8	OPP	Freshwater Fish Acute	Not specified	0.38000

Benchmark Values for Methoprene in Surface Water (Fresh Water)

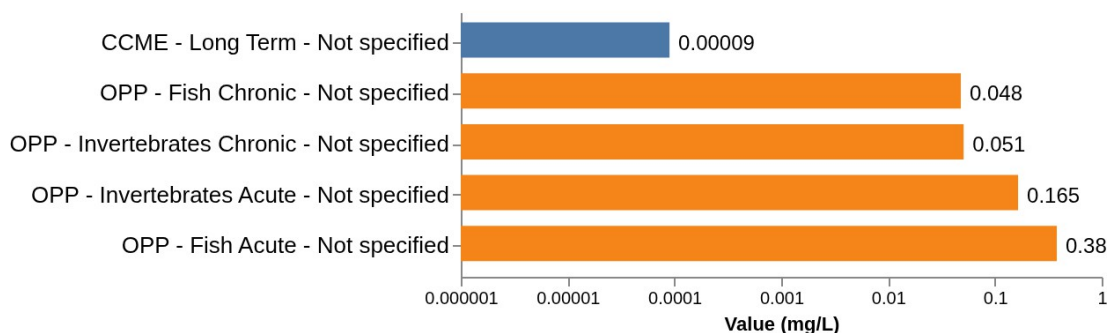


Table 641: Benchmark Values for Methoxychlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-43-5	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.000004	83, 101
72-43-5	California	Freshwater instantaneous max	Not specified	0.000030	
72-43-5	Delaware	Freshwater Chronic Criterion	Not specified	0.000030	
72-43-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000030	
72-43-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000019	
72-43-5	EPA Region 3	BTAG – Freshwater	Not specified	0.000019	
72-43-5	EPA Region 4	Chronic Freshwater	Not specified	0.000030	7
72-43-5	EPA Region 4	Acute Freshwater	Not specified	0.000700	7
72-43-5	EPA Region 6	Freshwater Chronic	Not specified	0.000030	
72-43-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000030	
72-43-5	New Jersey	Freshwater Chronic	Not specified	0.000030	
72-43-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000700	
72-43-5	OPP	Freshwater Fish Acute	Not specified	0.007500	

Benchmark Values for Methoxychlor in Surface Water (Fresh Water)

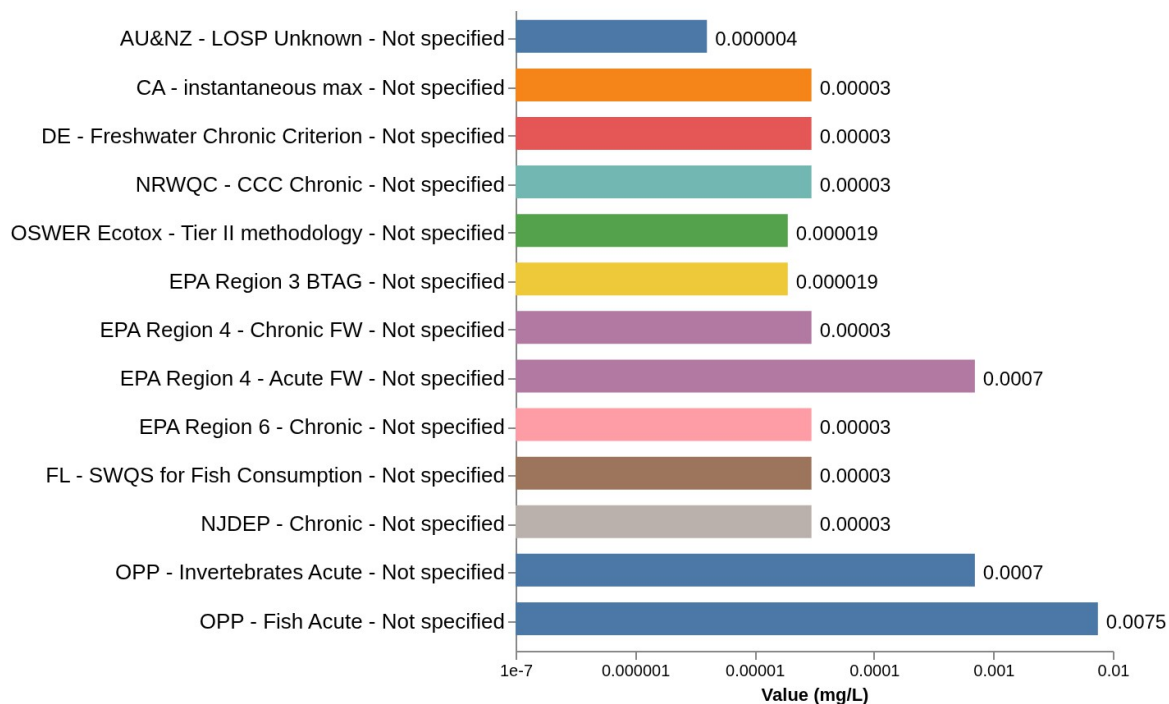


Table 642: Benchmark Values for Methoxyfenozide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
161050-58-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.0031	
161050-58-4	OPP	Freshwater Invertebrates Acute	Not specified	0.0285	
161050-58-4	OPP	Freshwater Fish Chronic	Not specified	0.5300	
161050-58-4	OPP	Freshwater Fish Acute	Not specified	2.1000	22
161050-58-4	OPP	Freshwater Nonvascular Plant	Not specified	3.4000	22

Benchmark Values for Methoxyfenozide in Surface Water (Fresh Water)

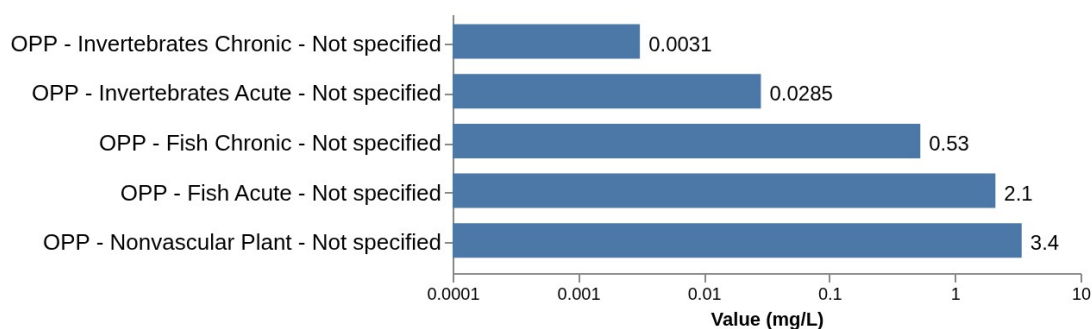


Table 643: Benchmark Values for Methyl bromide degradate- bromide ion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-42-8	OPP	Freshwater Fish Chronic	Not specified	7.8
000000-42-8	OPP	Freshwater Invertebrates Chronic	Not specified	7.8
000000-42-8	OPP	Freshwater Nonvascular Plant	Not specified	2500.0
000000-42-8	OPP	Freshwater Invertebrates Acute	Not specified	2900.0
000000-42-8	OPP	Freshwater Fish Acute	Not specified	8000.0

Benchmark Values for Methyl bromide degradate- bromide ion in Surface Water (Fresh Water)

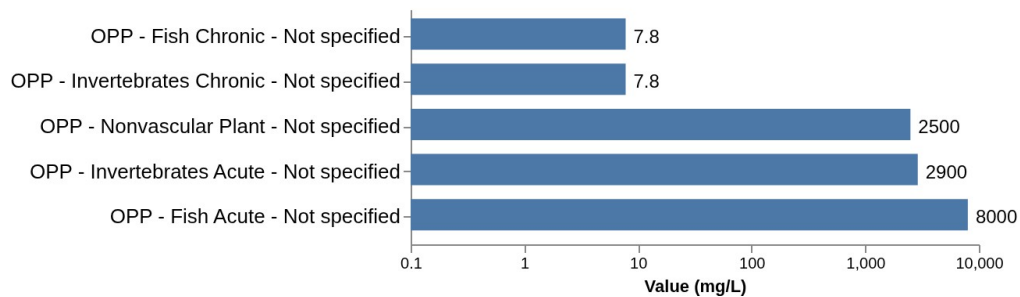


Table 644: Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-93-3	EPA Region 3	BTAG – Freshwater	Not specified	14.00
78-93-3	EPA Region 4	Chronic Freshwater	Not specified	22.00
78-93-3	EPA Region 4	Acute Freshwater	Not specified	200.00
78-93-3	EPA Region 6	Freshwater Chronic	Not specified	42.40
78-93-3	EPA Region 6	Freshwater Acute	Not specified	254.42

Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water (Fresh Water)

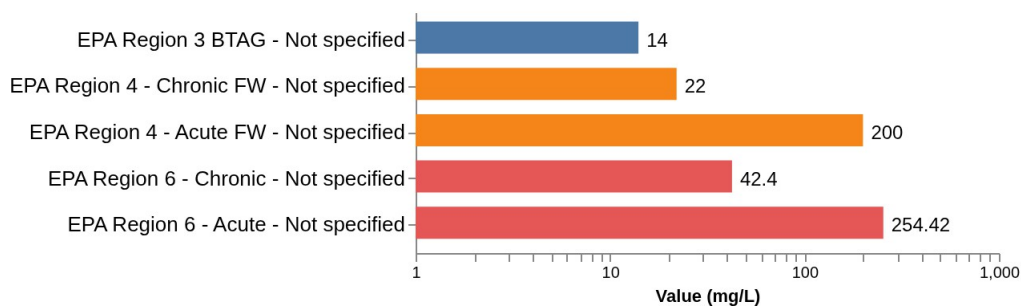


Table 645: Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-10-1	EPA Region 3	BTAG – Freshwater	Not specified	0.17
108-10-1	EPA Region 4	Chronic Freshwater	Not specified	0.17
108-10-1	EPA Region 4	Acute Freshwater	Not specified	2.20
108-10-1	EPA Region 6	Freshwater Chronic	Not specified	26.40
108-10-1	EPA Region 6	Freshwater Acute	Not specified	158.10

Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water (Fresh Water)

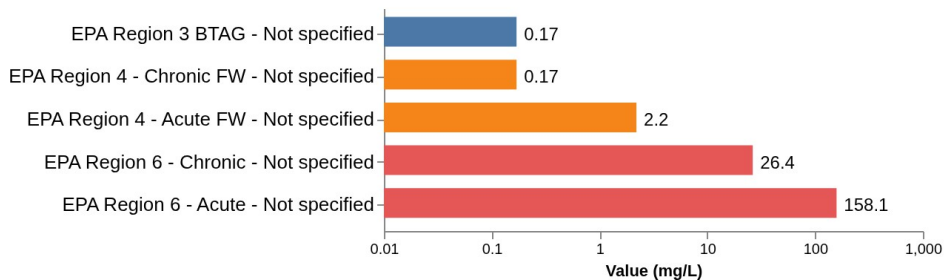


Table 646: Benchmark Values for Methyl Mercury in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
22967-92-6	Canada	Freshwater Long Term	Not specified	0.000004	
22967-92-6	EPA OSWER	Freshwater Tier II methodology	Not specified	0.000003	
22967-92-6	EPA Region 3	BTAG – Freshwater	Not specified	0.000004	
22967-92-6	EPA Region 4	Chronic Freshwater	Aquatic only	0.000003	7
22967-92-6	EPA Region 4	Acute Freshwater	Aquatic only	0.000099	7

Benchmark Values for Methyl Mercury in Surface Water (Fresh Water)

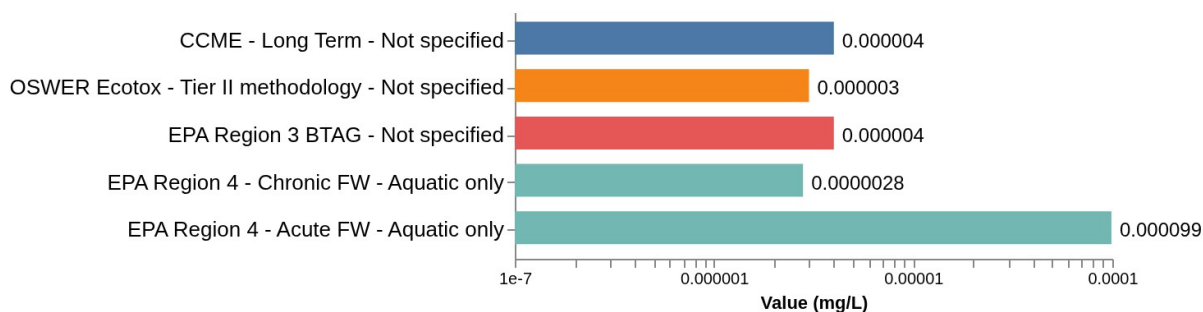


Table 647: Benchmark Values for Methyl Methacrylate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
80-62-6	EPA Region 3	BTAG – Freshwater	Not specified	2.80
80-62-6	EPA Region 6	Freshwater Chronic	Not specified	11.62
80-62-6	EPA Region 6	Freshwater Acute	Not specified	69.72

Benchmark Values for Methyl Methacrylate in Surface Water (Fresh Water)

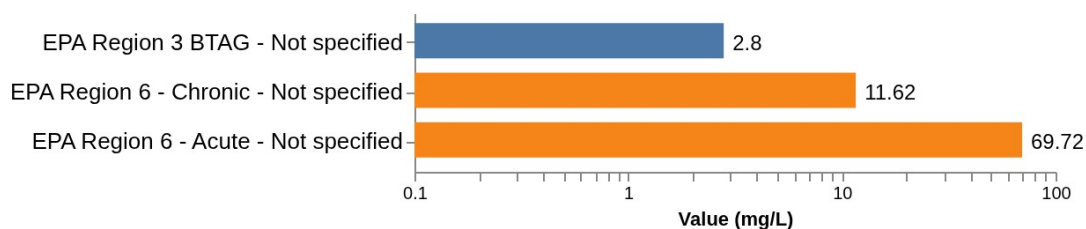


Table 648: Benchmark Values for Methyl Parathion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
298-00-0	California	Freshwater instantaneous max	Not specified	0.000080	
298-00-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.000250	
298-00-0	OPP	Freshwater Invertebrates Acute	Not specified	0.000485	
298-00-0	OPP	Freshwater Fish Chronic	Not specified	0.010000	23
298-00-0	OPP	Freshwater Fish Acute	Not specified	0.925000	
298-00-0	OPP	Freshwater Nonvascular Plant	Not specified	15.000000	
298-00-0	OPP	Freshwater Vascular Plant	Not specified	18.000000	

Benchmark Values for Methyl Parathion in Surface Water (Fresh Water)

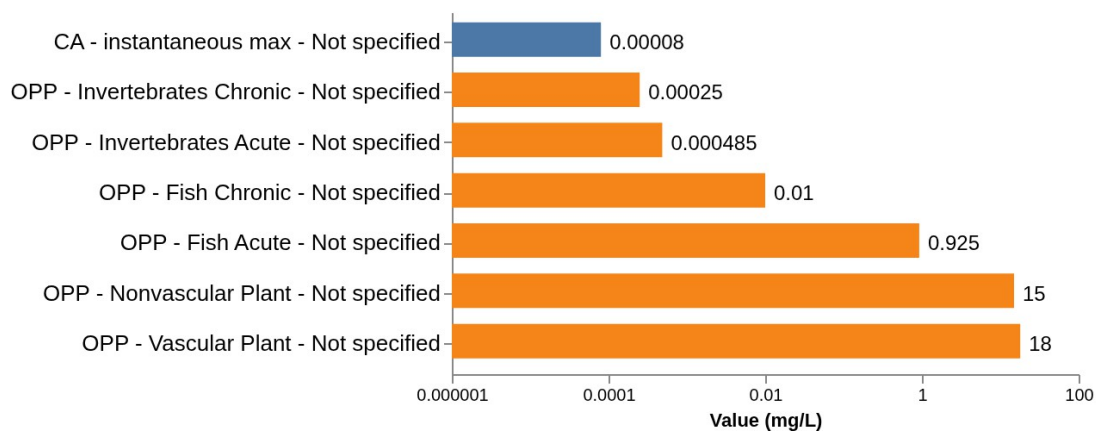


Table 649: Benchmark Values for Methyl Sulfone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
67-71-0	OPP	Freshwater Nonvascular Plant	Not specified	2.5
67-71-0	OPP	Freshwater Fish Acute	Not specified	17.5

Benchmark Values for Methyl Sulfone in Surface Water (Fresh Water)

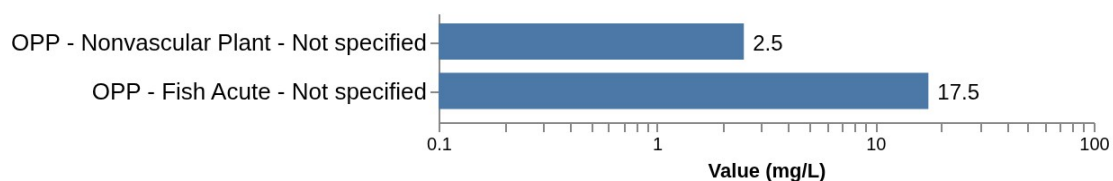


Table 650: Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1634-04-4	British Columbia	Freshwater STA	Not specified	3.40
1634-04-4	California	Freshwater CCC, 4-day average	Not specified	51.00
1634-04-4	California	Freshwater CMC, 1-hour average	Not specified	151.00
1634-04-4	Canada	Freshwater Long Term	Not specified	10.00
1634-04-4	EPA Region 3	BTAG – Freshwater	Not specified	11.07
1634-04-4	EPA Region 4	Chronic Freshwater	Not specified	0.73
1634-04-4	EPA Region 4	Acute Freshwater	Not specified	6.50
1634-04-4	EPA Region 6	Freshwater Chronic	Not specified	51.00
1634-04-4	EPA Region 6	Freshwater Acute	Not specified	151.00

Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water (Fresh Water)

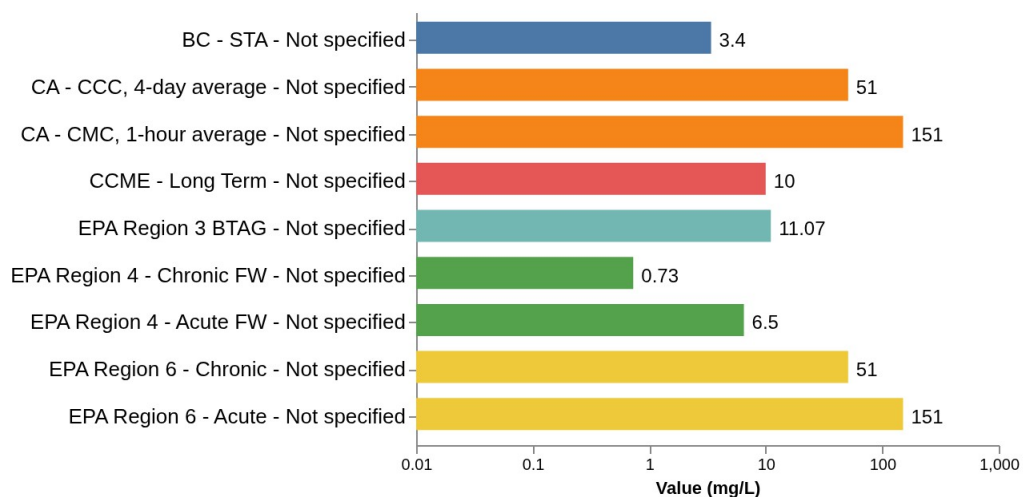


Table 651: Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (dimethylamine salt) (MCPA DMAS) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2039-46-5	OPP	Freshwater Vascular Plant	Not specified	0.13
2039-46-5	OPP	Freshwater Nonvascular Plant	Not specified	0.16
2039-46-5	OPP	Freshwater Invertebrates Chronic	Not specified	11.00
2039-46-5	OPP	Freshwater Fish Chronic	Not specified	12.00
2039-46-5	OPP	Freshwater Invertebrates Acute	Not specified	41.00
2039-46-5	OPP	Freshwater Fish Acute	Not specified	48.00

Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (dimethylamine salt) (MCPA DMAS) in Surface Water (Fresh Water)

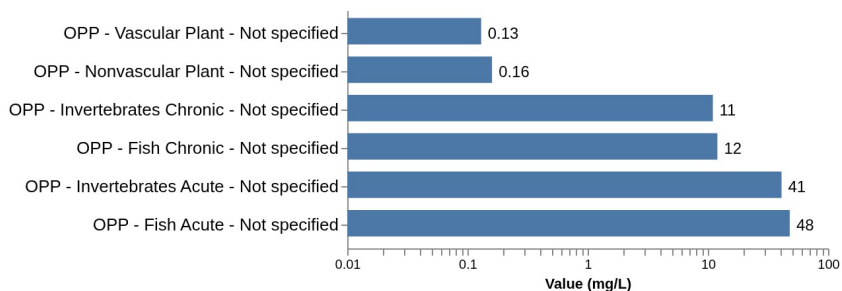


Table 652: Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (ethylhexyl ester) (MCPA EHE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
29450-45-1	OPP	Freshwater Vascular Plant	Not specified	0.02
29450-45-1	OPP	Freshwater Invertebrates Acute	Not specified	0.09
29450-45-1	OPP	Freshwater Nonvascular Plant	Not specified	0.17
29450-45-1	OPP	Freshwater Fish Acute	Not specified	0.38

Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (ethylhexyl ester) (MCPA EHE) in Surface Water (Fresh Water)

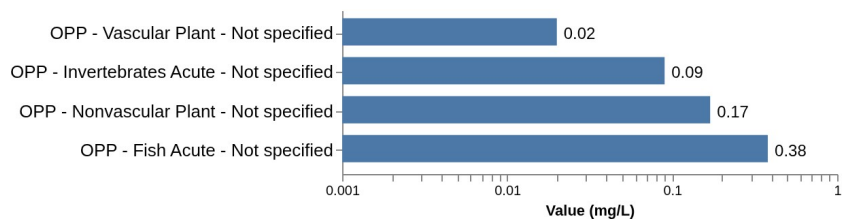


Table 653: Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (sodium salt) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3653-48-3	OPP	Freshwater Fish Acute	Not specified	34.0	22
3653-48-3	OPP	Freshwater Invertebrates Acute	Not specified	92.0	22

Benchmark Values for Methyl-4-chlorophenoxyacetic acid, 2- (sodium salt) in Surface Water (Fresh Water)

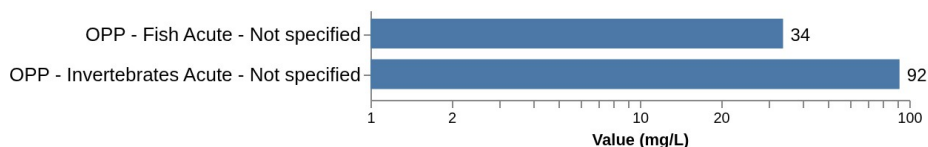


Table 654: Benchmark Values for Methylamine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
74-89-5	EPA Region 4	Chronic Freshwater	Not specified	0.86
74-89-5	EPA Region 4	Acute Freshwater	Not specified	7.70

Benchmark Values for Methylamine in Surface Water (Fresh Water)

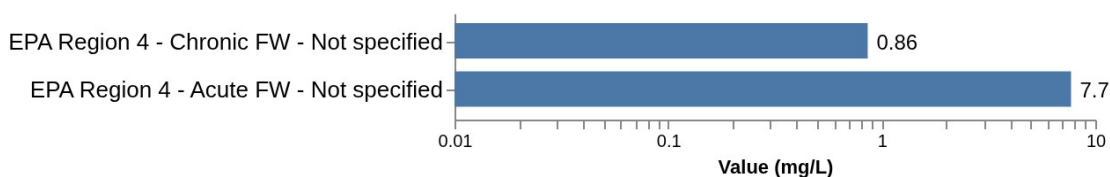


Table 655: Benchmark Values for Methylarsonic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
124-58-3	OPP	Freshwater Nonvascular Plant	Not specified	2.80
124-58-3	OPP	Freshwater Fish Acute	Not specified	6.65
124-58-3	OPP	Freshwater Invertebrates Acute	Not specified	38.75
124-58-3	OPP	Freshwater Vascular Plant	Not specified	53.00

Benchmark Values for Methylarsonic acid in Surface Water (Fresh Water)

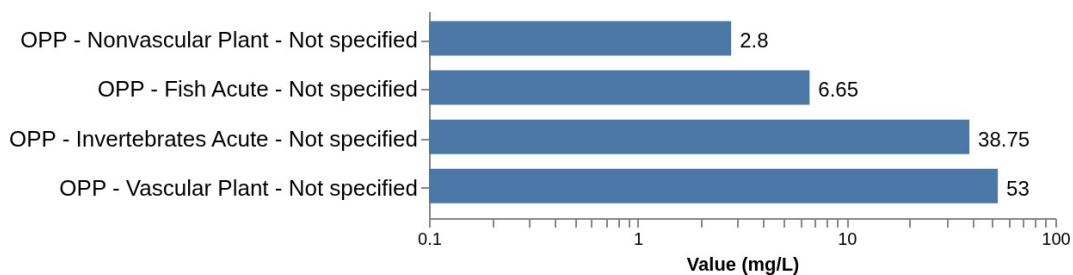
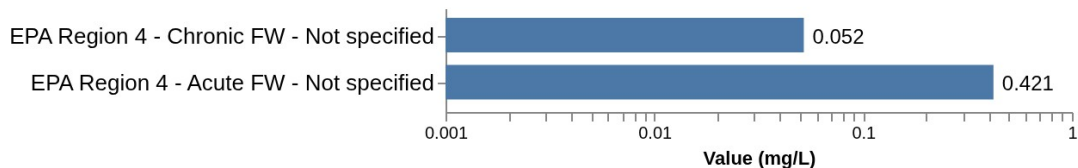
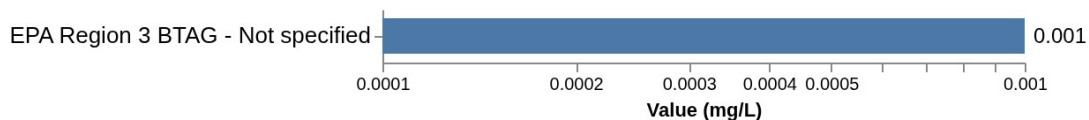


Table 656: Benchmark Values for Methylcyclohexane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-87-2	EPA Region 4	Chronic Freshwater	Not specified	0.052
108-87-2	EPA Region 4	Acute Freshwater	Not specified	0.421

Benchmark Values for Methylcyclohexane in Surface Water (Fresh Water)**Table 657: Benchmark Values for Methylene bithiocyanate in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
6317-18-6	EPA Region 3	BTAG – Freshwater	Not specified	0.001

Benchmark Values for Methylene bithiocyanate in Surface Water (Fresh Water)**Table 658: Benchmark Values for Methylene Chloride in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-09-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	3.0000	83
75-09-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	4.0000	83, 89
75-09-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	5.0000	83
75-09-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	7.0000	83
75-09-2	California	Freshwater acute toxicity	Not specified	11.0000	
75-09-2	Canada	Freshwater Long Term	Not specified	0.0981	
75-09-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0981	
75-09-2	EPA Region 4	Chronic Freshwater	Not specified	1.5000	
75-09-2	EPA Region 4	Acute Freshwater	Not specified	8.5000	
75-09-2	EPA Region 6	Freshwater Chronic	Not specified	22.0000	
75-09-2	EPA Region 6	Freshwater Acute	Not specified	66.0000	
75-09-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	1.5800	

Benchmark Values for Methylene Chloride in Surface Water (Fresh Water)

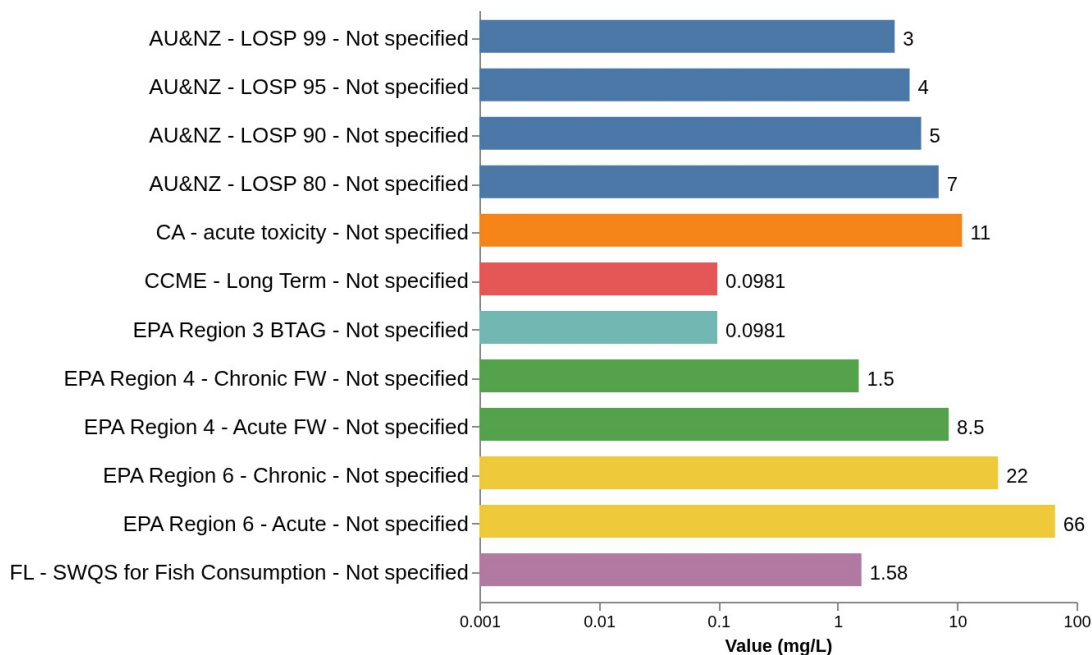


Table 659: Benchmark Values for Methylisothiazol-3(2H)-one, 5-chloro-2-/2-methylisothiazol-3(2H)-one (CMIT/MIT) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2682-20-4	OPP	Freshwater Fish Chronic	Not specified	0.020
2682-20-4	OPP	Freshwater Nonvascular Plant	Not specified	0.023
2682-20-4	OPP	Freshwater Fish Acute	Not specified	0.035
2682-20-4	OPP	Freshwater Invertebrates Acute	Not specified	0.090
2682-20-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.100

Benchmark Values for Methylisothiazol-3(2H)-one, 5-chloro-2-/2-methylisothiazol-3(2H)-one (CMIT/MIT) in Surface Water (Fresh Water)

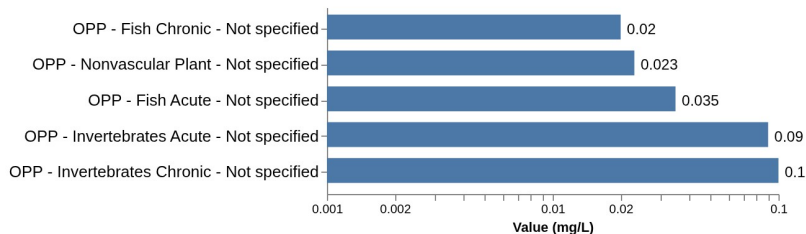
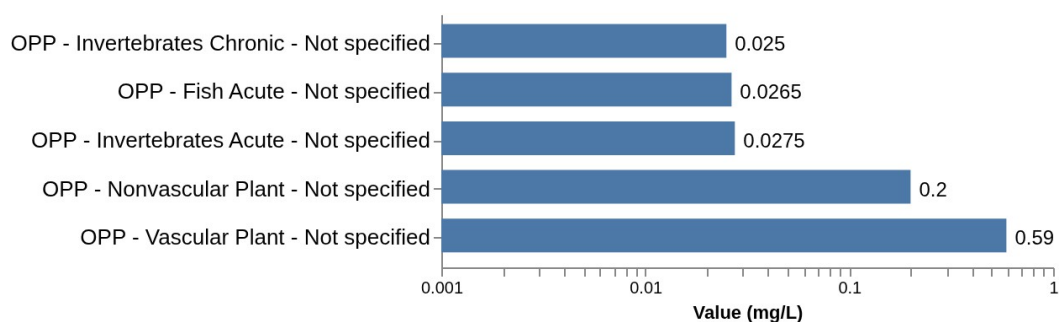


Table 660: Benchmark Values for Methylisothiocyanate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
556-61-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0250
556-61-6	OPP	Freshwater Fish Acute	Not specified	0.0265
556-61-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0275
556-61-6	OPP	Freshwater Nonvascular Plant	Not specified	0.2000
556-61-6	OPP	Freshwater Vascular Plant	Not specified	0.5900

Benchmark Values for Methylisothiocyanate in Surface Water (Fresh Water)**Table 661: Benchmark Values for Methylanththalene, 1- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
90-12-0	EPA Region 3	BTAG – Freshwater	Not specified	0.0021
90-12-0	EPA Region 4	Chronic Freshwater	Not specified	0.0061
90-12-0	EPA Region 4	Acute Freshwater	Not specified	0.1090
90-12-0	EPA Region 6	Freshwater Chronic	Not specified	0.8000
90-12-0	EPA Region 6	Freshwater Acute	Not specified	2.4000

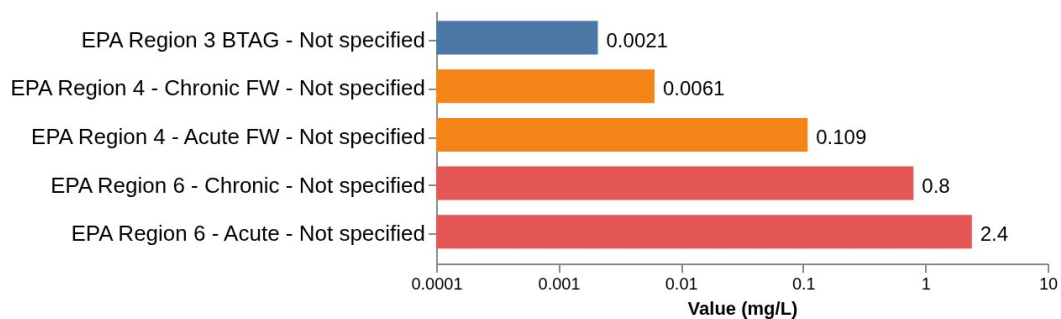
Benchmark Values for Methylanththalene, 1- in Surface Water (Fresh Water)

Table 662: Benchmark Values for Methylnaphthalene, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-57-6	EPA Region 3	BTAG – Freshwater	Not specified	0.0047
91-57-6	EPA Region 4	Chronic Freshwater	Not specified	0.0047
91-57-6	EPA Region 4	Acute Freshwater	Not specified	0.0420
91-57-6	EPA Region 6	Freshwater Chronic	Not specified	0.0146
91-57-6	EPA Region 6	Freshwater Acute	Not specified	0.4380

Benchmark Values for Methylnaphthalene, 2- in Surface Water (Fresh Water)

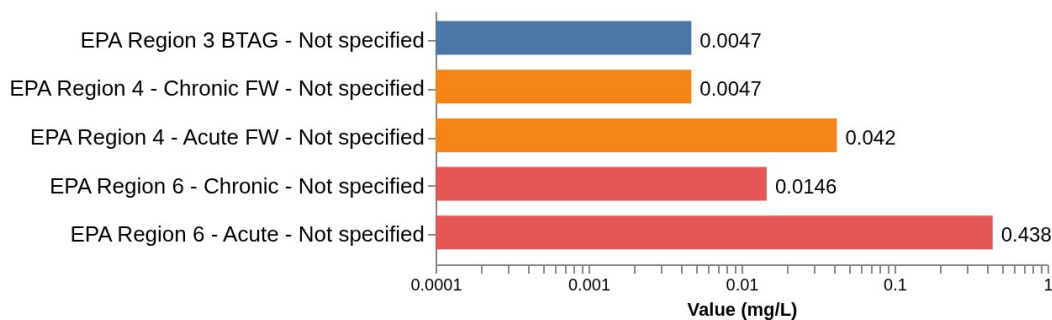


Table 663: Benchmark Values for Metofluthrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
240494-70-6	OPP	Freshwater Fish Acute	Not specified	0.00060
240494-70-6	OPP	Freshwater Invertebrates Acute	Not specified	0.00235

Benchmark Values for Metofluthrin in Surface Water (Fresh Water)

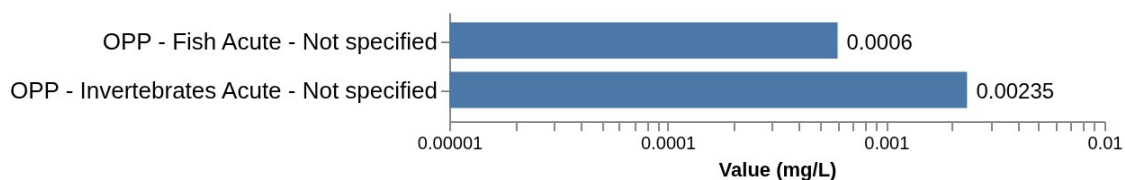
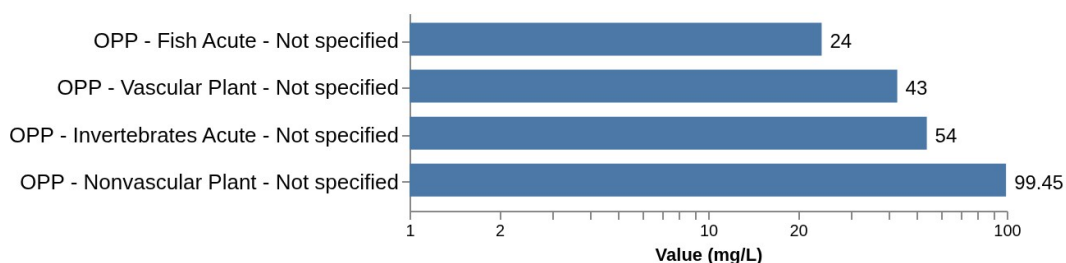


Table 664: Benchmark Values for Metolachlor ethane sulfonic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
171118-09-5	OPP	Freshwater Fish Acute	Not specified	24.00	
171118-09-5	OPP	Freshwater Vascular Plant	Not specified	43.00	
171118-09-5	OPP	Freshwater Invertebrates Acute	Not specified	54.00	22
171118-09-5	OPP	Freshwater Nonvascular Plant	Not specified	99.45	22

Benchmark Values for Metolachlor ethane sulfonic acid in Surface Water (Fresh Water)**Table 665: Benchmark Values for Metolachlor oxanilic acid in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
152019-73-3	OPP	Freshwater Invertebrates Acute	Not specified	7.70	
152019-73-3	OPP	Freshwater Fish Acute	Not specified	46.55	22
152019-73-3	OPP	Freshwater Nonvascular Plant	Not specified	57.10	
152019-73-3	OPP	Freshwater Vascular Plant	Not specified	95.40	22

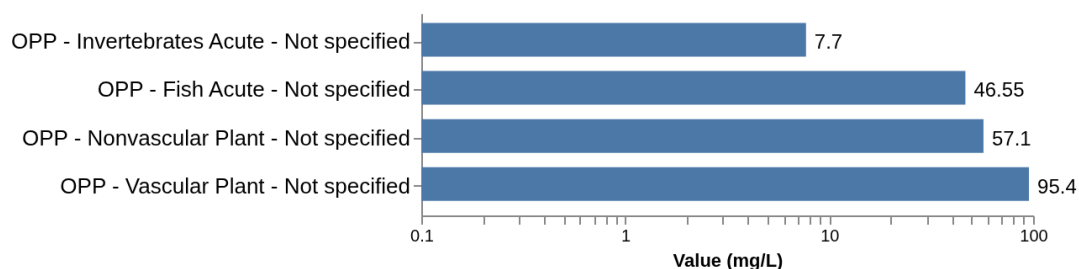
Benchmark Values for Metolachlor oxanilic acid in Surface Water (Fresh Water)

Table 666: Benchmark Values for Metolachlor, S- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
87392-12-9	OPP	Freshwater Nonvascular Plant	Not specified	0.008
87392-12-9	OPP	Freshwater Vascular Plant	Not specified	0.021
87392-12-9	OPP	Freshwater Fish Chronic	Not specified	0.030
87392-12-9	OPP	Freshwater Fish Acute	Not specified	1.600

Benchmark Values for Metolachlor, S- in Surface Water (Fresh Water)

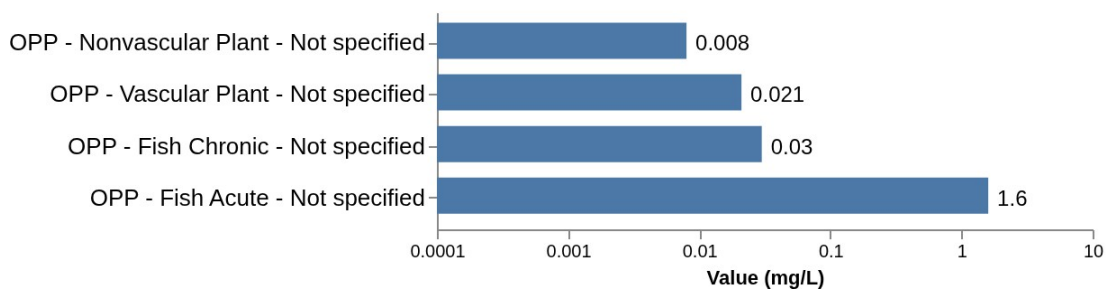


Table 667: Benchmark Values for Metolachlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
51218-45-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000008	85, 91, 110
51218-45-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000460	85, 89, 110
51218-45-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.002600	85, 110
51218-45-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.015000	85, 110
51218-45-2	California	Freshwater instantaneous max	Not specified	0.100000	
51218-45-2	Canada	Freshwater Long Term	Not specified	0.007800	
51218-45-2	EPA Region 4	Chronic Freshwater	Not specified	0.007800	
51218-45-2	EPA Region 4	Acute Freshwater	Not specified	0.110000	
51218-45-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.001000	
51218-45-2	OPP	Freshwater Nonvascular Plant	Not specified	0.008000	
51218-45-2	OPP	Freshwater Vascular Plant	Not specified	0.021000	
51218-45-2	OPP	Freshwater Fish Chronic	Not specified	0.030000	
51218-45-2	OPP	Freshwater Invertebrates Acute	Not specified	0.550000	
51218-45-2	OPP	Freshwater Fish Acute	Not specified	1.900000	

Benchmark Values for Metolachlor in Surface Water (Fresh Water)

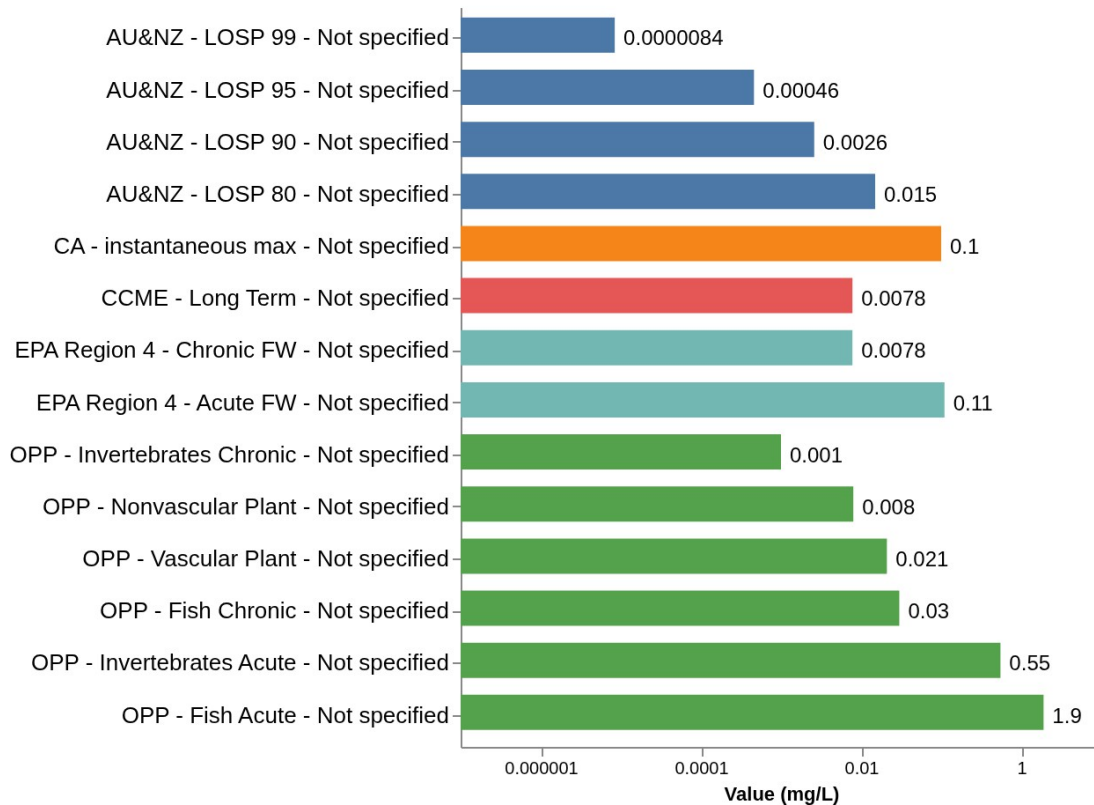


Table 668: Benchmark Values for Metribuzin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
21087-64-9	California	Freshwater instantaneous max	Not specified	0.1000	
21087-64-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0081	
21087-64-9	OPP	Freshwater Vascular Plant	Not specified	0.1300	
21087-64-9	OPP	Freshwater Invertebrates Chronic	Not specified	1.2900	
21087-64-9	OPP	Freshwater Invertebrates Acute	Not specified	2.1000	
21087-64-9	OPP	Freshwater Fish Chronic	Not specified	3.0000	23
21087-64-9	OPP	Freshwater Fish Acute	Not specified	21.0000	

Benchmark Values for Metribuzin in Surface Water (Fresh Water)

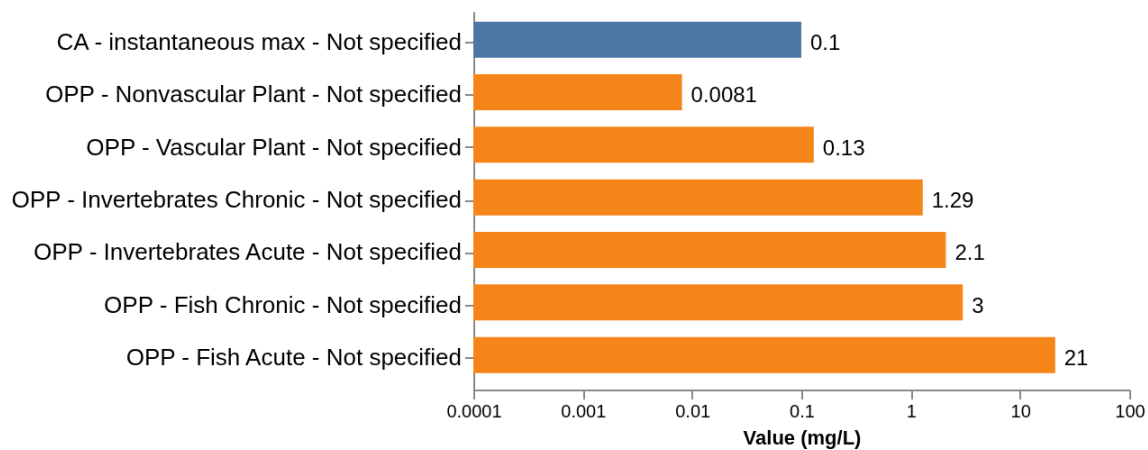


Table 669: Benchmark Values for Metsulfuron–methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74223–64–6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.000004	88, 89, 111
74223–64–6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.000018	88, 91, 111
74223–64–6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.000048	88, 111
74223–64–6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.000180	88, 111
74223–64–6	OPP	Freshwater Vascular Plant	Not specified	0.000360	
74223–64–6	OPP	Freshwater Nonvascular Plant	Not specified	0.031000	
74223–64–6	OPP	Freshwater Fish Chronic	Not specified	4.500000	
74223–64–6	OPP	Freshwater Invertebrates Acute	Not specified	75.000000	22
74223–64–6	OPP	Freshwater Fish Acute	Not specified	75.000000	22
74223–64–6	OPP	Freshwater Invertebrates Chronic	Not specified	100.000000	

Benchmark Values for Metsulfuron-methyl in Surface Water (Fresh Water)

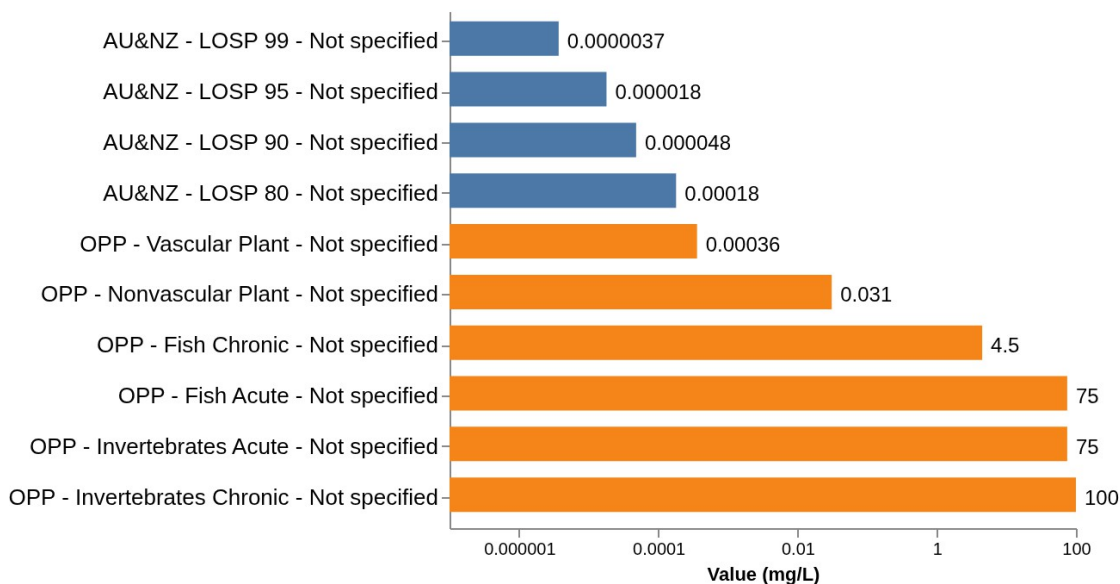


Table 670: Benchmark Values for Mineral oils in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
8012–95–1	OPP	Freshwater Invertebrates Acute	Not specified	0.01	
8012–95–1	OPP	Freshwater Fish Acute	Not specified	50.00	22

Benchmark Values for Mineral oils in Surface Water (Fresh Water)

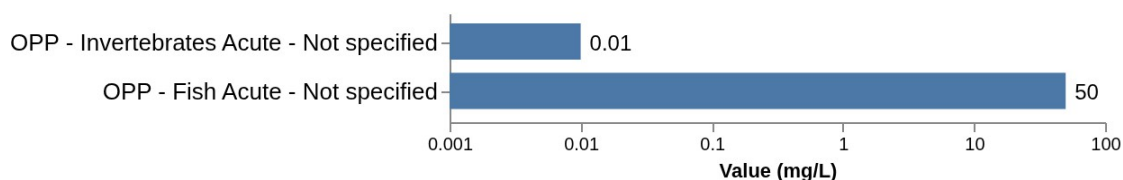


Table 671: Benchmark Values for Mirex in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2385-85-5	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.000040	83, 101
2385-85-5	California	Freshwater instantaneous max	Not specified	0.000001	
2385-85-5	Delaware	Freshwater Chronic Criterion	Not specified	0.000001	
2385-85-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000001	
2385-85-5	EPA Region 3	BTAG – Freshwater	Not specified	0.000001	
2385-85-5	EPA Region 4	Chronic Freshwater	Wildlife only	0.000001	7
2385-85-5	EPA Region 4	Acute Freshwater	Wildlife only	0.000001	7
2385-85-5	EPA Region 4	Chronic Freshwater	Aquatic only	0.000001	7
2385-85-5	EPA Region 4	Acute Freshwater	Aquatic only	0.000001	7
2385-85-5	EPA Region 6	Freshwater Chronic	Not specified	0.000001	
2385-85-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000001	
2385-85-5	New Jersey	Freshwater Chronic	Not specified	0.000001	

Benchmark Values for Mirex in Surface Water (Fresh Water)

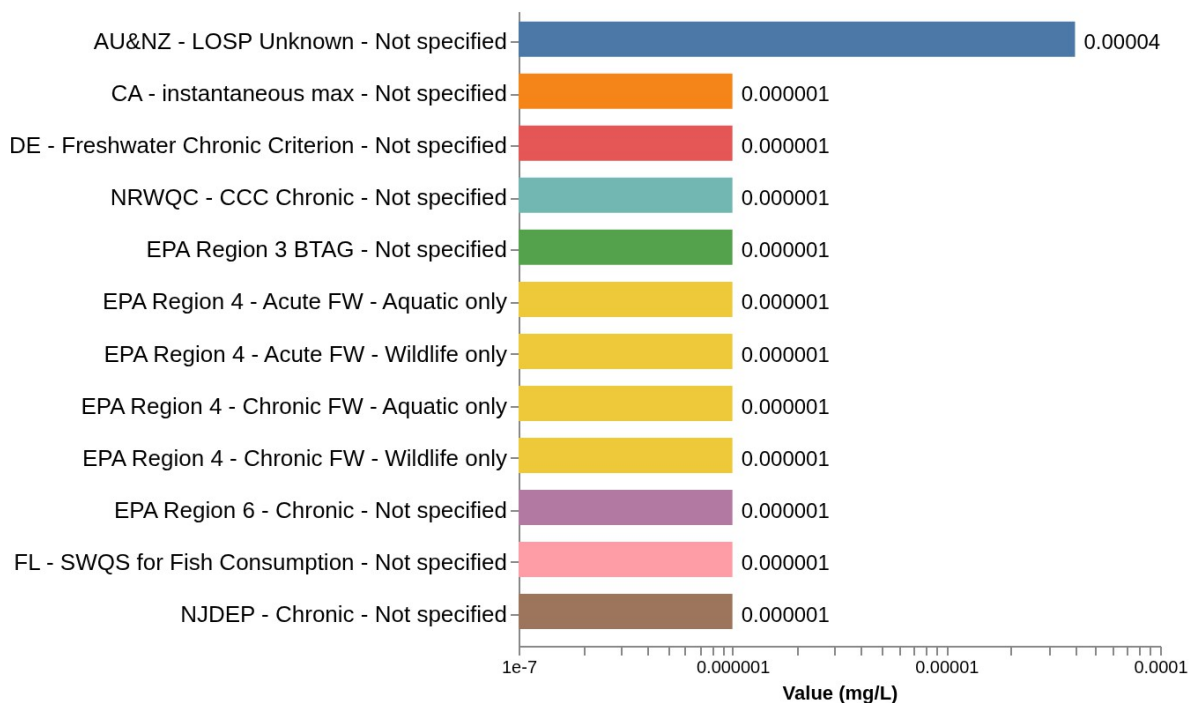


Table 672: Benchmark Values for Molinate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2212-67-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00001	87
2212-67-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00340	87, 89
2212-67-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.01400	87
2212-67-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.05700	87
2212-67-1	California	Freshwater instantaneous max	Not specified	0.01300	
2212-67-1	OPP	Freshwater Fish Acute	Not specified	0.10500	
2212-67-1	OPP	Freshwater Invertebrates Acute	Not specified	0.17000	
2212-67-1	OPP	Freshwater Nonvascular Plant	Not specified	0.22000	
2212-67-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.34000	
2212-67-1	OPP	Freshwater Fish Chronic	Not specified	0.39000	
2212-67-1	OPP	Freshwater Vascular Plant	Not specified	3.30000	

Benchmark Values for Molinate in Surface Water (Fresh Water)

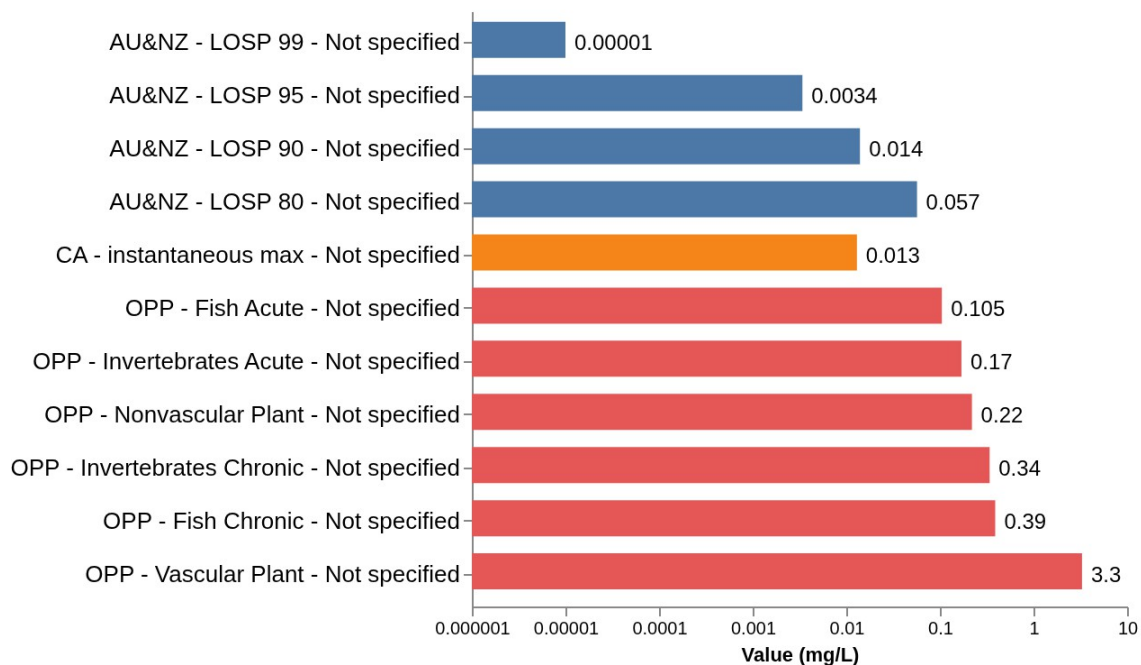


Table 673: Benchmark Values for Molybdenum in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-98-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.034	83
7439-98-7	British Columbia	Freshwater LTC	Not specified	7.600	
7439-98-7	British Columbia	Freshwater STA	Not specified	46.000	
7439-98-7	Canada	Freshwater Long Term	Not specified	0.073	
7439-98-7	EPA OSWER	Freshwater Tier II methodology	Not specified	0.240	
7439-98-7	EPA Region 3	BTAG – Freshwater	Not specified	0.073	
7439-98-7	EPA Region 4	Chronic Freshwater	Not specified	0.800	
7439-98-7	EPA Region 4	Acute Freshwater	Not specified	7.200	
7439-98-7	EPA Region 6	Freshwater Chronic	Not specified	36.100	21
7439-98-7	EPA Region 6	Freshwater Acute	Not specified	148.000	21

Benchmark Values for Molybdenum in Surface Water (Fresh Water)

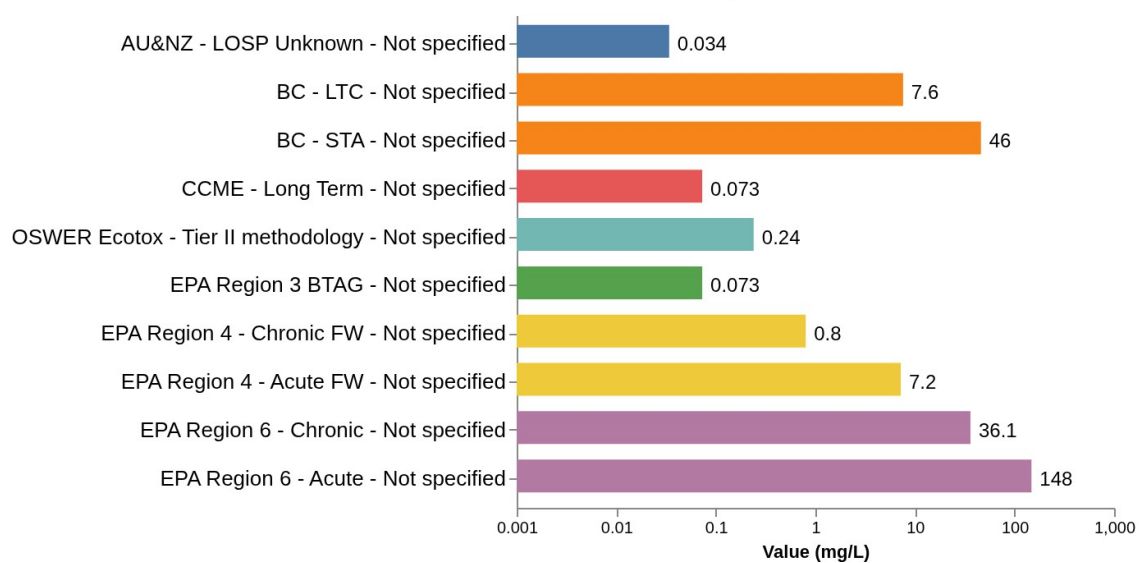


Table 674: Benchmark Values for Momfluorothrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
609346-29-4	OPP	Freshwater Fish Acute	Not specified	0.0006	
609346-29-4	OPP	Freshwater Fish Chronic	Not specified	0.0031	
609346-29-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.0031	
609346-29-4	OPP	Freshwater Invertebrates Acute	Not specified	0.0039	
609346-29-4	OPP	Freshwater Vascular Plant	Not specified	2.5000	22

Benchmark Values for Momfluorothrin in Surface Water (Fresh Water)

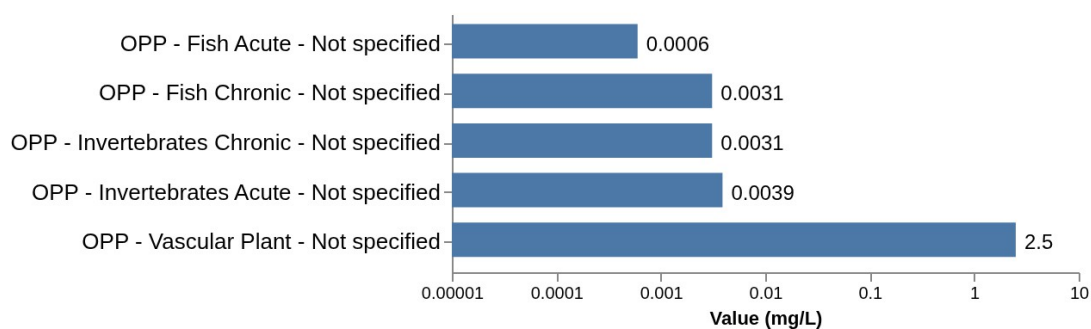


Table 675: Benchmark Values for Monochlorophenols (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25167-80-0	Canada	Freshwater Long Term	Not specified	0.007
25167-80-0	EPA Region 3	BTAG – Freshwater	Not specified	0.007

Benchmark Values for Monochlorophenols (total) in Surface Water (Fresh Water)

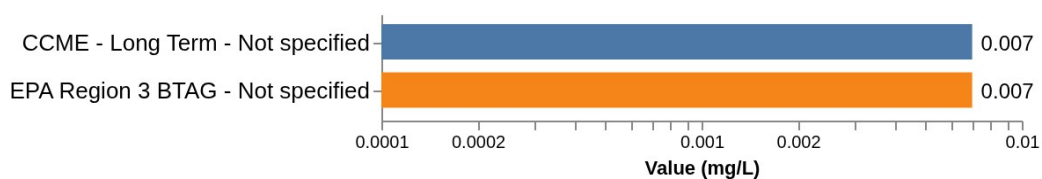


Table 676: Benchmark Values for MSMA in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2163-80-6	OPP	Freshwater Nonvascular Plant	Not specified	5.63	
2163-80-6	OPP	Freshwater Fish Chronic	Not specified	10.00	
2163-80-6	OPP	Freshwater Invertebrates Acute	Not specified	38.50	
2163-80-6	OPP	Freshwater Invertebrates Chronic	Not specified	53.00	
2163-80-6	OPP	Freshwater Vascular Plant	Not specified	104.00	
2163-80-6	OPP	Freshwater Fish Acute	Not specified	500.00	22

Benchmark Values for MSMA in Surface Water (Fresh Water)

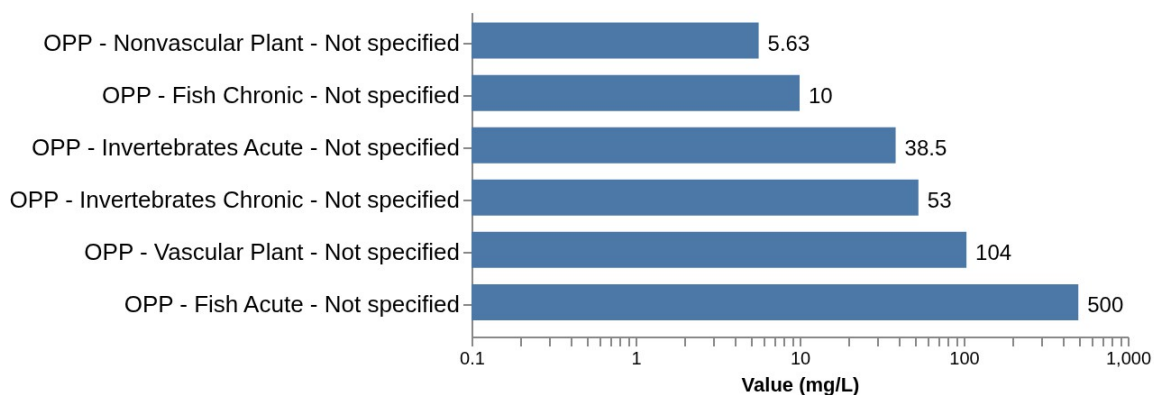


Table 677: Benchmark Values for Myclobutanil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
88671-89-0	OPP	Freshwater Nonvascular Plant	Not specified	0.83
88671-89-0	OPP	Freshwater Fish Chronic	Not specified	0.98
88671-89-0	OPP	Freshwater Fish Acute	Not specified	1.20
88671-89-0	OPP	Freshwater Invertebrates Acute	Not specified	5.50

Benchmark Values for Myclobutanil in Surface Water (Fresh Water)

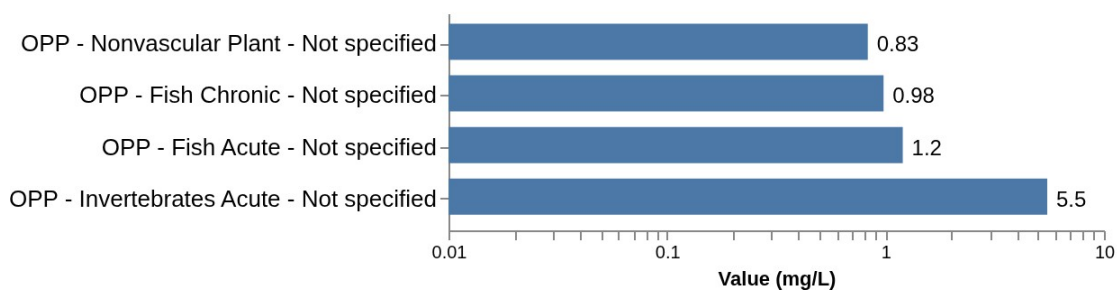


Table 678: Benchmark Values for Nabam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
142-59-6	OPP	Freshwater Fish Acute	Not specified	1.65
142-59-6	OPP	Freshwater Invertebrates Acute	Not specified	13.45

Benchmark Values for Nabam in Surface Water (Fresh Water)

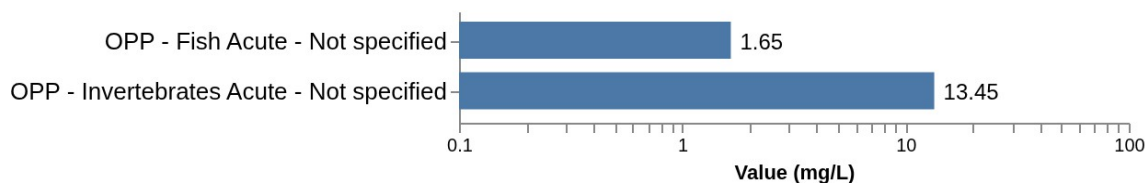


Table 679: Benchmark Values for Naled in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
300-76-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000010	
300-76-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000058	
300-76-5	OPP	Freshwater Fish Chronic	Not specified	0.003400	
300-76-5	OPP	Freshwater Nonvascular Plant	Not specified	0.024000	
300-76-5	OPP	Freshwater Fish Acute	Not specified	0.046000	
300-76-5	OPP	Freshwater Vascular Plant	Not specified	1.800000	22

Benchmark Values for Naled in Surface Water (Fresh Water)

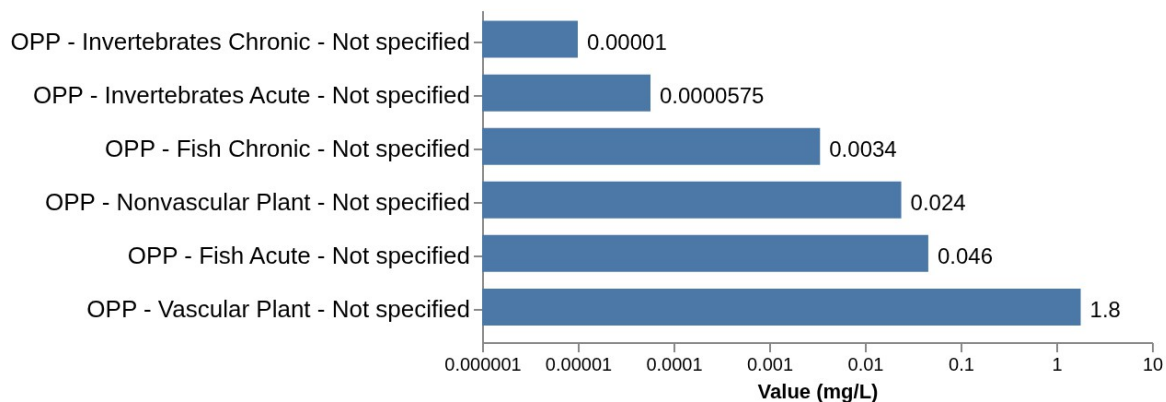


Table 680: Benchmark Values for Naphthalene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-20-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0025	87
91-20-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0160	87, 89
91-20-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0370	87
91-20-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0850	87
91-20-3	British Columbia	Freshwater LTC	Not specified	0.0010	
91-20-3	British Columbia	Freshwater STA	Not specified	0.0010	
91-20-3	California	Freshwater chronic toxicity	Not specified	0.6200	
91-20-3	California	Freshwater acute toxicity	Not specified	2.3000	
91-20-3	Canada	Freshwater Long Term	Not specified	0.0011	
91-20-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0240	
91-20-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0011	
91-20-3	EPA Region 4	Chronic Freshwater	Not specified	0.0210	
91-20-3	EPA Region 4	Acute Freshwater	Not specified	0.1700	
91-20-3	EPA Region 6	Freshwater Chronic	Not specified	0.1600	
91-20-3	EPA Region 6	Freshwater Acute	Not specified	0.4900	
91-20-3	New Jersey	Freshwater Chronic	Not specified	0.1380	

Benchmark Values for Naphthalene in Surface Water (Fresh Water)

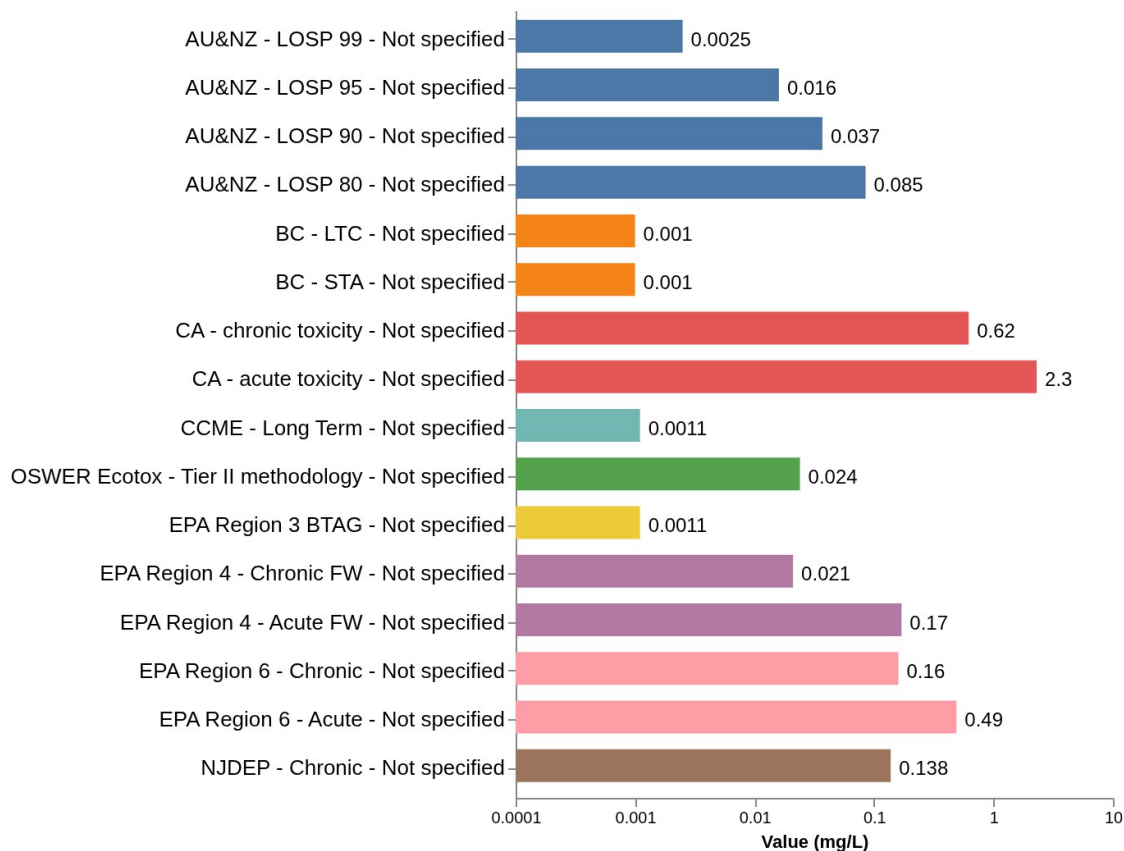
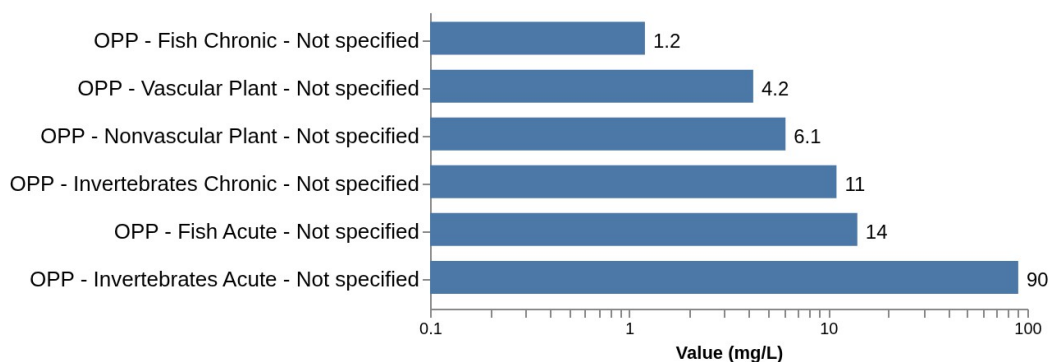


Table 681: Benchmark Values for Naphthaleneacetamide, 1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-86-2	OPP	Freshwater Fish Chronic	Not specified	1.2
86-86-2	OPP	Freshwater Vascular Plant	Not specified	4.2
86-86-2	OPP	Freshwater Nonvascular Plant	Not specified	6.1
86-86-2	OPP	Freshwater Invertebrates Chronic	Not specified	11.0
86-86-2	OPP	Freshwater Fish Acute	Not specified	14.0
86-86-2	OPP	Freshwater Invertebrates Acute	Not specified	90.0

Benchmark Values for Naphthaleneacetamide, 1- in Surface Water (Fresh Water)**Table 682: Benchmark Values for Naphthaleneacetate, Ammonium 1- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
25545-89-5	OPP	Freshwater Fish Chronic	Not specified	1.2
25545-89-5	OPP	Freshwater Vascular Plant	Not specified	4.2
25545-89-5	OPP	Freshwater Nonvascular Plant	Not specified	6.1
25545-89-5	OPP	Freshwater Invertebrates Chronic	Not specified	11.0
25545-89-5	OPP	Freshwater Fish Acute	Not specified	14.0
25545-89-5	OPP	Freshwater Invertebrates Acute	Not specified	90.0

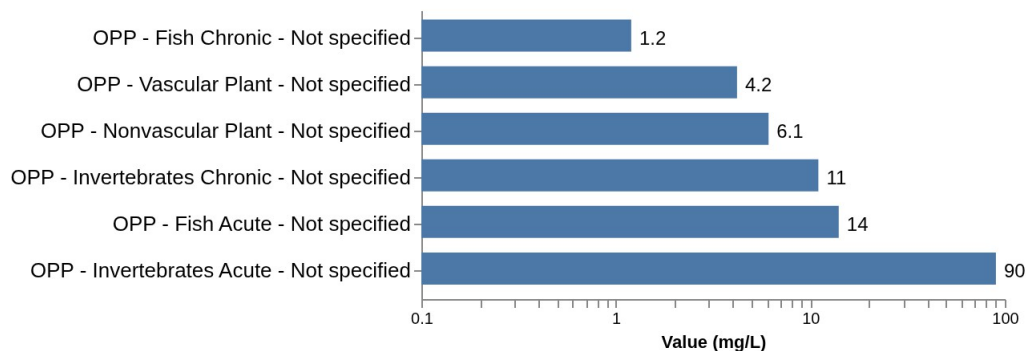
Benchmark Values for Naphthaleneacetate, Ammonium 1- in Surface Water (Fresh Water)

Table 683: Benchmark Values for Naphthaleneacetate, Ethyl 1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2122-70-5	OPP	Freshwater Fish Chronic	Not specified	1.2
2122-70-5	OPP	Freshwater Vascular Plant	Not specified	4.2
2122-70-5	OPP	Freshwater Nonvascular Plant	Not specified	6.1
2122-70-5	OPP	Freshwater Invertebrates Chronic	Not specified	11.0
2122-70-5	OPP	Freshwater Fish Acute	Not specified	14.0
2122-70-5	OPP	Freshwater Invertebrates Acute	Not specified	90.0

Benchmark Values for Naphthaleneacetate, Ethyl 1- in Surface Water (Fresh Water)

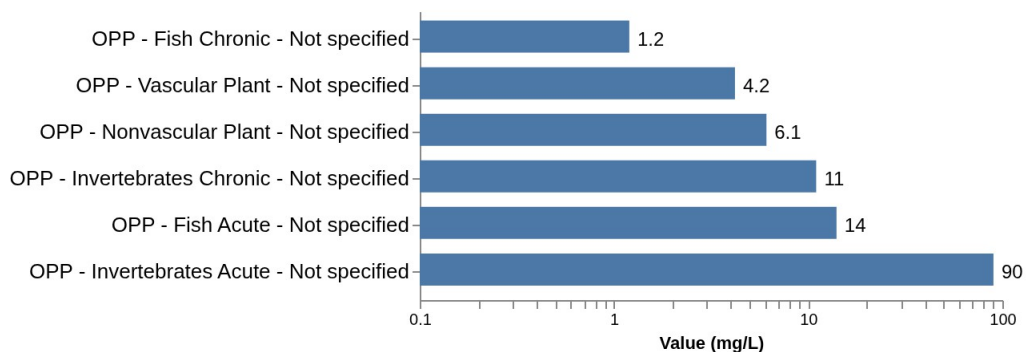


Table 684: Benchmark Values for Naphthalenes, -chlorinated in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25586-43-0	California	Freshwater acute toxicity	Not specified	1.6

Benchmark Values for Naphthalenes, -chlorinated in Surface Water (Fresh Water)

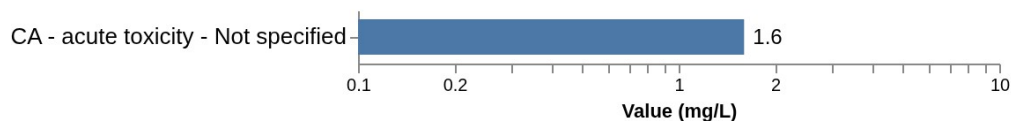


Table 685: Benchmark Values for Naphthylacetic Acid, 1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-87-3	OPP	Freshwater Fish Chronic	Not specified	1.2
86-87-3	OPP	Freshwater Vascular Plant	Not specified	4.2
86-87-3	OPP	Freshwater Nonvascular Plant	Not specified	6.1
86-87-3	OPP	Freshwater Invertebrates Chronic	Not specified	11.0
86-87-3	OPP	Freshwater Fish Acute	Not specified	14.0
86-87-3	OPP	Freshwater Invertebrates Acute	Not specified	90.0

Benchmark Values for Naphthylacetic Acid, 1- in Surface Water (Fresh Water)

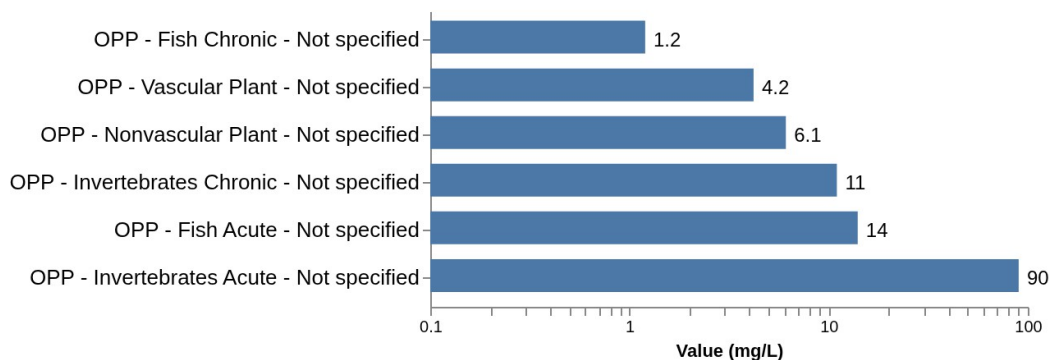


Table 686: Benchmark Values for Napropamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
15299-99-7	OPP	Freshwater Vascular Plant	Not specified	0.35
15299-99-7	OPP	Freshwater Fish Chronic	Not specified	1.10
15299-99-7	OPP	Freshwater Invertebrates Chronic	Not specified	1.10
15299-99-7	OPP	Freshwater Nonvascular Plant	Not specified	2.02
15299-99-7	OPP	Freshwater Fish Acute	Not specified	6.00
15299-99-7	OPP	Freshwater Invertebrates Acute	Not specified	12.35

Benchmark Values for Napropamide in Surface Water (Fresh Water)

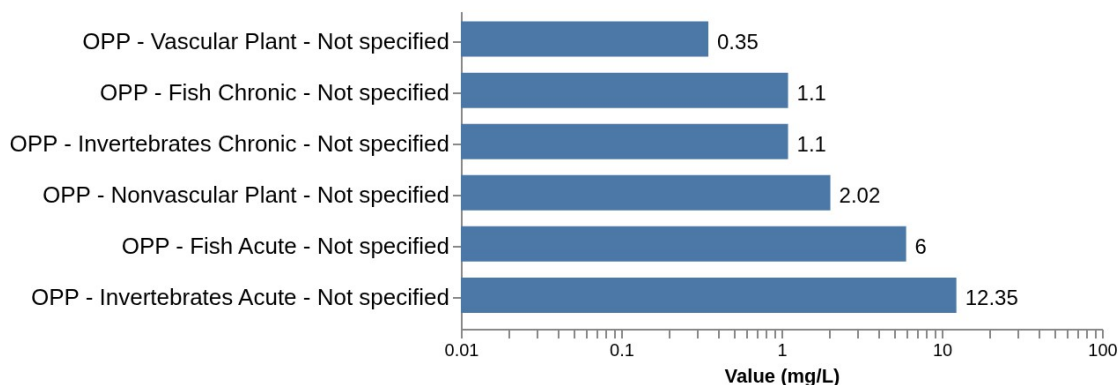
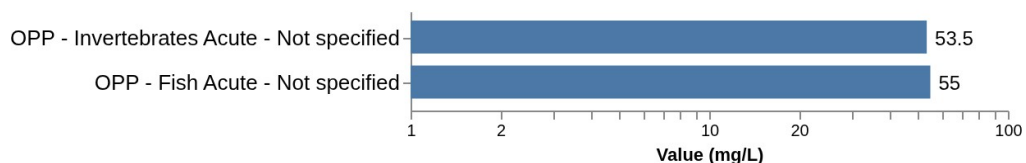


Table 687: Benchmark Values for Nicarbazin degradate HDP in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-79-2	OPP	Freshwater Invertebrates Acute	Not specified	53.5	22
108-79-2	OPP	Freshwater Fish Acute	Not specified	55.0	22

Benchmark Values for Nicarbazin degradate HDP in Surface Water (Fresh Water)**Table 688: Benchmark Values for Nicarbazin DNC in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
587-90-6	OPP	Freshwater Fish Acute	Not specified	0.0345	22
587-90-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0465	22

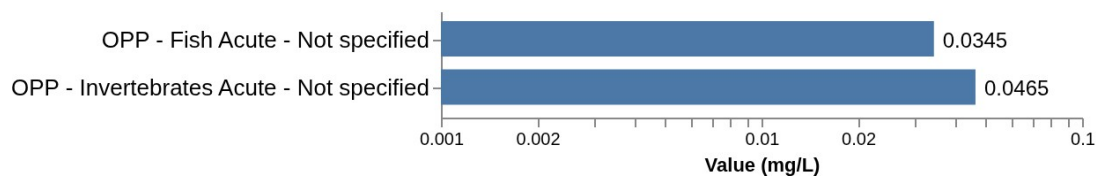
Benchmark Values for Nicarbazin DNC in Surface Water (Fresh Water)

Table 689: Benchmark Values for Nickel Soluble Salts in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-02-0	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.008	87, 104
7440-02-0	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.011	87, 89, 104
7440-02-0	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.013	87, 104
7440-02-0	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.017	87, 94, 104
7440-02-0	Canada	Freshwater Long Term	Not specified		62
7440-02-0	Delaware	Freshwater Acute Criterion	Not specified		236, 247
7440-02-0	Delaware	Freshwater Chronic Criterion	Not specified		236, 248
7440-02-0	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.052	
7440-02-0	EPA NRWQC	Freshwater CMC Acute	Not specified	0.47	
7440-02-0	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.16	157
7440-02-0	EPA Region 3	BTAG – Freshwater	Not specified	0.052	
7440-02-0	EPA Region 4	Chronic Freshwater	Not specified	0.0289	1, 2
7440-02-0	EPA Region 4	Acute Freshwater	Not specified	0.26	1, 2
7440-02-0	EPA Region 6	Freshwater Chronic	Not specified	0.0289	21
7440-02-0	EPA Region 6	Freshwater Acute	Not specified	0.26	21
7440-02-0	New Jersey	Freshwater Chronic	Not specified	0.04413	202
7440-02-0	New Jersey	Freshwater Acute	Not specified	0.533115	202

Benchmark Values for Nickel Soluble Salts in Surface Water (Fresh Water)

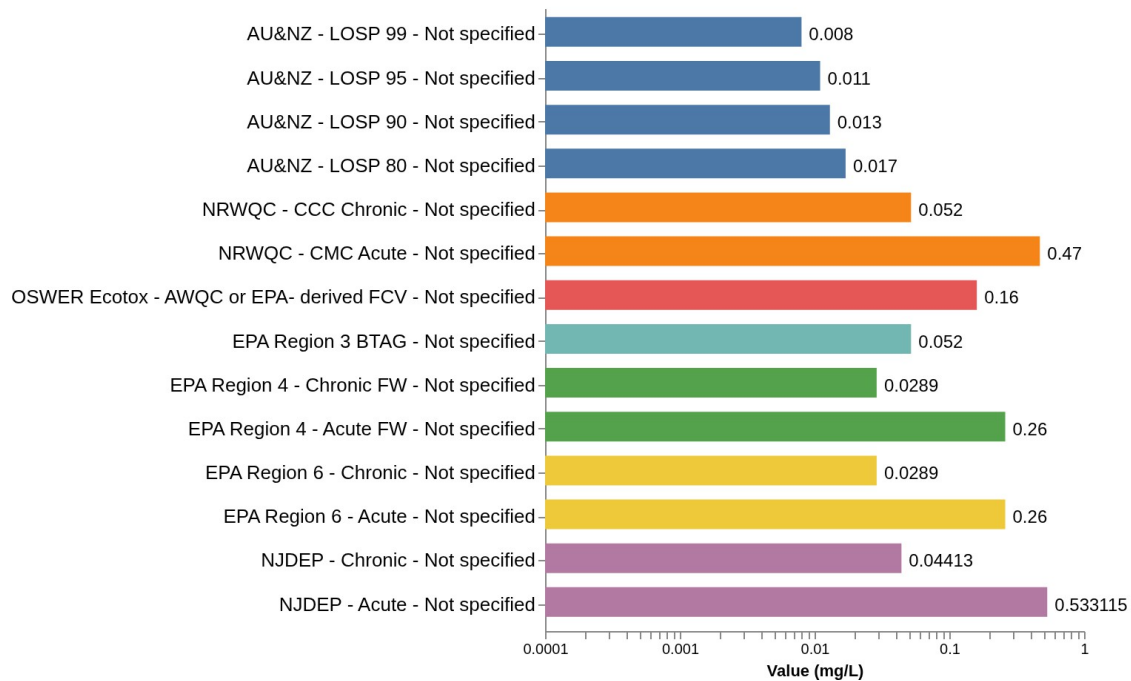


Table 690: Benchmark Values for Niclosamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
50-65-7	OPP	Freshwater Fish Acute	Not specified	0.015
50-65-7	OPP	Freshwater Invertebrates Acute	Not specified	0.017
50-65-7	OPP	Freshwater Nonvascular Plant	Not specified	0.041
50-65-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.056
50-65-7	OPP	Freshwater Vascular Plant	Not specified	0.630

Benchmark Values for Niclosamide in Surface Water (Fresh Water)

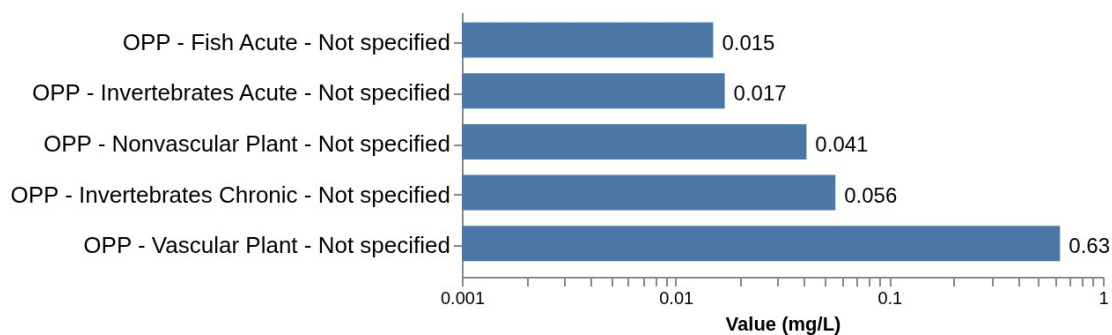


Table 691: Benchmark Values for Nicosulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
111991-09-4	OPP	Freshwater Invertebrates Chronic	Not specified	43	
111991-09-4	OPP	Freshwater Invertebrates Acute	Not specified	500	22
111991-09-4	OPP	Freshwater Fish Acute	Not specified	500	22

Benchmark Values for Nicosulfuron in Surface Water (Fresh Water)

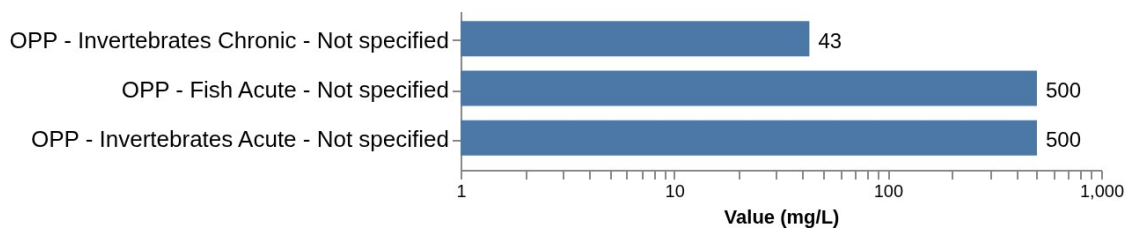


Table 692: Benchmark Values for Nithiazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
58842-20-9	OPP	Freshwater Invertebrates Acute	Not specified	16.925
58842-20-9	OPP	Freshwater Fish Acute	Not specified	58.500

Benchmark Values for Nithiazine in Surface Water (Fresh Water)

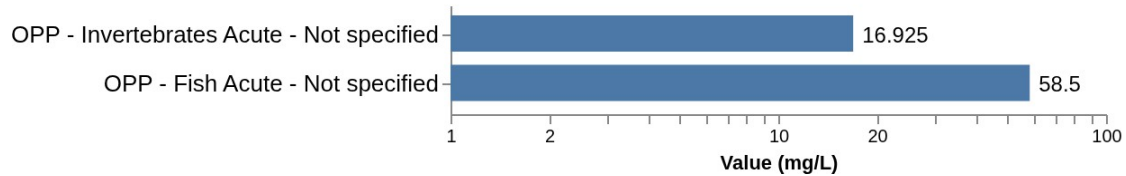


Table 693: Benchmark Values for Nitrapyrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1929-82-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.103
1929-82-4	OPP	Freshwater Invertebrates Acute	Not specified	1.100
1929-82-4	OPP	Freshwater Nonvascular Plant	Not specified	1.200
1929-82-4	OPP	Freshwater Vascular Plant	Not specified	2.870

Benchmark Values for Nitrapyrin in Surface Water (Fresh Water)

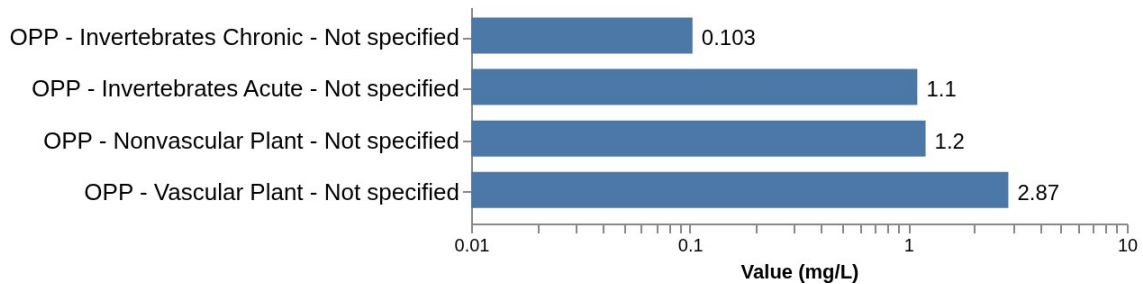


Table 694: Benchmark Values for Nitrate (measured as nitrogen) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
14797-55-8	British Columbia	Freshwater LTC	Not specified	3.0
14797-55-8	British Columbia	Freshwater STA	Not specified	32.8
14797-55-8	Canada	Freshwater Long Term	Not specified	13.0
14797-55-8	Canada	Freshwater Short Term	Not specified	550.0
14797-55-8	EPA Region 6	Freshwater Chronic	Not specified	13.0
14797-55-8	EPA Region 6	Freshwater Acute	Not specified	550.0

Benchmark Values for Nitrate (measured as nitrogen) in Surface Water (Fresh Water)

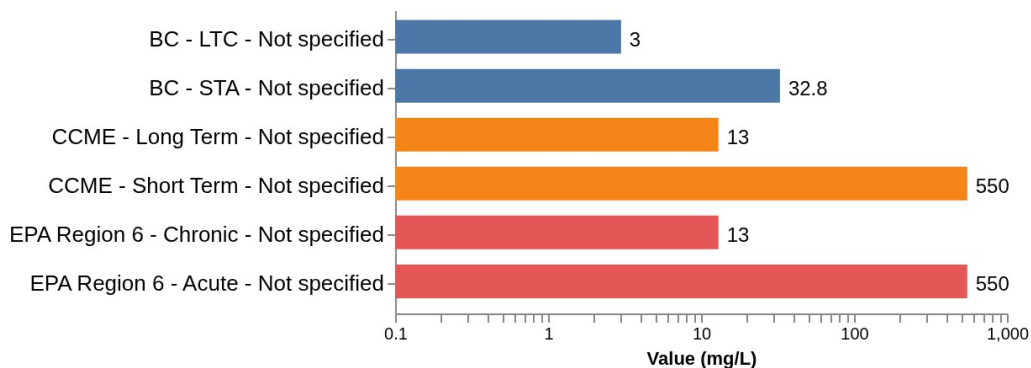


Table 695: Benchmark Values for Nitritotriacetic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
139-13-9	EPA Region 3	BTAG – Freshwater	Not specified	5

Benchmark Values for Nitritotriacetic acid in Surface Water (Fresh Water)

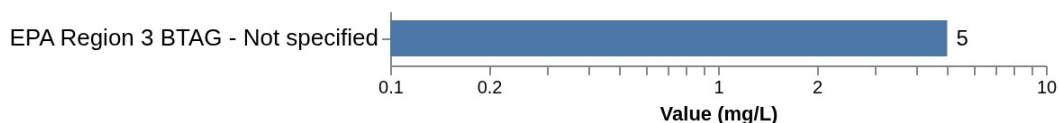


Table 696: Benchmark Values for Nitrite (cold water) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-2	EPA Region 3	BTAG – Freshwater	Not specified	0.02

Benchmark Values for Nitrite (cold water) in Surface Water (Fresh Water)

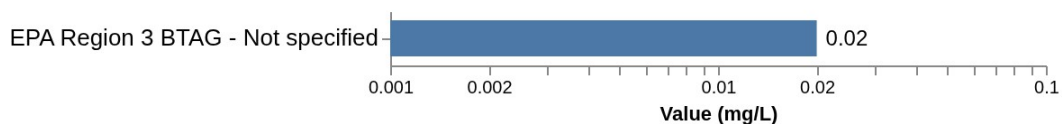


Table 697: Benchmark Values for Nitrite (measured as nitrogen) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14797-65-0	British Columbia	Freshwater LTC	Not specified	0.02	128
14797-65-0	British Columbia	Freshwater STA	Not specified	0.06	118
14797-65-0	EPA Region 4	Chronic Freshwater	Not specified	0.02	
14797-65-0	EPA Region 4	Acute Freshwater	Not specified	0.10	

Benchmark Values for Nitrite (measured as nitrogen) in Surface Water (Fresh Water)

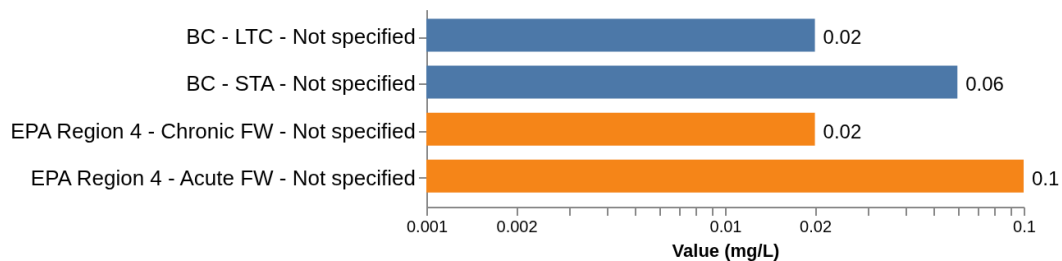


Table 698: Benchmark Values for Nitrite (warm water) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-3	EPA Region 3	BTAG – Freshwater	Not specified	0.1

Benchmark Values for Nitrite (warm water) in Surface Water (Fresh Water)



Table 699: Benchmark Values for Nitroaniline, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
88-74-4	EPA Region 4	Chronic Freshwater	Not specified	0.017
88-74-4	EPA Region 4	Acute Freshwater	Not specified	0.494

Benchmark Values for Nitroaniline, 2- in Surface Water (Fresh Water)

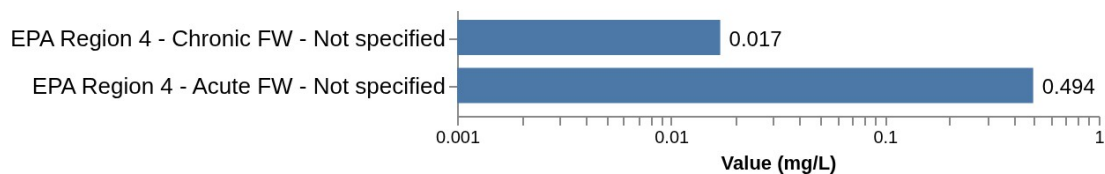


Table 700: Benchmark Values for Nitrobenzene, 1-chloro-3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-73-3	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.012	83

Benchmark Values for Nitrobenzene, 1-chloro-3- in Surface Water (Fresh Water)

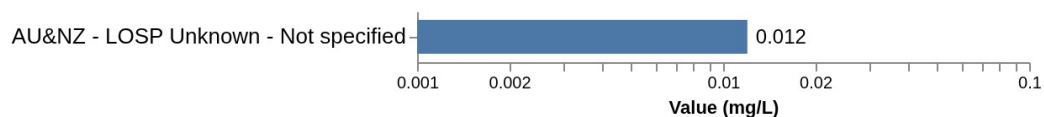


Table 701: Benchmark Values for Nitrobenzene, 1-methoxy-2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-23-6	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.13	83

Benchmark Values for Nitrobenzene, 1-methoxy-2- in Surface Water (Fresh Water)



Table 702: Benchmark Values for Nitrobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98-95-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.23	87
98-95-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.55	87, 89
98-95-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.82	87
98-95-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.30	87
98-95-3	California	Freshwater acute toxicity	Not specified	27.00	
98-95-3	EPA Region 4	Chronic Freshwater	Not specified	0.23	
98-95-3	EPA Region 4	Acute Freshwater	Not specified	1.00	
98-95-3	EPA Region 6	Freshwater Chronic	Not specified	1.10	
98-95-3	EPA Region 6	Freshwater Acute	Not specified	3.30	

Benchmark Values for Nitrobenzene in Surface Water (Fresh Water)

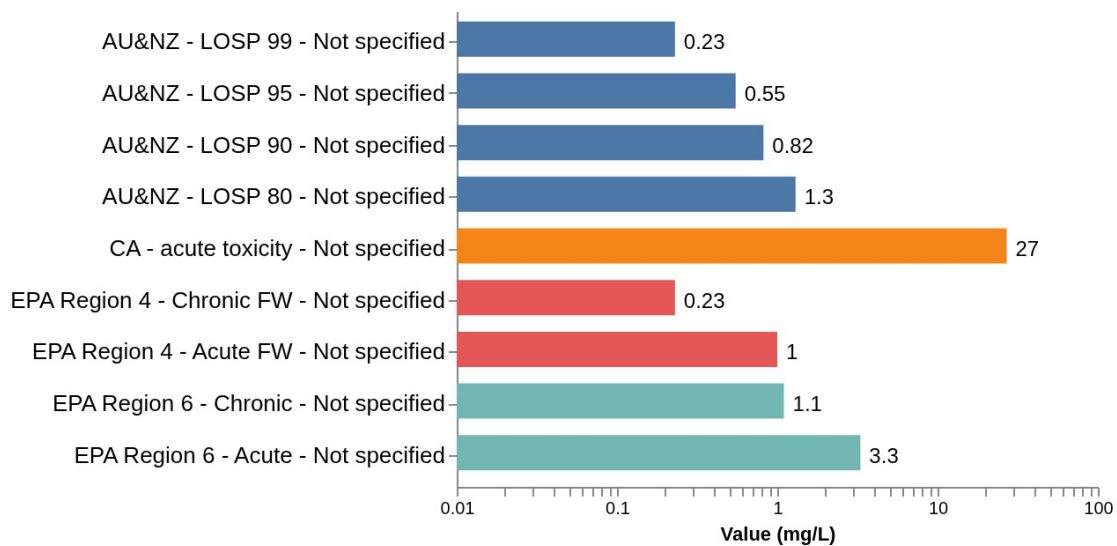


Table 703: Benchmark Values for Nitroglycerin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
55-63-0	EPA Region 3	BTAG – Freshwater	Not specified	0.138
55-63-0	EPA Region 4	Chronic Freshwater	Not specified	0.018
55-63-0	EPA Region 4	Acute Freshwater	Not specified	0.160
55-63-0	EPA Region 6	Freshwater Chronic	Not specified	0.150
55-63-0	EPA Region 6	Freshwater Acute	Not specified	0.900

Benchmark Values for Nitroglycerin in Surface Water (Fresh Water)

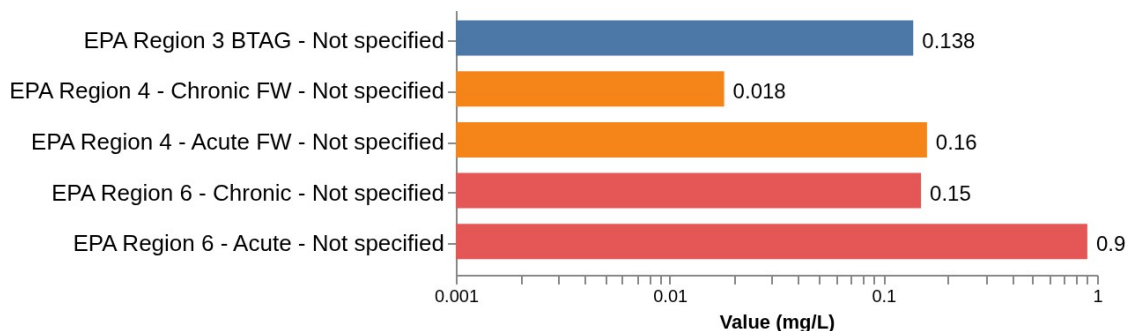


Table 704: Benchmark Values for Nitrophenol, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
88-75-5	California	Freshwater other toxicity	Not specified	0.150
88-75-5	California	Freshwater acute toxicity	Not specified	0.230
88-75-5	EPA Region 3	BTAG – Freshwater	Not specified	1.920
88-75-5	EPA Region 4	Chronic Freshwater	Not specified	0.073
88-75-5	EPA Region 4	Acute Freshwater	Not specified	0.650
88-75-5	EPA Region 6	Freshwater Chronic	Not specified	0.959
88-75-5	EPA Region 6	Freshwater Acute	Not specified	5.753

Benchmark Values for Nitrophenol, 2- in Surface Water (Fresh Water)

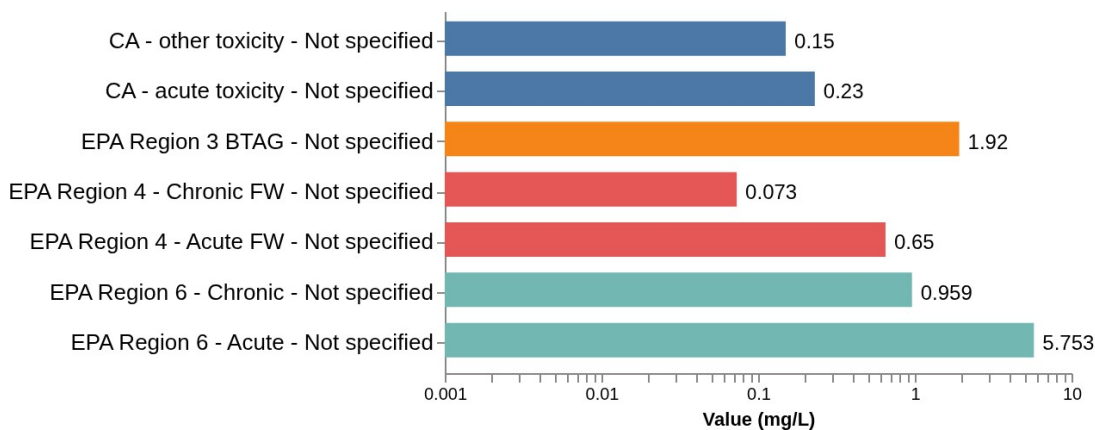


Table 705: Benchmark Values for Nitrophenol, 4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-02-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.058	83
100-02-7	California	Freshwater other toxicity	Not specified	0.150	
100-02-7	California	Freshwater acute toxicity	Not specified	0.230	
100-02-7	EPA Region 3	BTAG – Freshwater	Not specified	0.060	
100-02-7	EPA Region 4	Chronic Freshwater	Not specified	0.058	
100-02-7	EPA Region 4	Acute Freshwater	Not specified	0.530	
100-02-7	EPA Region 6	Freshwater Chronic	Not specified	0.532	
100-02-7	EPA Region 6	Freshwater Acute	Not specified	3.193	

Benchmark Values for Nitrophenol, 4- in Surface Water (Fresh Water)

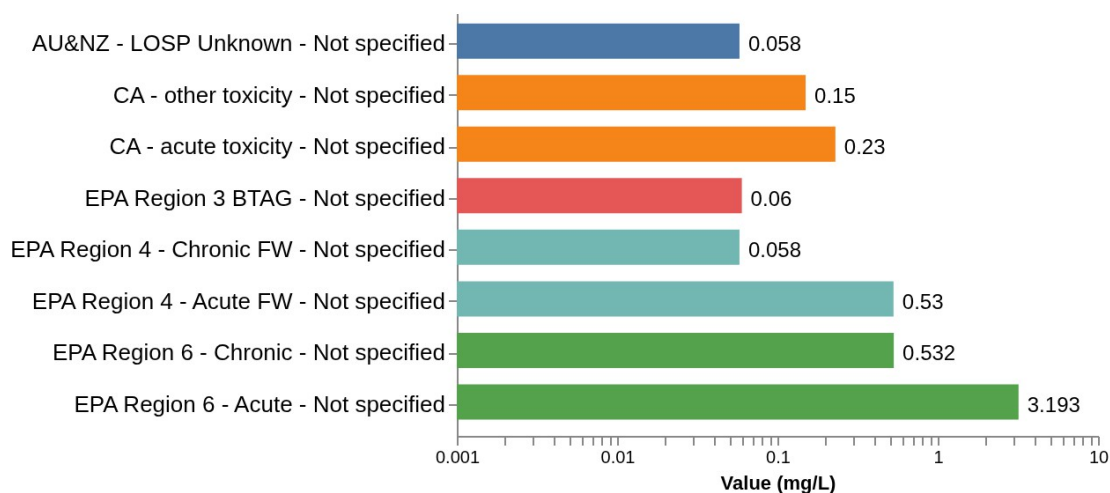


Table 706: Benchmark Values for Nitrophenols in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-47-8	California	Freshwater other toxicity	Not specified	0.15
000000-47-8	California	Freshwater acute toxicity	Not specified	0.23

Benchmark Values for Nitrophenols in Surface Water (Fresh Water)

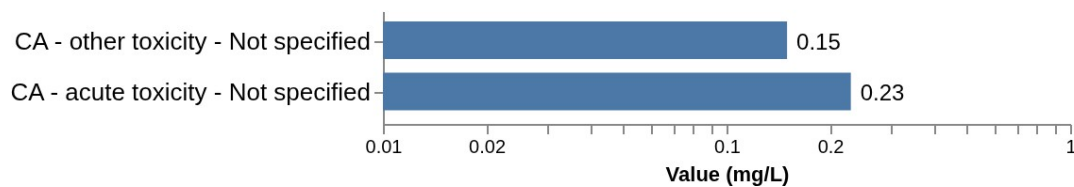


Table 707: Benchmark Values for Nitrosamines in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-7	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosamines in Surface Water (Fresh Water)

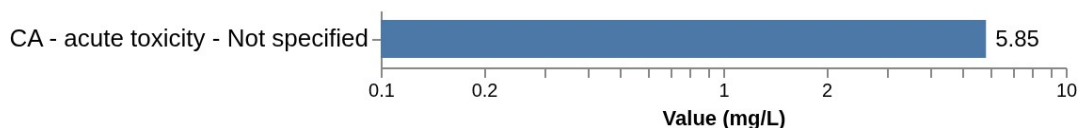


Table 708: Benchmark Values for Nitrosodibutylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
924-16-3	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosodibutylamine, N- in Surface Water (Fresh Water)

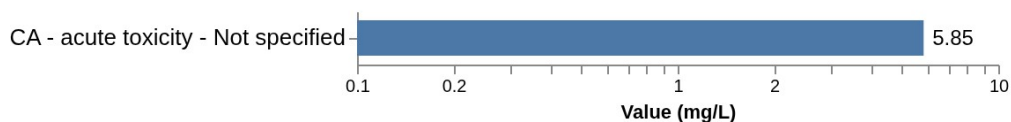


Table 709: Benchmark Values for Nitrosodiethanolamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1116-54-7	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosodiethanolamine, N- in Surface Water (Fresh Water)

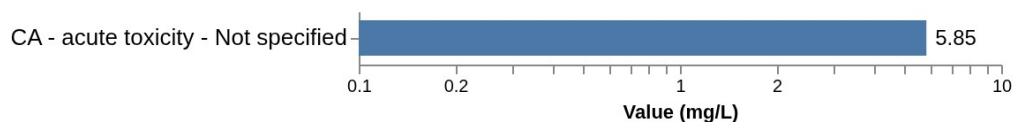


Table 710: Benchmark Values for Nitrosodiethylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
55-18-5	California	Freshwater acute toxicity	Not specified	5.850
55-18-5	EPA Region 3	BTAG - Freshwater	Not specified	0.768

Benchmark Values for Nitrosodiethylamine, N- in Surface Water (Fresh Water)

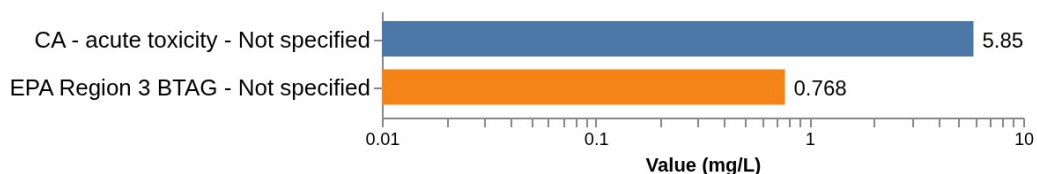


Table 711: Benchmark Values for Nitrosodimethylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
62-75-9	California	Freshwater acute toxicity	Not specified	5.850
62-75-9	EPA Region 3	BTAG – Freshwater	Not specified	0.117
62-75-9	EPA Region 6	Freshwater Chronic	Not specified	47.000
62-75-9	EPA Region 6	Freshwater Acute	Not specified	282.000

Benchmark Values for Nitrosodimethylamine, N- in Surface Water (Fresh Water)

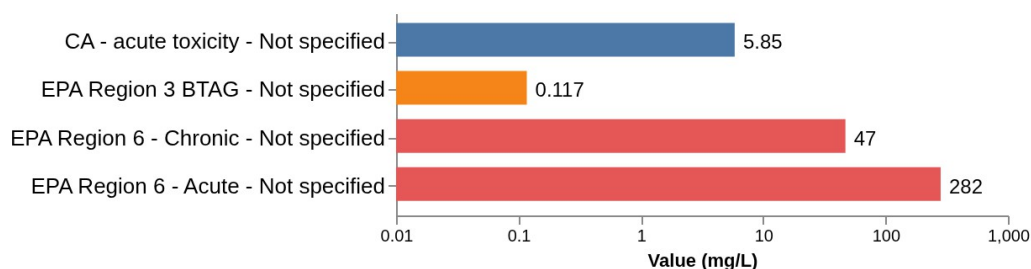


Table 712: Benchmark Values for Nitrosodiphenylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86-30-6	California	Freshwater acute toxicity	Not specified	5.850
86-30-6	EPA Region 3	BTAG – Freshwater	Not specified	0.210
86-30-6	EPA Region 4	Chronic Freshwater	Not specified	0.025
86-30-6	EPA Region 4	Acute Freshwater	Not specified	0.220
86-30-6	EPA Region 6	Freshwater Chronic	Not specified	0.290
86-30-6	EPA Region 6	Freshwater Acute	Not specified	1.740

Benchmark Values for Nitrosodiphenylamine, N- in Surface Water (Fresh Water)

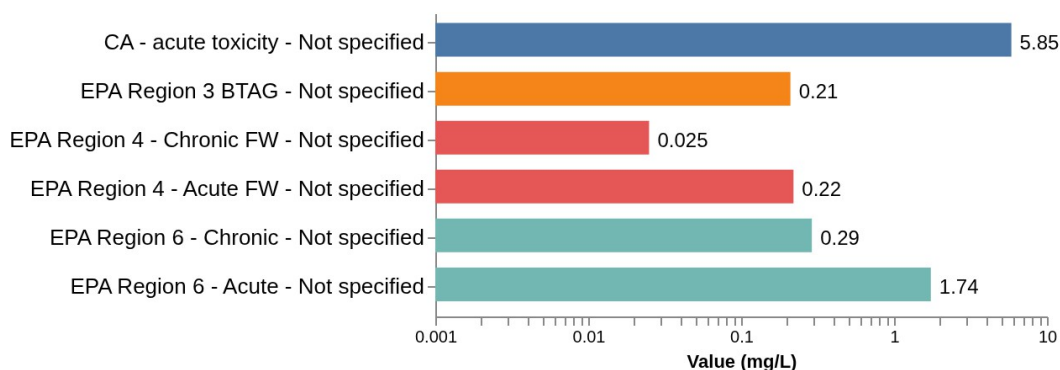


Table 713: Benchmark Values for Nitrosodiphenylamine, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
156-10-5	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosodiphenylamine, p- in Surface Water (Fresh Water)

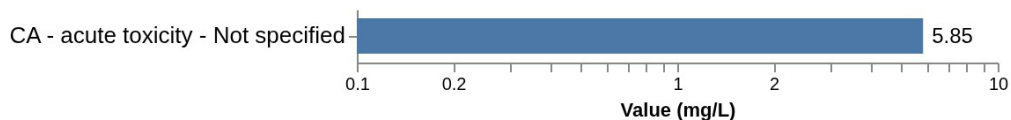


Table 714: Benchmark Values for Nitrosodipropylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
621-64-7	California	Freshwater acute toxicity	Not specified	5.85
621-64-7	EPA Region 6	Freshwater Chronic	Not specified	0.02
621-64-7	EPA Region 6	Freshwater Acute	Not specified	0.60

Benchmark Values for Nitrosodipropylamine, N- in Surface Water (Fresh Water)

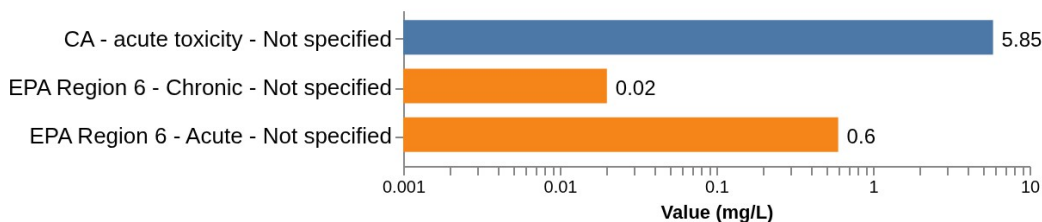


Table 715: Benchmark Values for Nitrosomethylethylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
10595-95-6	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosomethylethylamine, N- in Surface Water (Fresh Water)

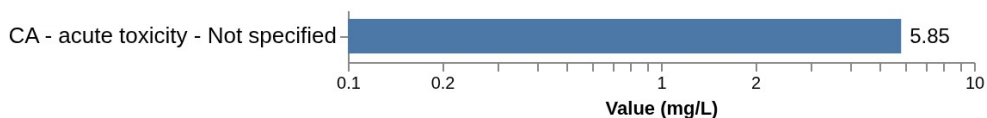


Table 716: Benchmark Values for Nitrosomethylvinylamine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
4549-40-0	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosomethylvinylamine, N- in Surface Water (Fresh Water)

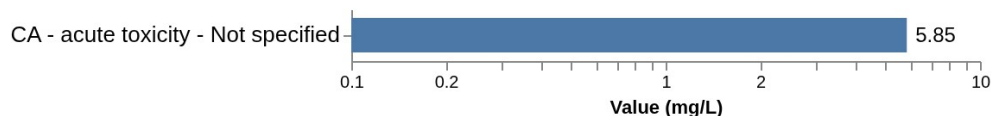


Table 717: Benchmark Values for Nitrosopyrrolidine, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
930-55-2	California	Freshwater acute toxicity	Not specified	5.85

Benchmark Values for Nitrosopyrrolidine, N- in Surface Water (Fresh Water)

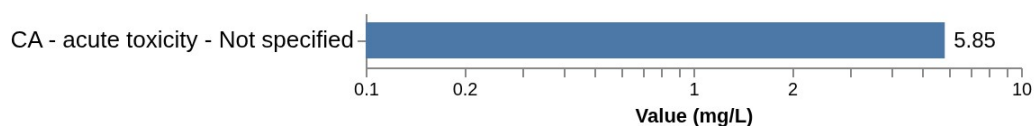


Table 718: Benchmark Values for Nitrotoluene, m- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-08-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0750	83
99-08-1	EPA Region 3	BTAG – Freshwater	Not specified	0.7500	
99-08-1	EPA Region 4	Chronic Freshwater	Not specified	0.0420	
99-08-1	EPA Region 4	Acute Freshwater	Not specified	0.3800	
99-08-1	EPA Region 6	Freshwater Chronic	Not specified	0.0845	
99-08-1	EPA Region 6	Freshwater Acute	Not specified	0.2540	

Benchmark Values for Nitrotoluene, m- in Surface Water (Fresh Water)

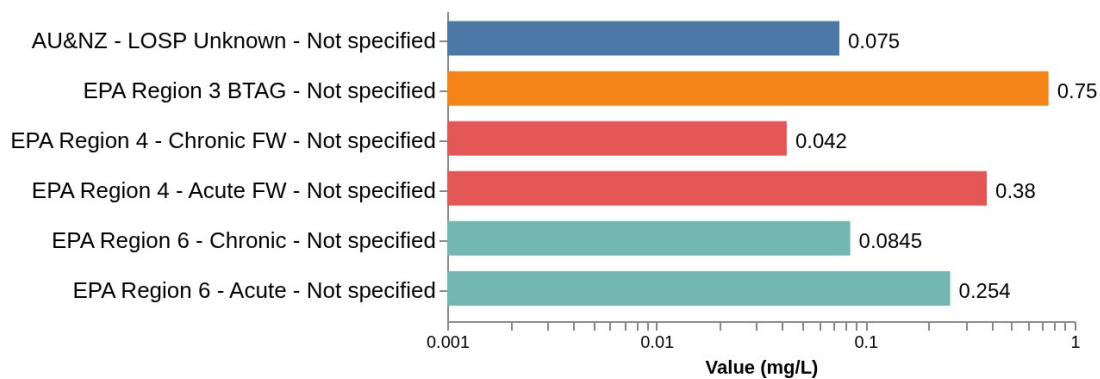


Table 719: Benchmark Values for Nitrotoluene, o- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-72-2	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.110	83
88-72-2	EPA Region 4	Chronic Freshwater	Not specified	0.071	
88-72-2	EPA Region 4	Acute Freshwater	Not specified	0.640	
88-72-2	EPA Region 6	Freshwater Chronic	Not specified	0.100	
88-72-2	EPA Region 6	Freshwater Acute	Not specified	0.300	

Benchmark Values for Nitrotoluene, o- in Surface Water (Fresh Water)

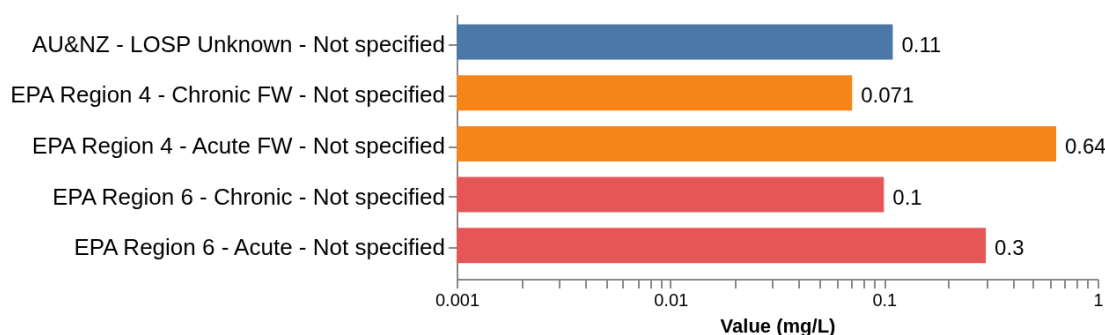


Table 720: Benchmark Values for Nitrotoluene, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-99-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.120	83
99-99-0	EPA Region 3	BTAG – Freshwater	Not specified	1.900	
99-99-0	EPA Region 4	Chronic Freshwater	Not specified	0.046	
99-99-0	EPA Region 4	Acute Freshwater	Not specified	0.410	
99-99-0	EPA Region 6	Freshwater Chronic	Not specified	0.041	
99-99-0	EPA Region 6	Freshwater Acute	Not specified	0.122	

Benchmark Values for Nitrotoluene, p- in Surface Water (Fresh Water)

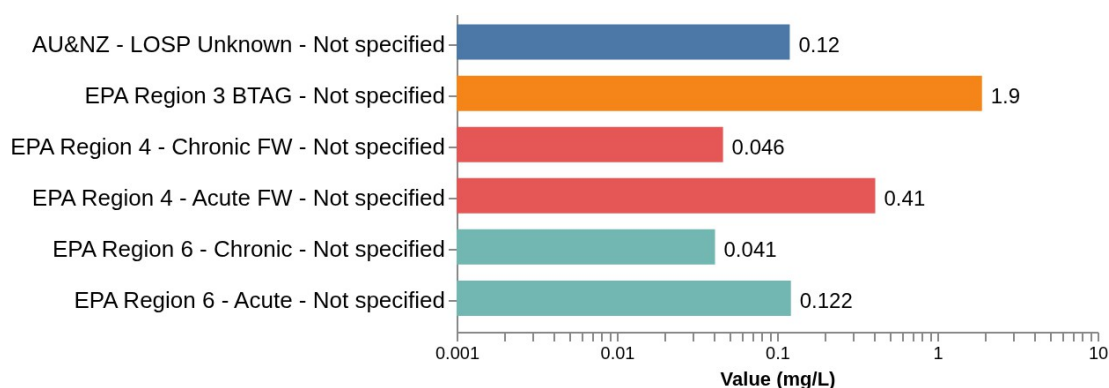


Table 721: Benchmark Values for N-Methyl dithiocarbamate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
137-42-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.0250
137-42-8	OPP	Freshwater Fish Acute	Not specified	0.0265
137-42-8	OPP	Freshwater Invertebrates Acute	Not specified	0.0275
137-42-8	OPP	Freshwater Nonvascular Plant	Not specified	0.2000
137-42-8	OPP	Freshwater Vascular Plant	Not specified	0.5900

Benchmark Values for N-Methyl dithiocarbamate in Surface Water (Fresh Water)

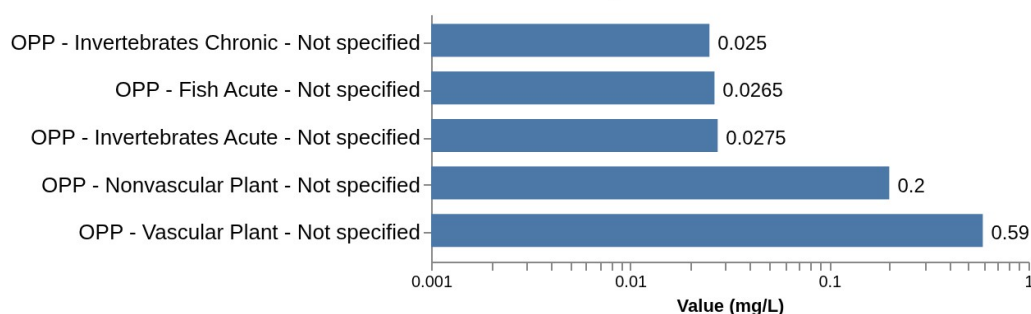


Table 722: Benchmark Values for Nonylphenol (branched) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
84852-15-3	Canada	Freshwater Long Term	Not specified	0.001
84852-15-3	EPA Region 4	Chronic Freshwater	Not specified	0.001
84852-15-3	EPA Region 4	Acute Freshwater	Not specified	0.006

Benchmark Values for Nonylphenol (branched) in Surface Water (Fresh Water)

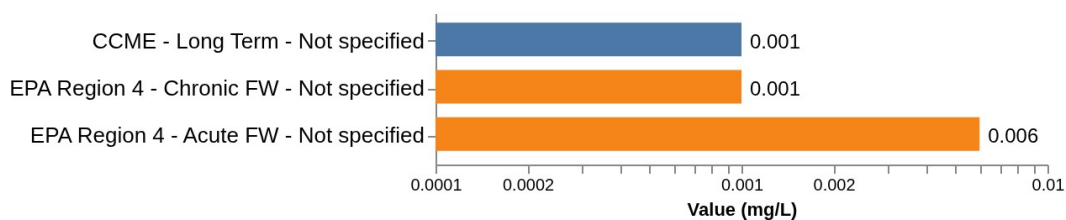


Table 723: Benchmark Values for Nonylphenol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25154-52-3	California	Freshwater CCC, 4-day average	Not specified	0.0066
25154-52-3	California	Freshwater CMC, 1-hour average	Not specified	0.0280
25154-52-3	Delaware	Freshwater Chronic Criterion	Not specified	0.0066
25154-52-3	Delaware	Freshwater Acute Criterion	Not specified	0.0280
25154-52-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0066
25154-52-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.0280
25154-52-3	EPA Region 6	Freshwater Chronic	Not specified	0.0066
25154-52-3	EPA Region 6	Freshwater Acute	Not specified	0.0280
25154-52-3	Florida	Freshwater Contaminant Cleanup	Not specified	0.0059
25154-52-3	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0066

Benchmark Values for Nonylphenol in Surface Water (Fresh Water)

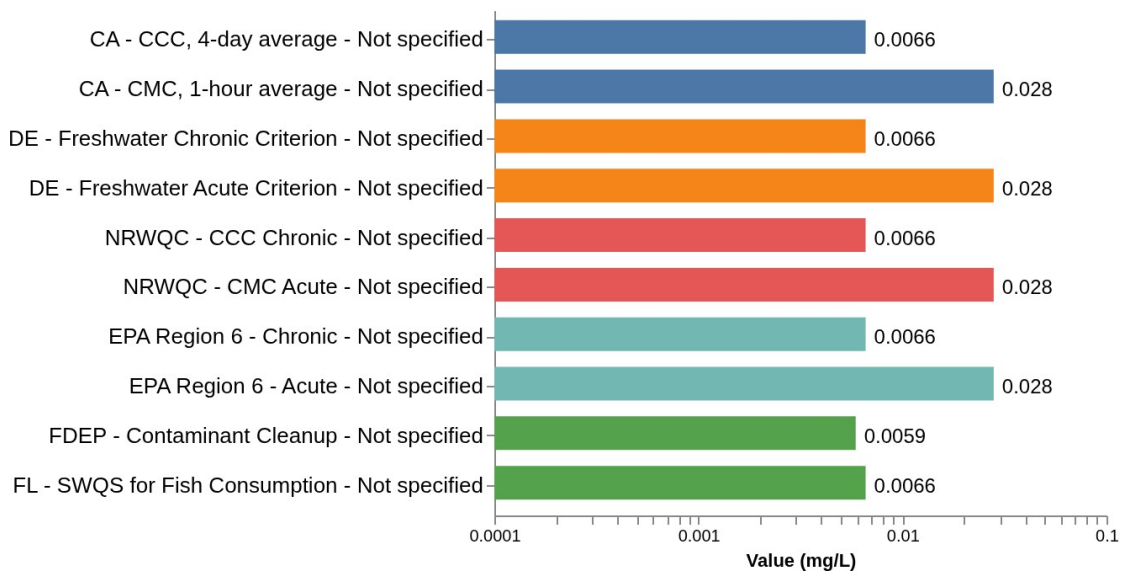


Table 724: Benchmark Values for Norflurazon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
27314-13-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0097	
27314-13-2	OPP	Freshwater Vascular Plant	Not specified	0.0582	
27314-13-2	OPP	Freshwater Fish Chronic	Not specified	0.7700	
27314-13-2	OPP	Freshwater Invertebrates Chronic	Not specified	1.0000	
27314-13-2	OPP	Freshwater Fish Acute	Not specified	4.0500	
27314-13-2	OPP	Freshwater Invertebrates Acute	Not specified	7.5000	22

Benchmark Values for Norflurazon in Surface Water (Fresh Water)

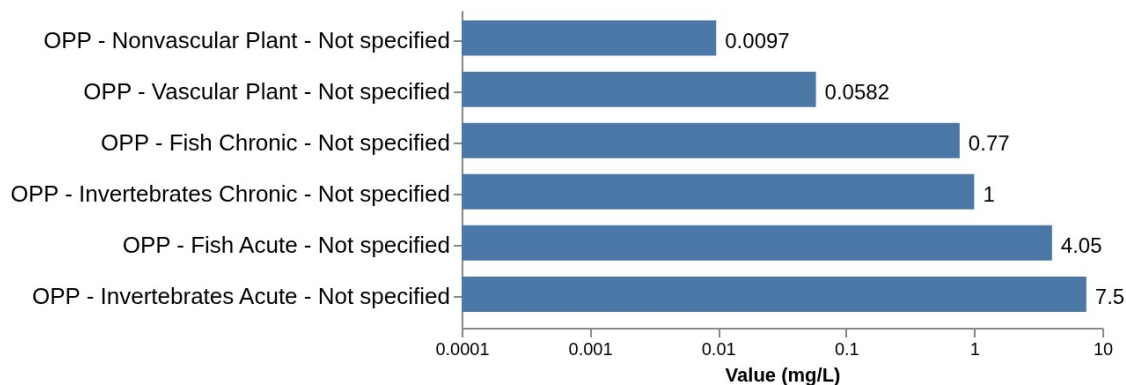


Table 725: Benchmark Values for Novaluron degradate Chloroaniline in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-31-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.064
000000-31-4	OPP	Freshwater Fish Acute	Not specified	0.245
000000-31-4	OPP	Freshwater Nonvascular Plant	Not specified	3.300

Benchmark Values for Novaluron degradate Chloroaniline in Surface Water (Fresh Water)

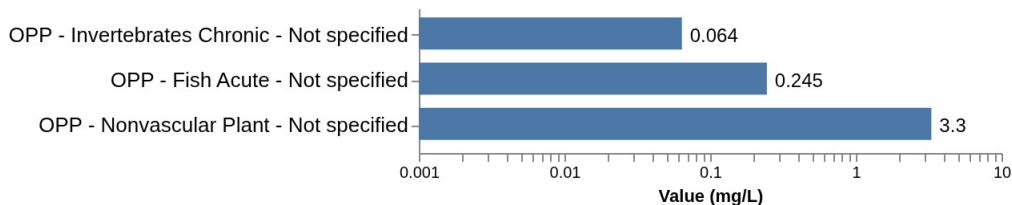


Table 726: Benchmark Values for Novaluron degradate Chlorphenyl urea in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-31-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.170	
000000-31-5	OPP	Freshwater Fish Acute	Not specified	0.265	
000000-31-5	OPP	Freshwater Fish Chronic	Not specified	0.280	
000000-31-5	OPP	Freshwater Nonvascular Plant	Not specified	0.320	
000000-31-5	OPP	Freshwater Invertebrates Acute	Not specified	0.955	
000000-31-5	OPP	Freshwater Vascular Plant	Not specified	5.300	22

Benchmark Values for Novaluron degradate Chlorphenyl urea in Surface Water (Fresh Water)

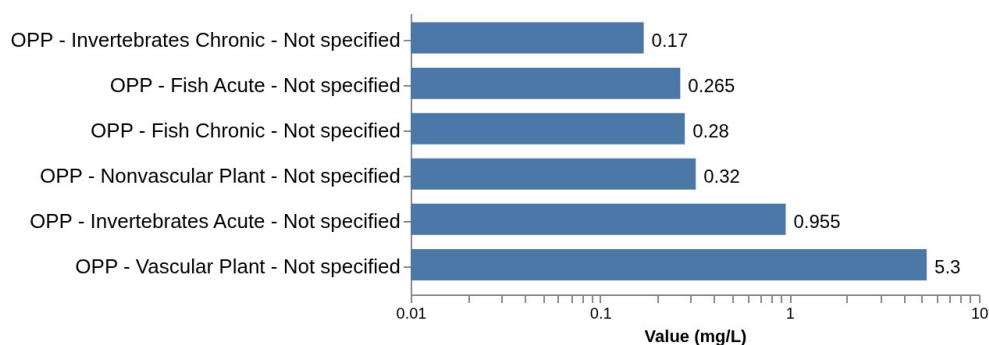


Table 727: Benchmark Values for Novaluron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
116714-46-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.000030	
116714-46-6	OPP	Freshwater Invertebrates Acute	Not specified	0.000075	
116714-46-6	OPP	Freshwater Fish Chronic	Not specified	0.006160	
116714-46-6	OPP	Freshwater Fish Acute	Not specified	0.480000	22
116714-46-6	OPP	Freshwater Vascular Plant	Not specified	0.777000	22
116714-46-6	OPP	Freshwater Nonvascular Plant	Not specified	32.000000	

Benchmark Values for Novaluron in Surface Water (Fresh Water)

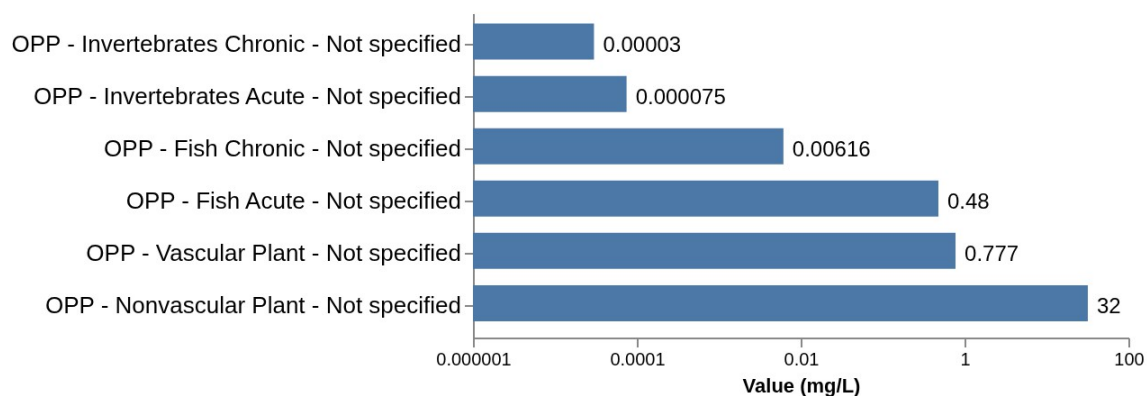


Table 728: Benchmark Values for Octabromodiphenyl Ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
32536-52-0	California	Freshwater chronic toxicity	Not specified	0.122000
32536-52-0	California	Freshwater acute toxicity	Not specified	0.360000
32536-52-0	ECC Canada	Freshwater LTC	Not specified	0.000017

Benchmark Values for Octabromodiphenyl Ether in Surface Water (Fresh Water)

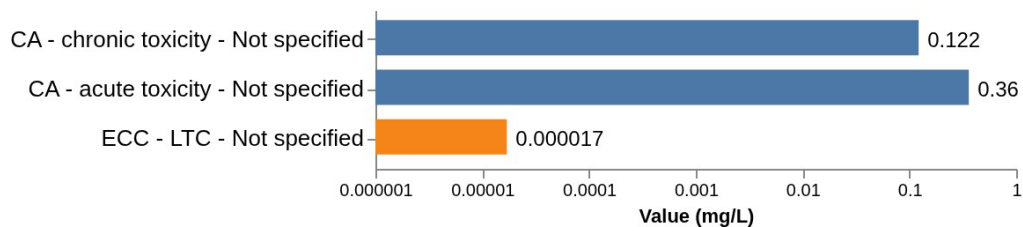


Table 729: Benchmark Values for Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2691-41-0	EPA Region 3	BTAG – Freshwater	Not specified	0.15	
2691-41-0	EPA Region 4	Chronic Freshwater	Not specified	0.22	
2691-41-0	EPA Region 4	Acute Freshwater	Not specified	1.20	
2691-41-0	EPA Region 6	Freshwater Chronic	Not specified	0.33	
2691-41-0	EPA Region 6	Freshwater Acute	Not specified	3.75	

Benchmark Values for Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Surface Water (Fresh Water)

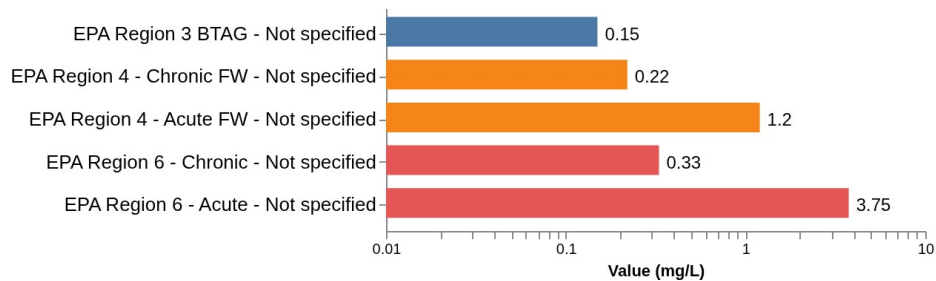


Table 730: Benchmark Values for Octanone, 2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
111-13-7	EPA Region 3	BTAG – Freshwater	Not specified	0.0083
111-13-7	EPA Region 4	Chronic Freshwater	Not specified	0.0083
111-13-7	EPA Region 4	Acute Freshwater	Not specified	0.1500
111-13-7	EPA Region 6	Freshwater Chronic	Not specified	0.0083
111-13-7	EPA Region 6	Freshwater Acute	Not specified	0.1500

Benchmark Values for Octanone, 2- in Surface Water (Fresh Water)

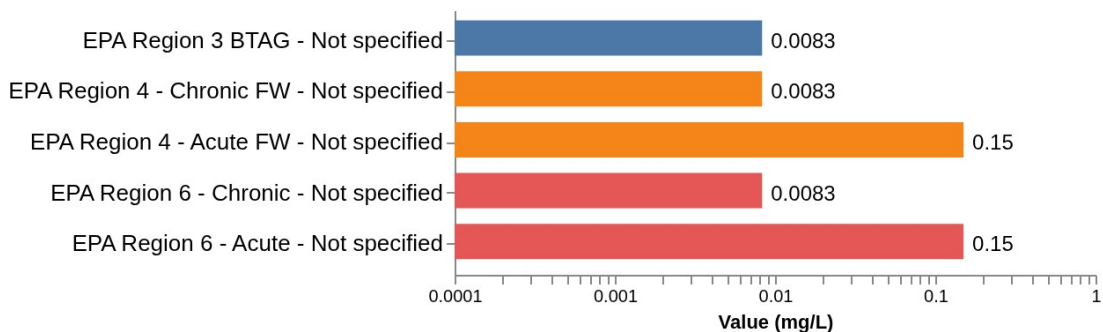


Table 731: Benchmark Values for Octanone, 3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
106-68-3	EPA Region 3	BTAG – Freshwater	Not specified	3.571

Benchmark Values for Octanone, 3- in Surface Water (Fresh Water)

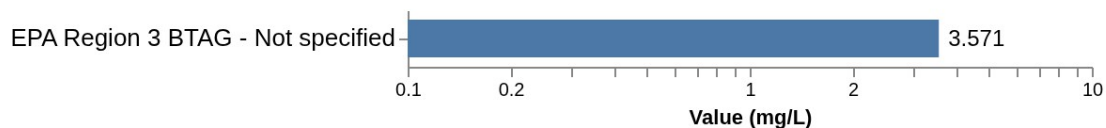


Table 732: Benchmark Values for Othilinine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
26530-20-1	OPP	Freshwater Nonvascular Plant	Not specified	0.00061
26530-20-1	OPP	Freshwater Fish Acute	Not specified	0.02350
26530-20-1	OPP	Freshwater Fish Chronic	Not specified	0.03200
26530-20-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.08000
26530-20-1	OPP	Freshwater Invertebrates Acute	Not specified	0.09000
26530-20-1	OPP	Freshwater Vascular Plant	Not specified	0.28000

Benchmark Values for Othilinine in Surface Water (Fresh Water)

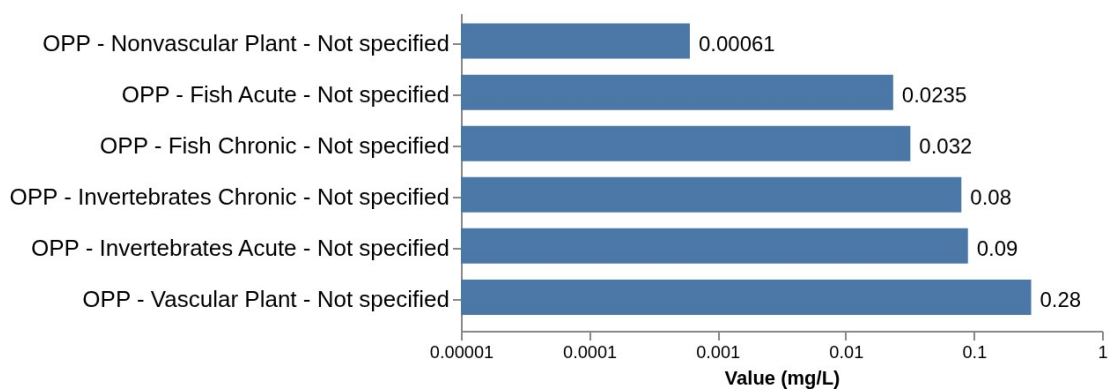


Table 733: Benchmark Values for Octyl Phthalate, di-N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
117-84-0	California	Freshwater chronic toxicity	Not specified	0.003
117-84-0	California	Freshwater acute toxicity	Not specified	0.940
117-84-0	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.003
117-84-0	EPA Region 3	BTAG – Freshwater	Not specified	0.022
117-84-0	EPA Region 4	Chronic Freshwater	Not specified	0.215
117-84-0	EPA Region 4	Acute Freshwater	Not specified	0.893
117-84-0	EPA Region 6	Freshwater Chronic	Not specified	0.002
117-84-0	EPA Region 6	Freshwater Acute	Not specified	0.020

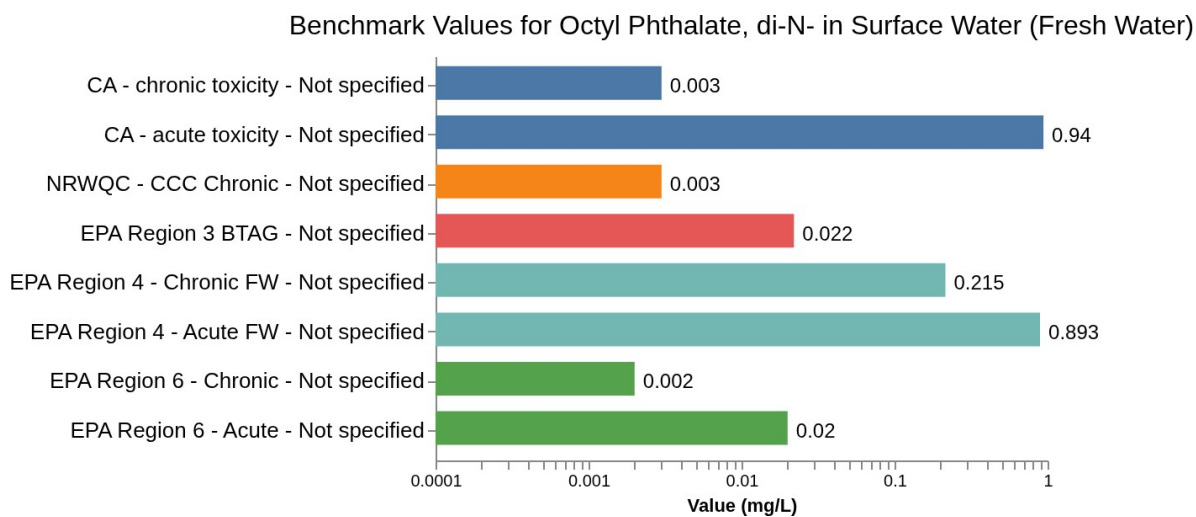


Table 734: Benchmark Values for Orthosulfamuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
213464-77-8	OPP	Freshwater Vascular Plant	Not specified	0.0007	
213464-77-8	OPP	Freshwater Nonvascular Plant	Not specified	0.0800	
213464-77-8	OPP	Freshwater Fish Chronic	Not specified	6.1000	
213464-77-8	OPP	Freshwater Invertebrates Chronic	Not specified	6.5000	
213464-77-8	OPP	Freshwater Invertebrates Acute	Not specified	48.6500	22
213464-77-8	OPP	Freshwater Fish Acute	Not specified	61.0000	22

Benchmark Values for Orthosulfamuron in Surface Water (Fresh Water)

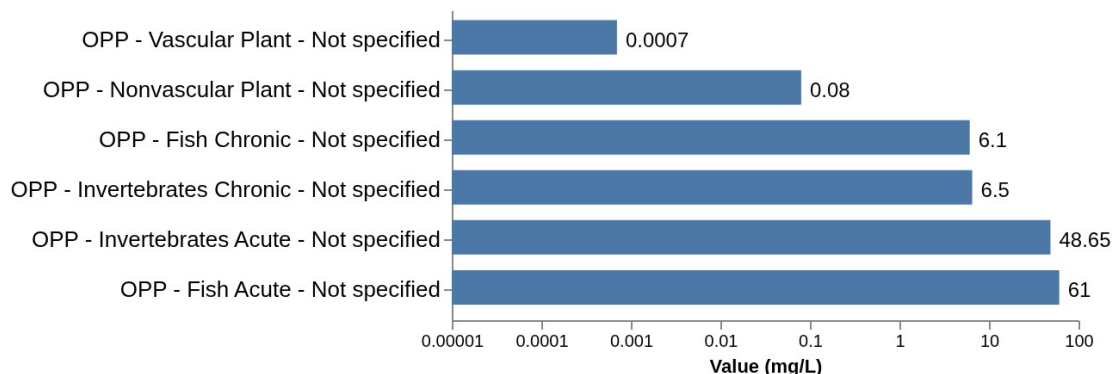


Table 735: Benchmark Values for Oryzalin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
19044-88-3	OPP	Freshwater Vascular Plant	Not specified	0.013
19044-88-3	OPP	Freshwater Nonvascular Plant	Not specified	0.052
19044-88-3	OPP	Freshwater Fish Chronic	Not specified	0.220
19044-88-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.358
19044-88-3	OPP	Freshwater Invertebrates Acute	Not specified	0.750
19044-88-3	OPP	Freshwater Fish Acute	Not specified	1.440

Benchmark Values for Oryzalin in Surface Water (Fresh Water)

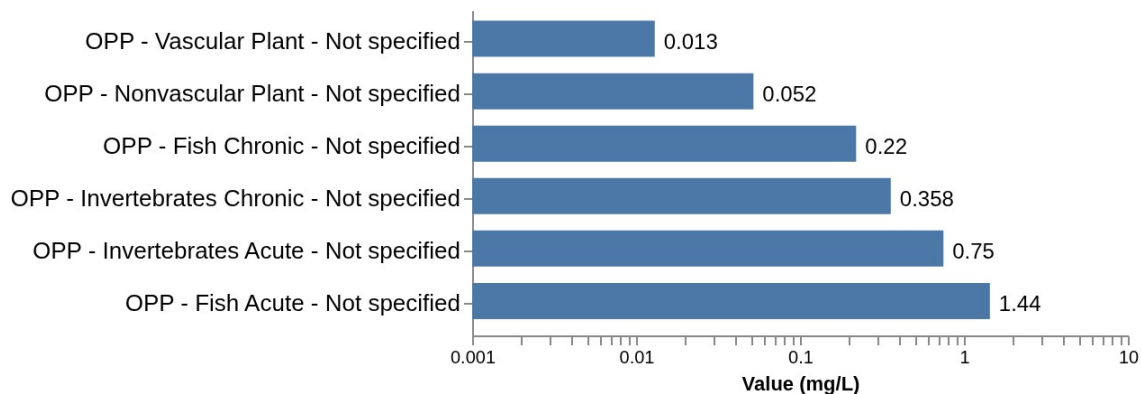


Table 736: Benchmark Values for Oxadiazon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
19666-30-9	OPP	Freshwater Fish Chronic	Not specified	0.00088	
19666-30-9	OPP	Freshwater Nonvascular Plant	Not specified	0.00520	
19666-30-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.03000	
19666-30-9	OPP	Freshwater Vascular Plant	Not specified	0.04100	
19666-30-9	OPP	Freshwater Fish Acute	Not specified	0.60000	
19666-30-9	OPP	Freshwater Invertebrates Acute	Not specified	1.20000	22

Benchmark Values for Oxadiazon in Surface Water (Fresh Water)

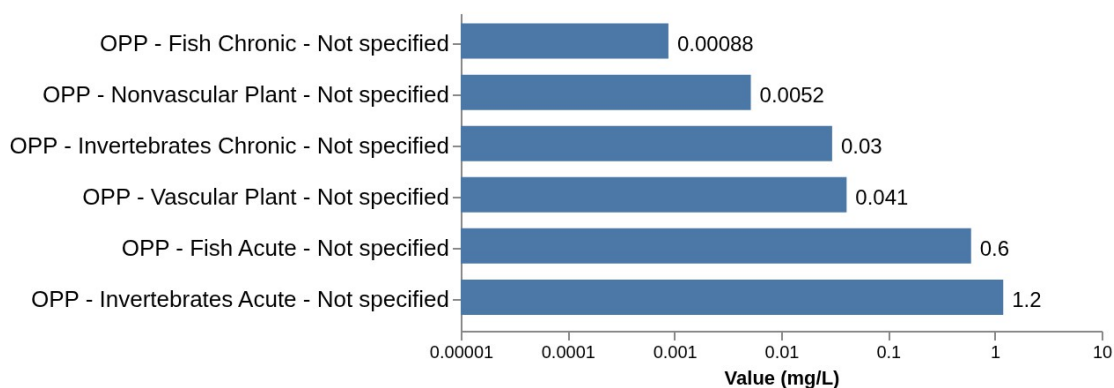


Table 737: Benchmark Values for Oxamyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
23135-22-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.027
23135-22-0	OPP	Freshwater Invertebrates Acute	Not specified	0.090
23135-22-0	OPP	Freshwater Nonvascular Plant	Not specified	0.120
23135-22-0	OPP	Freshwater Fish Chronic	Not specified	0.500
23135-22-0	OPP	Freshwater Fish Acute	Not specified	2.100
23135-22-0	OPP	Freshwater Vascular Plant	Not specified	30.000

Benchmark Values for Oxamyl in Surface Water (Fresh Water)

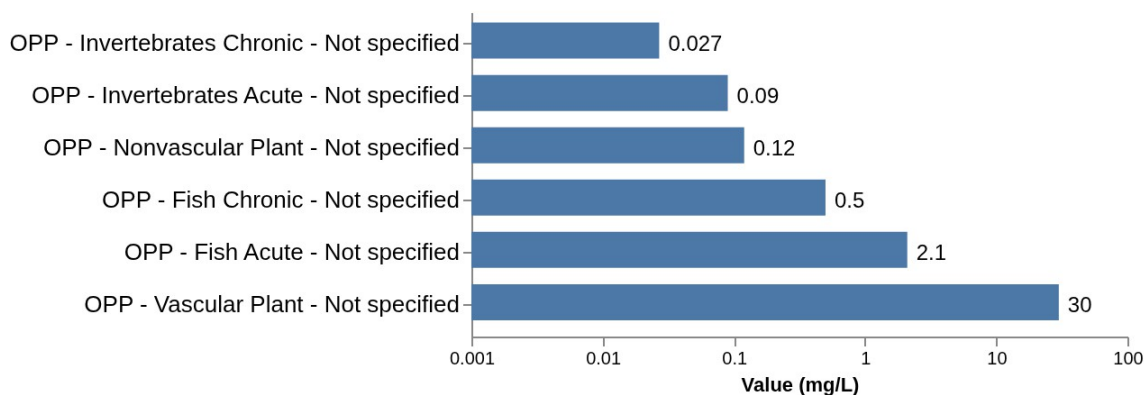


Table 738: Benchmark Values for Oxathiapiprolin degradate IN-P3X26 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-42-9	OPP	Freshwater Invertebrates Acute	Not specified	33.85	22
000000-42-9	OPP	Freshwater Fish Acute	Not specified	33.85	22
000000-42-9	OPP	Freshwater Nonvascular Plant	Not specified	66.40	22

Benchmark Values for Oxathiapiprolin degradate IN-P3X26 in Surface Water (Fresh Water)

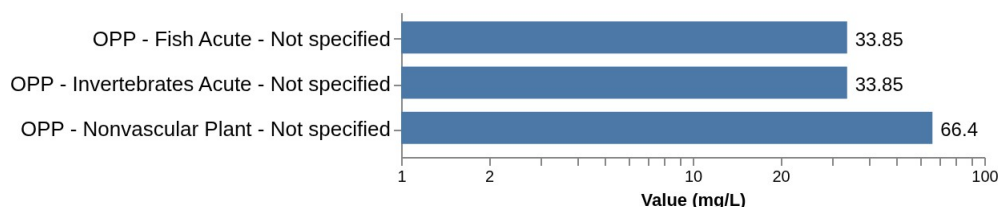


Table 739: Benchmark Values for Oxathiapiprolin degradate IN-RAB06 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-0	OPP	Freshwater Fish Acute	Not specified	24.85	22
000000-43-0	OPP	Freshwater Invertebrates Acute	Not specified	47.65	22
000000-43-0	OPP	Freshwater Nonvascular Plant	Not specified	96.90	22

Benchmark Values for Oxathiapiprolin degradate IN-RAB06 in Surface Water (Fresh Water)

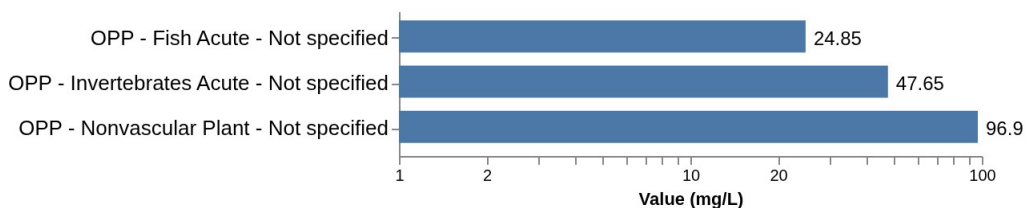


Table 740: Benchmark Values for Oxathiapiprolin degradate IN-RSE01 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-1	OPP	Freshwater Fish Acute	Not specified	4.92	22
000000-43-1	OPP	Freshwater Invertebrates Acute	Not specified	5.10	22
000000-43-1	OPP	Freshwater Nonvascular Plant	Not specified	10.10	22

Benchmark Values for Oxathiapiprolin degradate IN-RSE01 in Surface Water (Fresh Water)

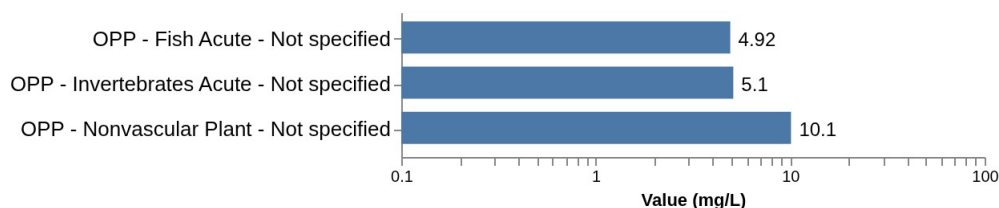
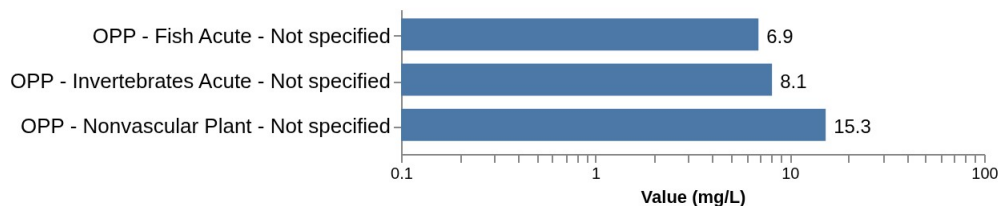


Table 741: Benchmark Values for Oxathiapiprolin degradate IN-RYJ52 in Surface Water (Fresh Water)

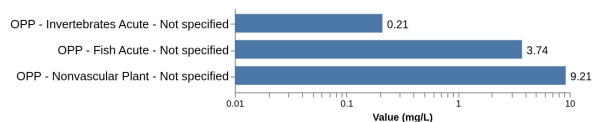
CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-2	OPP	Freshwater Fish Acute	Not specified	6.9	22
000000-43-2	OPP	Freshwater Invertebrates Acute	Not specified	8.1	22
000000-43-2	OPP	Freshwater Nonvascular Plant	Not specified	15.3	22

Benchmark Values for Oxathiapiprolin degradate IN-RYJ52 in Surface Water (Fresh Water)

**Table 742: Benchmark Values for Oxathiapiprolin degradate IN-S2K66 (1-[4-[4-[3-(2,6-Difluorophenyl)-1-hydroxypropyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3- in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-3	OPP	Freshwater Invertebrates Acute	Not specified	0.21	
000000-43-3	OPP	Freshwater Fish Acute	Not specified	3.74	22
000000-43-3	OPP	Freshwater Nonvascular Plant	Not specified	9.21	

Benchmark Values for Oxathiapiprolin degradate IN-S2K66 (1-[4-[4-[3-(2,6-Difluorophenyl)-1-hydroxypropyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3- in Surface Water (Fresh Water)

**Table 743: Benchmark Values for Oxathiapiprolin degradate IN-S2K67 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-4	OPP	Freshwater Invertebrates Acute	Not specified	29.60	
000000-43-4	OPP	Freshwater Fish Acute	Not specified	41.25	22
000000-43-4	OPP	Freshwater Nonvascular Plant	Not specified	83.50	22

Benchmark Values for Oxathiapiprolin degradate IN-S2K67 in Surface Water (Fresh Water)

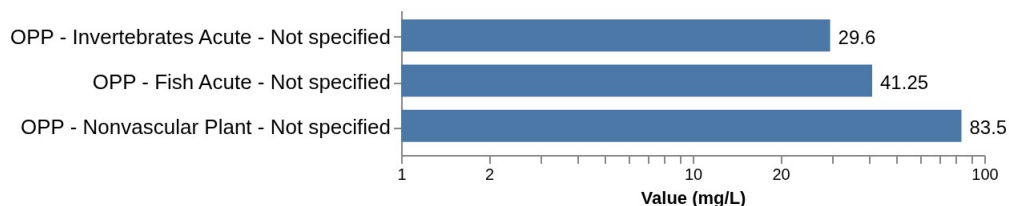


Table 744: Benchmark Values for Oxydemeton-Me in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
301-12-2	OPP	Freshwater Fish Chronic	Not specified	0.005	
301-12-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.046	
301-12-2	OPP	Freshwater Invertebrates Acute	Not specified	0.095	
301-12-2	OPP	Freshwater Fish Acute	Not specified	0.365	
301-12-2	OPP	Freshwater Nonvascular Plant	Not specified	100.000	22

Benchmark Values for Oxydemeton-Me in Surface Water (Fresh Water)

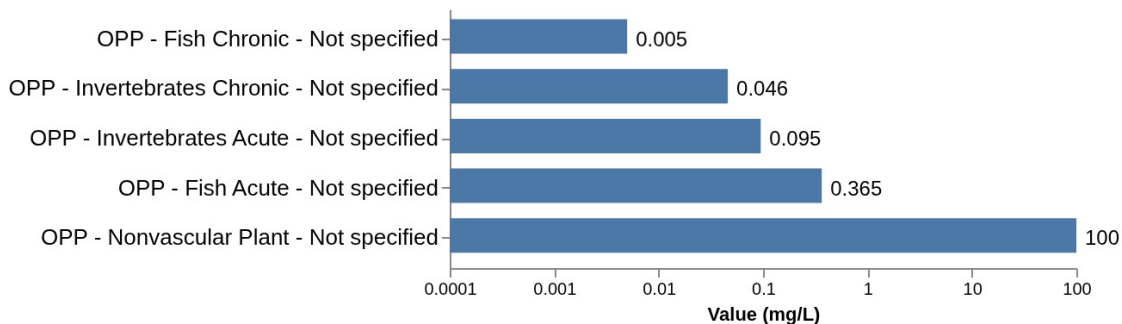


Table 745: Benchmark Values for Oxyfluorfen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
42874-03-3	OPP	Freshwater Nonvascular Plant	Not specified	0.00029
42874-03-3	OPP	Freshwater Vascular Plant	Not specified	0.00033
42874-03-3	OPP	Freshwater Fish Chronic	Not specified	0.00130
42874-03-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.01300
42874-03-3	OPP	Freshwater Fish Acute	Not specified	0.10000
42874-03-3	OPP	Freshwater Invertebrates Acute	Not specified	0.75000

Benchmark Values for Oxyfluorfen in Surface Water (Fresh Water)

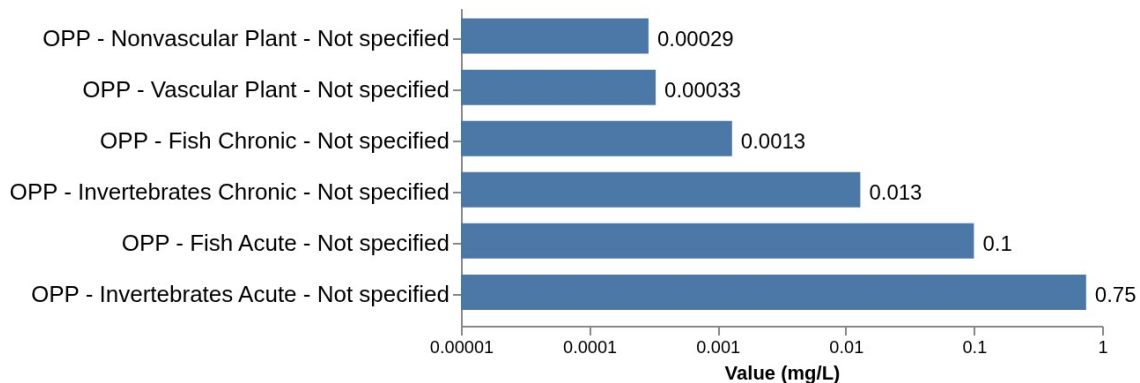


Table 746: Benchmark Values for Oxyprymidine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2814-20-2	OPP	Freshwater Fish Acute	Not specified	50.5	22
2814-20-2	OPP	Freshwater Invertebrates Acute	Not specified	51.0	22
2814-20-2	OPP	Freshwater Nonvascular Plant	Not specified	109.0	22

Benchmark Values for Oxyprymidine in Surface Water (Fresh Water)

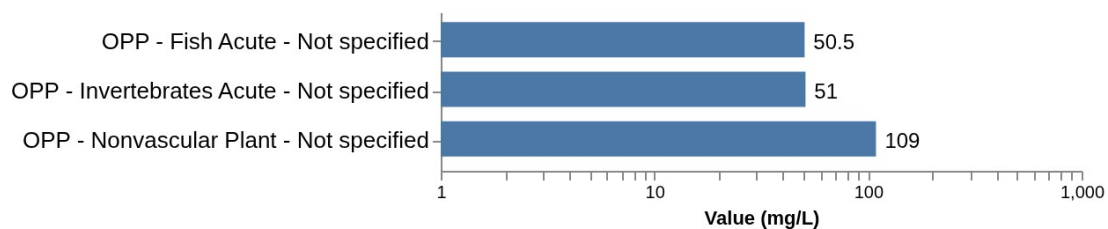


Table 747: Benchmark Values for Oxytetracycline hydrochloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2058-46-0	OPP	Freshwater Fish Acute	Not specified	47.45	22
2058-46-0	OPP	Freshwater Invertebrates Acute	Not specified	51.00	22

Benchmark Values for Oxytetracycline hydrochloride in Surface Water (Fresh Water)

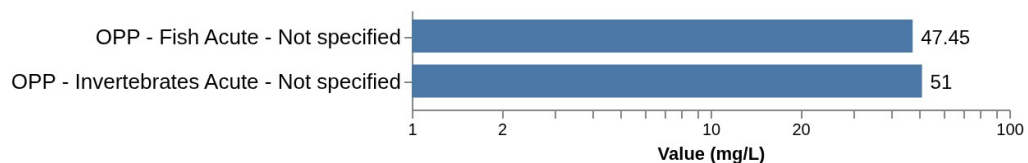
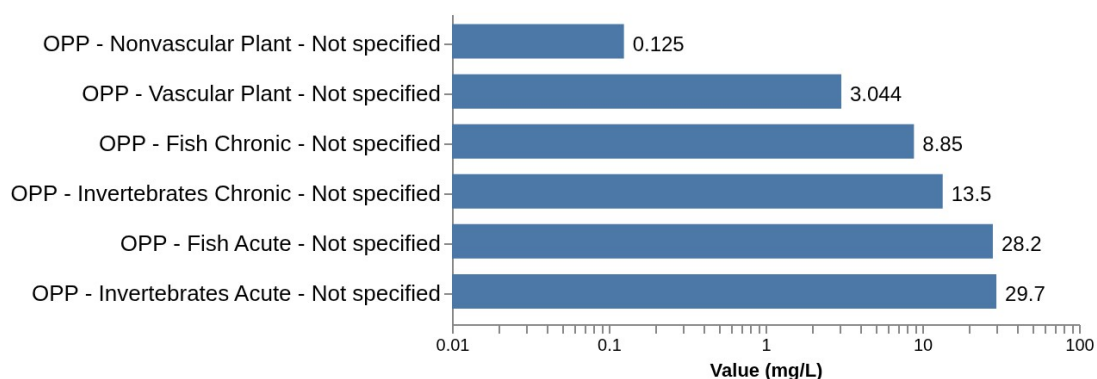


Table 748: Benchmark Values for Oxytetracycline in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-57-2	OPP	Freshwater Nonvascular Plant	Not specified	0.125	
79-57-2	OPP	Freshwater Vascular Plant	Not specified	3.044	
79-57-2	OPP	Freshwater Fish Chronic	Not specified	8.850	
79-57-2	OPP	Freshwater Invertebrates Chronic	Not specified	13.500	
79-57-2	OPP	Freshwater Fish Acute	Not specified	28.200	22
79-57-2	OPP	Freshwater Invertebrates Acute	Not specified	29.700	22

Benchmark Values for Oxytetracycline in Surface Water (Fresh Water)**Table 749: Benchmark Values for Paclobutrazol in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
76738-62-0	OPP	Freshwater Vascular Plant	Not specified	0.008
76738-62-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.009
76738-62-0	OPP	Freshwater Fish Chronic	Not specified	0.049
76738-62-0	OPP	Freshwater Invertebrates Acute	Not specified	0.120
76738-62-0	OPP	Freshwater Fish Acute	Not specified	7.950
76738-62-0	OPP	Freshwater Nonvascular Plant	Not specified	40.800

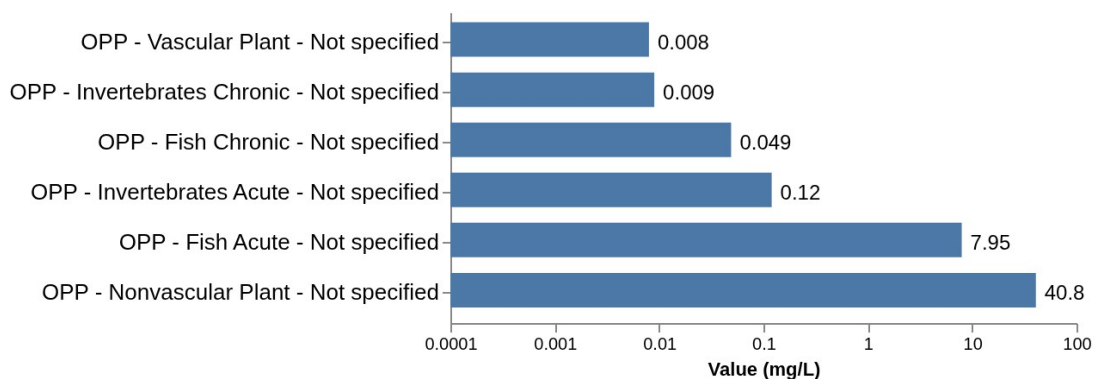
Benchmark Values for Paclobutrazol in Surface Water (Fresh Water)

Table 750: Benchmark Values for Paraoxon, methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
950-35-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00100
950-35-6	OPP	Freshwater Invertebrates Acute	Not specified	0.00115

Benchmark Values for Paraoxon, methyl in Surface Water (Fresh Water)

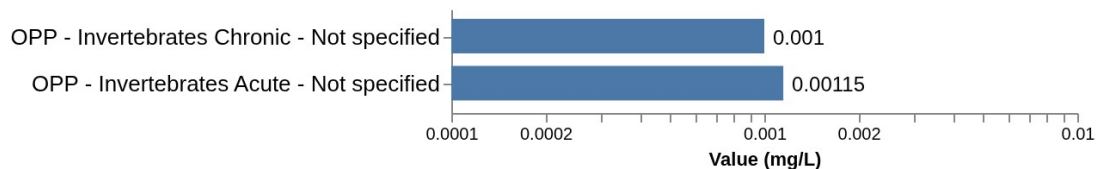


Table 751: Benchmark Values for Paraquat Dichloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1910-42-5	OPP	Freshwater Nonvascular Plant	Not specified	0.000396	
1910-42-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.036900	23
1910-42-5	OPP	Freshwater Vascular Plant	Not specified	0.071000	
1910-42-5	OPP	Freshwater Fish Chronic	Not specified	0.369000	23
1910-42-5	OPP	Freshwater Invertebrates Acute	Not specified	0.600000	
1910-42-5	OPP	Freshwater Fish Acute	Not specified	6.000000	

Benchmark Values for Paraquat Dichloride in Surface Water (Fresh Water)

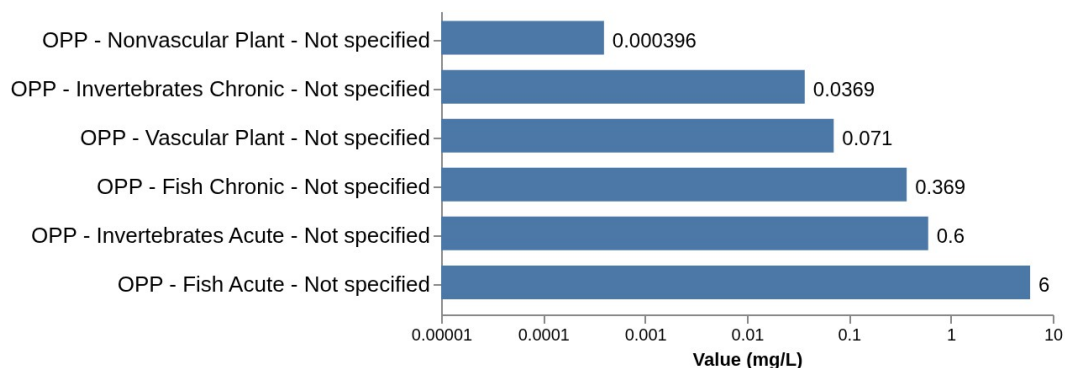
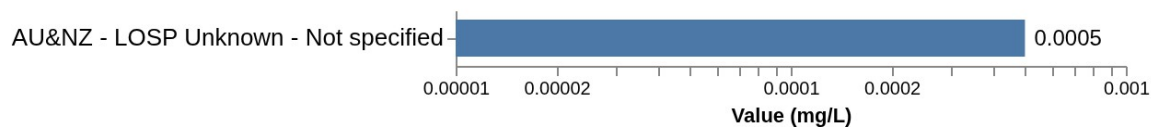


Table 752: Benchmark Values for Paraquat in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
4685-14-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0005	83

Benchmark Values for Paraquat in Surface Water (Fresh Water)**Table 753: Benchmark Values for Parathion and Methyl parathion in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-08-4	EPA Region 3	BTAG – Freshwater	Not specified	0.000008

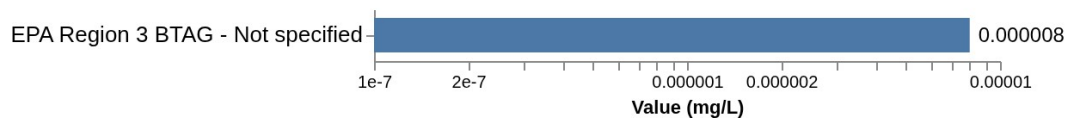
Benchmark Values for Parathion and Methyl parathion in Surface Water (Fresh Water)

Table 754: Benchmark Values for Parathion in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-38-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	7.000000e-07	88
56-38-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	4.000000e-06	88, 90
56-38-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	1.000000e-05	88, 94
56-38-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	4.000000e-05	88, 92
56-38-2	California	Freshwater CCC, 4-day average	Not specified	1.300000e-05	
56-38-2	California	Freshwater CMC, 1-hour average	Not specified	6.500000e-05	
56-38-2	Delaware	Freshwater Chronic Criterion	Not specified	1.300000e-05	
56-38-2	Delaware	Freshwater Acute Criterion	Not specified	6.500000e-05	
56-38-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.300000e-05	
56-38-2	EPA NRWQC	Freshwater CMC Acute	Not specified	6.500000e-05	
56-38-2	EPA Region 3	BTAG – Freshwater	Not specified	1.300000e-05	
56-38-2	EPA Region 4	Chronic Freshwater	Not specified	1.000000e-05	
56-38-2	EPA Region 4	Acute Freshwater	Not specified	6.500000e-05	
56-38-2	EPA Region 6	Freshwater Chronic	Not specified	1.300000e-05	
56-38-2	EPA Region 6	Freshwater Acute	Not specified	6.500000e-05	
56-38-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	4.000000e-05	
56-38-2	New Jersey	Freshwater Chronic	Not specified	1.300000e-05	
56-38-2	New Jersey	Freshwater Acute	Not specified	6.500000e-05	

Benchmark Values for Parathion in Surface Water (Fresh Water)

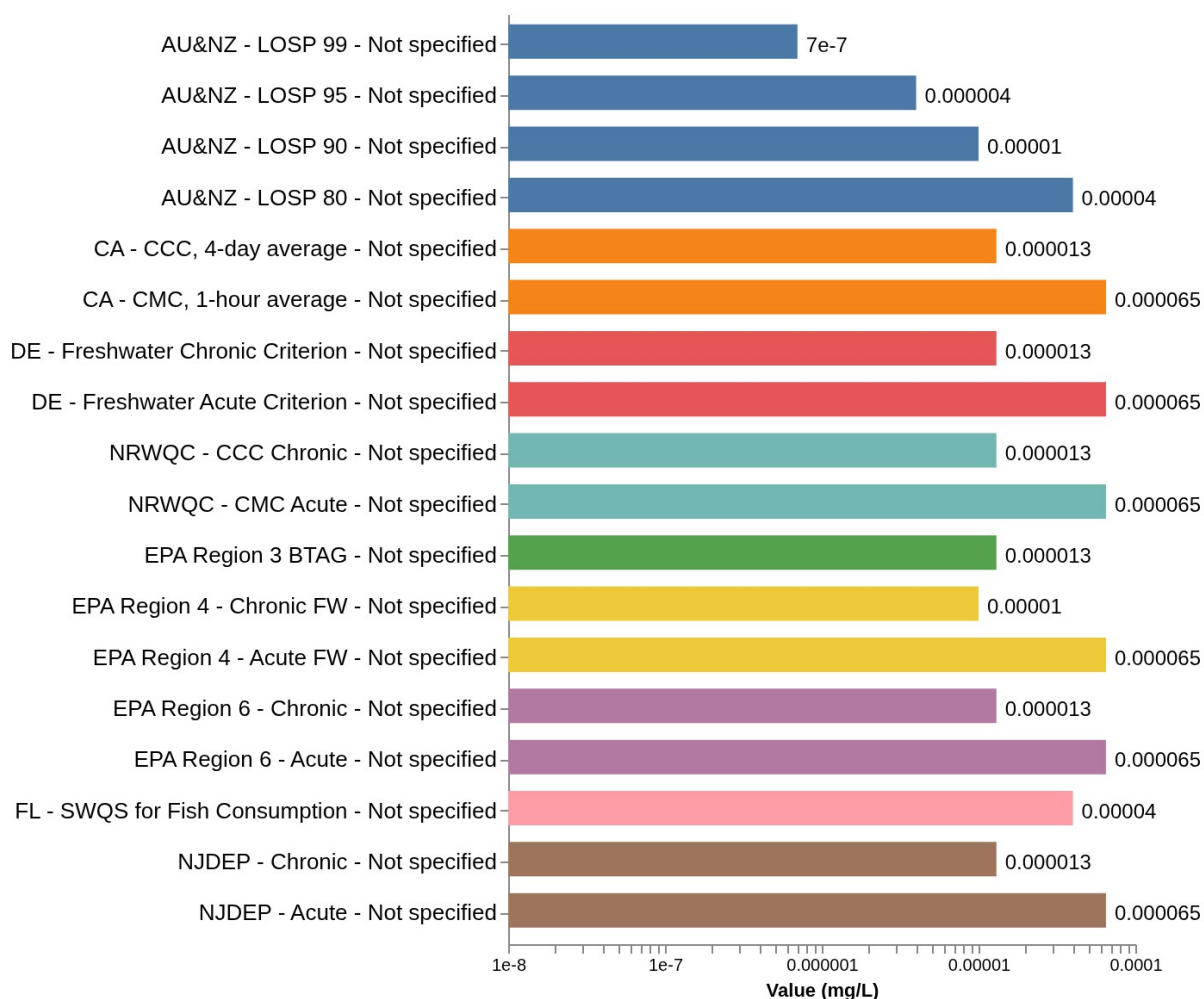


Table 755: Benchmark Values for Pebulate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1114-71-2	OPP	Freshwater Nonvascular Plant	Not specified	0.230
1114-71-2	OPP	Freshwater Vascular Plant	Not specified	1.800
1114-71-2	OPP	Freshwater Fish Acute	Not specified	3.150
1114-71-2	OPP	Freshwater Invertebrates Acute	Not specified	3.315

Benchmark Values for Pebulate in Surface Water (Fresh Water)

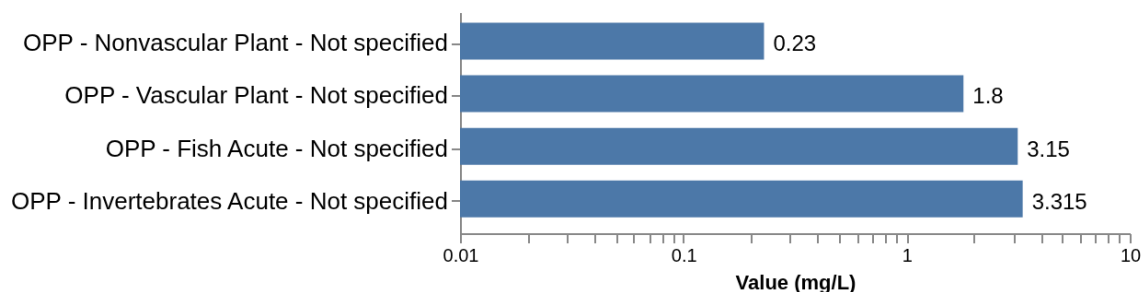


Table 756: Benchmark Values for Pendimethalin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
40487-42-1	OPP	Freshwater Nonvascular Plant	Not specified	0.0052
40487-42-1	OPP	Freshwater Fish Chronic	Not specified	0.0063
40487-42-1	OPP	Freshwater Vascular Plant	Not specified	0.0125
40487-42-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.0145
40487-42-1	OPP	Freshwater Fish Acute	Not specified	0.0690
40487-42-1	OPP	Freshwater Invertebrates Acute	Not specified	0.1400

Benchmark Values for Pendimethalin in Surface Water (Fresh Water)

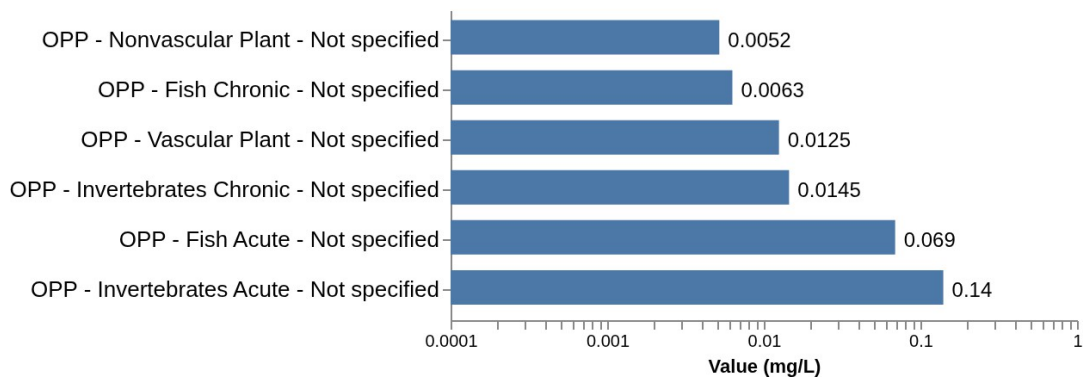


Table 757: Benchmark Values for Penoxsulam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
219714-96-2	OPP	Freshwater Vascular Plant	Not specified	0.003	
219714-96-2	OPP	Freshwater Nonvascular Plant	Not specified	0.092	
219714-96-2	OPP	Freshwater Invertebrates Chronic	Not specified	2.950	
219714-96-2	OPP	Freshwater Fish Chronic	Not specified	10.200	
219714-96-2	OPP	Freshwater Invertebrates Acute	Not specified	49.150	22
219714-96-2	OPP	Freshwater Fish Acute	Not specified	51.000	22

Benchmark Values for Penoxsulam in Surface Water (Fresh Water)

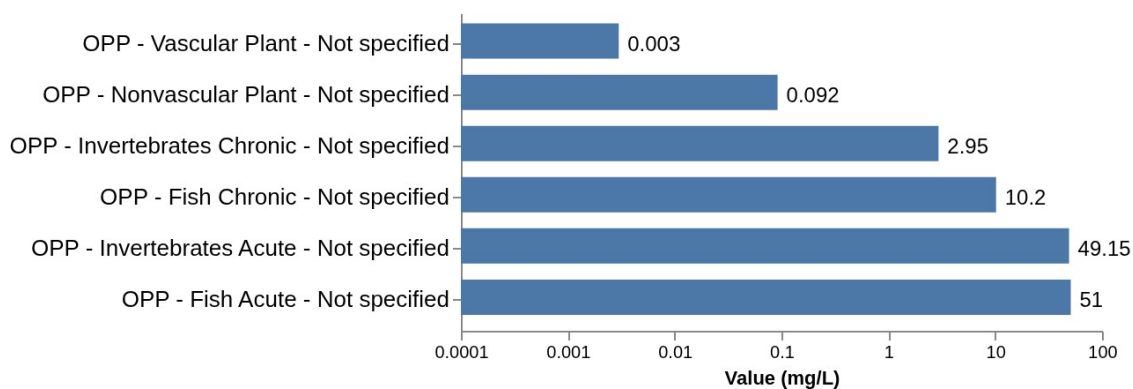


Table 758: Benchmark Values for Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
60348-60-9	California	Freshwater chronic toxicity	Not specified	0.122
60348-60-9	California	Freshwater acute toxicity	Not specified	0.360

Benchmark Values for Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99) in Surface Water (Fresh Water)

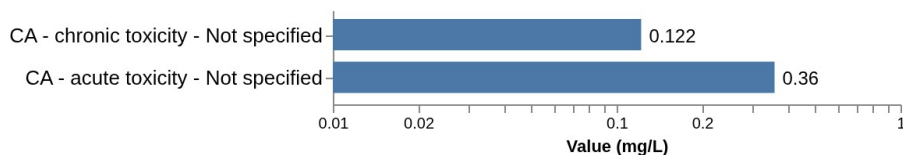


Table 759: Benchmark Values for Pentabromodiphenyl Ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
32534-81-9	California	Freshwater chronic toxicity	Not specified	1.220000e-01
32534-81-9	California	Freshwater acute toxicity	Not specified	3.600000e-01
32534-81-9	ECC Canada	Freshwater LTC	Not specified	2.000000e-07

Benchmark Values for Pentabromodiphenyl Ether in Surface Water (Fresh Water)

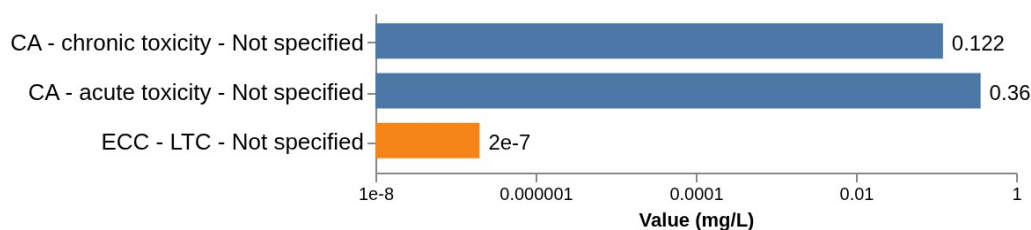


Table 760: Benchmark Values for Pentachloroaniline in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
527-20-8	EPA Region 4	Chronic Freshwater	Not specified	0.005
527-20-8	EPA Region 4	Acute Freshwater	Not specified	0.088
527-20-8	OPP	Freshwater Fish Acute	Not specified	0.028
527-20-8	OPP	Freshwater Invertebrates Acute	Not specified	0.150

Benchmark Values for Pentachloroaniline in Surface Water (Fresh Water)

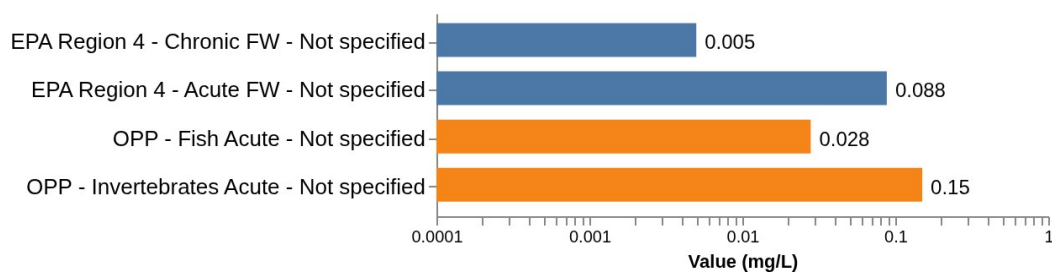


Table 761: Benchmark Values for Pentachlorobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
608-93-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00150	83, 89, 97
608-93-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00200	83, 97
608-93-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00250	83, 97
608-93-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00500	83, 97
608-93-5	California	Freshwater other toxicity	Not specified	0.05000	
608-93-5	California	Freshwater acute toxicity	Not specified	0.25000	
608-93-5	Canada	Freshwater Long Term	Not specified	0.00600	
608-93-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.00047	
608-93-5	EPA Region 3	BTAG – Freshwater	Not specified	0.00600	
608-93-5	EPA Region 4	Chronic Freshwater	Wildlife only	0.00002	7
608-93-5	EPA Region 4	Chronic Freshwater	Aquatic only	0.00310	7
608-93-5	EPA Region 4	Acute Freshwater	Aquatic only	0.01600	7
608-93-5	EPA Region 6	Freshwater Chronic	Not specified	0.00047	
608-93-5	EPA Region 6	Freshwater Acute	Not specified	0.00840	
608-93-5	OPP	Freshwater Fish Acute	Not specified	0.07000	
608-93-5	OPP	Freshwater Invertebrates Acute	Not specified	0.08000	

Benchmark Values for Pentachlorobenzene in Surface Water (Fresh Water)

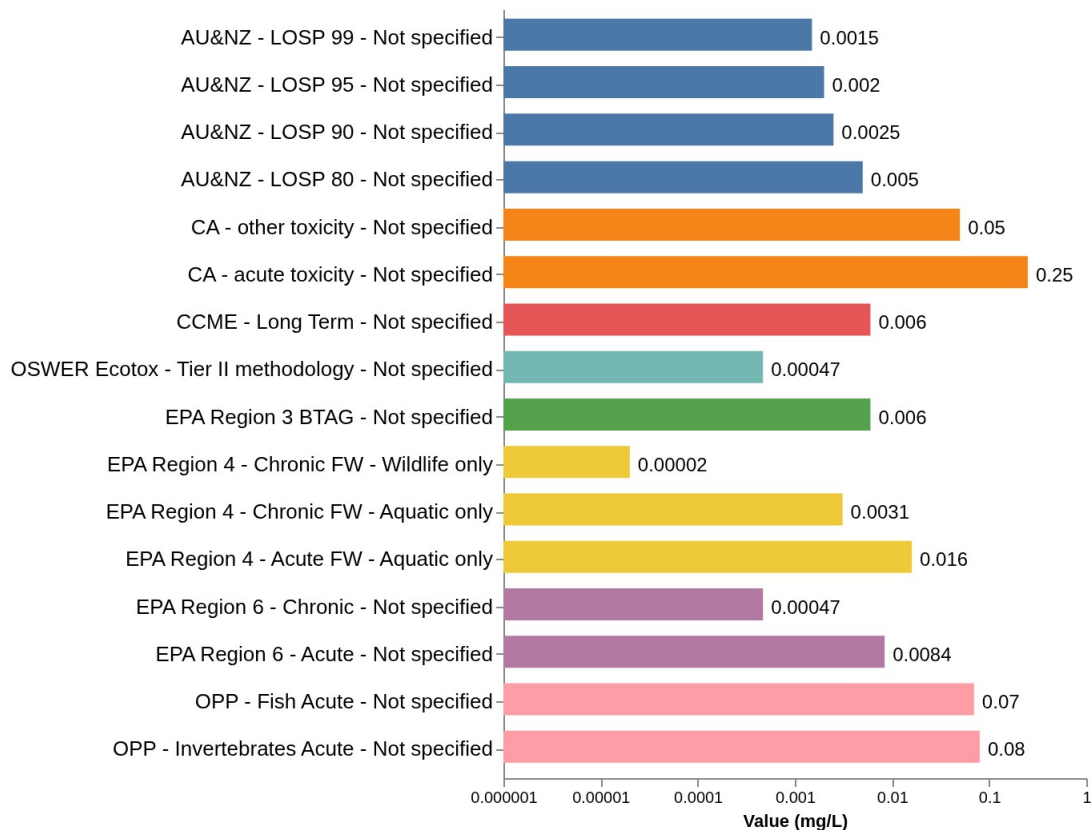
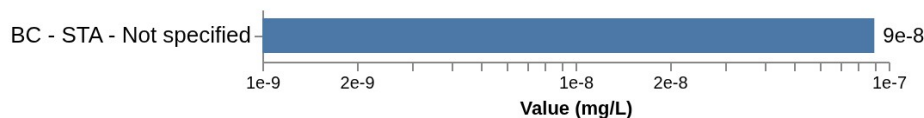


Table 762: Benchmark Values for Pentachlorobiphenyl, 2,3,3',4,4'– (PCB 105) in Surface Water (Fresh Water)

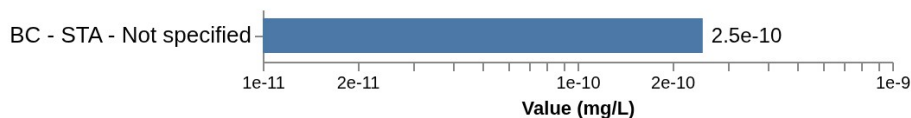
CAS	Source	Benchmark	Organism	Value (mg/L)
32598–14–4	British Columbia	Freshwater STA	Not specified	9.000000e-08

Benchmark Values for Pentachlorobiphenyl, 2,3,3',4,4'– (PCB 105) in Surface Water (Fresh Water)

**Table 763: Benchmark Values for Pentachlorobiphenyl, 3,3',4,4',5– (PCB 126) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
57465–28–8	British Columbia	Freshwater STA	Not specified	2.500000e-10

Benchmark Values for Pentachlorobiphenyl, 3,3',4,4',5– (PCB 126) in Surface Water (Fresh Water)

**Table 764: Benchmark Values for Pentachloroethane in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76–01–7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0300	83
76–01–7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0800	83, 89
76–01–7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.1200	83
76–01–7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.2000	83
76–01–7	California	Freshwater chronic toxicity	Not specified	1.1000	
76–01–7	California	Freshwater acute toxicity	Not specified	7.2400	
76–01–7	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.1000	
76–01–7	EPA Region 3	BTAG – Freshwater	Not specified	0.0564	

Benchmark Values for Pentachloroethane in Surface Water (Fresh Water)

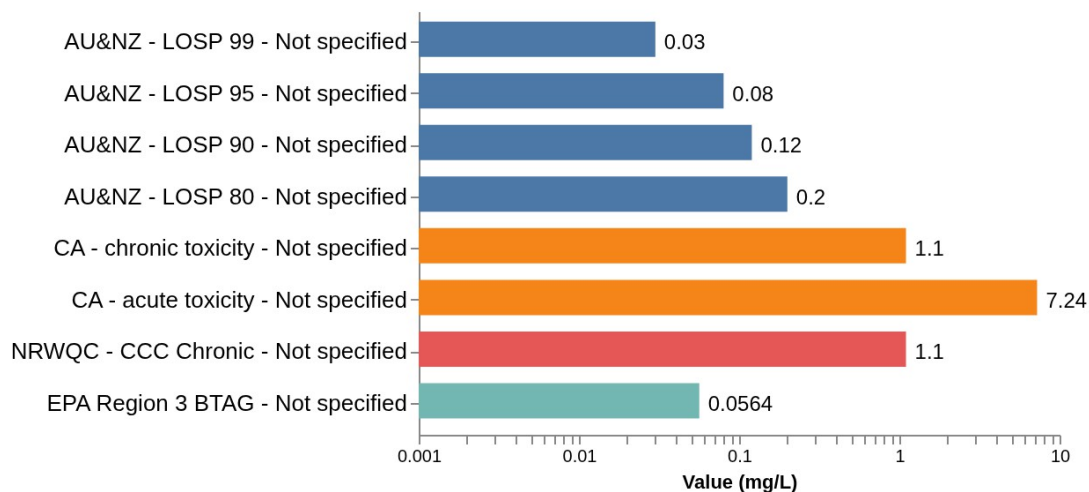


Table 765: Benchmark Values for Pentachloronitrobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
82-68-8	OPP	Freshwater Fish Chronic	Not specified	0.013
82-68-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.018
82-68-8	OPP	Freshwater Fish Acute	Not specified	0.050
82-68-8	OPP	Freshwater Invertebrates Acute	Not specified	0.385

Benchmark Values for Pentachloronitrobenzene in Surface Water (Fresh Water)

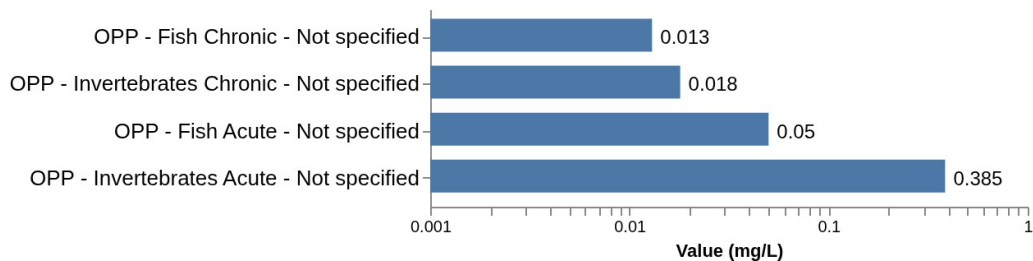


Table 766: Benchmark Values for Pentachlorophenol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-86-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0036	88, 89, 97
87-86-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.01	88, 97
87-86-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.017	88, 97
87-86-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.027	88, 92, 97
87-86-5	British Columbia	Freshwater STA	Not specified	0.0005	115
87-86-5	Canada	Freshwater Long Term	Not specified	0.0005	
87-86-5	Delaware	Freshwater Acute Criterion	Not specified		249
87-86-5	Delaware	Freshwater Chronic Criterion	Not specified		250
87-86-5	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.015	
87-86-5	EPA NRWQC	Freshwater CMC Acute	Not specified	0.019	
87-86-5	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.013	159
87-86-5	EPA Region 3	BTAG – Freshwater	Not specified	0.0005	
87-86-5	EPA Region 4	Chronic Freshwater	Aquatic only	0.015	3, 7
87-86-5	EPA Region 4	Acute Freshwater	Aquatic only	0.019	3, 7
87-86-5	EPA Region 6	Freshwater Chronic	Not specified	0.00245	
87-86-5	EPA Region 6	Freshwater Acute	Not specified	0.00319	
87-86-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.03	
87-86-5	New Jersey	Freshwater Chronic	Not specified	0.923765	202
87-86-5	New Jersey	Freshwater Acute	Not specified	0.92403	202
87-86-5	OPP	Freshwater Invertebrates Acute	Not specified	0.025	
87-86-5	OPP	Freshwater Fish Acute	Not specified	0.0475	

Benchmark Values for Pentachlorophenol in Surface Water (Fresh Water)

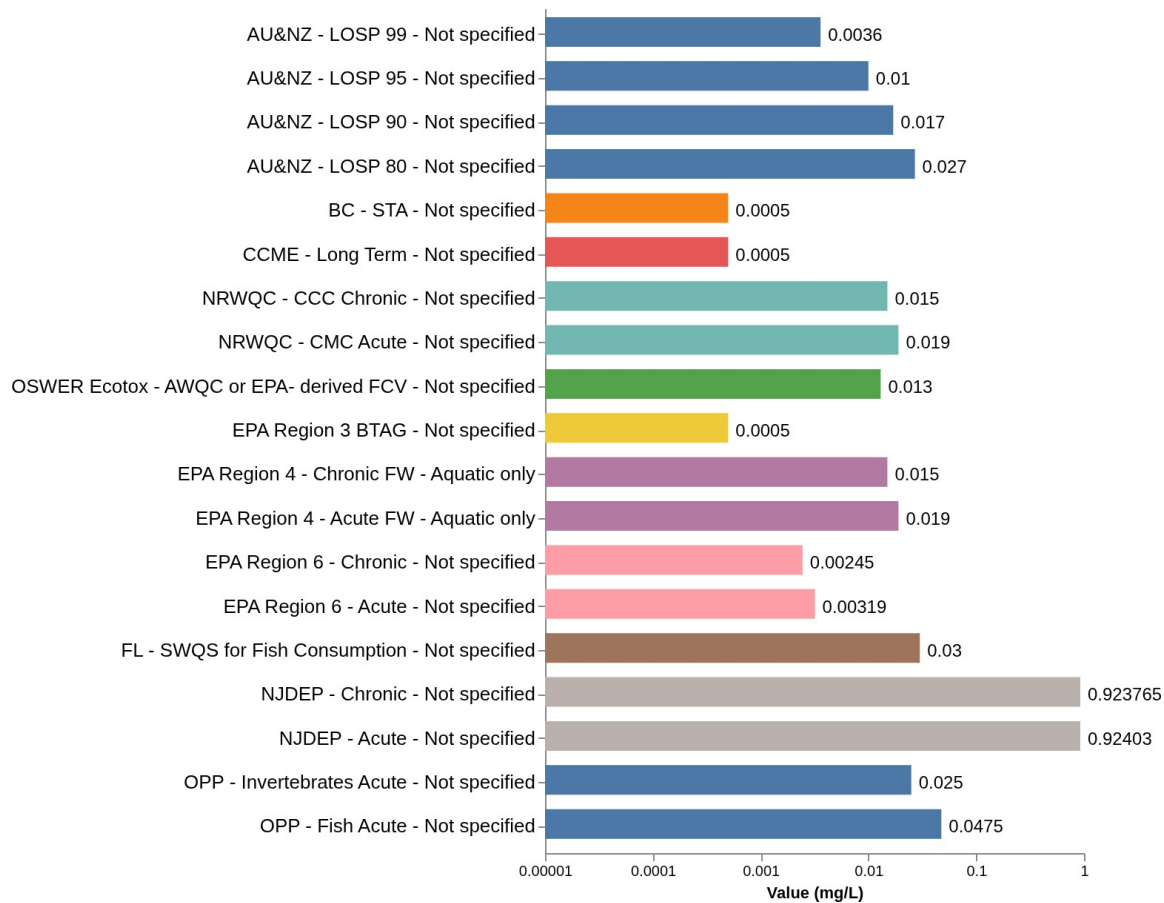
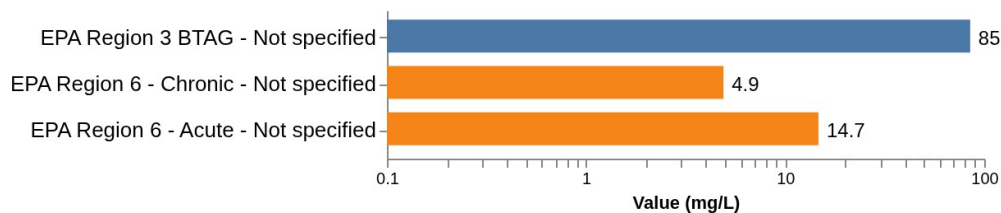


Table 767: Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-11-5	EPA Region 3	BTAG – Freshwater	Not specified	85.0
78-11-5	EPA Region 6	Freshwater Chronic	Not specified	4.9
78-11-5	EPA Region 6	Freshwater Acute	Not specified	14.7

Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water (Fresh Water)**Table 768: Benchmark Values for Penthiopyrad in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
183675-82-3	OPP	Freshwater Fish Chronic	Not specified	0.1000	
183675-82-3	OPP	Freshwater Fish Acute	Not specified	0.1450	
183675-82-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.4710	
183675-82-3	OPP	Freshwater Nonvascular Plant	Not specified	1.2000	
183675-82-3	OPP	Freshwater Vascular Plant	Not specified	1.2050	22
183675-82-3	OPP	Freshwater Invertebrates Acute	Not specified	1.2655	

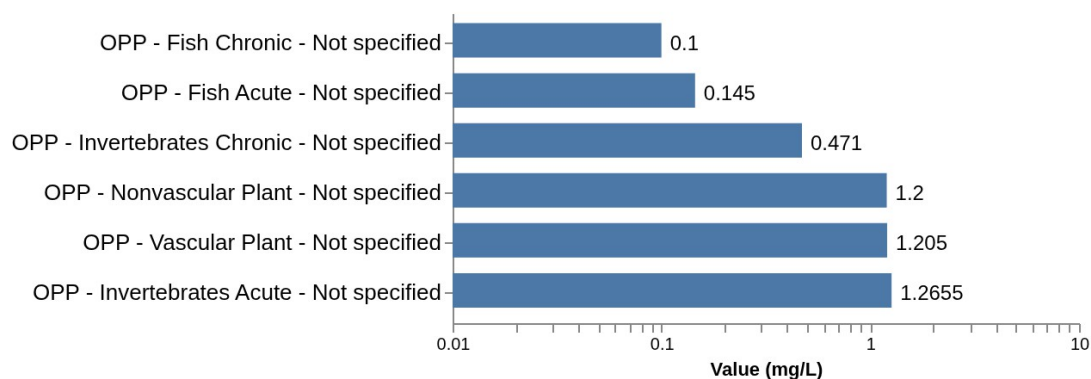
Benchmark Values for Penthiopyrad in Surface Water (Fresh Water)

Table 769: Benchmark Values for Pentyl Alcohol, N- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
71-41-0	EPA Region 3	BTAG – Freshwater	Not specified	0.11
71-41-0	EPA Region 4	Chronic Freshwater	Not specified	0.11
71-41-0	EPA Region 4	Acute Freshwater	Not specified	2.00
71-41-0	EPA Region 6	Freshwater Chronic	Not specified	0.11
71-41-0	EPA Region 6	Freshwater Acute	Not specified	2.00

Benchmark Values for Pentyl Alcohol, N- in Surface Water (Fresh Water)

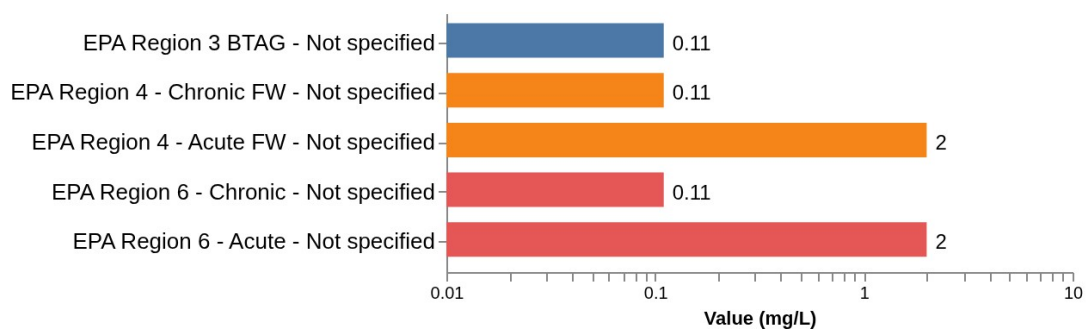


Table 770: Benchmark Values for Perfluorohexanesulfonic acid (PFHxS) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
355-46-4	EPA Region 6	Freshwater Chronic	Not specified	0.0005	253

Benchmark Values for Perfluorohexanesulfonic acid (PFHxS) in Surface Water (Fresh Water)

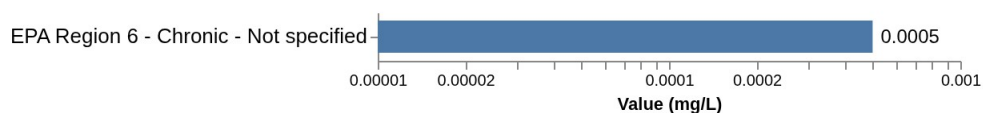


Table 771: Benchmark Values for Perfluorohexanoic acid (PFHxA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
307-24-4	EPA Region 6	Freshwater Chronic	Not specified	0.7972	252

Benchmark Values for Perfluorohexanoic acid (PFHxA) in Surface Water (Fresh Water)

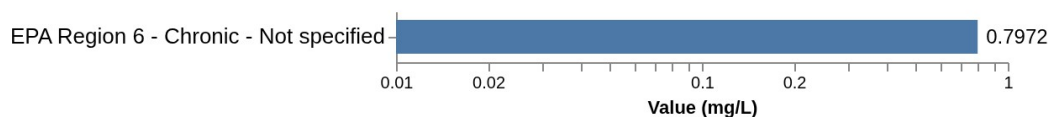


Table 772: Benchmark Values for Perfluorooctanesulfonate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
45298-90-6	ECC Canada	Freshwater LTC	Not specified	0.00340	
45298-90-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
45298-90-6	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	

Benchmark Values for Perfluorooctanesulfonate in Surface Water (Fresh Water)

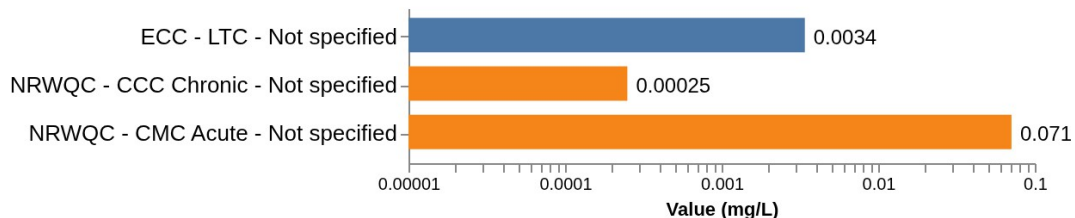


Table 773: Benchmark Values for Perfluorooctanesulfonic acid (PFOS) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1763-23-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
1763-23-1	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	
1763-23-1	EPA Region 6	Freshwater Chronic	Not specified	0.00510	
1763-23-1	EPA Region 6	Freshwater Acute	Not specified	0.02100	

Benchmark Values for Perfluorooctanesulfonic acid (PFOS) in Surface Water (Fresh Water)

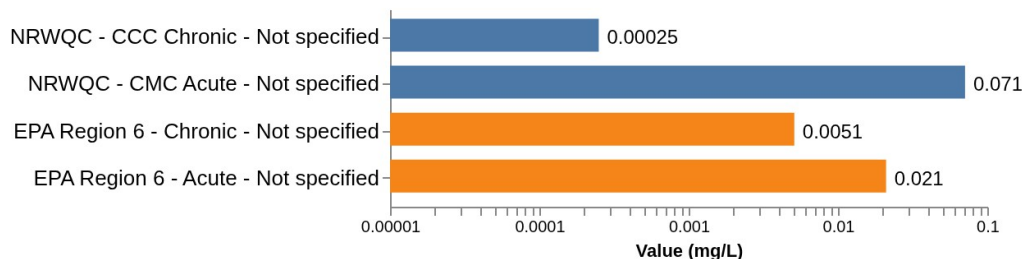


Table 774: Benchmark Values for Perfluorooctanoate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
45285-51-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.01	234
45285-51-6	EPA NRWQC	Freshwater CMC Acute	Not specified	3.10	

Benchmark Values for Perfluorooctanoate in Surface Water (Fresh Water)

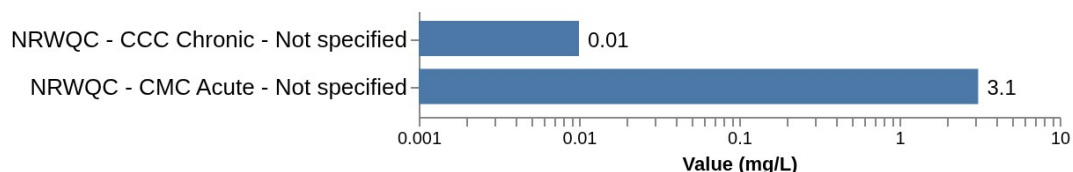


Table 775: Benchmark Values for Perfluorooctanoic acid (PFOA) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
335-67-1	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.10	234
335-67-1	EPA NRWQC	Freshwater CMC Acute	Not specified	3.10	
335-67-1	EPA Region 6	Freshwater Chronic	Not specified	2.77	
335-67-1	EPA Region 6	Freshwater Acute	Not specified	4.47	

Benchmark Values for Perfluorooctanoic acid (PFOA) in Surface Water (Fresh Water)

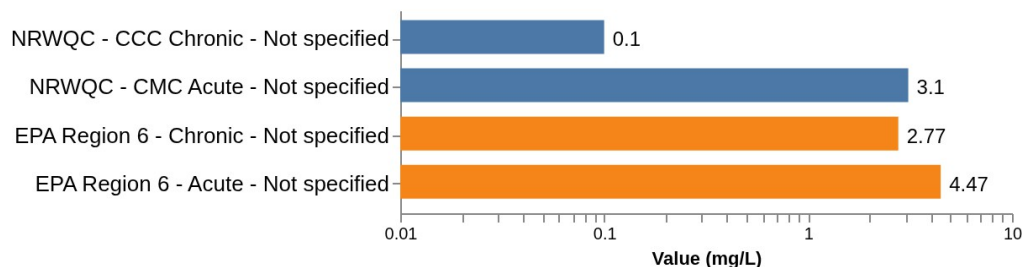


Table 776: Benchmark Values for Permethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52645-53-1	California	Freshwater CMC, 1-hour average	Not specified	0.000030	
52645-53-1	Canada	Freshwater Long Term	Not specified	0.000004	
52645-53-1	OPP	Freshwater Invertebrates Acute	Not specified	0.000003	
52645-53-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.000004	
52645-53-1	OPP	Freshwater Fish Chronic	Not specified	0.000052	
52645-53-1	OPP	Freshwater Fish Acute	Not specified	0.000395	
52645-53-1	OPP	Freshwater Vascular Plant	Not specified	0.003200	22
52645-53-1	OPP	Freshwater Nonvascular Plant	Not specified	0.004400	22

Benchmark Values for Permethrin in Surface Water (Fresh Water)

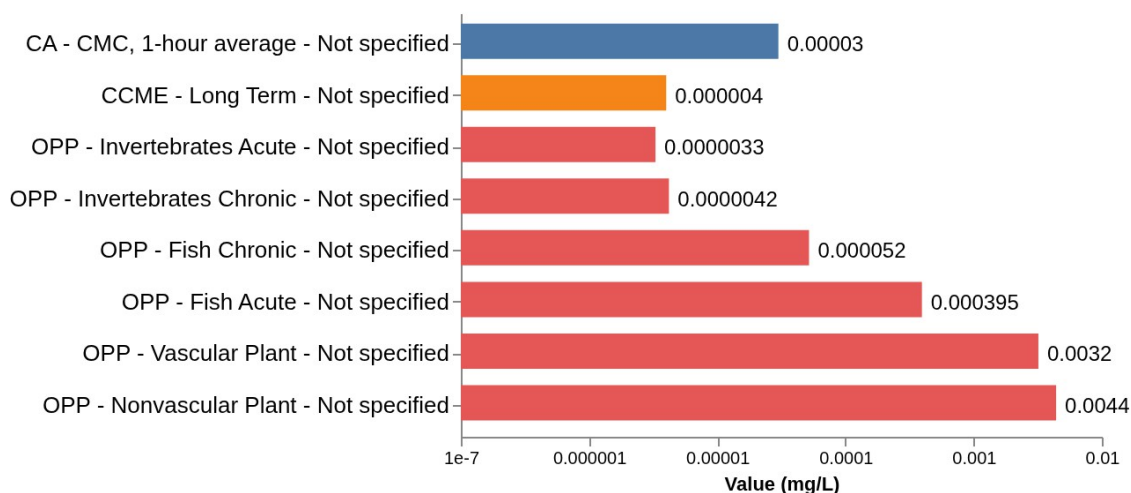


Table 777: Benchmark Values for Pethoxamid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
106700-29-2	OPP	Freshwater Nonvascular Plant	Not specified	0.00170
106700-29-2	OPP	Freshwater Vascular Plant	Not specified	0.00346
106700-29-2	OPP	Freshwater Fish Chronic	Not specified	0.72200
106700-29-2	OPP	Freshwater Fish Acute	Not specified	1.20000
106700-29-2	OPP	Freshwater Invertebrates Chronic	Not specified	2.80000
106700-29-2	OPP	Freshwater Invertebrates Acute	Not specified	10.55000

Benchmark Values for Pethoxamid in Surface Water (Fresh Water)

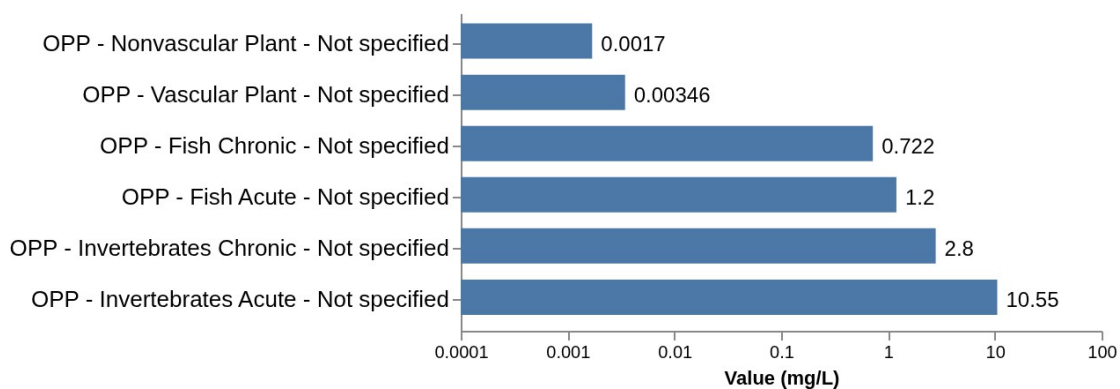


Table 778: Benchmark Values for Phenanthrene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
85-01-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0006	83, 89, 97
85-01-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0020	83, 97
85-01-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0040	83, 97
85-01-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0080	83, 97
85-01-8	British Columbia	Freshwater LTC	Not specified	0.0003	
85-01-8	Canada	Freshwater Long Term	Not specified	0.0004	
85-01-8	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.0063	
85-01-8	EPA Region 3	BTAG – Freshwater	Not specified	0.0004	
85-01-8	EPA Region 4	Chronic Freshwater	Not specified	0.0023	7
85-01-8	EPA Region 4	Acute Freshwater	Not specified	0.0310	7
85-01-8	EPA Region 6	Freshwater Acute	Not specified	0.0300	
85-01-8	EPA Region 6	Freshwater Chronic	Not specified	0.0300	

Benchmark Values for Phenanthrene in Surface Water (Fresh Water)

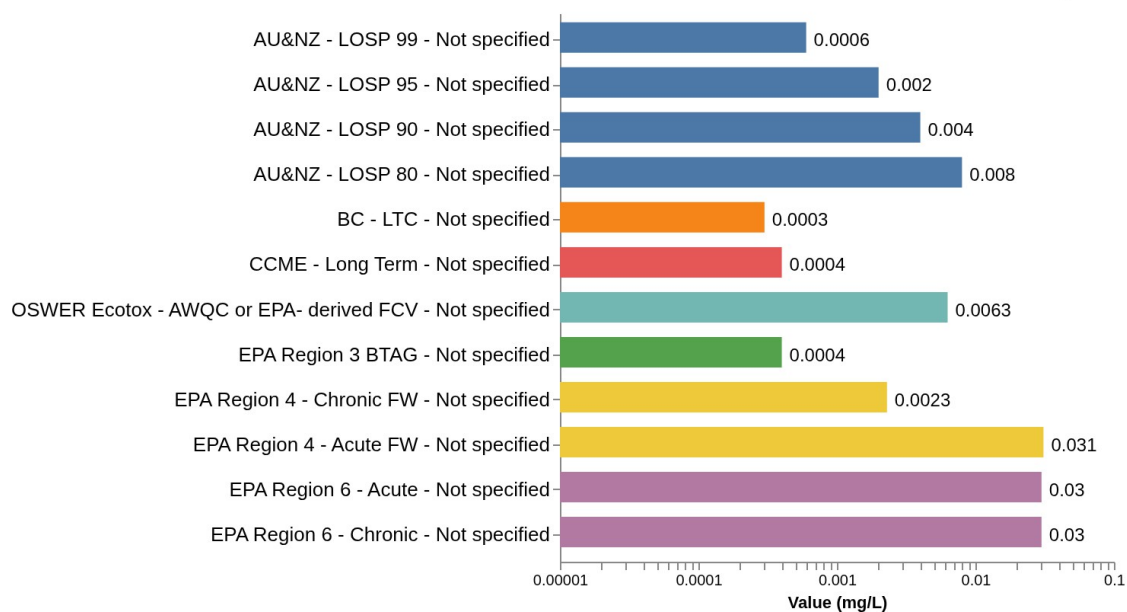


Table 779: Benchmark Values for Phenmedipham in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
13684-63-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.00506
13684-63-4	OPP	Freshwater Fish Chronic	Not specified	0.09300
13684-63-4	OPP	Freshwater Nonvascular Plant	Not specified	0.14900
13684-63-4	OPP	Freshwater Vascular Plant	Not specified	0.16000
13684-63-4	OPP	Freshwater Fish Acute	Not specified	0.85000
13684-63-4	OPP	Freshwater Invertebrates Acute	Not specified	0.94000

Benchmark Values for Phenmedipham in Surface Water (Fresh Water)

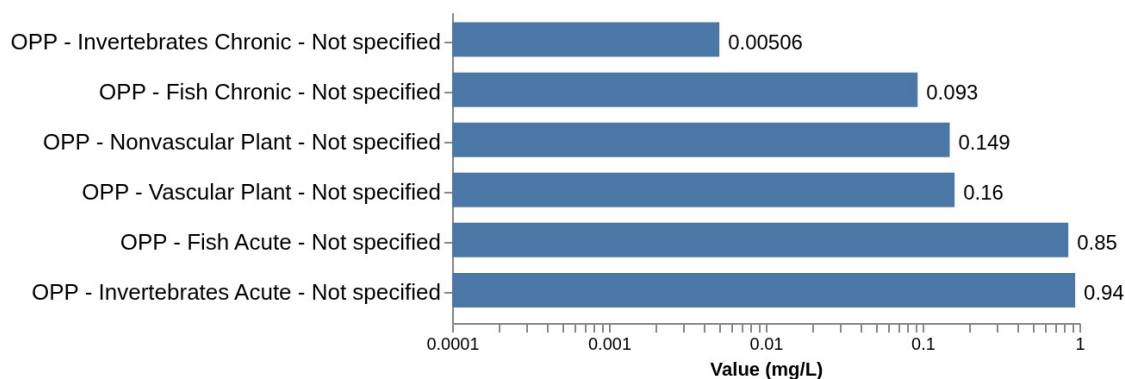


Table 780: Benchmark Values for Phenol, 2-(1-methylethoxy)-, methylcarbamate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
114-26-1	OPP	Freshwater Invertebrates Acute	Not specified	0.0055
114-26-1	OPP	Freshwater Fish Acute	Not specified	1.8500

Benchmark Values for Phenol, 2-(1-methylethoxy)-, methylcarbamate in Surface Water (Fresh Water)

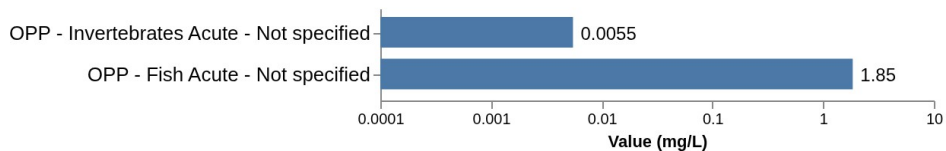


Table 781: Benchmark Values for Phenol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-95-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.085	88
108-95-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.320	88, 89
108-95-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.600	88
108-95-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.200	88, 94
108-95-2	California	Freshwater chronic toxicity	Not specified	2.560	
108-95-2	California	Freshwater acute toxicity	Not specified	10.200	
108-95-2	Canada	Freshwater Long Term	Not specified	0.004	
108-95-2	EPA Region 3	BTAG – Freshwater	Not specified	0.004	
108-95-2	EPA Region 4	Chronic Freshwater	Not specified	0.160	
108-95-2	EPA Region 4	Acute Freshwater	Not specified	4.700	
108-95-2	EPA Region 6	Freshwater Chronic	Not specified	0.110	
108-95-2	EPA Region 6	Freshwater Acute	Not specified	3.600	
108-95-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.300	

Benchmark Values for Phenol in Surface Water (Fresh Water)

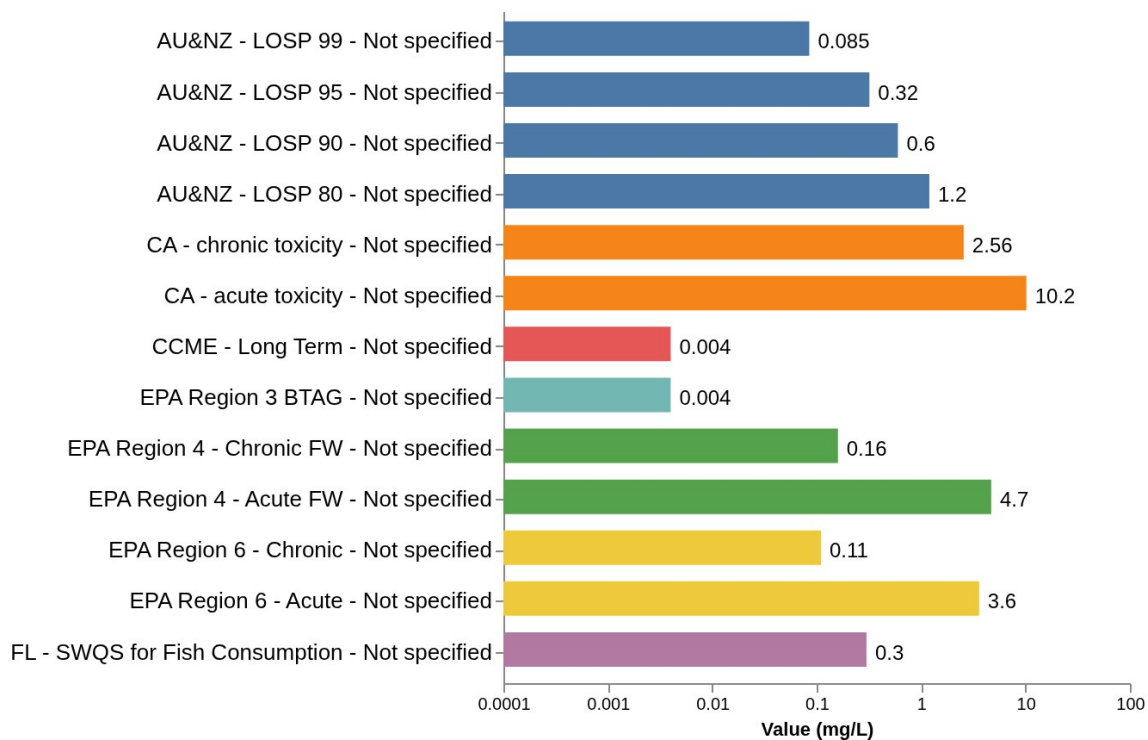


Table 782: Benchmark Values for Phenols (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-17-5	British Columbia	Freshwater STA	Not specified	0.05

Benchmark Values for Phenols (total) in Surface Water (Fresh Water)

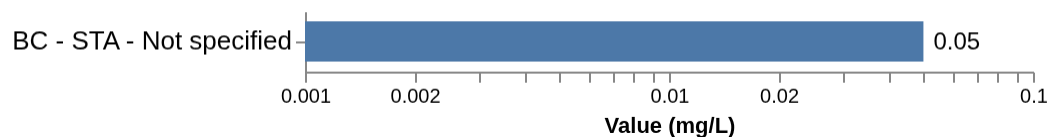


Table 783: Benchmark Values for Phenothrin, d- (Sumithrin) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
26002-80-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.00047
26002-80-2	OPP	Freshwater Fish Chronic	Not specified	0.00110
26002-80-2	OPP	Freshwater Invertebrates Acute	Not specified	0.00220
26002-80-2	OPP	Freshwater Fish Acute	Not specified	0.00790

Benchmark Values for Phenothrin, d- (Sumithrin) in Surface Water (Fresh Water)

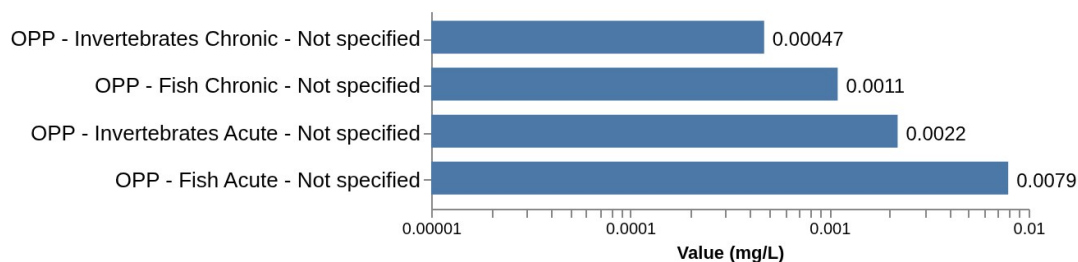


Table 784: Benchmark Values for Phenoxy herbicides in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-16-8	Canada	Freshwater Long Term	Not specified	0.004

Benchmark Values for Phenoxy herbicides in Surface Water (Fresh Water)

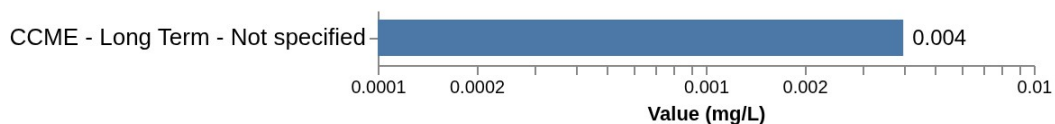


Table 785: Benchmark Values for Phorate Degradate Phorate Sulfone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-31-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0002

Benchmark Values for Phorate Degradate Phorate Sulfone in Surface Water (Fresh Water)

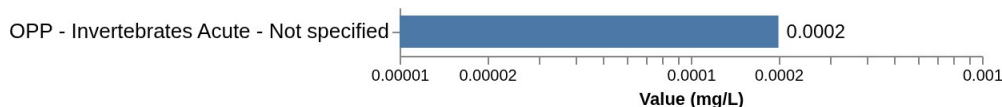


Table 786: Benchmark Values for Phorate Degradate Phorate Sulfoxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-31-7	OPP	Freshwater Invertebrates Acute	Not specified	0.002
000000-31-7	OPP	Freshwater Fish Acute	Not specified	0.011

Benchmark Values for Phorate Degradate Phorate Sulfoxide in Surface Water (Fresh Water)

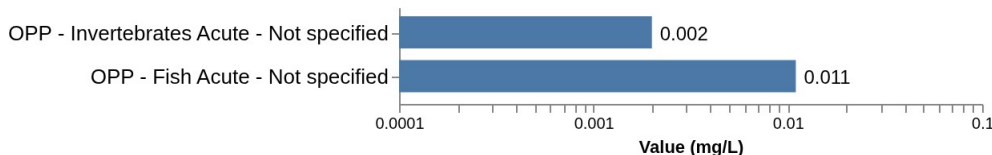


Table 787: Benchmark Values for Phorate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
298-02-2	EPA Region 3	BTAG – Freshwater	Not specified	0.00362
298-02-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.00021
298-02-2	OPP	Freshwater Invertebrates Acute	Not specified	0.00030
298-02-2	OPP	Freshwater Fish Chronic	Not specified	0.00034
298-02-2	OPP	Freshwater Fish Acute	Not specified	0.00117
298-02-2	OPP	Freshwater Nonvascular Plant	Not specified	1.30000
298-02-2	OPP	Freshwater Vascular Plant	Not specified	9.00000

Benchmark Values for Phorate in Surface Water (Fresh Water)

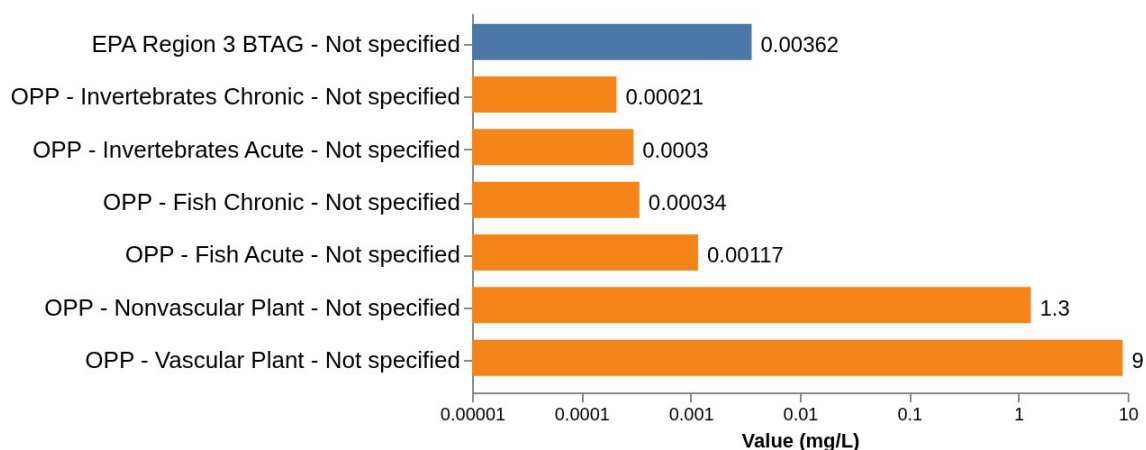


Table 788: Benchmark Values for Phosmet degradate phosmet oxon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-31-8	OPP	Freshwater Invertebrates Acute	Not specified	0.000585

Benchmark Values for Phosmet degradate phosmet oxon in Surface Water (Fresh Water)

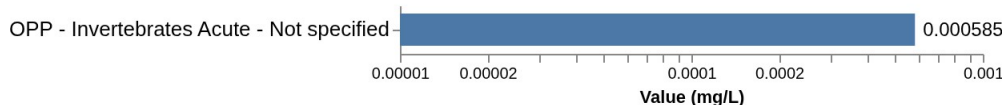


Table 789: Benchmark Values for Phosmet in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
732-11-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00075	
732-11-6	OPP	Freshwater Fish Chronic	Not specified	0.00100	
732-11-6	OPP	Freshwater Invertebrates Acute	Not specified	0.00432	
732-11-6	OPP	Freshwater Fish Acute	Not specified	0.03500	
732-11-6	OPP	Freshwater Nonvascular Plant	Not specified	0.14000	
732-11-6	OPP	Freshwater Vascular Plant	Not specified	1.80000	22

Benchmark Values for Phosmet in Surface Water (Fresh Water)

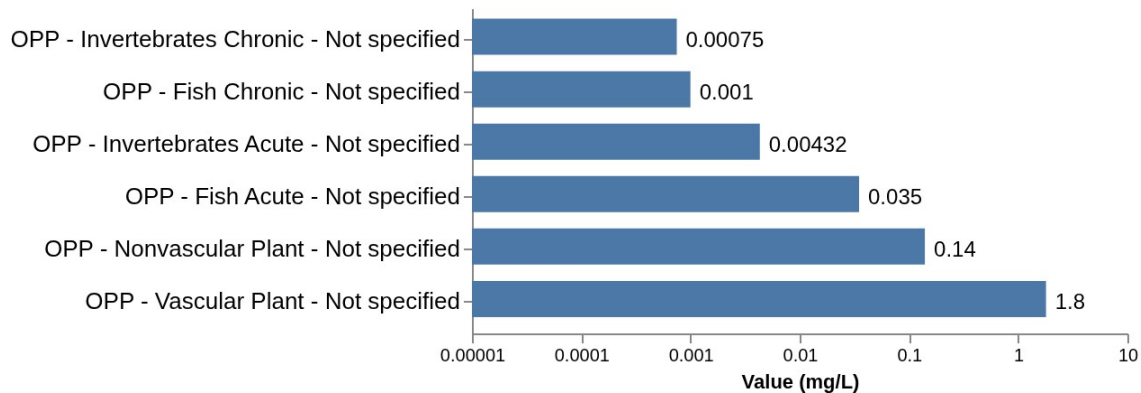


Table 790: Benchmark Values for Phosphorus (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-06-3	British Columbia	Freshwater LTC	Not specified	15	129

Benchmark Values for Phosphorus (total) in Surface Water (Fresh Water)

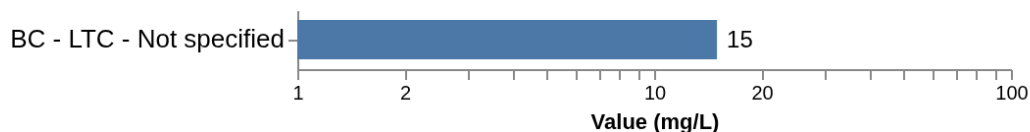


Table 791: Benchmark Values for Phosphorus in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7723-14-0	Canada	Freshwater Long Term	Not specified		63
7723-14-0	EPA Region 4	Chronic Freshwater	Not specified	1	

Benchmark Values for Phosphorus in Surface Water (Fresh Water)



Table 792: Benchmark Values for Phostebupirim (Tebupirimphos) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
96182-53-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000011
96182-53-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000039
96182-53-5	OPP	Freshwater Fish Acute	Not specified	0.044500
96182-53-5	OPP	Freshwater Fish Chronic	Not specified	0.130000
96182-53-5	OPP	Freshwater Nonvascular Plant	Not specified	0.630000
96182-53-5	OPP	Freshwater Vascular Plant	Not specified	8.800000

Benchmark Values for Phostebupirim (Tebupirimphos) in Surface Water (Fresh Water)

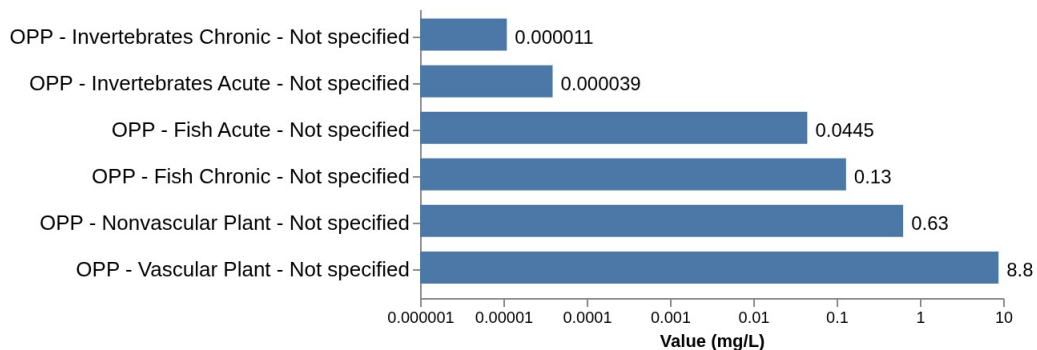


Table 793: Benchmark Values for Phthalate esters in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-48-0	California	Freshwater chronic toxicity	Not specified	0.003
000000-48-0	California	Freshwater acute toxicity	Not specified	0.940

Benchmark Values for Phthalate esters in Surface Water (Fresh Water)

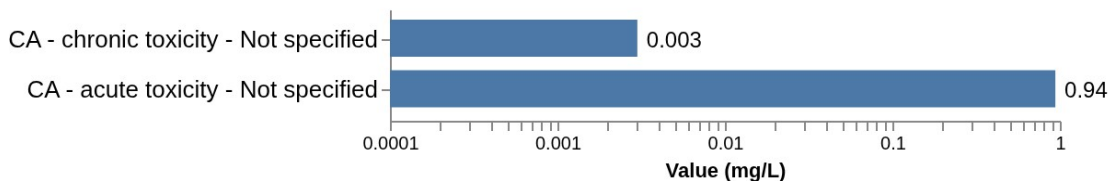


Table 794: Benchmark Values for Phthalimide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
85-41-6	OPP	Freshwater Fish Chronic	Not specified	1.50	
85-41-6	OPP	Freshwater Invertebrates Chronic	Not specified	3.44	
85-41-6	OPP	Freshwater Fish Acute	Not specified	7.35	
85-41-6	OPP	Freshwater Invertebrates Acute	Not specified	19.50	
85-41-6	OPP	Freshwater Nonvascular Plant	Not specified	53.50	22

Benchmark Values for Phthalimide in Surface Water (Fresh Water)

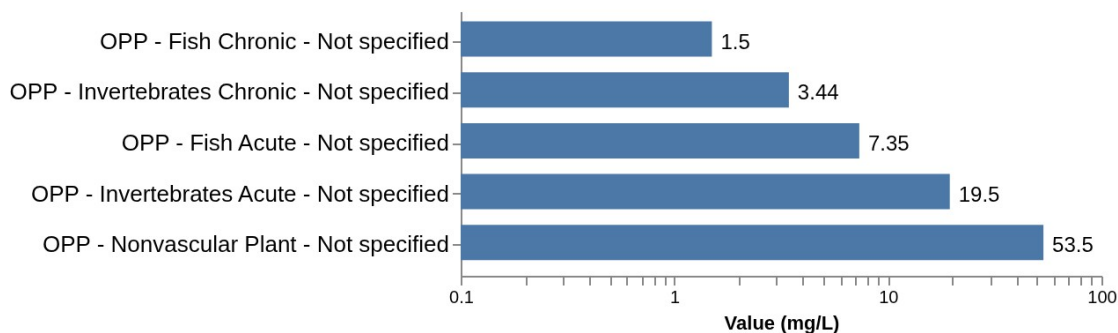


Table 795: Benchmark Values for Picarbutrazox in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
500207-04-5	OPP	Freshwater Fish Chronic	Not specified	0.076	
500207-04-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.130	
500207-04-5	OPP	Freshwater Invertebrates Acute	Not specified	0.140	
500207-04-5	OPP	Freshwater Fish Acute	Not specified	0.145	22
500207-04-5	OPP	Freshwater Nonvascular Plant	Not specified	0.271	22
500207-04-5	OPP	Freshwater Vascular Plant	Not specified	0.314	22

Benchmark Values for Picarbutrazox in Surface Water (Fresh Water)

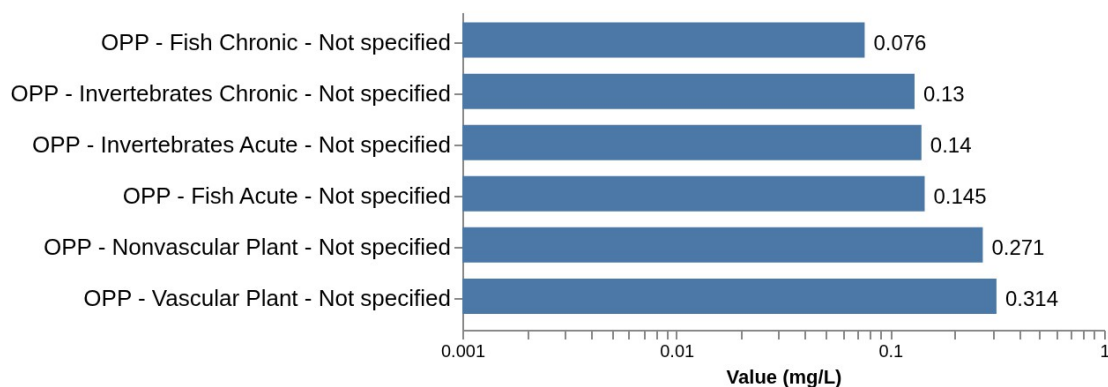


Table 796: Benchmark Values for Picaridin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
119515-38-7	OPP	Freshwater Invertebrates Acute	Not specified	51.5	22
119515-38-7	OPP	Freshwater Fish Acute	Not specified	86.5	
119515-38-7	OPP	Freshwater Nonvascular Plant	Not specified	87.3	

Benchmark Values for Picaridin in Surface Water (Fresh Water)

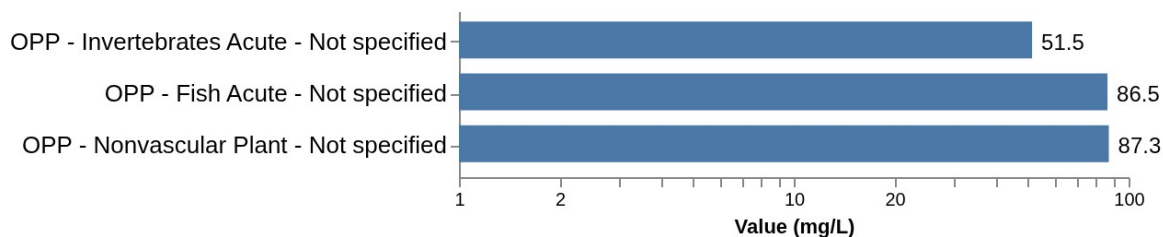


Table 797: Benchmark Values for Picloram Potassium Salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2545-60-0	OPP	Freshwater Fish Chronic	Not specified	0.55
2545-60-0	OPP	Freshwater Nonvascular Plant	Not specified	0.95
2545-60-0	OPP	Freshwater Vascular Plant	Not specified	2.61
2545-60-0	OPP	Freshwater Fish Acute	Not specified	2.75
2545-60-0	OPP	Freshwater Invertebrates Chronic	Not specified	11.80
2545-60-0	OPP	Freshwater Invertebrates Acute	Not specified	17.20

Benchmark Values for Picloram Potassium Salt in Surface Water (Fresh Water)

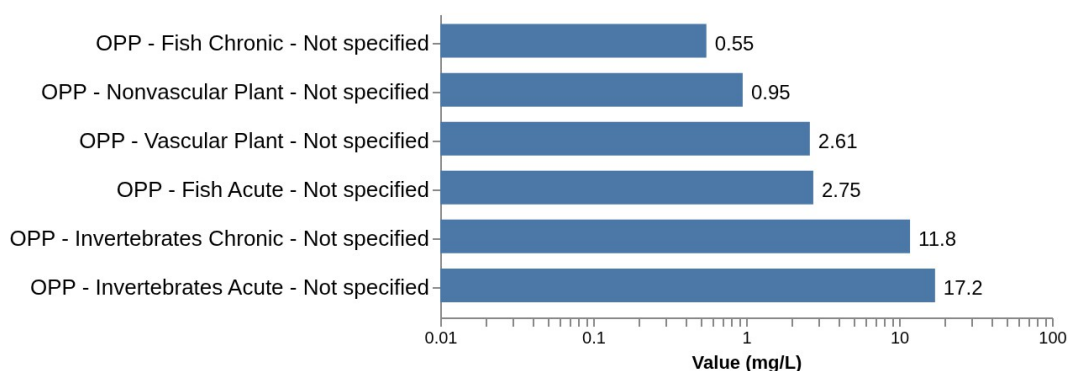


Table 798: Benchmark Values for Picloram TIPA Salt in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
6753-47-5	OPP	Freshwater Fish Chronic	Not specified	0.55
6753-47-5	OPP	Freshwater Nonvascular Plant	Not specified	0.95
6753-47-5	OPP	Freshwater Vascular Plant	Not specified	2.61
6753-47-5	OPP	Freshwater Fish Acute	Not specified	2.75
6753-47-5	OPP	Freshwater Invertebrates Chronic	Not specified	11.80
6753-47-5	OPP	Freshwater Invertebrates Acute	Not specified	17.20

Benchmark Values for Picloram TIPA Salt in Surface Water (Fresh Water)

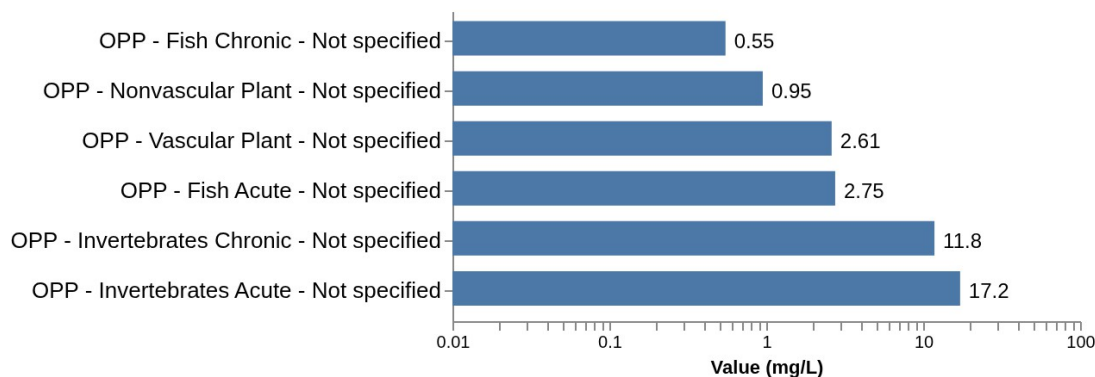


Table 799: Benchmark Values for Picloram in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1918-02-1	Canada	Freshwater Long Term	Not specified	0.029
1918-02-1	OPP	Freshwater Fish Chronic	Not specified	0.550
1918-02-1	OPP	Freshwater Fish Acute	Not specified	2.750
1918-02-1	OPP	Freshwater Invertebrates Chronic	Not specified	11.800
1918-02-1	OPP	Freshwater Invertebrates Acute	Not specified	17.200
1918-02-1	OPP	Freshwater Nonvascular Plant	Not specified	34.900

Benchmark Values for Picloram in Surface Water (Fresh Water)

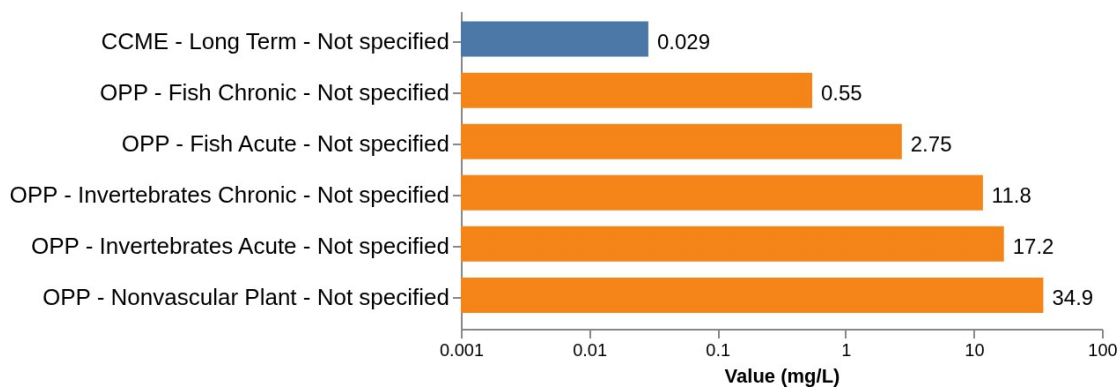


Table 800: Benchmark Values for Picoxystrobin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
117428-22-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.0010
117428-22-5	OPP	Freshwater Nonvascular Plant	Not specified	0.0040
117428-22-5	OPP	Freshwater Invertebrates Acute	Not specified	0.0120
117428-22-5	OPP	Freshwater Fish Acute	Not specified	0.0325
117428-22-5	OPP	Freshwater Fish Chronic	Not specified	0.0360
117428-22-5	OPP	Freshwater Vascular Plant	Not specified	0.2100

Benchmark Values for Picoxystrobin in Surface Water (Fresh Water)

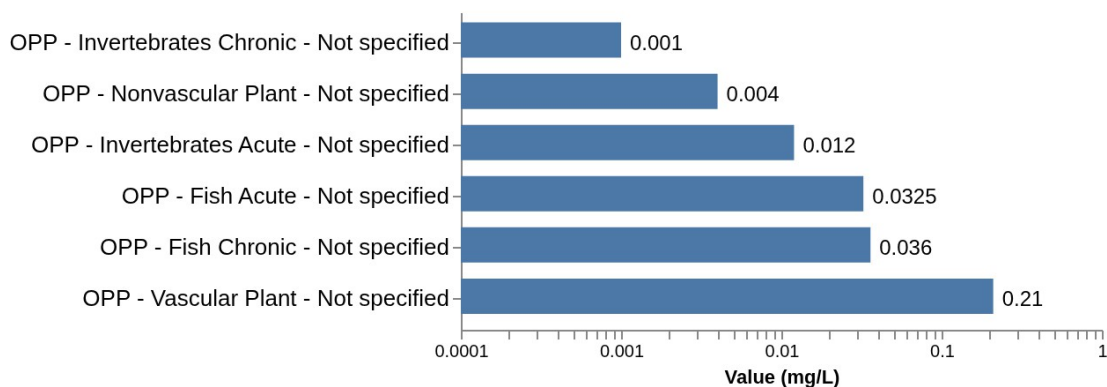


Table 801: Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-89-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.25	83
88-89-1	California	Freshwater other toxicity	Not specified	0.15	
88-89-1	California	Freshwater acute toxicity	Not specified	0.23	

Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water (Fresh Water)

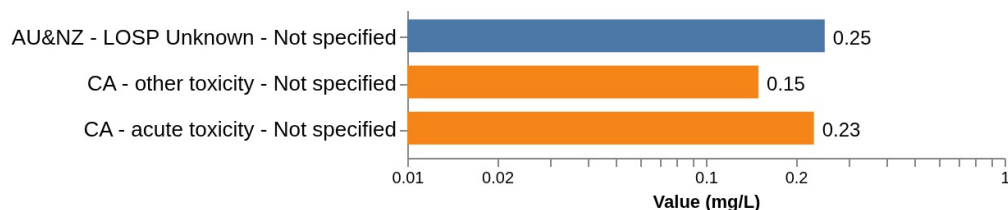


Table 802: Benchmark Values for Pinoxaden (NOA 447204) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-5	OPP	Freshwater Fish Acute	Not specified	60.0	22
000000-43-5	OPP	Freshwater Invertebrates Acute	Not specified	60.0	22
000000-43-5	OPP	Freshwater Vascular Plant	Not specified	93.5	22
000000-43-5	OPP	Freshwater Nonvascular Plant	Not specified	97.0	

Benchmark Values for Pinoxaden (NOA 447204) in Surface Water (Fresh Water)

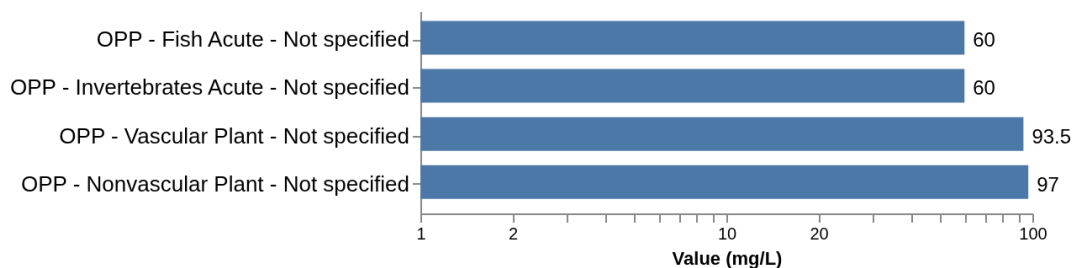


Table 803: Benchmark Values for Pinoxaden (NOA 497854) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-43-6	OPP	Freshwater Fish Chronic	Not specified	0.96	22
000000-43-6	OPP	Freshwater Vascular Plant	Not specified	4.30	
000000-43-6	OPP	Freshwater Invertebrates Chronic	Not specified	5.80	
000000-43-6	OPP	Freshwater Nonvascular Plant	Not specified	10.20	
000000-43-6	OPP	Freshwater Invertebrates Acute	Not specified	50.50	22
000000-43-6	OPP	Freshwater Fish Acute	Not specified	51.50	22

Benchmark Values for Pinoxaden (NOA 497854) in Surface Water (Fresh Water)

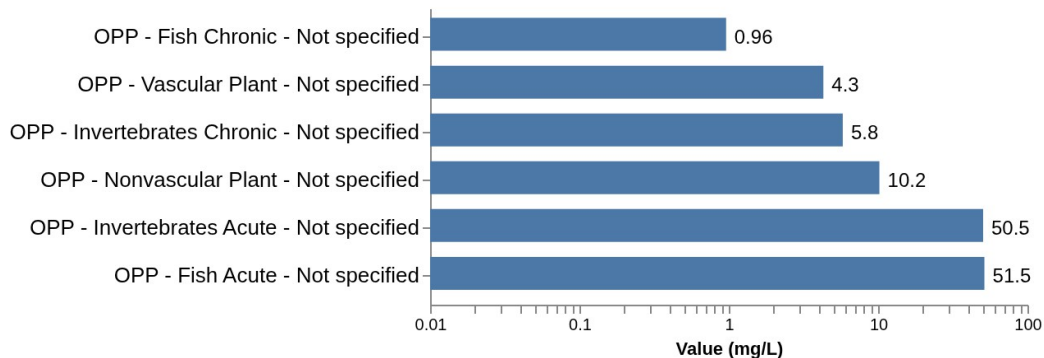
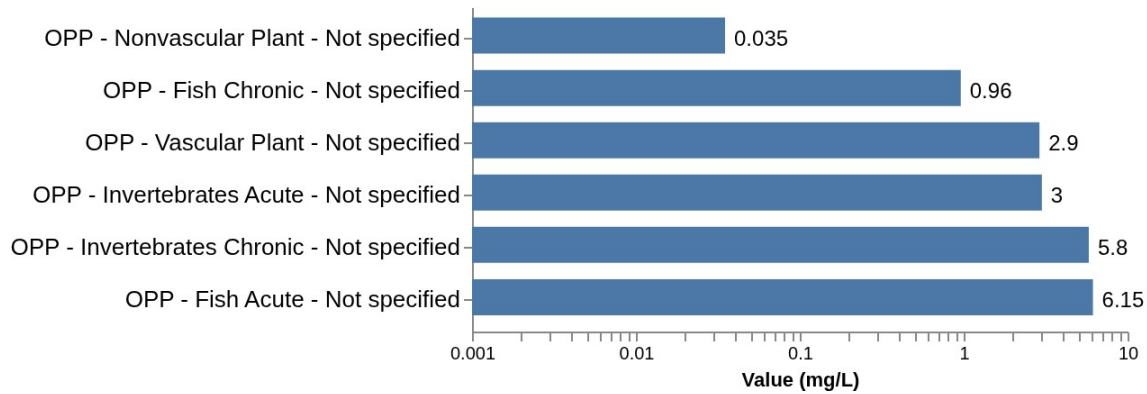


Table 804: Benchmark Values for Pinoxaden in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
243973-20-8	OPP	Freshwater Nonvascular Plant	Not specified	0.035	22
243973-20-8	OPP	Freshwater Fish Chronic	Not specified	0.960	
243973-20-8	OPP	Freshwater Vascular Plant	Not specified	2.900	
243973-20-8	OPP	Freshwater Invertebrates Acute	Not specified	3.000	
243973-20-8	OPP	Freshwater Invertebrates Chronic	Not specified	5.800	
243973-20-8	OPP	Freshwater Fish Acute	Not specified	6.150	

Benchmark Values for Pinoxaden in Surface Water (Fresh Water)**Table 805: Benchmark Values for Piperalin in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
3478-94-2	OPP	Freshwater Fish Acute	Not specified	0.385
3478-94-2	OPP	Freshwater Invertebrates Acute	Not specified	0.945

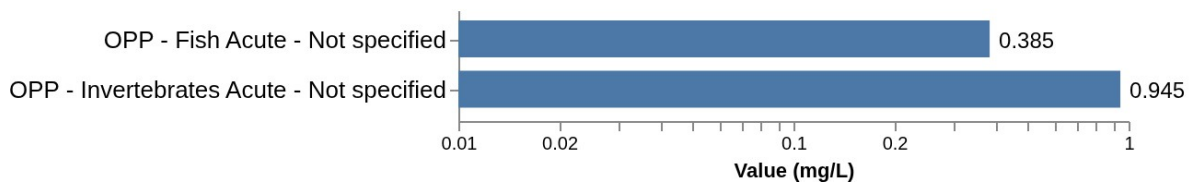
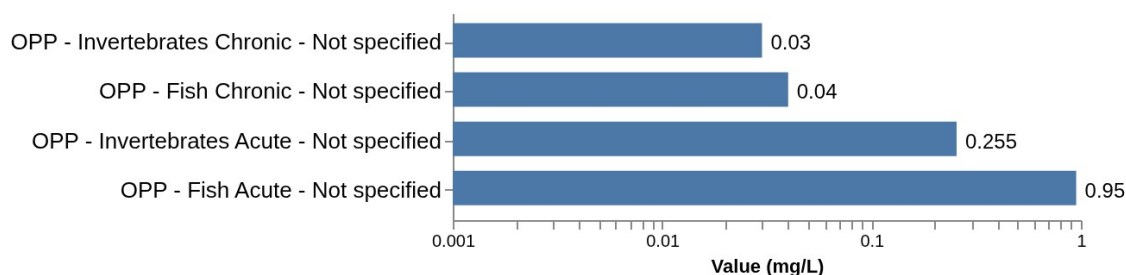
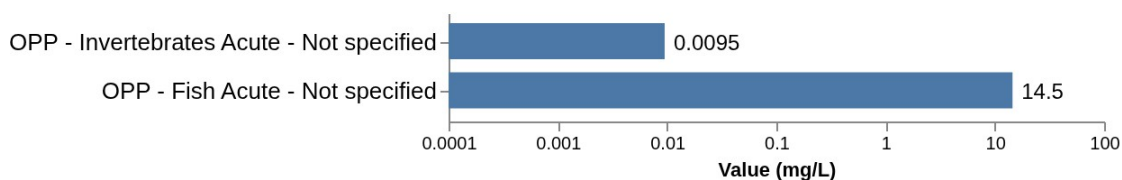
Benchmark Values for Piperalin in Surface Water (Fresh Water)

Table 806: Benchmark Values for Piperonyl butoxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
51-03-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.030
51-03-6	OPP	Freshwater Fish Chronic	Not specified	0.040
51-03-6	OPP	Freshwater Invertebrates Acute	Not specified	0.255
51-03-6	OPP	Freshwater Fish Acute	Not specified	0.950

Benchmark Values for Piperonyl butoxide in Surface Water (Fresh Water)**Table 807: Benchmark Values for Pirimicarb in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
23103-98-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0095
23103-98-2	OPP	Freshwater Fish Acute	Not specified	14.5000

Benchmark Values for Pirimicarb in Surface Water (Fresh Water)**Table 808: Benchmark Values for Pirimiphos, Methyl in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
29232-93-7	OPP	Freshwater Invertebrates Acute	Not specified	0.000055
29232-93-7	OPP	Freshwater Fish Acute	Not specified	0.200000

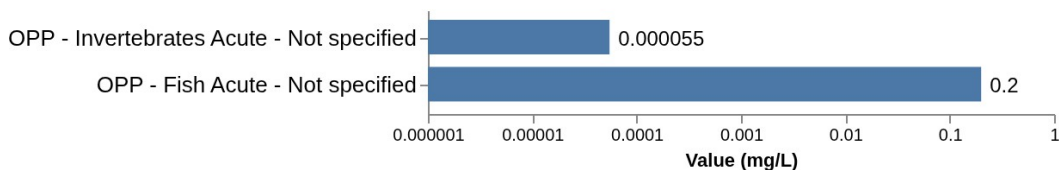
Benchmark Values for Pirimiphos, Methyl in Surface Water (Fresh Water)

Table 809: Benchmark Values for Polixetonium Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
31512-74-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.0150
31512-74-0	OPP	Freshwater Fish Chronic	Not specified	0.0190
31512-74-0	OPP	Freshwater Fish Acute	Not specified	0.0235
31512-74-0	OPP	Freshwater Nonvascular Plant	Not specified	0.0830
31512-74-0	OPP	Freshwater Invertebrates Acute	Not specified	0.1400
31512-74-0	OPP	Freshwater Vascular Plant	Not specified	1.1000

Benchmark Values for Polixetonium Chloride in Surface Water (Fresh Water)

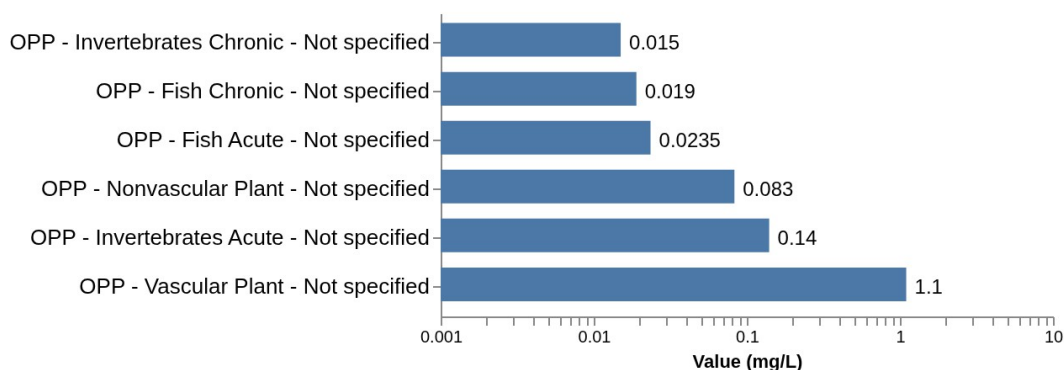


Table 810: Benchmark Values for Poly(acrylonitrile-co-butadiene-co-styrene) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
9003-56-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.20	87
9003-56-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.53	87, 89
9003-56-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.80	87, 94
9003-56-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	1.20	87, 94

Benchmark Values for Poly(acrylonitrile-co-butadiene-co-styrene) in Surface Water (Fresh Water)

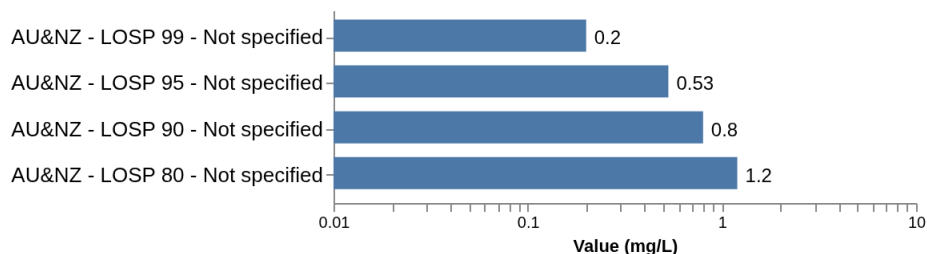


Table 811: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (heptaBDE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
68928-80-3	ECC Canada	Freshwater LTC	Not specified	0.000017

Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (heptaBDE) in Surface Water (Fresh Water)

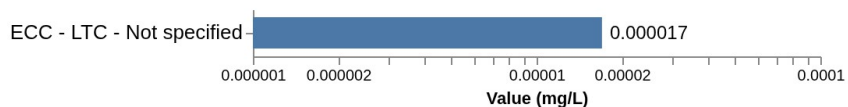


Table 812: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (hexaBDE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
36483-60-0	ECC Canada	Freshwater LTC	Not specified	0.00012

Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (hexaBDE) in Surface Water (Fresh Water)

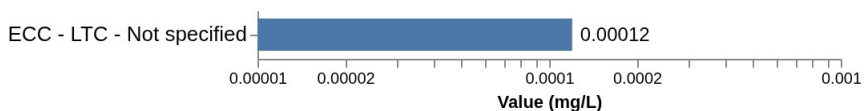


Table 813: Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (tetraBDE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
40088-47-9	ECC Canada	Freshwater LTC	Not specified	0.000024

Benchmark Values for Polybrominated Diphenyl Ethers (PBDE) (tetraBDE) in Surface Water (Fresh Water)

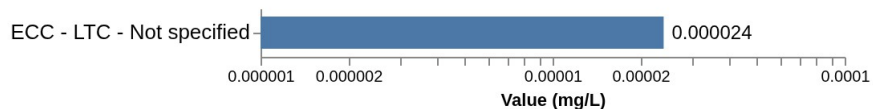


Table 814: Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1336-36-3	California	Freshwater CCC, 4-day average	Not specified	1.400000e-05	
1336-36-3	California	Freshwater acute toxicity	Not specified	2.000000e-03	
1336-36-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.400000e-05	
1336-36-3	EPA OSWER	Freshwater Tier II methodology	Not specified	1.900000e-04	
1336-36-3	EPA Region 3	BTAG – Freshwater	Not specified	7.400000e-08	
1336-36-3	EPA Region 4	Chronic Freshwater	Wildlife only	1.200000e-07	7
1336-36-3	EPA Region 4	Acute Freshwater	Aquatic only	1.400000e-05	7
1336-36-3	EPA Region 4	Chronic Freshwater	Aquatic only	1.400000e-05	7
1336-36-3	EPA Region 6	Freshwater Chronic	Not specified	1.400000e-05	
1336-36-3	EPA Region 6	Freshwater Acute	Not specified	2.000000e-03	
1336-36-3	New Jersey	Freshwater Chronic	Not specified	1.400000e-05	

Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water (Fresh Water)

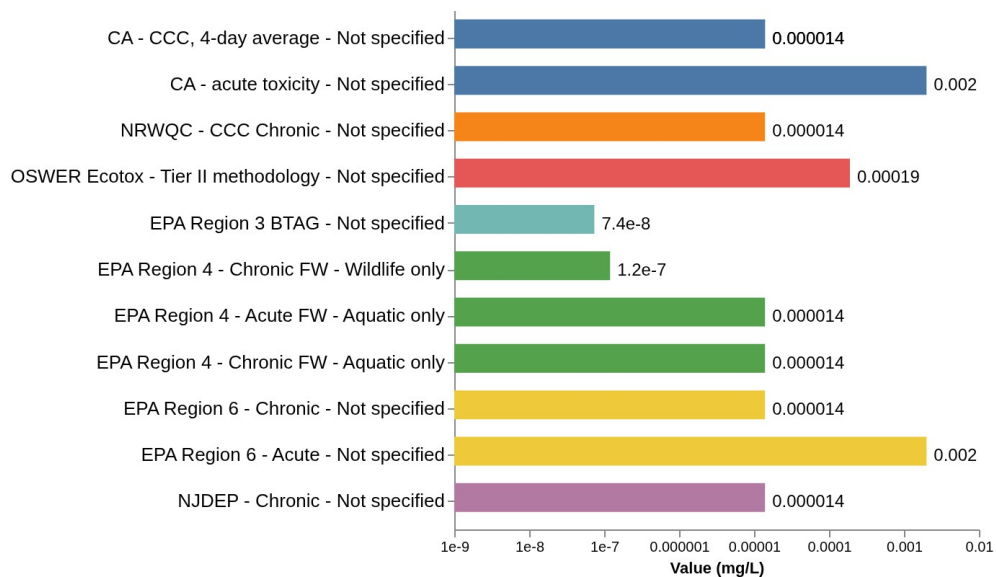


Table 815: Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-17-0	British Columbia	Freshwater STA	Not specified	1.000000e-07
000000-17-0	Delaware	Freshwater Chronic Criterion	Not specified	1.400000e-05
000000-17-0	EPA NRWQC	Freshwater CCC Chronic	Not specified	1.400000e-05
000000-17-0	Florida	SWQS for Fish Consumption Freshwater	Not specified	4.500000e-08

Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water (Fresh Water)

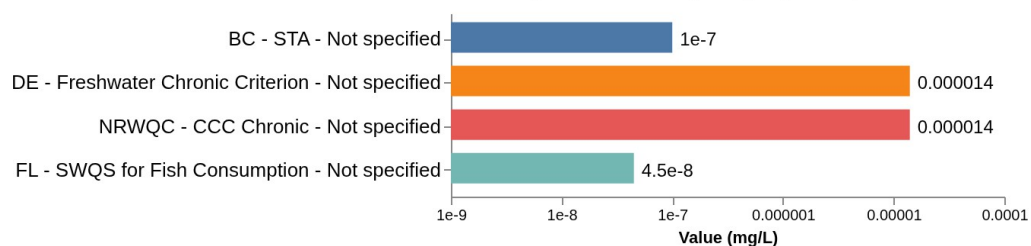


Table 816: Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-04-1	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.000031

Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water (Fresh Water)

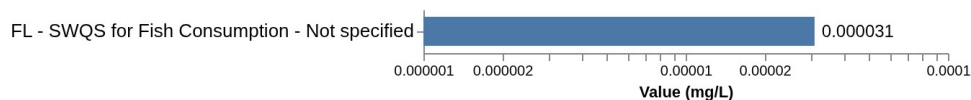


Table 817: Benchmark Values for Potassium 1-naphthaleneacetate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
15165-79-4	OPP	Freshwater Fish Chronic	Not specified	1.2
15165-79-4	OPP	Freshwater Vascular Plant	Not specified	4.2
15165-79-4	OPP	Freshwater Nonvascular Plant	Not specified	6.1
15165-79-4	OPP	Freshwater Invertebrates Chronic	Not specified	11.0
15165-79-4	OPP	Freshwater Fish Acute	Not specified	14.0
15165-79-4	OPP	Freshwater Invertebrates Acute	Not specified	90.0

Benchmark Values for Potassium 1-naphthaleneacetate in Surface Water (Fresh Water)

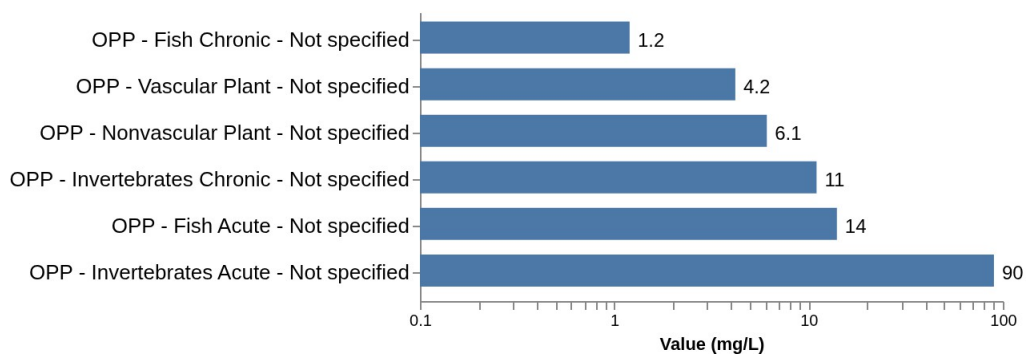


Table 818: Benchmark Values for Potassium perfluorooctanesulfonate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2795-39-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
2795-39-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	

Benchmark Values for Potassium perfluorooctanesulfonate in Surface Water (Fresh Water)

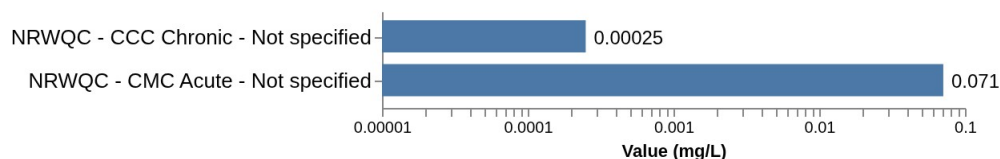


Table 819: Benchmark Values for Potassium Salts of Fatty Acids in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-20-0	OPP	Freshwater Invertebrates Acute	Not specified	0.285	
000000-20-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.500	
000000-20-0	OPP	Freshwater Nonvascular Plant	Not specified	0.590	
000000-20-0	OPP	Freshwater Fish Acute	Not specified	4.595	
000000-20-0	OPP	Freshwater Vascular Plant	Not specified	5.000	22

Benchmark Values for Potassium Salts of Fatty Acids in Surface Water (Fresh Water)

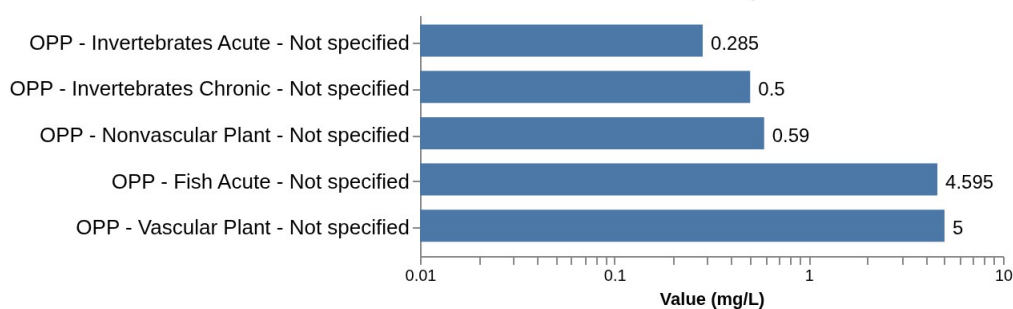


Table 820: Benchmark Values for Potassium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-09-7	EPA Region 3	BTAG – Freshwater	Not specified	53.0
7440-09-7	EPA Region 4	Chronic Freshwater	Not specified	53.0

Benchmark Values for Potassium in Surface Water (Fresh Water)

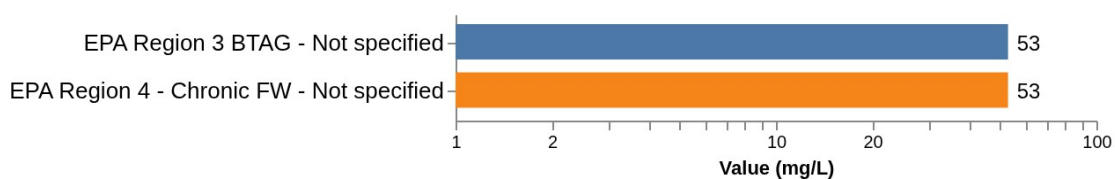


Table 821: Benchmark Values for Prallethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
23031-36-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.000650	
23031-36-9	OPP	Freshwater Vascular Plant	Not specified	0.001324	22
23031-36-9	OPP	Freshwater Fish Chronic	Not specified	0.003000	
23031-36-9	OPP	Freshwater Invertebrates Acute	Not specified	0.003100	
23031-36-9	OPP	Freshwater Fish Acute	Not specified	0.006000	

Benchmark Values for Prallethrin in Surface Water (Fresh Water)

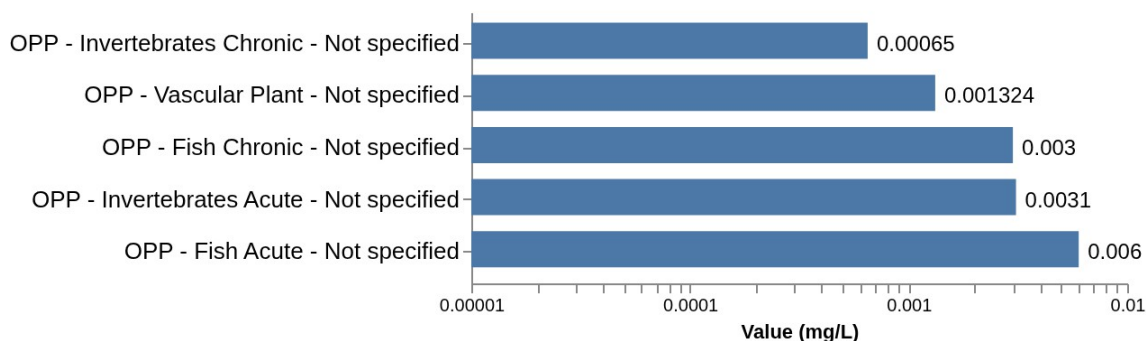


Table 822: Benchmark Values for Primisulfuron-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
86209-51-0	OPP	Freshwater Vascular Plant	Not specified	0.0008
86209-51-0	OPP	Freshwater Nonvascular Plant	Not specified	0.0980

Benchmark Values for Primisulfuron-methyl in Surface Water (Fresh Water)

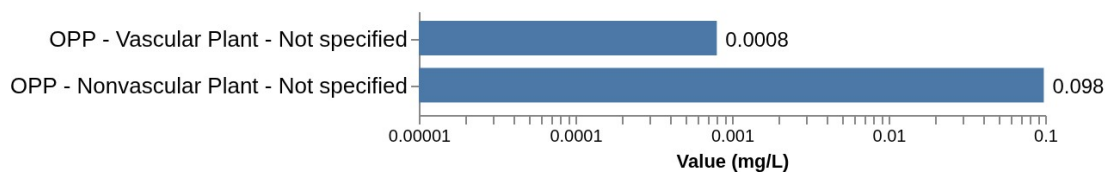


Table 823: Benchmark Values for Prodiamine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
29091-21-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0015	
29091-21-2	OPP	Freshwater Fish Acute	Not specified	0.0065	22
29091-21-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0065	22

Benchmark Values for Prodiamine in Surface Water (Fresh Water)

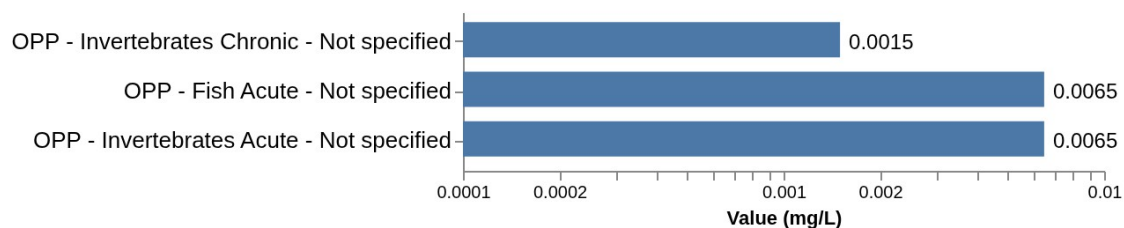


Table 824: Benchmark Values for Profenofos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
41198-08-7	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.000020	83, 101
41198-08-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.000200	
41198-08-7	OPP	Freshwater Invertebrates Acute	Not specified	0.000465	
41198-08-7	OPP	Freshwater Fish Chronic	Not specified	0.002000	
41198-08-7	OPP	Freshwater Fish Acute	Not specified	0.007050	

Benchmark Values for Profenofos in Surface Water (Fresh Water)

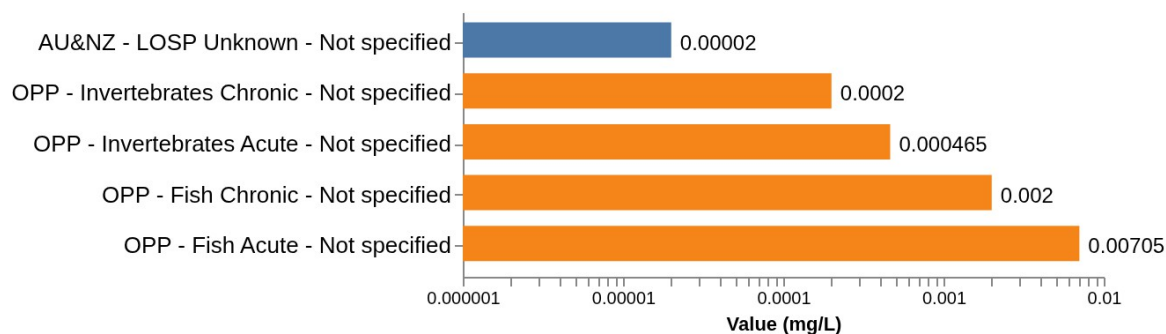


Table 825: Benchmark Values for Prohexadione calcium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
127277-53-6	OPP	Freshwater Nonvascular Plant	Not specified	1.1	22
127277-53-6	OPP	Freshwater Vascular Plant	Not specified	1.2	22
127277-53-6	OPP	Freshwater Invertebrates Chronic	Not specified	12.5	
127277-53-6	OPP	Freshwater Fish Acute	Not specified	47.3	22
127277-53-6	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22

Benchmark Values for Prohexadione calcium in Surface Water (Fresh Water)

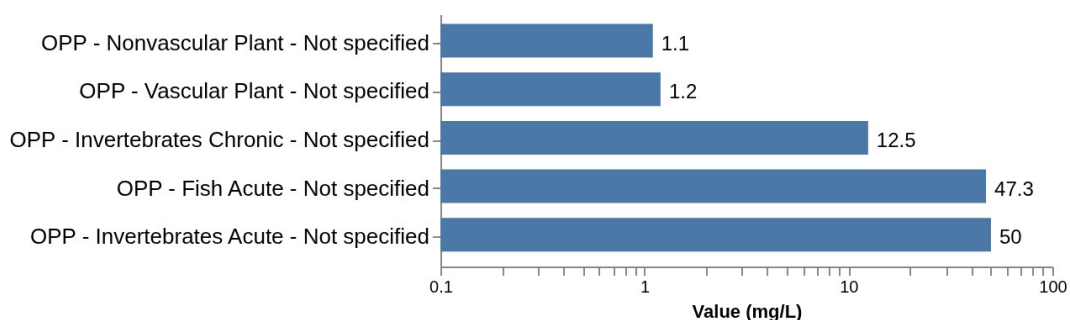


Table 826: Benchmark Values for Prometon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1610-18-0	OPP	Freshwater Nonvascular Plant	Not specified	0.098
1610-18-0	OPP	Freshwater Invertebrates Chronic	Not specified	3.450
1610-18-0	OPP	Freshwater Fish Acute	Not specified	6.000
1610-18-0	OPP	Freshwater Invertebrates Acute	Not specified	12.850
1610-18-0	OPP	Freshwater Fish Chronic	Not specified	19.700

Benchmark Values for Prometon in Surface Water (Fresh Water)

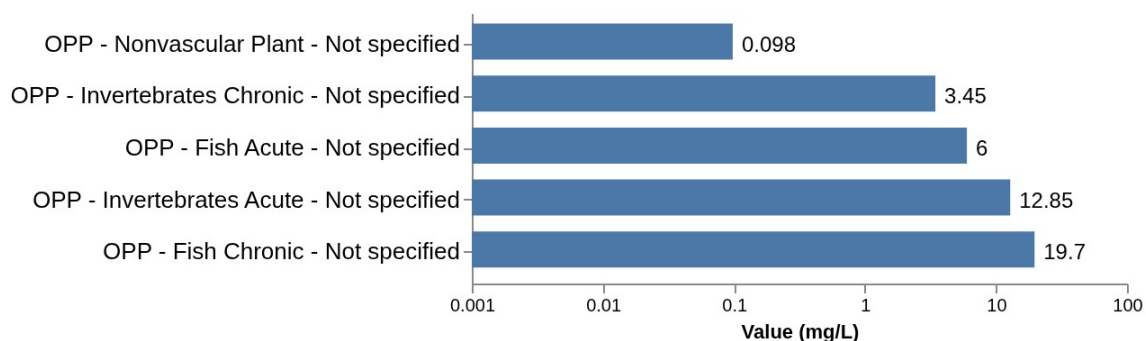


Table 827: Benchmark Values for Prometryn in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7287-19-6	OPP	Freshwater Nonvascular Plant	Not specified	0.00104
7287-19-6	OPP	Freshwater Vascular Plant	Not specified	0.01190
7287-19-6	OPP	Freshwater Fish Chronic	Not specified	0.62000
7287-19-6	OPP	Freshwater Invertebrates Chronic	Not specified	1.00000
7287-19-6	OPP	Freshwater Fish Acute	Not specified	1.45500
7287-19-6	OPP	Freshwater Invertebrates Acute	Not specified	4.85000

Benchmark Values for Prometryn in Surface Water (Fresh Water)

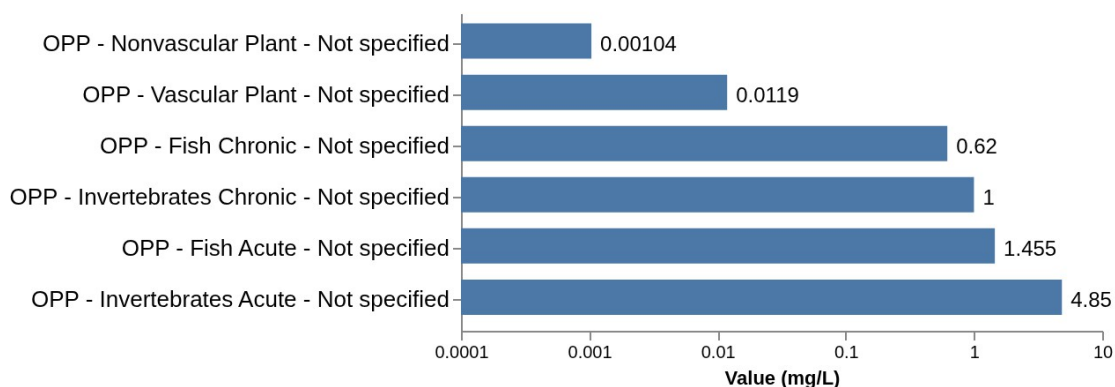


Table 828: Benchmark Values for Pronamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
23950-58-5	OPP	Freshwater Fish Chronic	Not specified	0.224	
23950-58-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.600	
23950-58-5	OPP	Freshwater Nonvascular Plant	Not specified	0.760	
23950-58-5	OPP	Freshwater Vascular Plant	Not specified	1.180	
23950-58-5	OPP	Freshwater Invertebrates Acute	Not specified	2.800	22
23950-58-5	OPP	Freshwater Fish Acute	Not specified	5.300	

Benchmark Values for Pronamide in Surface Water (Fresh Water)

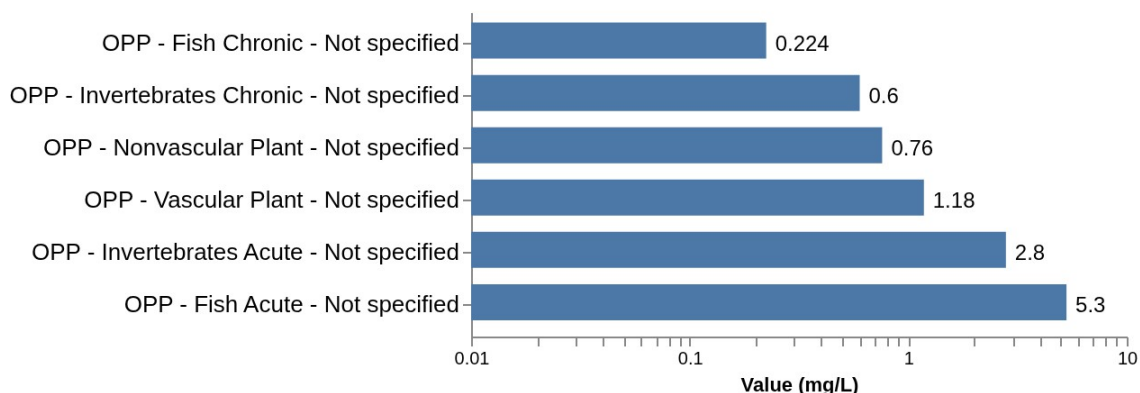


Table 829: Benchmark Values for Propachlor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1918-16-7	California	Freshwater instantaneous max	Not specified	0.0080
1918-16-7	OPP	Freshwater Nonvascular Plant	Not specified	0.0135
1918-16-7	OPP	Freshwater Fish Acute	Not specified	0.0850
1918-16-7	OPP	Freshwater Invertebrates Acute	Not specified	0.3950

Benchmark Values for Propachlor in Surface Water (Fresh Water)

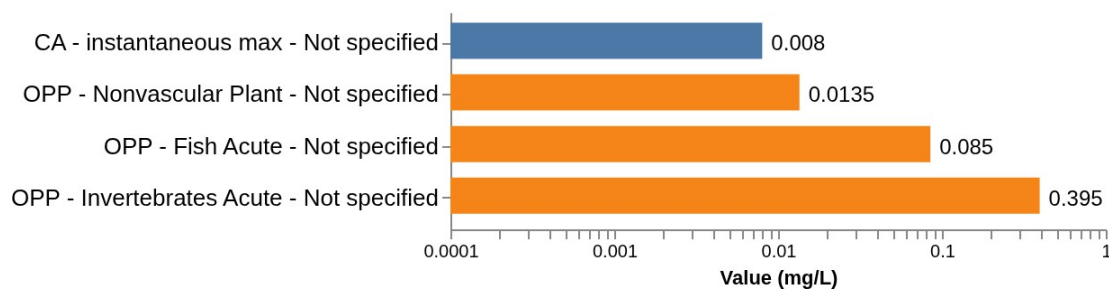


Table 830: Benchmark Values for Propamocarb HCL in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
25606-41-1	OPP	Freshwater Fish Chronic	Not specified	6.3	
25606-41-1	OPP	Freshwater Invertebrates Chronic	Not specified	9.3	
25606-41-1	OPP	Freshwater Fish Acute	Not specified	49.5	22
25606-41-1	OPP	Freshwater Invertebrates Acute	Not specified	51.7	22
25606-41-1	OPP	Freshwater Nonvascular Plant	Not specified	170.0	22
25606-41-1	OPP	Freshwater Vascular Plant	Not specified	172.0	

Benchmark Values for Propamocarb HCL in Surface Water (Fresh Water)

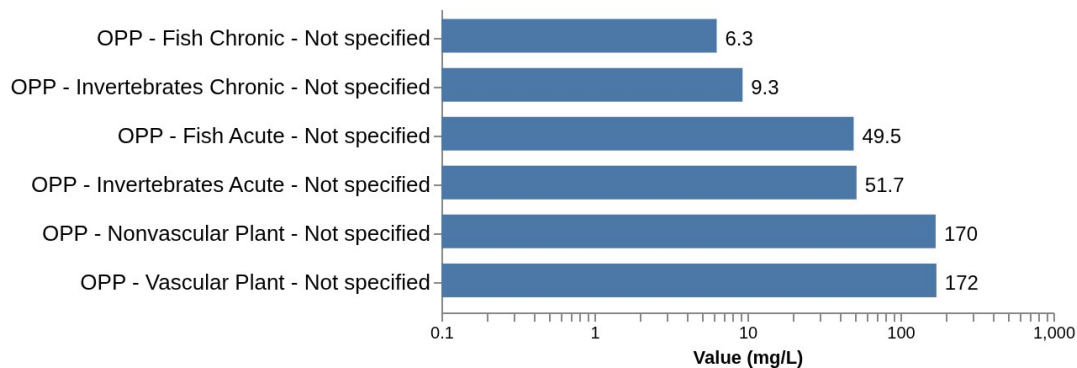


Table 831: Benchmark Values for Propanil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
709-98-8	OPP	Freshwater Fish Chronic	Not specified	0.0091
709-98-8	OPP	Freshwater Nonvascular Plant	Not specified	0.0160
709-98-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.0860
709-98-8	OPP	Freshwater Vascular Plant	Not specified	0.1100
709-98-8	OPP	Freshwater Invertebrates Acute	Not specified	0.2650
709-98-8	OPP	Freshwater Fish Acute	Not specified	1.1500

Benchmark Values for Propanil in Surface Water (Fresh Water)

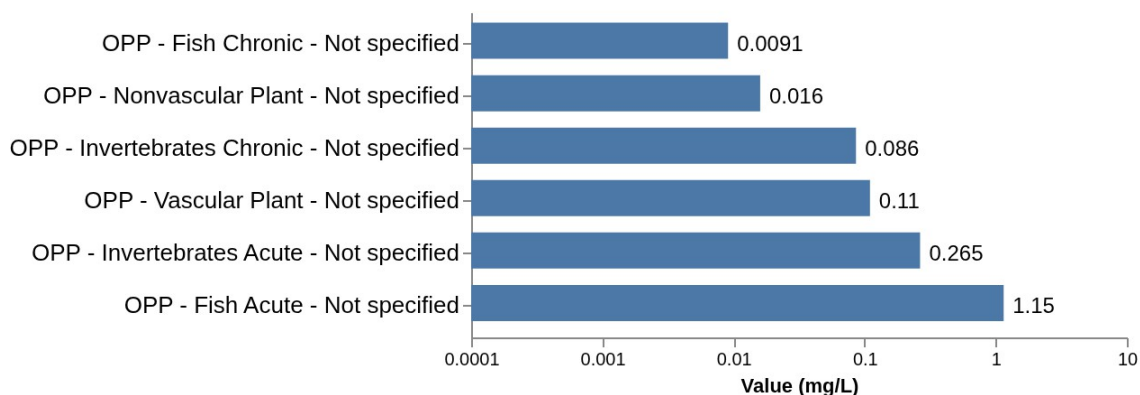


Table 832: Benchmark Values for Propanoic acid, 2-(2,4-dichlorophenoxy)- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-36-5	OPP	Freshwater Nonvascular Plant	Not specified	0.077	
120-36-5	OPP	Freshwater Vascular Plant	Not specified	32.000	
120-36-5	OPP	Freshwater Fish Acute	Not specified	45.750	22
120-36-5	OPP	Freshwater Invertebrates Chronic	Not specified	100.000	
120-36-5	OPP	Freshwater Invertebrates Acute	Not specified	279.000	

Benchmark Values for Propanoic acid, 2-(2,4-dichlorophenoxy)- in Surface Water (Fresh Water)

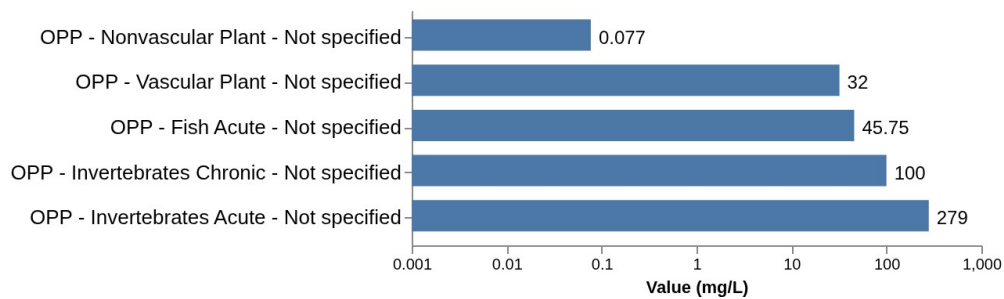


Table 833: Benchmark Values for Propargite in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2312-35-8	OPP	Freshwater Invertebrates Acute	Not specified	0.0070
2312-35-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.0090
2312-35-8	OPP	Freshwater Fish Chronic	Not specified	0.0160
2312-35-8	OPP	Freshwater Nonvascular Plant	Not specified	0.0194
2312-35-8	OPP	Freshwater Fish Acute	Not specified	0.0220
2312-35-8	OPP	Freshwater Vascular Plant	Not specified	0.0750

Benchmark Values for Propargite in Surface Water (Fresh Water)

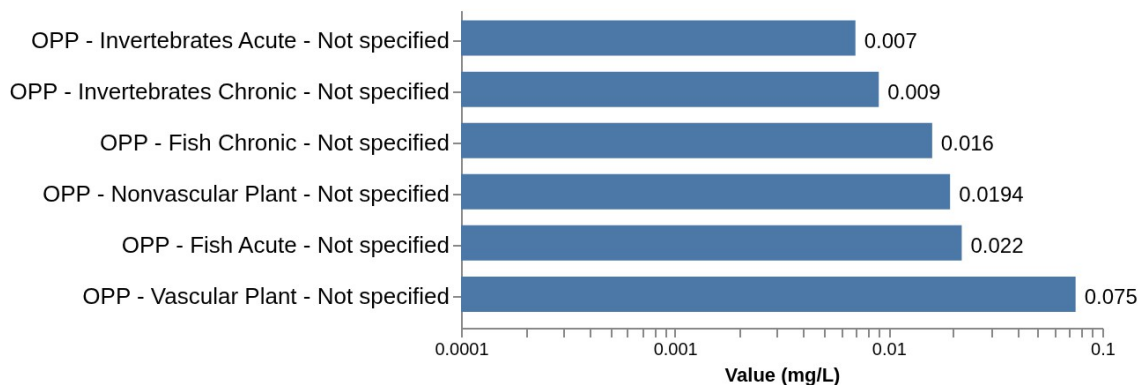


Table 834: Benchmark Values for Propazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
139-40-2	OPP	Freshwater Nonvascular Plant	Not specified	0.0248	
139-40-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0470	
139-40-2	OPP	Freshwater Vascular Plant	Not specified	0.1000	
139-40-2	OPP	Freshwater Fish Chronic	Not specified	0.5600	
139-40-2	OPP	Freshwater Fish Acute	Not specified	2.1900	22
139-40-2	OPP	Freshwater Invertebrates Acute	Not specified	2.6600	22

Benchmark Values for Propazine in Surface Water (Fresh Water)

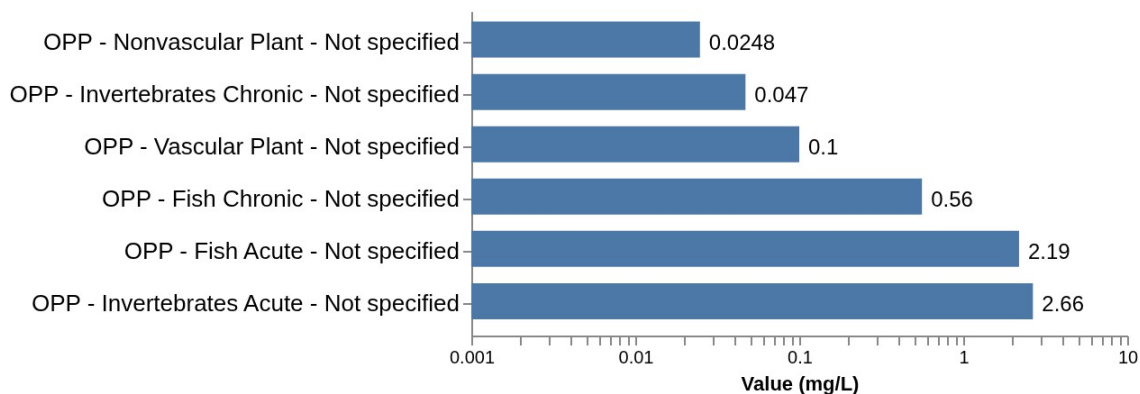


Table 835: Benchmark Values for Propetamphos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
31218-83-4	OPP	Freshwater Invertebrates Acute	Not specified	0.00165
31218-83-4	OPP	Freshwater Fish Acute	Not specified	0.09400

Benchmark Values for Propetamphos in Surface Water (Fresh Water)

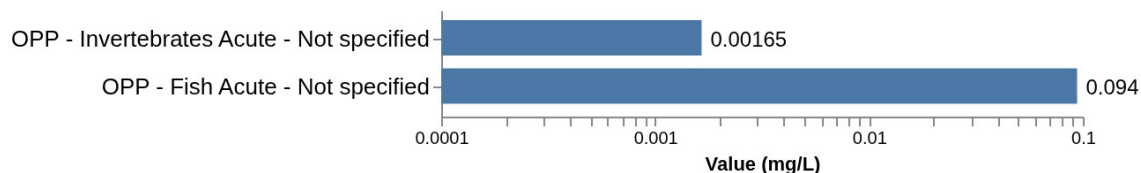


Table 836: Benchmark Values for Propiconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
60207-90-1	OPP	Freshwater Fish Chronic	Not specified	0.015
60207-90-1	OPP	Freshwater Nonvascular Plant	Not specified	0.021
60207-90-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.180
60207-90-1	OPP	Freshwater Fish Acute	Not specified	0.425
60207-90-1	OPP	Freshwater Invertebrates Acute	Not specified	2.400
60207-90-1	OPP	Freshwater Vascular Plant	Not specified	3.500

Benchmark Values for Propiconazole in Surface Water (Fresh Water)

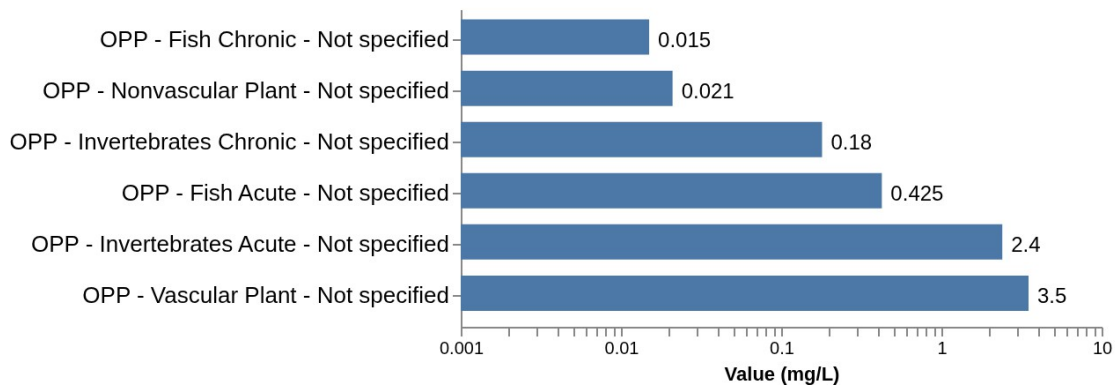


Table 837: Benchmark Values for Propionic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
79-09-4	OPP	Freshwater Invertebrates Acute	Not specified	11.35
79-09-4	OPP	Freshwater Fish Acute	Not specified	25.50
79-09-4	OPP	Freshwater Nonvascular Plant	Not specified	42.90

Benchmark Values for Propionic Acid in Surface Water (Fresh Water)

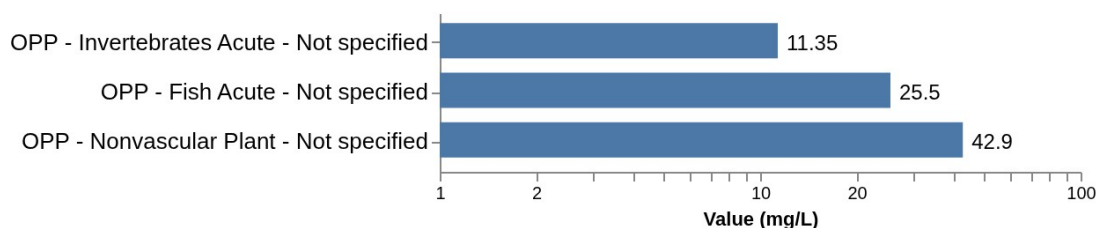


Table 838: Benchmark Values for Propyl benzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
103-65-1	EPA Region 3	BTAG – Freshwater	Not specified	0.128
103-65-1	EPA Region 6	Freshwater Chronic	Not specified	0.064
103-65-1	EPA Region 6	Freshwater Acute	Not specified	0.385

Benchmark Values for Propyl benzene in Surface Water (Fresh Water)

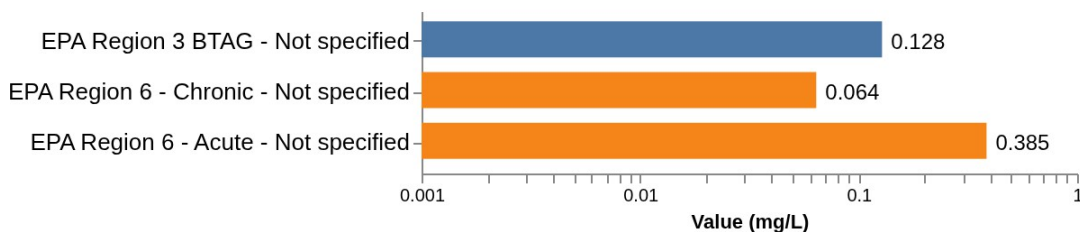


Table 839: Benchmark Values for Propylene Glycol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-55-6	Canada	Freshwater Long Term	Not specified	500.000
57-55-6	EPA Region 4	Chronic Freshwater	Not specified	0.071
57-55-6	EPA Region 4	Acute Freshwater	Not specified	0.640
57-55-6	EPA Region 6	Freshwater Chronic	Not specified	500.000

Benchmark Values for Propylene Glycol in Surface Water (Fresh Water)

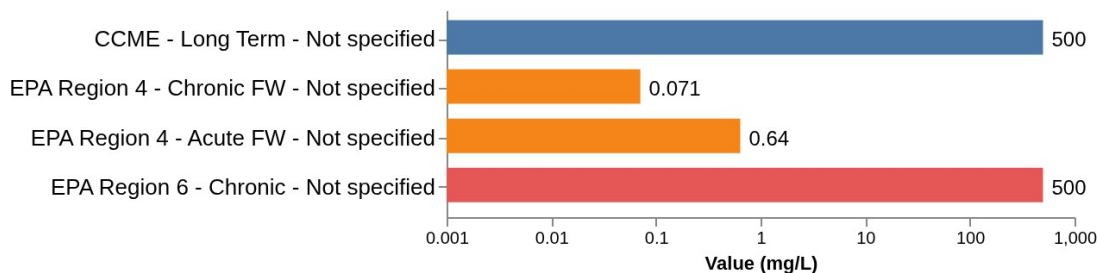


Table 840: Benchmark Values for Propylene Oxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-56-9	OPP	Freshwater Nonvascular Plant	Not specified	0.86	22
75-56-9	OPP	Freshwater Vascular Plant	Not specified	0.87	22
75-56-9	OPP	Freshwater Fish Acute	Not specified	42.00	
75-56-9	OPP	Freshwater Invertebrates Acute	Not specified	68.50	

Benchmark Values for Propylene Oxide in Surface Water (Fresh Water)

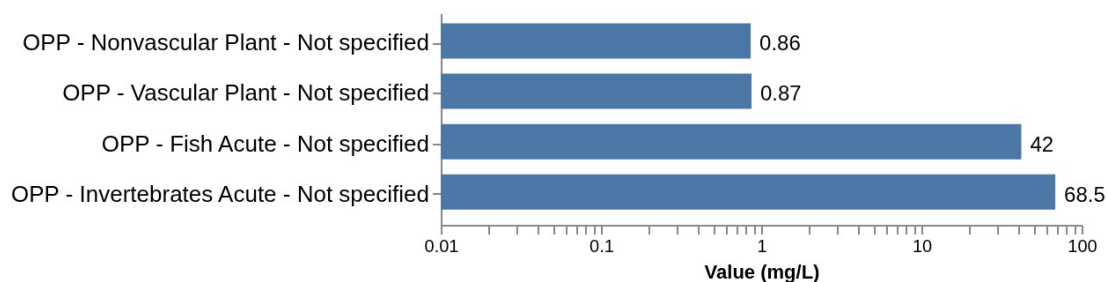


Table 841: Benchmark Values for Prosulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
94125-34-5	OPP	Freshwater Vascular Plant	Not specified	0.00122
94125-34-5	OPP	Freshwater Nonvascular Plant	Not specified	0.01060

Benchmark Values for Prosulfuron in Surface Water (Fresh Water)

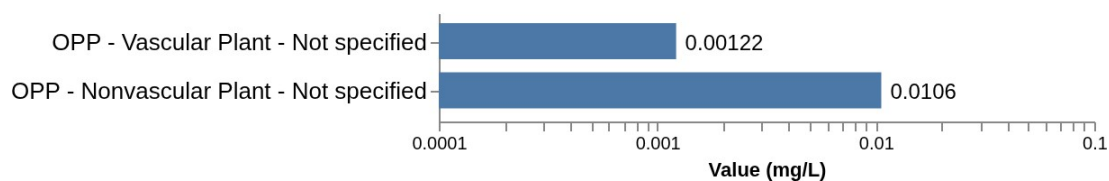
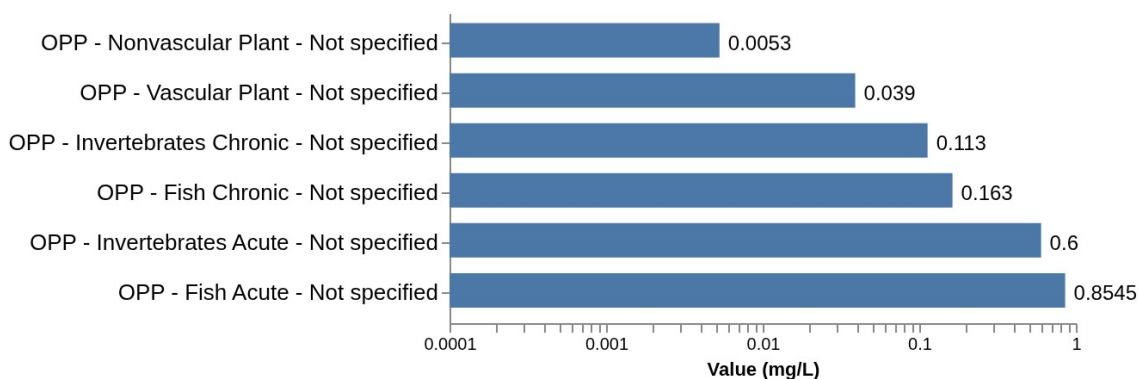


Table 842: Benchmark Values for Prothioconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
178928-70-6	OPP	Freshwater Nonvascular Plant	Not specified	0.0053
178928-70-6	OPP	Freshwater Vascular Plant	Not specified	0.0390
178928-70-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.1130
178928-70-6	OPP	Freshwater Fish Chronic	Not specified	0.1630
178928-70-6	OPP	Freshwater Invertebrates Acute	Not specified	0.6000
178928-70-6	OPP	Freshwater Fish Acute	Not specified	0.8545

Benchmark Values for Prothioconazole in Surface Water (Fresh Water)**Table 843: Benchmark Values for Prothioconazole-desthio in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
120983-64-4	OPP	Freshwater Nonvascular Plant	Not specified	0.0048
120983-64-4	OPP	Freshwater Vascular Plant	Not specified	0.0350
120983-64-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.1030
120983-64-4	OPP	Freshwater Fish Chronic	Not specified	0.1480

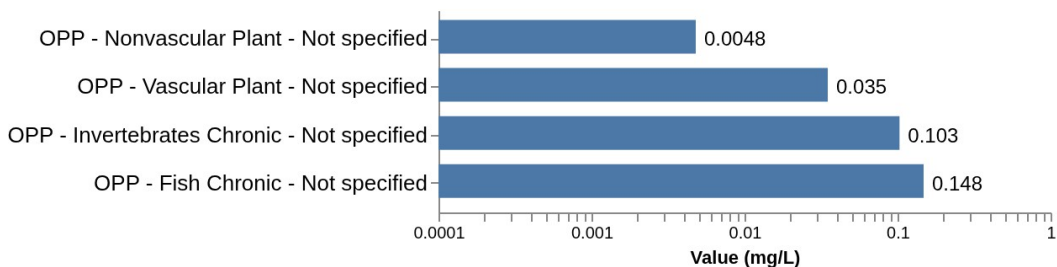
Benchmark Values for Prothioconazole-desthio in Surface Water (Fresh Water)

Table 844: Benchmark Values for Prothioconazole-S-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
178928-71-7	OPP	Freshwater Fish Acute	Not specified	0.89

Benchmark Values for Prothioconazole-S-methyl in Surface Water (Fresh Water)

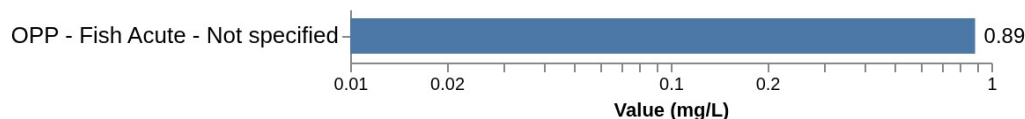


Table 845: Benchmark Values for Pymetrozine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
123312-89-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.025	
123312-89-0	OPP	Freshwater Fish Chronic	Not specified	11.700	
123312-89-0	OPP	Freshwater Nonvascular Plant	Not specified	17.000	
123312-89-0	OPP	Freshwater Invertebrates Acute	Not specified	43.500	
123312-89-0	OPP	Freshwater Fish Acute	Not specified	64.000	22
123312-89-0	OPP	Freshwater Vascular Plant	Not specified	109.000	22

Benchmark Values for Pymetrozine in Surface Water (Fresh Water)

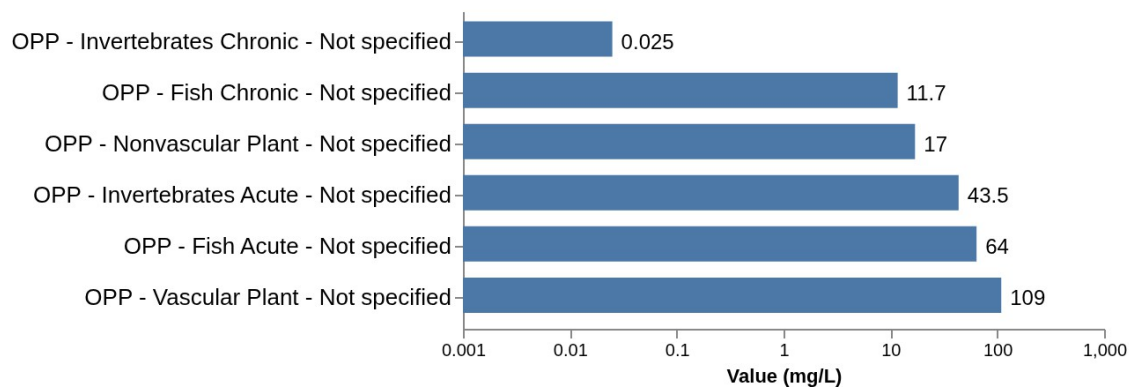
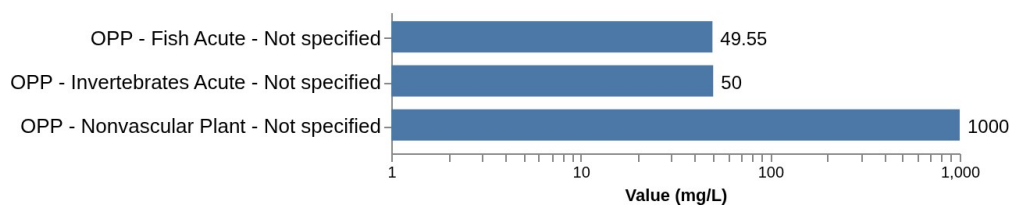
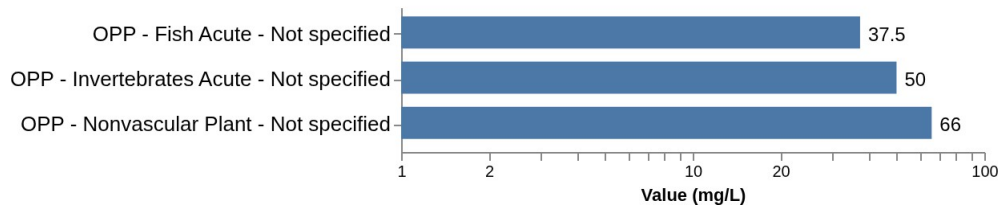


Table 846: Benchmark Values for Pyraclostrobin degradate BF 500–11 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–43–7	OPP	Freshwater Fish Acute	Not specified	49.55	22
000000–43–7	OPP	Freshwater Invertebrates Acute	Not specified	50.00	22
000000–43–7	OPP	Freshwater Nonvascular Plant	Not specified	1000.00	

Benchmark Values for Pyraclostrobin degradate BF 500-11 in Surface Water (Fresh Water)**Table 847: Benchmark Values for Pyraclostrobin degradate BF 500–13 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–43–8	OPP	Freshwater Fish Acute	Not specified	37.5	
000000–43–8	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22
000000–43–8	OPP	Freshwater Nonvascular Plant	Not specified	66.0	

Benchmark Values for Pyraclostrobin degradate BF 500-13 in Surface Water (Fresh Water)**Table 848: Benchmark Values for Pyraclostrobin degradate BF 500–14 in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000–43–9	OPP	Freshwater Fish Acute	Not specified	28.5	
000000–43–9	OPP	Freshwater Invertebrates Acute	Not specified	30.9	22
000000–43–9	OPP	Freshwater Nonvascular Plant	Not specified	46.6	

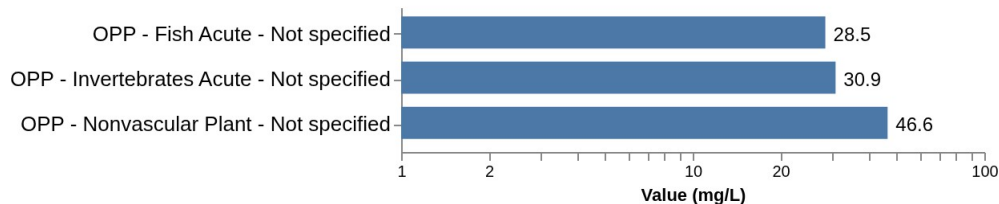
Benchmark Values for Pyraclostrobin degradate BF 500-14 in Surface Water (Fresh Water)

Table 849: Benchmark Values for Pyraclostrobin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
175013-18-0	OPP	Freshwater Nonvascular Plant	Not specified	0.00150
175013-18-0	OPP	Freshwater Fish Chronic	Not specified	0.00235
175013-18-0	OPP	Freshwater Fish Acute	Not specified	0.00310
175013-18-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.00400
175013-18-0	OPP	Freshwater Invertebrates Acute	Not specified	0.00785
175013-18-0	OPP	Freshwater Vascular Plant	Not specified	1.19700

Benchmark Values for Pyraclostrobin in Surface Water (Fresh Water)

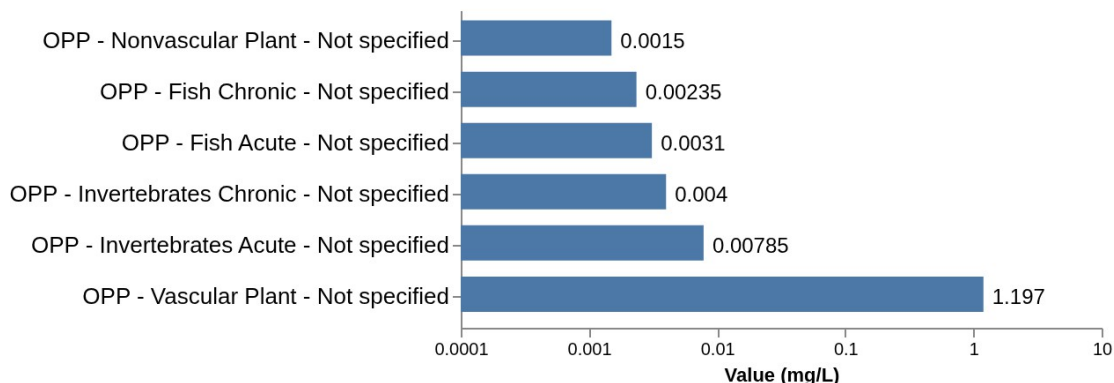


Table 850: Benchmark Values for Pyraflufen ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129630-19-9	OPP	Freshwater Fish Chronic	Not specified	0.00089	
129630-19-9	OPP	Freshwater Nonvascular Plant	Not specified	0.00150	
129630-19-9	OPP	Freshwater Vascular Plant	Not specified	0.01600	
129630-19-9	OPP	Freshwater Invertebrates Acute	Not specified	0.04100	22
129630-19-9	OPP	Freshwater Fish Acute	Not specified	0.04250	22
129630-19-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.08100	

Benchmark Values for Pyraflufen ethyl in Surface Water (Fresh Water)

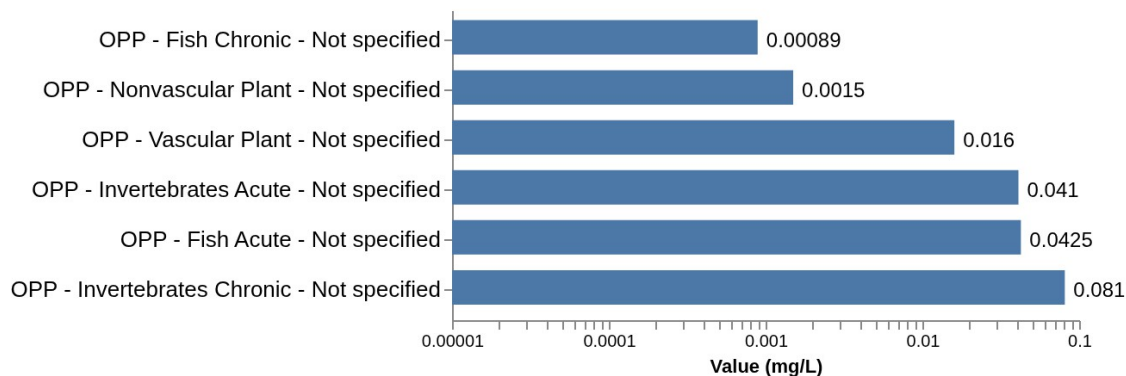


Table 851: Benchmark Values for Pyraflufen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129630-17-7	OPP	Freshwater Fish Chronic	Not specified	10.0	
129630-17-7	OPP	Freshwater Fish Acute	Not specified	45.0	
129630-17-7	OPP	Freshwater Invertebrates Acute	Not specified	60.5	22
129630-17-7	OPP	Freshwater Invertebrates Chronic	Not specified	99.0	

Benchmark Values for Pyraflufen in Surface Water (Fresh Water)

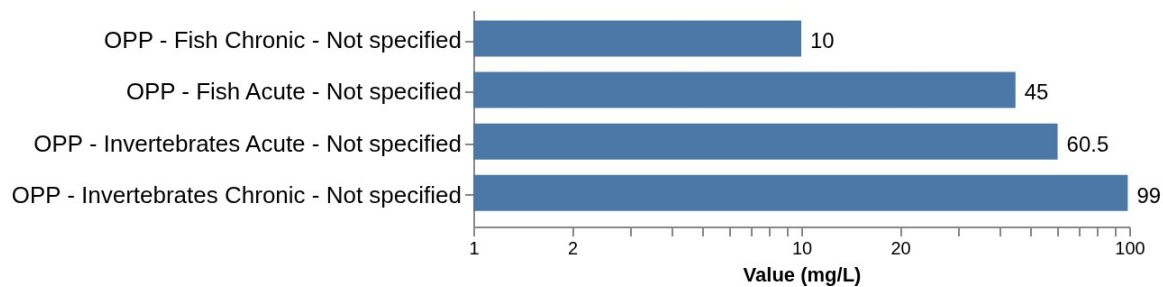


Table 852: Benchmark Values for Pyrasulfotole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
365400-11-9	OPP	Freshwater Vascular Plant	Not specified	0.028	
365400-11-9	OPP	Freshwater Fish Chronic	Not specified	0.580	
365400-11-9	OPP	Freshwater Nonvascular Plant	Not specified	8.300	
365400-11-9	OPP	Freshwater Invertebrates Chronic	Not specified	12.800	
365400-11-9	OPP	Freshwater Invertebrates Acute	Not specified	47.900	22
365400-11-9	OPP	Freshwater Fish Acute	Not specified	48.000	22

Benchmark Values for Pyrasulfotole in Surface Water (Fresh Water)

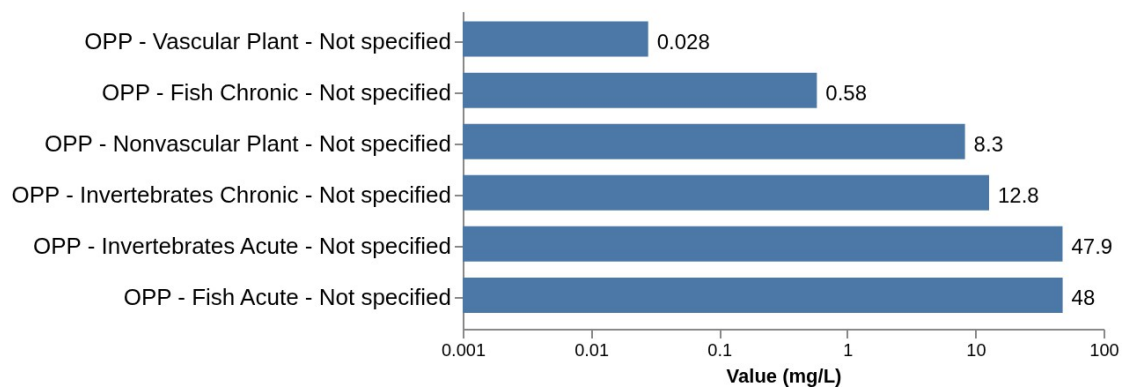


Table 853: Benchmark Values for Pyrene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129-00-0	British Columbia	Freshwater LTC	Not specified	0.000020	130
129-00-0	Canada	Freshwater Long Term	Not specified	0.000025	
129-00-0	EPA Region 3	BTAG – Freshwater	Not specified	0.000025	
129-00-0	EPA Region 4	Chronic Freshwater	Not specified	0.004600	
129-00-0	EPA Region 4	Acute Freshwater	Not specified	0.042000	
129-00-0	EPA Region 6	Freshwater Chronic	Not specified	0.000108	
129-00-0	EPA Region 6	Freshwater Acute	Not specified	0.003230	
129-00-0	Florida	SWQS for Fish Consumption Freshwater	Not specified	11.000000	

Benchmark Values for Pyrene in Surface Water (Fresh Water)

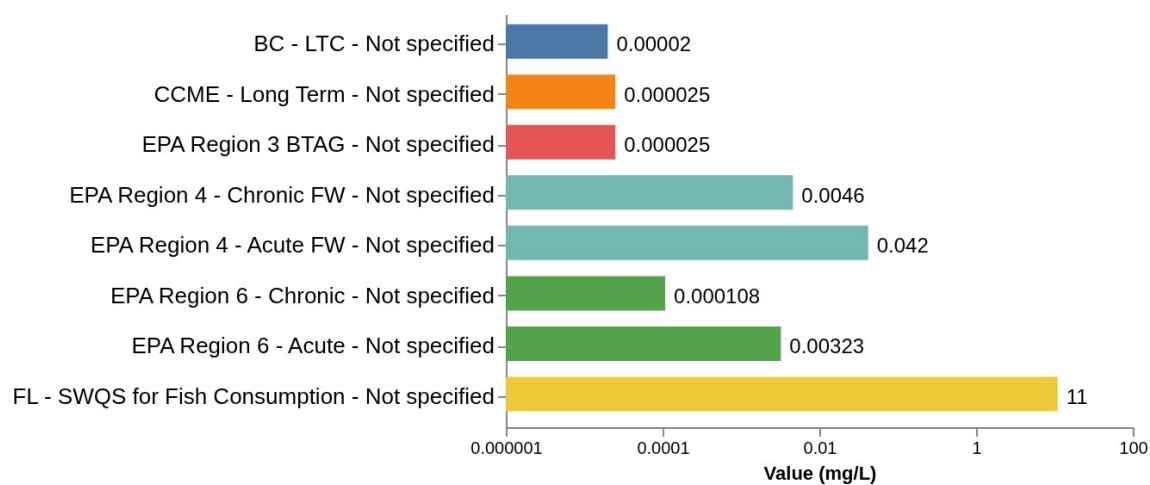


Table 854: Benchmark Values for Pyrethrins in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
8003-34-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00004
8003-34-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00038
8003-34-7	OPP	Freshwater Fish Chronic	Not specified	0.00190
8003-34-7	OPP	Freshwater Fish Acute	Not specified	0.00255
8003-34-7	OPP	Freshwater Nonvascular Plant	Not specified	0.10500
8003-34-7	OPP	Freshwater Vascular Plant	Not specified	1.23000

Benchmark Values for Pyrethrins in Surface Water (Fresh Water)

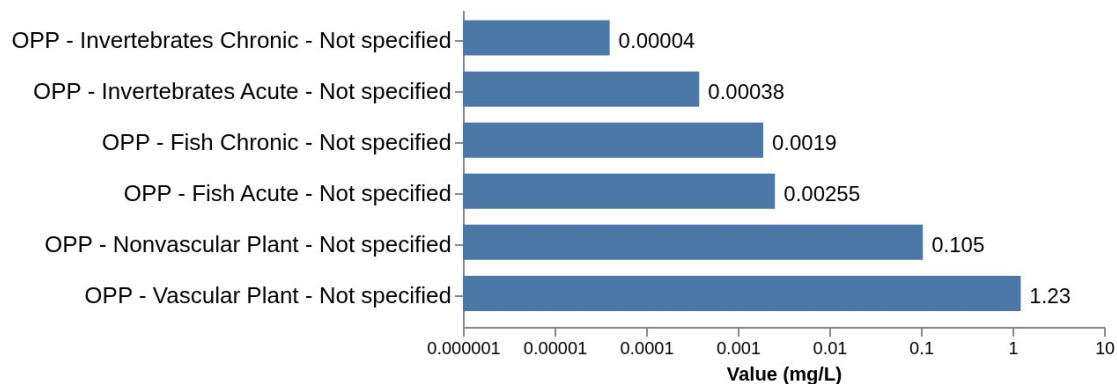


Table 855: Benchmark Values for Pyridaben in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96489-71-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.000044	
96489-71-3	OPP	Freshwater Fish Chronic	Not specified	0.000087	
96489-71-3	OPP	Freshwater Invertebrates Acute	Not specified	0.000265	
96489-71-3	OPP	Freshwater Fish Acute	Not specified	0.000360	
96489-71-3	OPP	Freshwater Vascular Plant	Not specified	0.016200	22
96489-71-3	OPP	Freshwater Nonvascular Plant	Not specified	0.665000	22

Benchmark Values for Pyridaben in Surface Water (Fresh Water)

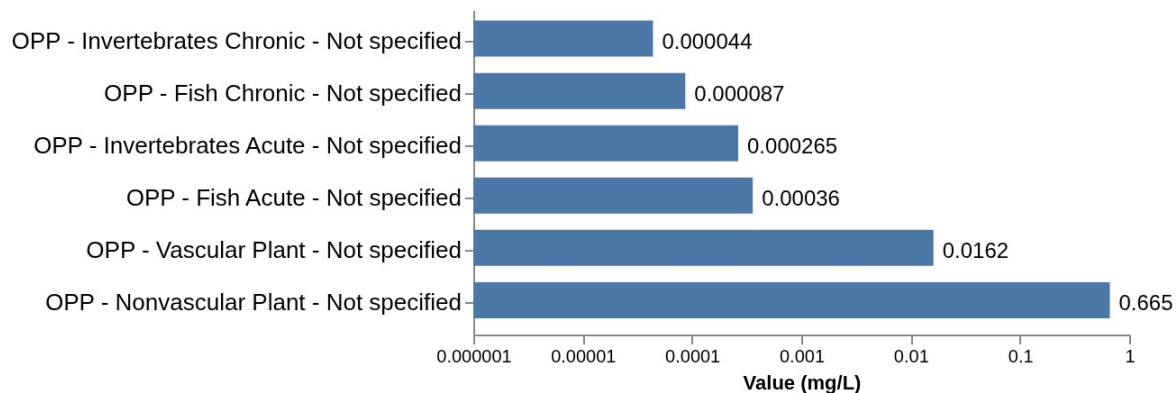


Table 856: Benchmark Values for Pyridalyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
179101-81-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0014	
179101-81-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0021	
179101-81-6	OPP	Freshwater Fish Chronic	Not specified	0.0490	
179101-81-6	OPP	Freshwater Nonvascular Plant	Not specified	0.1200	22
179101-81-6	OPP	Freshwater Fish Acute	Not specified	0.2500	

Benchmark Values for Pyridalyl in Surface Water (Fresh Water)

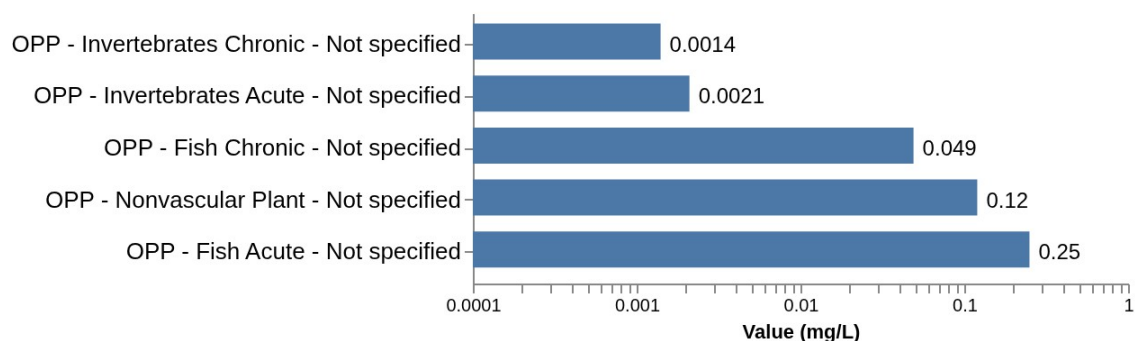


Table 857: Benchmark Values for Pyridate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
55512-33-9	OPP	Freshwater Invertebrates Acute	Not specified	0.0105	
55512-33-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0268	
55512-33-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0280	
55512-33-9	OPP	Freshwater Fish Acute	Not specified	0.1900	22
55512-33-9	OPP	Freshwater Fish Chronic	Not specified	0.1920	
55512-33-9	OPP	Freshwater Vascular Plant	Not specified	1.5000	22

Benchmark Values for Pyridate in Surface Water (Fresh Water)

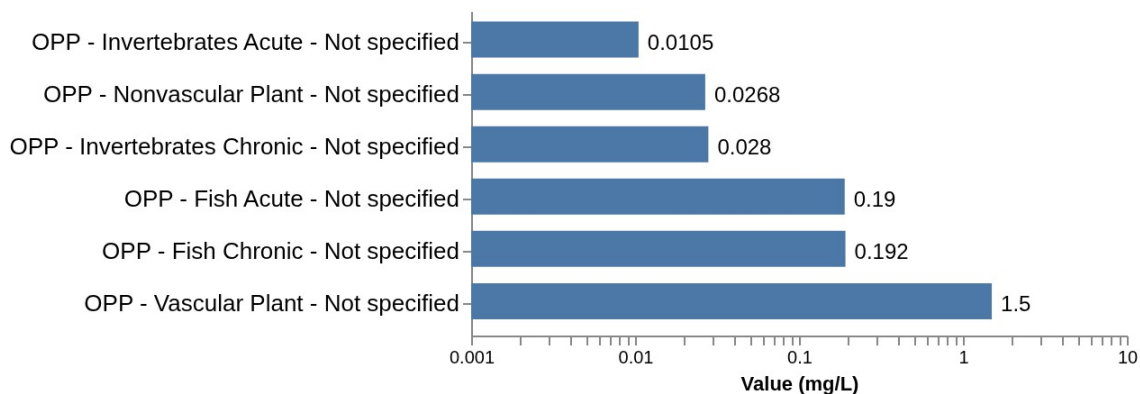


Table 858: Benchmark Values for Pyridine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
110-86-1	EPA Region 3	BTAG – Freshwater	Not specified	2.38

Benchmark Values for Pyridine in Surface Water (Fresh Water)

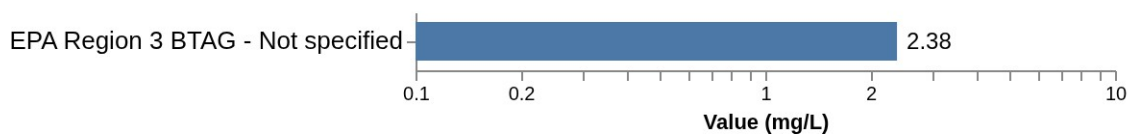


Table 859: Benchmark Values for Pyrfluquinazon degradate "IV-15" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-44-0	OPP	Freshwater Invertebrates Acute	Not specified	0.095

Benchmark Values for Pyrfluquinazon degradate "IV-15" in Surface Water (Fresh Water)

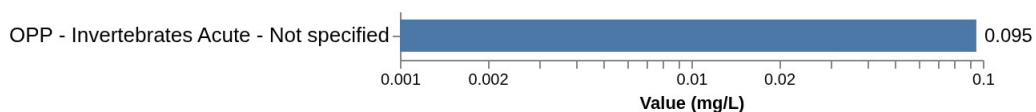


Table 860: Benchmark Values for Pyrfluquinazon degradate "IV-27" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-44-1	OPP	Freshwater Invertebrates Acute	Not specified	0.965

Benchmark Values for Pyrfluquinazon degradate "IV-27" in Surface Water (Fresh Water)

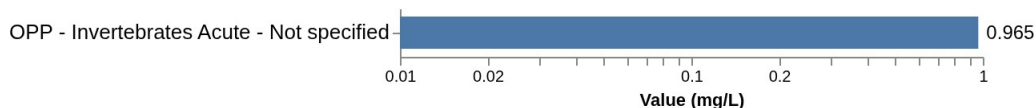


Table 861: Benchmark Values for Pyrfluquinazon degradate "IV-28" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-44-2	OPP	Freshwater Invertebrates Acute	Not specified	0.047

Benchmark Values for Pyrfluquinazon degradate "IV-28" in Surface Water (Fresh Water)

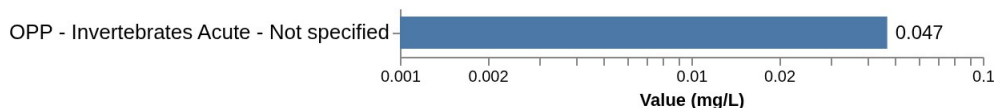


Table 862: Benchmark Values for Pyrifluquinazon degradate IV-01 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-44-3	OPP	Freshwater Invertebrates Acute	Not specified	0.0007

Benchmark Values for Pyrifluquinazon degradate IV-01 in Surface Water (Fresh Water)

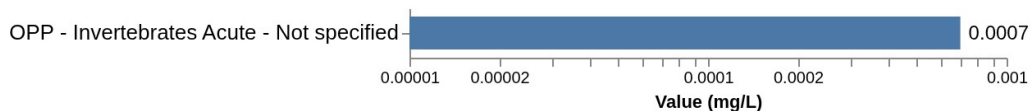


Table 863: Benchmark Values for Pyrifluquinazon degradate IV-02 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-44-4	OPP	Freshwater Invertebrates Acute	Not specified	0.00055

Benchmark Values for Pyrifluquinazon degradate IV-02 in Surface Water (Fresh Water)

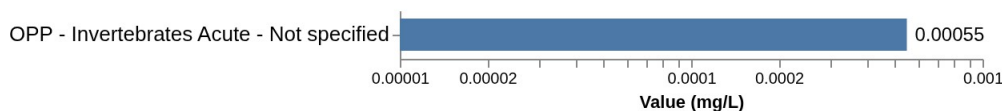


Table 864: Benchmark Values for Pyrifluquinazon degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-44-5	OPP	Freshwater Invertebrates Acute	Not specified	0.395	22

Benchmark Values for Pyrifluquinazon degradate in Surface Water (Fresh Water)

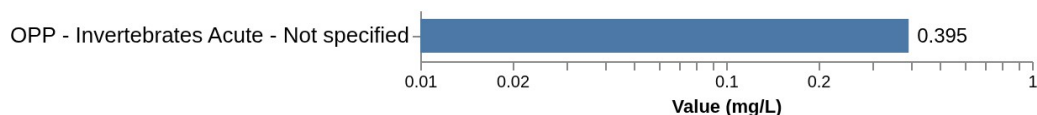


Table 865: Benchmark Values for Pyrifluquinazon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
337458-27-2	OPP	Freshwater Invertebrates Acute	Not specified	0.0014
337458-27-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.0026
337458-27-2	OPP	Freshwater Fish Chronic	Not specified	0.3100
337458-27-2	OPP	Freshwater Fish Acute	Not specified	1.9500
337458-27-2	OPP	Freshwater Nonvascular Plant	Not specified	2.7800
337458-27-2	OPP	Freshwater Vascular Plant	Not specified	14.6000

Benchmark Values for Pyrifluquinazon in Surface Water (Fresh Water)

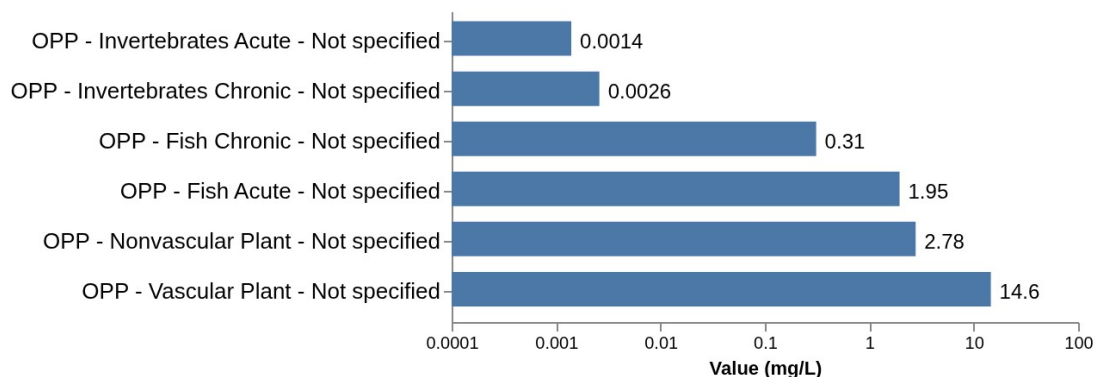


Table 866: Benchmark Values for Pyrimethanil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
53112-28-0	OPP	Freshwater Fish Chronic	Not specified	0.02
53112-28-0	OPP	Freshwater Invertebrates Chronic	Not specified	1.00
53112-28-0	OPP	Freshwater Invertebrates Acute	Not specified	1.50
53112-28-0	OPP	Freshwater Nonvascular Plant	Not specified	1.80
53112-28-0	OPP	Freshwater Fish Acute	Not specified	5.05
53112-28-0	OPP	Freshwater Vascular Plant	Not specified	7.80

Benchmark Values for Pyrimethanil in Surface Water (Fresh Water)

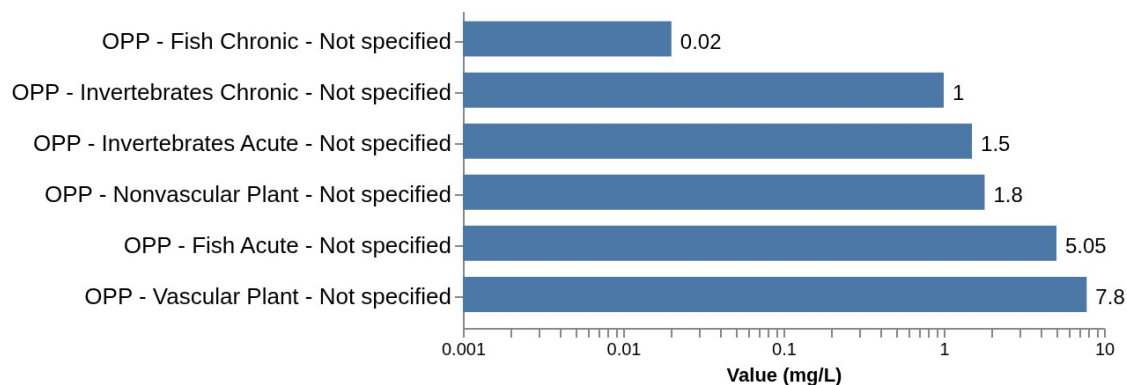


Table 867: Benchmark Values for Pyrimidine, 2-amino-4,6-dimethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
767-15-7	OPP	Freshwater Fish Acute	Not specified	48.5	22
767-15-7	OPP	Freshwater Invertebrates Acute	Not specified	49.0	22

Benchmark Values for Pyrimidine, 2-amino-4,6-dimethyl in Surface Water (Fresh Water)

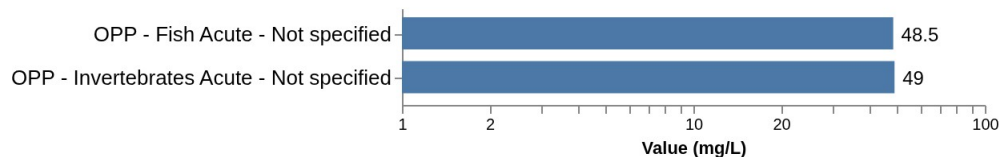


Table 868: Benchmark Values for Pyriofenone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
688046-61-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0892	
688046-61-9	OPP	Freshwater Fish Chronic	Not specified	0.4030	
688046-61-9	OPP	Freshwater Fish Acute	Not specified	0.5750	22
688046-61-9	OPP	Freshwater Vascular Plant	Not specified	1.5700	22
688046-61-9	OPP	Freshwater Nonvascular Plant	Not specified	1.6600	22

Benchmark Values for Pyriofenone in Surface Water (Fresh Water)

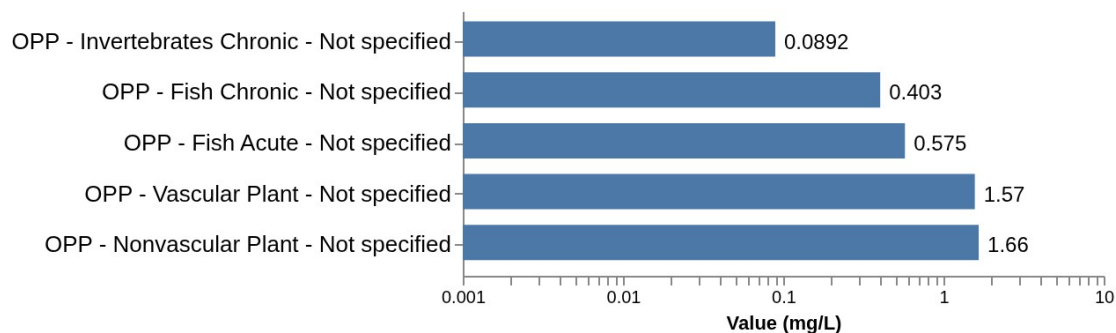


Table 869: Benchmark Values for Pyriproxyfen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95737-68-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.000015	22
95737-68-1	OPP	Freshwater Vascular Plant	Not specified	0.000180	
95737-68-1	OPP	Freshwater Fish Chronic	Not specified	0.004300	
95737-68-1	OPP	Freshwater Nonvascular Plant	Not specified	0.056000	22
95737-68-1	OPP	Freshwater Fish Acute	Not specified	0.165000	
95737-68-1	OPP	Freshwater Invertebrates Acute	Not specified	0.200000	

Benchmark Values for Pyriproxyfen in Surface Water (Fresh Water)

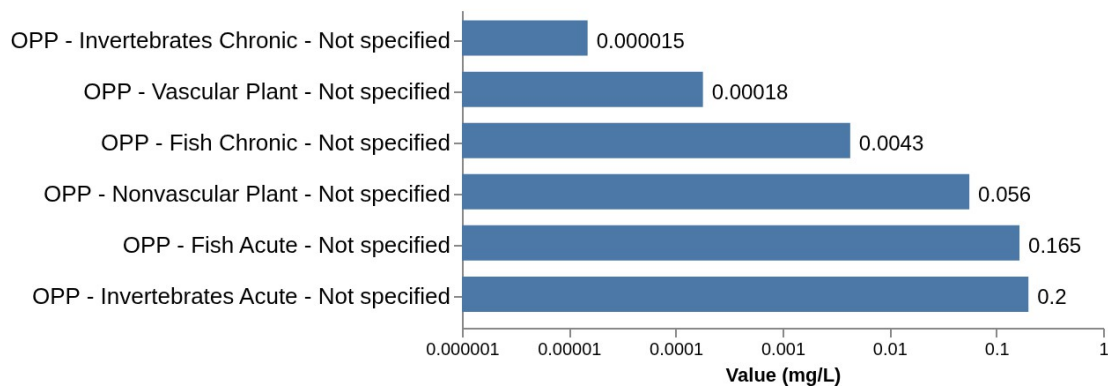


Table 870: Benchmark Values for Pyrithione, Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
15922-78-8	OPP	Freshwater Invertebrates Acute	Not specified	0.011
15922-78-8	OPP	Freshwater Fish Acute	Not specified	4.050

Benchmark Values for Pyrithione, Sodium in Surface Water (Fresh Water)

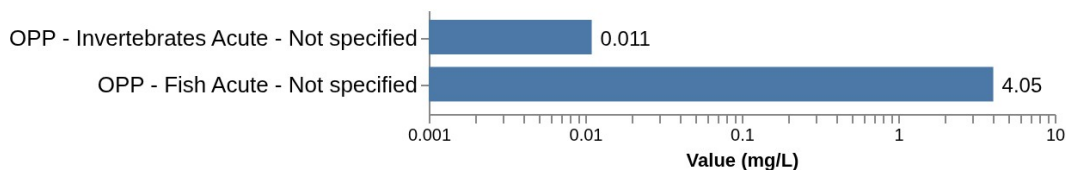


Table 871: Benchmark Values for Pyroxsulam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
422556-08-9	OPP	Freshwater Vascular Plant	Not specified	0.00257	
422556-08-9	OPP	Freshwater Nonvascular Plant	Not specified	0.11100	
422556-08-9	OPP	Freshwater Fish Chronic	Not specified	10.10000	
422556-08-9	OPP	Freshwater Invertebrates Chronic	Not specified	10.40000	
422556-08-9	OPP	Freshwater Fish Acute	Not specified	43.50000	22
422556-08-9	OPP	Freshwater Invertebrates Acute	Not specified	49.50000	22

Benchmark Values for Pyroxsulam in Surface Water (Fresh Water)

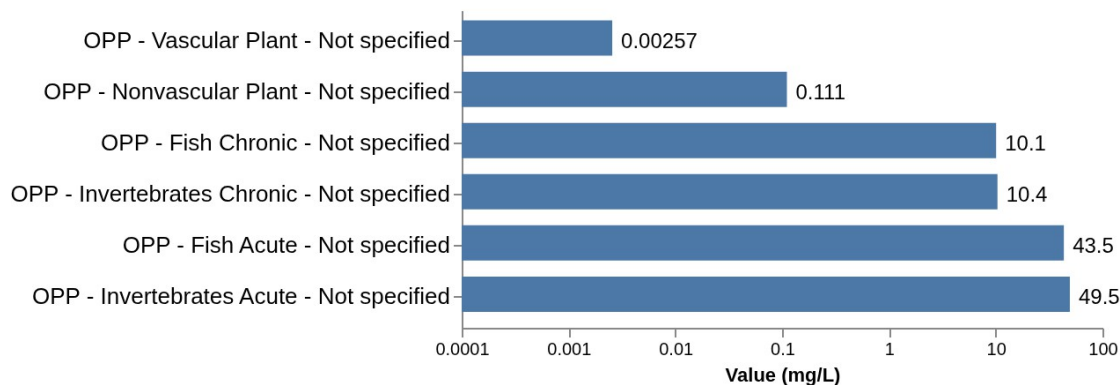


Table 872: Benchmark Values for Quaternary ammonium compounds, total in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-08-5	EPA Region 3	BTAG – Freshwater	Not specified	0.01	

Benchmark Values for Quaternary ammonium compounds, total in Surface Water (Fresh Water)

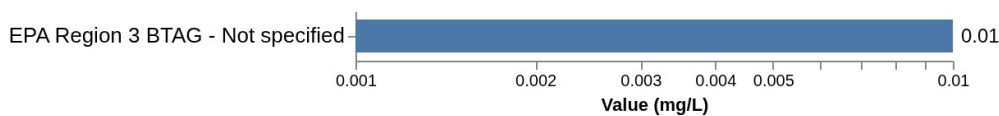


Table 873: Benchmark Values for Quinchlorac in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
84087-01-4	OPP	Freshwater Vascular Plant	Not specified	0.50	22
84087-01-4	OPP	Freshwater Nonvascular Plant	Not specified	0.50	22
84087-01-4	OPP	Freshwater Fish Acute	Not specified	15.15	
84087-01-4	OPP	Freshwater Fish Chronic	Not specified	16.00	
84087-01-4	OPP	Freshwater Invertebrates Acute	Not specified	50.00	22
84087-01-4	OPP	Freshwater Invertebrates Chronic	Not specified	110.00	

Benchmark Values for Quinchlorac in Surface Water (Fresh Water)

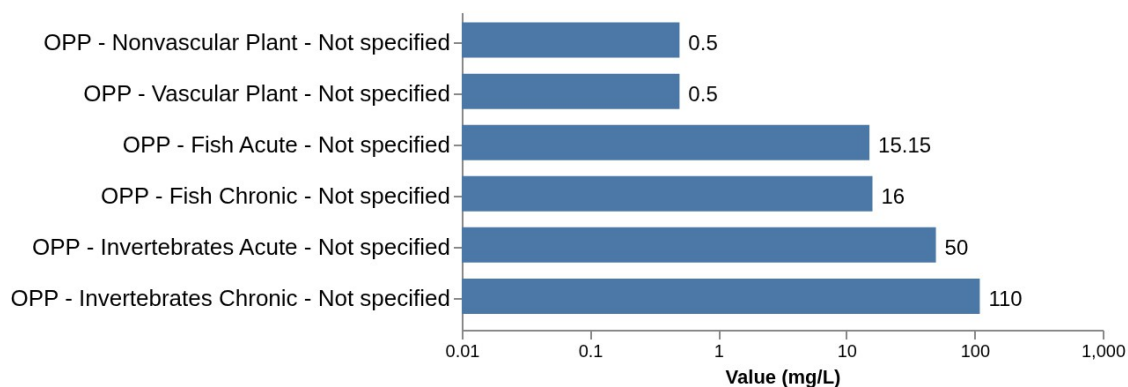


Table 874: Benchmark Values for Quinoline in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
91-22-5	Canada	Freshwater Long Term	Not specified	0.0034
91-22-5	EPA Region 4	Chronic Freshwater	Not specified	0.0034
91-22-5	EPA Region 4	Acute Freshwater	Not specified	5.6820

Benchmark Values for Quinoline in Surface Water (Fresh Water)

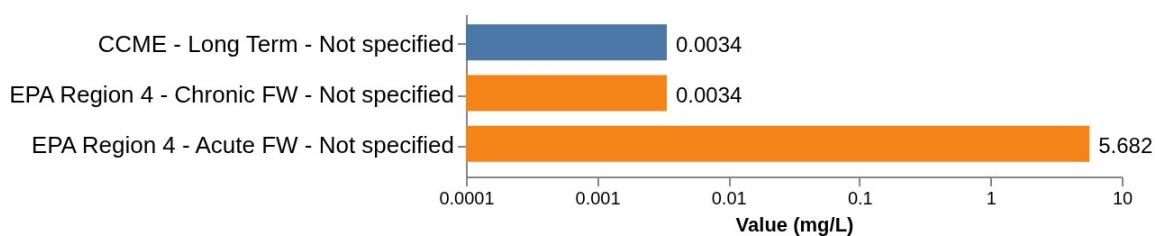


Table 875: Benchmark Values for Quinoxyfen, 2-oxo- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
878790-59-1	OPP	Freshwater Invertebrates Acute	Not specified	0.25	22

Benchmark Values for Quinoxyfen, 2-oxo- in Surface Water (Fresh Water)



Table 876: Benchmark Values for Quinoxyfen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
124495-18-7	OPP	Freshwater Fish Chronic	Not specified	0.0130	
124495-18-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.0278	
124495-18-7	OPP	Freshwater Nonvascular Plant	Not specified	0.0300	
124495-18-7	OPP	Freshwater Vascular Plant	Not specified	0.0350	22
124495-18-7	OPP	Freshwater Invertebrates Acute	Not specified	0.0415	
124495-18-7	OPP	Freshwater Fish Acute	Not specified	0.1350	

Benchmark Values for Quinoxyfen in Surface Water (Fresh Water)

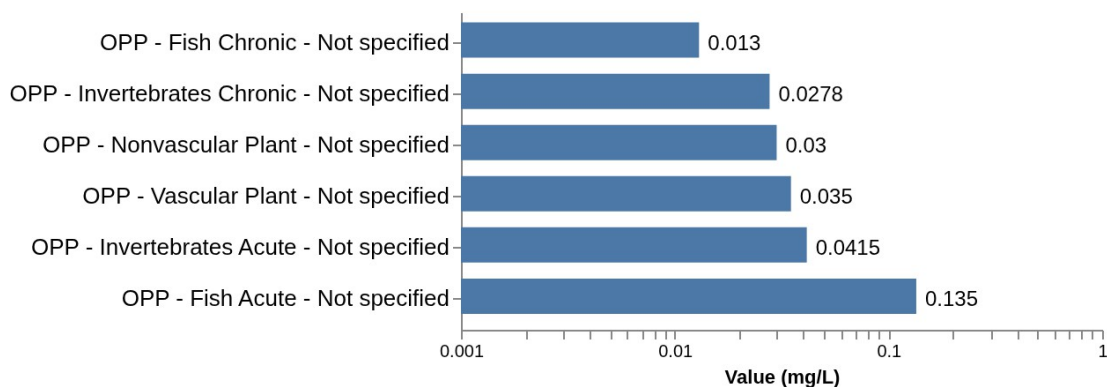


Table 877: Benchmark Values for Quizalofop-ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76578-14-8	OPP	Freshwater Fish Chronic	Not specified	0.0110	
76578-14-8	OPP	Freshwater Vascular Plant	Not specified	0.0828	22
76578-14-8	OPP	Freshwater Fish Acute	Not specified	0.2300	
76578-14-8	OPP	Freshwater Invertebrates Acute	Not specified	1.0600	
76578-14-8	OPP	Freshwater Nonvascular Plant	Not specified	1.7700	22

Benchmark Values for Quizalofop-ethyl in Surface Water (Fresh Water)

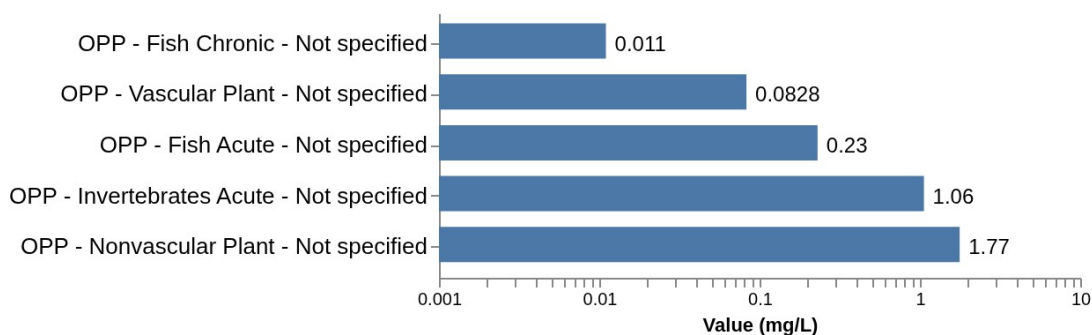


Table 878: Benchmark Values for Quizalofop-P ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
100646-51-3	OPP	Freshwater Fish Chronic	Not specified	0.0100
100646-51-3	OPP	Freshwater Vascular Plant	Not specified	0.0345
100646-51-3	OPP	Freshwater Invertebrates Acute	Not specified	0.1750
100646-51-3	OPP	Freshwater Fish Acute	Not specified	0.3600
100646-51-3	OPP	Freshwater Invertebrates Chronic	Not specified	26.6000
100646-51-3	OPP	Freshwater Nonvascular Plant	Not specified	41.0000

Benchmark Values for Quizalofop-P ethyl in Surface Water (Fresh Water)

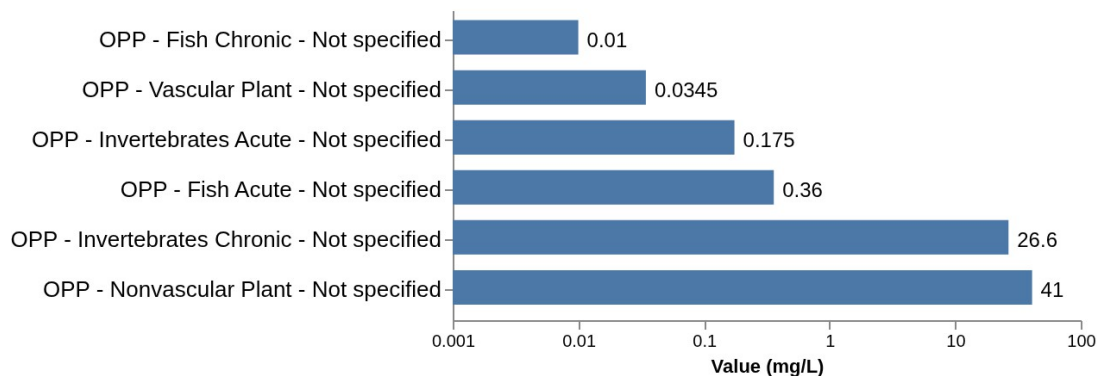


Table 879: Benchmark Values for Resin acids (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-17-3	British Columbia	Freshwater STA	Not specified	0.009	150

Benchmark Values for Resin acids (total) in Surface Water (Fresh Water)

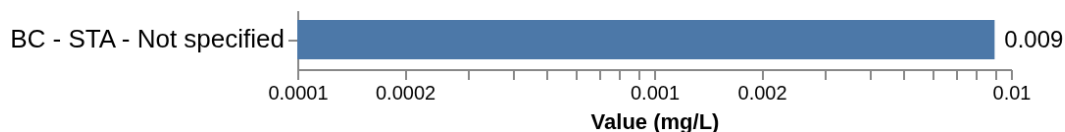


Table 880: Benchmark Values for Resmethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
10453-86-8	OPP	Freshwater Fish Acute	Not specified	0.00014
10453-86-8	OPP	Freshwater Fish Chronic	Not specified	0.00032
10453-86-8	OPP	Freshwater Invertebrates Acute	Not specified	0.00155

Benchmark Values for Resmethrin in Surface Water (Fresh Water)

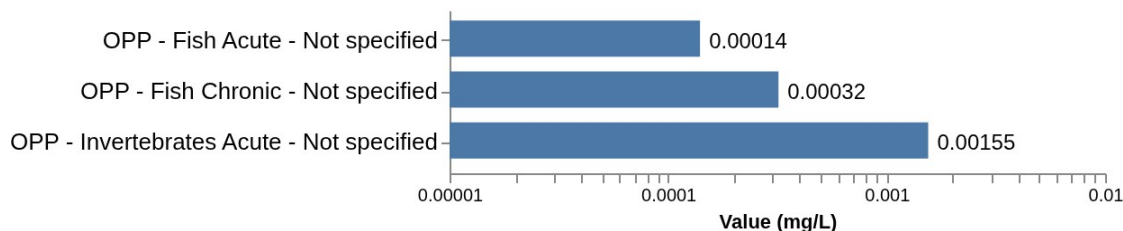


Table 881: Benchmark Values for Rimsulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122931-48-0	OPP	Freshwater Vascular Plant	Not specified	0.0116	
122931-48-0	OPP	Freshwater Nonvascular Plant	Not specified	0.0290	22
122931-48-0	OPP	Freshwater Fish Acute	Not specified	195.0000	22
122931-48-0	OPP	Freshwater Invertebrates Acute	Not specified	195.0000	22

Benchmark Values for Rimsulfuron in Surface Water (Fresh Water)

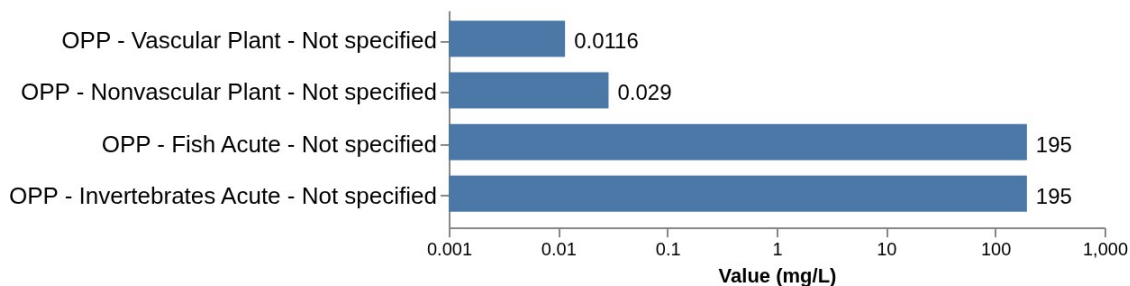


Table 882: Benchmark Values for Rotenone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
83-79-4	California	Freshwater instantaneous max	Not specified	0.01000
83-79-4	OPP	Freshwater Fish Acute	Not specified	0.00097
83-79-4	OPP	Freshwater Fish Chronic	Not specified	0.00101
83-79-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.00125
83-79-4	OPP	Freshwater Invertebrates Acute	Not specified	0.00185

Benchmark Values for Rotenone in Surface Water (Fresh Water)

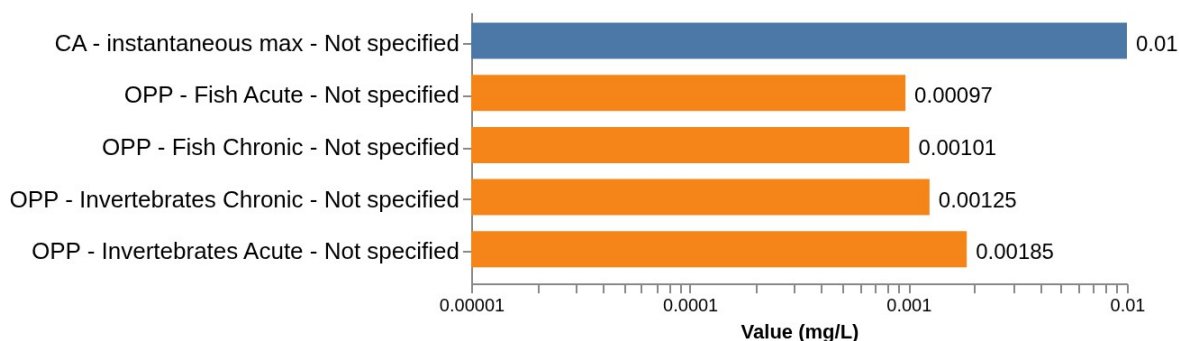


Table 883: Benchmark Values for Saflufenacil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
372137-35-4	OPP	Freshwater Nonvascular Plant	Not specified	0.042	
372137-35-4	OPP	Freshwater Vascular Plant	Not specified	0.087	
372137-35-4	OPP	Freshwater Fish Chronic	Not specified	0.997	
372137-35-4	OPP	Freshwater Invertebrates Chronic	Not specified	1.330	
372137-35-4	OPP	Freshwater Invertebrates Acute	Not specified	4.250	
372137-35-4	OPP	Freshwater Fish Acute	Not specified	54.000	22

Benchmark Values for Saflufenacil in Surface Water (Fresh Water)

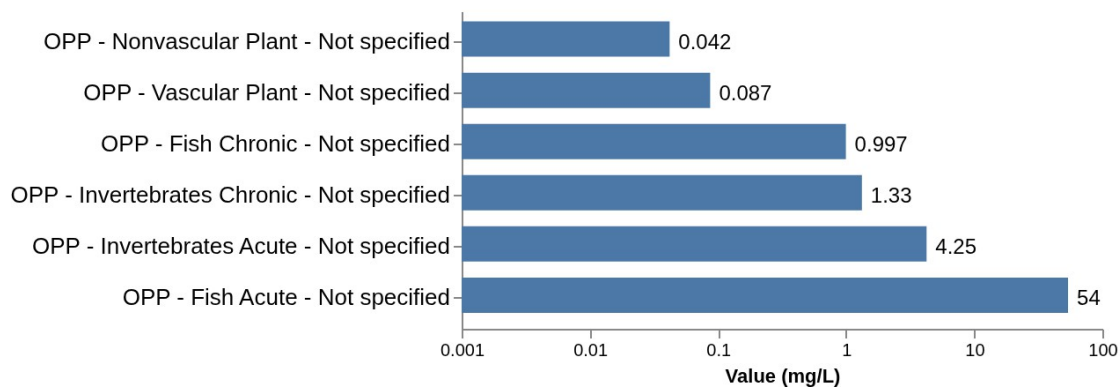


Table 884: Benchmark Values for Selenate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
14124-68-6	EPA Region 4	Chronic Freshwater	Not specified	0.009
14124-68-6	EPA Region 4	Acute Freshwater	Not specified	0.013

Benchmark Values for Selenate in Surface Water (Fresh Water)

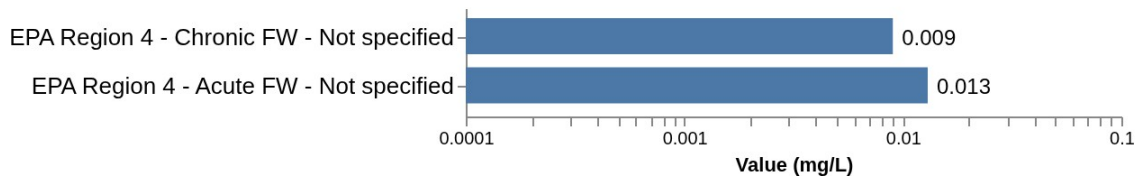


Table 885: Benchmark Values for Selenite in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
14124-67-5	EPA Region 4	Chronic Freshwater	Not specified	0.028
14124-67-5	EPA Region 4	Acute Freshwater	Not specified	0.186

Benchmark Values for Selenite in Surface Water (Fresh Water)

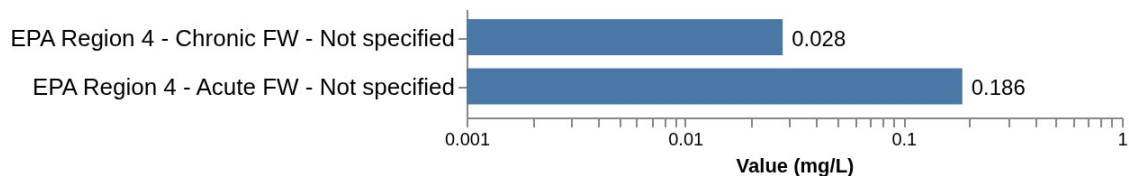


Table 886: Benchmark Values for Selenium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-49-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0050	88, 89, 97
7782-49-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0110	88, 97
7782-49-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0180	88, 97
7782-49-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0340	88, 97
7782-49-2	British Columbia	Freshwater LTC	Not specified	0.0020	
7782-49-2	California	Freshwater CCC, 4-day average	Not specified	0.0015	
7782-49-2	California	Freshwater CCC, 4-day average	Not specified	0.0050	215
7782-49-2	California	Freshwater CMC, 1-hour average	Not specified	0.0200	215, 216
7782-49-2	Canada	Freshwater Long Term	Not specified	0.0010	
7782-49-2	Delaware	Freshwater Chronic Criterion	Not specified	0.0050	
7782-49-2	Delaware	Freshwater Acute Criterion	Not specified	0.0200	
7782-49-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.0050	
7782-49-2	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.0050	
7782-49-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0010	
7782-49-2	EPA Region 4	Chronic Freshwater	Aquatic only	0.0050	1, 5, 7
7782-49-2	EPA Region 4	Acute Freshwater	Aquatic only	0.0200	1, 5, 7
7782-49-2	EPA Region 6	Freshwater Chronic	Not specified	0.0050	
7782-49-2	EPA Region 6	Freshwater Acute	Not specified	0.0200	
7782-49-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0050	
7782-49-2	New Jersey	Freshwater Chronic	Not specified	0.0050	200
7782-49-2	New Jersey	Freshwater Acute	Not specified	0.0200	200

Benchmark Values for Selenium in Surface Water (Fresh Water)

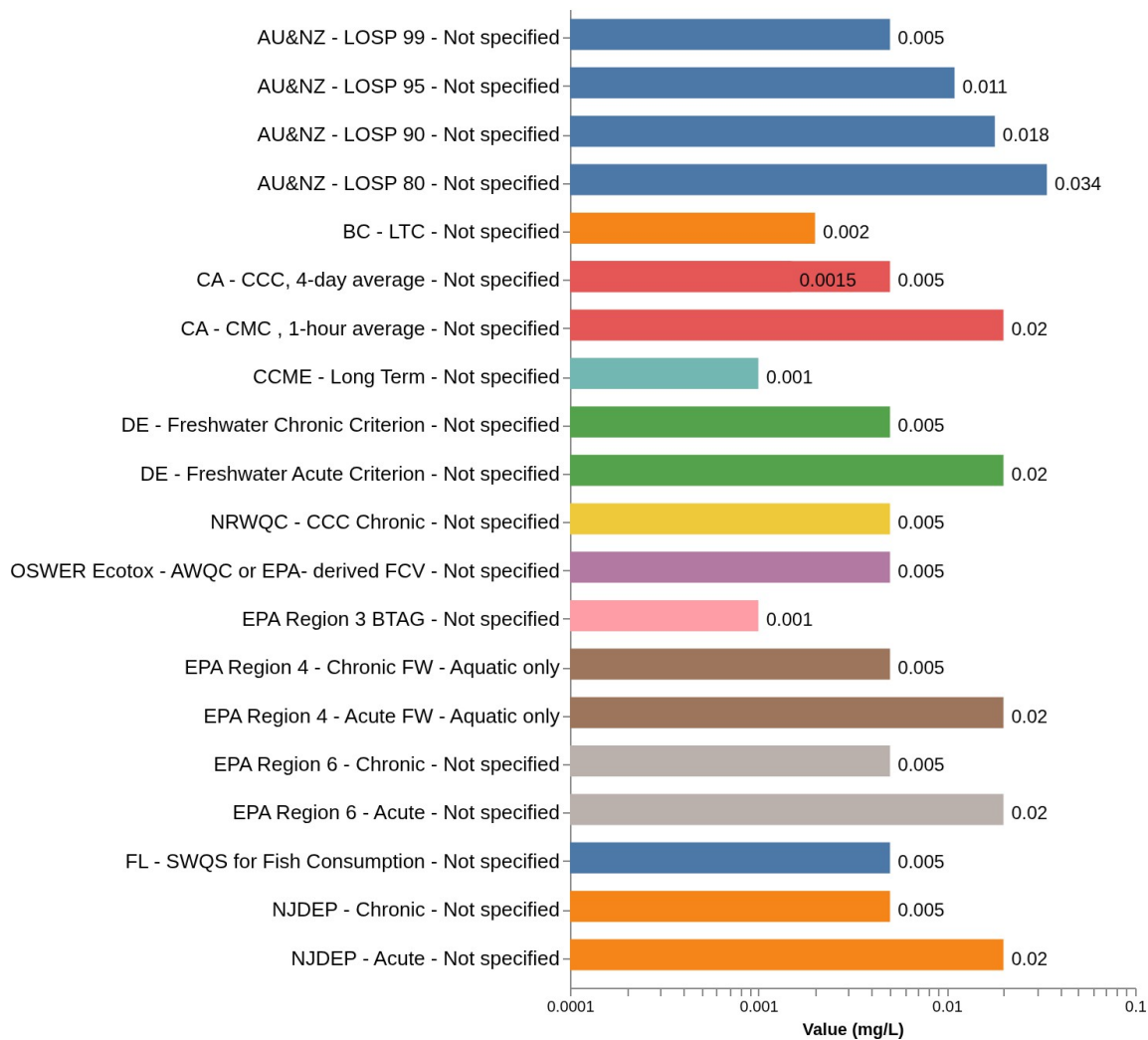


Table 887: Benchmark Values for Sethoxydim in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74051-80-2	OPP	Freshwater Vascular Plant	Not specified	0.21	22
74051-80-2	OPP	Freshwater Nonvascular Plant	Not specified	0.25	
74051-80-2	OPP	Freshwater Fish Chronic	Not specified	4.86	
74051-80-2	OPP	Freshwater Invertebrates Acute	Not specified	39.05	
74051-80-2	OPP	Freshwater Fish Acute	Not specified	85.00	

Benchmark Values for Sethoxydim in Surface Water (Fresh Water)

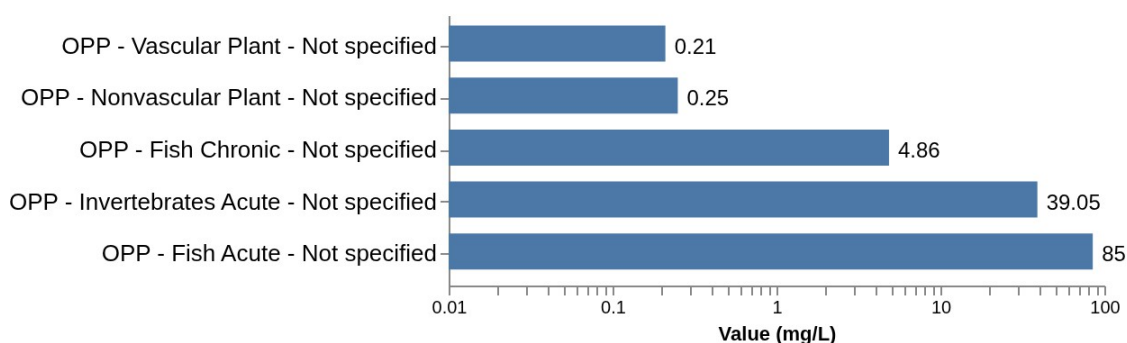


Table 888: Benchmark Values for Siduron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1982-49-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.006	22
1982-49-6	OPP	Freshwater Fish Chronic	Not specified	0.015	
1982-49-6	OPP	Freshwater Vascular Plant	Not specified	0.021	
1982-49-6	OPP	Freshwater Nonvascular Plant	Not specified	0.220	
1982-49-6	OPP	Freshwater Fish Acute	Not specified	4.050	
1982-49-6	OPP	Freshwater Invertebrates Acute	Not specified	6.850	

Benchmark Values for Siduron in Surface Water (Fresh Water)

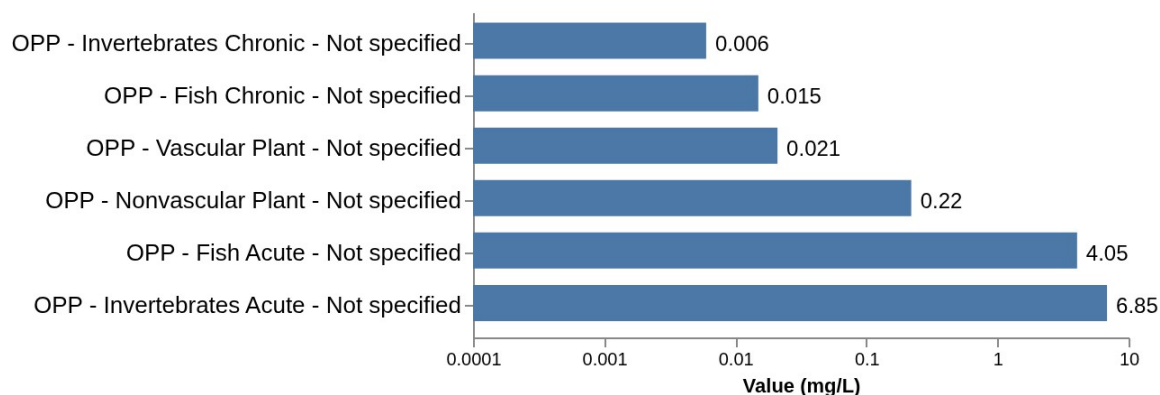
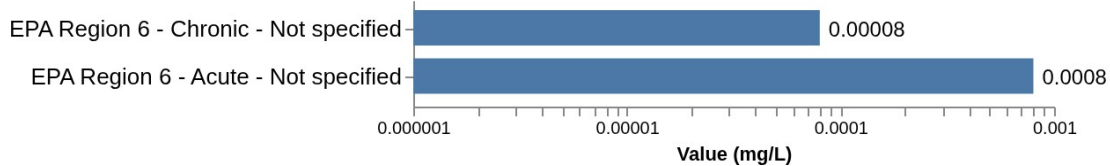


Table 889: Benchmark Values for Silver (as free ion) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14701-21-4	EPA Region 6	Freshwater Chronic	Not specified	0.00008	21, 22
14701-21-4	EPA Region 6	Freshwater Acute	Not specified	0.00080	21, 22

Benchmark Values for Silver (as free ion) in Surface Water (Fresh Water)**Table 890: Benchmark Values for Silver in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-22-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	2e-05	87
7440-22-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	5e-05	87, 89
7440-22-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0001	87
7440-22-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0002	87, 94
7440-22-4	British Columbia	Freshwater LTC	Not specified	5e-05	131
7440-22-4	British Columbia	Freshwater STA	Not specified	0.0001	
7440-22-4	Canada	Freshwater Long Term	Not specified	0.00025	
7440-22-4	Delaware	Freshwater Acute Criterion	Not specified		236, 251
7440-22-4	EPA NRWQC	Freshwater CMC Acute	Not specified	0.0032	
7440-22-4	EPA Region 3	BTAG – Freshwater	Not specified	0.0032	
7440-22-4	EPA Region 4	Chronic Freshwater	Not specified	6e-05	1, 2
7440-22-4	EPA Region 4	Acute Freshwater	Not specified	0.00098	1, 2
7440-22-4	EPA Region 6	Freshwater Chronic	Not specified	0.0001	21
7440-22-4	EPA Region 6	Freshwater Acute	Not specified	0.001	21
7440-22-4	Florida	SWQS for Fish Consumption Freshwater	Not specified	7e-05	
7440-22-4	New Jersey	Freshwater Acute	Not specified	0.003217	202

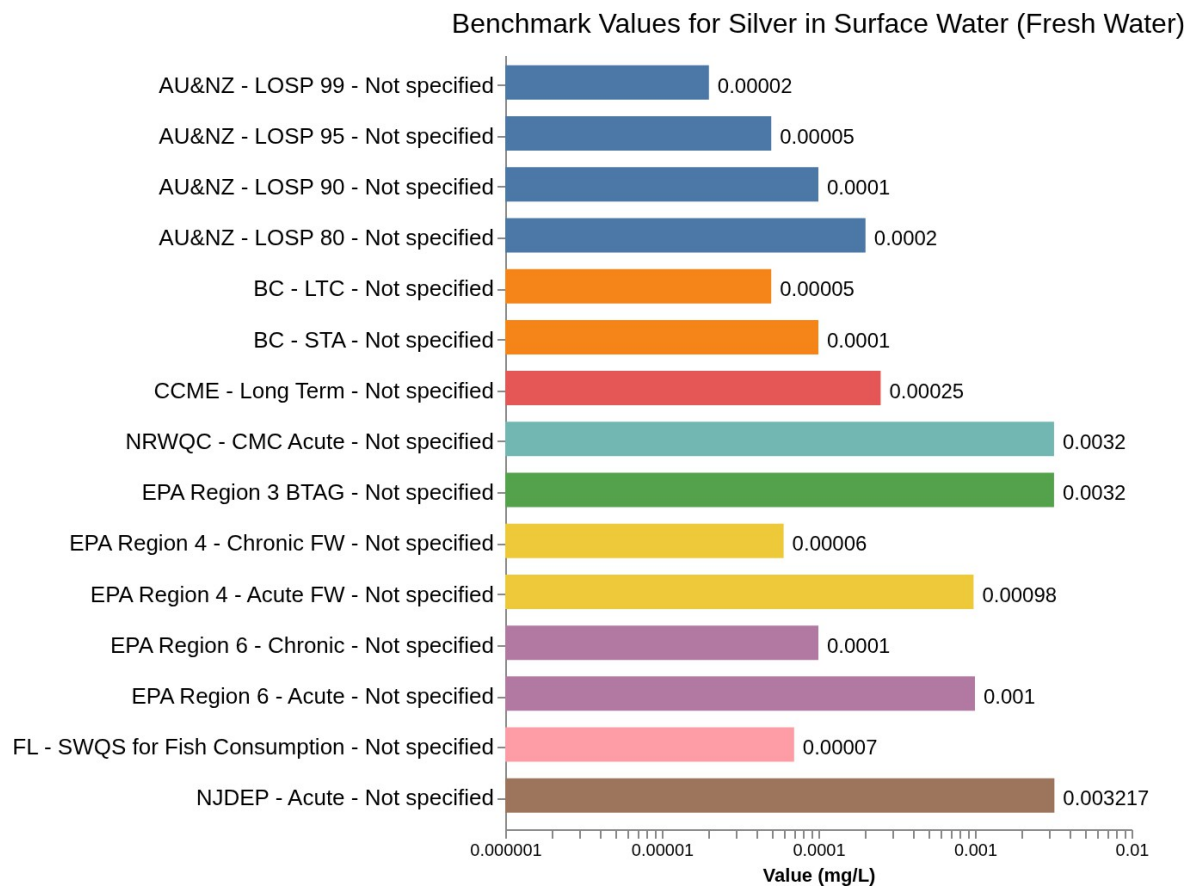


Table 891: Benchmark Values for Simazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
122-34-9	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0002	88
122-34-9	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0032	88, 89
122-34-9	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0110	88
122-34-9	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0350	88
122-34-9	California	Freshwater instantaneous max	Not specified	0.0100	
122-34-9	Canada	Freshwater Long Term	Not specified	0.0100	
122-34-9	EPA Region 4	Chronic Freshwater	Not specified	0.0090	
122-34-9	OPP	Freshwater Nonvascular Plant	Not specified	0.0060	
122-34-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0400	
122-34-9	OPP	Freshwater Fish Chronic	Not specified	0.0600	
122-34-9	OPP	Freshwater Vascular Plant	Not specified	0.0670	
122-34-9	OPP	Freshwater Invertebrates Acute	Not specified	0.5000	
122-34-9	OPP	Freshwater Fish Acute	Not specified	3.2000	

Benchmark Values for Simazine in Surface Water (Fresh Water)

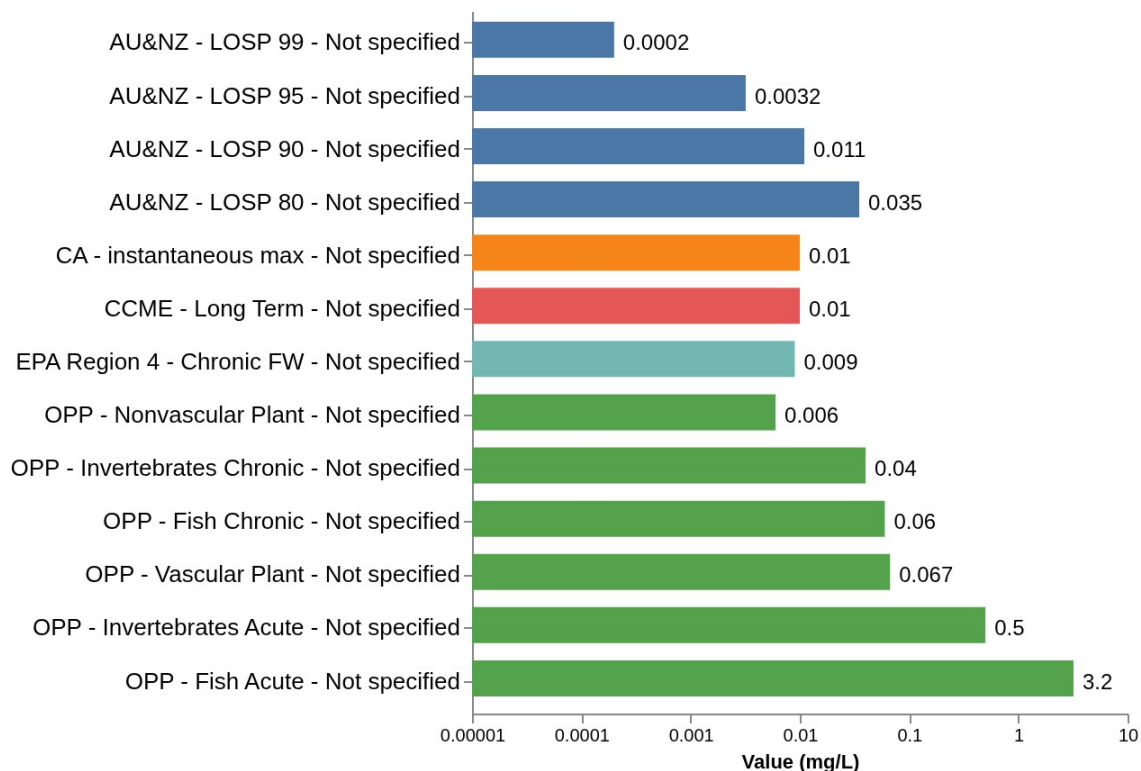


Table 892: Benchmark Values for Sodium Acifluorfen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
62476-59-9	OPP	Freshwater Nonvascular Plant	Not specified	0.355	22
62476-59-9	OPP	Freshwater Vascular Plant	Not specified	0.378	
62476-59-9	OPP	Freshwater Fish Chronic	Not specified	3.400	23
62476-59-9	OPP	Freshwater Fish Acute	Not specified	8.500	
62476-59-9	OPP	Freshwater Invertebrates Acute	Not specified	14.050	

Benchmark Values for Sodium Acifluorfen in Surface Water (Fresh Water)

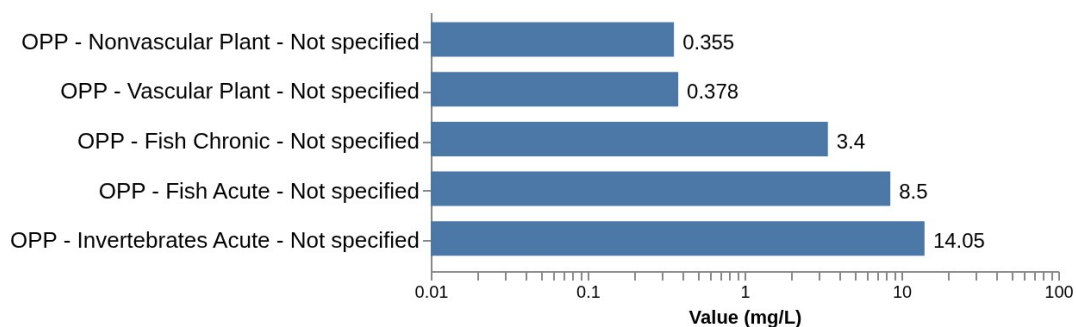


Table 893: Benchmark Values for Sodium Arsenite in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7784-46-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.370
7784-46-5	OPP	Freshwater Invertebrates Acute	Not specified	2.445

Benchmark Values for Sodium Arsenite in Surface Water (Fresh Water)

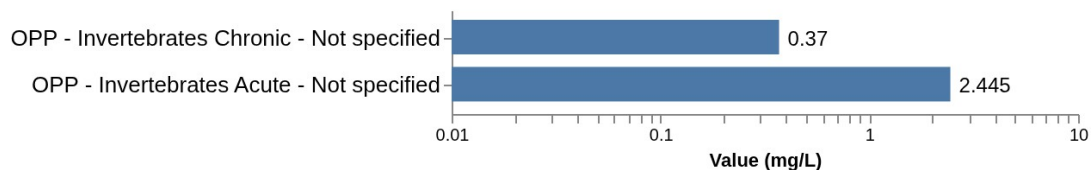


Table 894: Benchmark Values for Sodium Chlorate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7775-09-9	OPP	Freshwater Nonvascular Plant	Not specified	0.81
7775-09-9	OPP	Freshwater Vascular Plant	Not specified	133.00
7775-09-9	OPP	Freshwater Invertebrates Acute	Not specified	460.00
7775-09-9	OPP	Freshwater Invertebrates Chronic	Not specified	500.00
7775-09-9	OPP	Freshwater Fish Acute	Not specified	2889.00

Benchmark Values for Sodium Chlorate in Surface Water (Fresh Water)

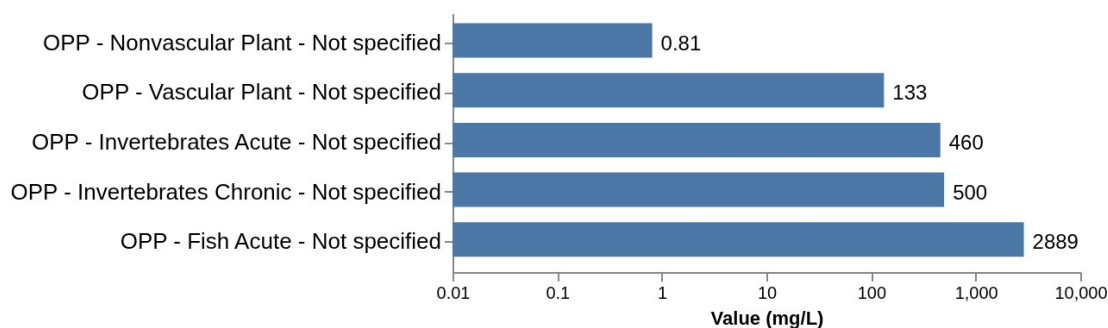


Table 895: Benchmark Values for Sodium Cyanide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
143-33-9	OPP	Freshwater Fish Acute	Not specified	0.094

Benchmark Values for Sodium Cyanide in Surface Water (Fresh Water)

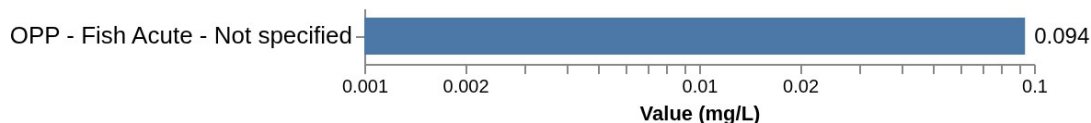


Table 896: Benchmark Values for Sodium Fluoroacetate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
62-74-8	OPP	Freshwater Fish Acute	Not specified	27.0
62-74-8	OPP	Freshwater Invertebrates Acute	Not specified	175.3

Benchmark Values for Sodium Fluoroacetate in Surface Water (Fresh Water)

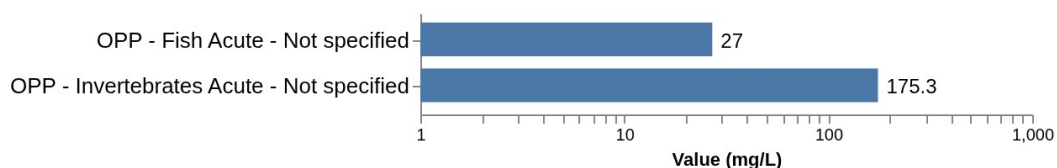


Table 897: Benchmark Values for Sodium perfluorooctanesulfonate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
4021-47-0	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
4021-47-0	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	

Benchmark Values for Sodium perfluorooctanesulfonate in Surface Water (Fresh Water)

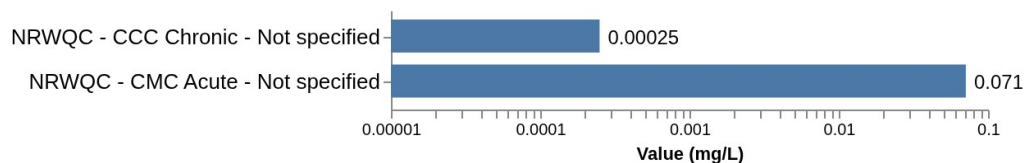


Table 898: Benchmark Values for Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-23-5	EPA Region 3	BTAG – Freshwater	Not specified	680
7440-23-5	EPA Region 4	Chronic Freshwater	Not specified	680

Benchmark Values for Sodium in Surface Water (Fresh Water)

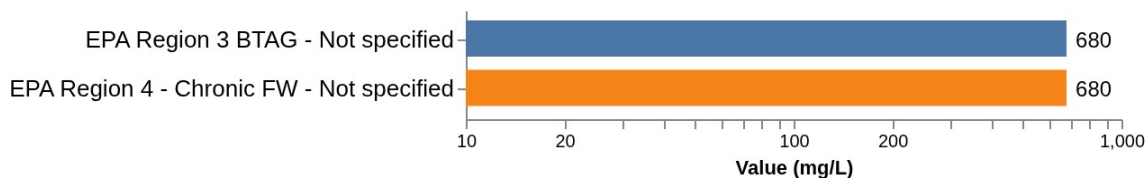


Table 899: Benchmark Values for Spinosad in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
168316-95-8	OPP	Freshwater Nonvascular Plant	Not specified	0.090
168316-95-8	OPP	Freshwater Fish Chronic	Not specified	0.498
168316-95-8	OPP	Freshwater Fish Acute	Not specified	2.970
168316-95-8	OPP	Freshwater Invertebrates Acute	Not specified	7.000
168316-95-8	OPP	Freshwater Vascular Plant	Not specified	10.600

Benchmark Values for Spinosad in Surface Water (Fresh Water)

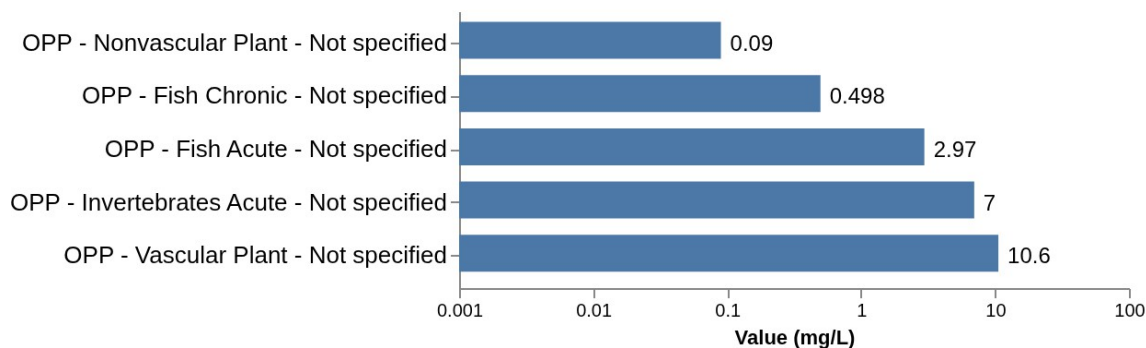


Table 900: Benchmark Values for Spirodiclofen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
148477-71-8	OPP	Freshwater Fish Chronic	Not specified	0.00381	
148477-71-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.01110	
148477-71-8	OPP	Freshwater Fish Acute	Not specified	0.01755	22
148477-71-8	OPP	Freshwater Invertebrates Acute	Not specified	0.02275	22
148477-71-8	OPP	Freshwater Nonvascular Plant	Not specified	0.06000	22
148477-71-8	OPP	Freshwater Vascular Plant	Not specified	0.06380	22

Benchmark Values for Spirodiclofen in Surface Water (Fresh Water)

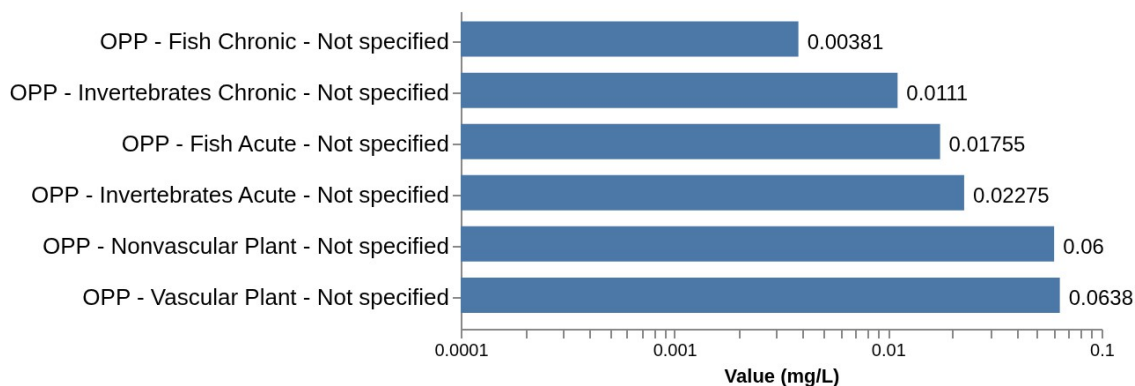


Table 901: Benchmark Values for Spiromesifen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
283594-90-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.00025	
283594-90-1	OPP	Freshwater Fish Chronic	Not specified	0.00473	
283594-90-1	OPP	Freshwater Fish Acute	Not specified	0.00840	
283594-90-1	OPP	Freshwater Nonvascular Plant	Not specified	0.03320	22
283594-90-1	OPP	Freshwater Invertebrates Acute	Not specified	0.04615	22
283594-90-1	OPP	Freshwater Vascular Plant	Not specified	0.10130	22

Benchmark Values for Spiromesifen in Surface Water (Fresh Water)

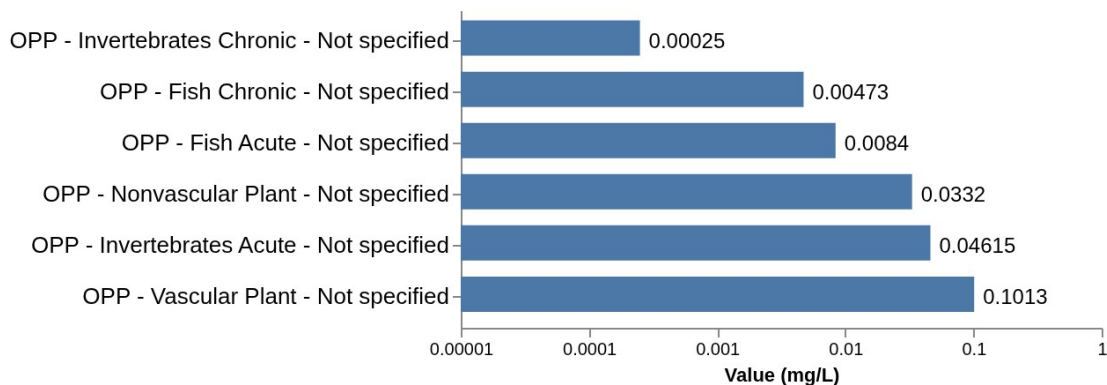


Table 902: Benchmark Values for Spiromesifen-enol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
148476-30-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.00025	
148476-30-6	OPP	Freshwater Fish Chronic	Not specified	0.00473	
148476-30-6	OPP	Freshwater Fish Acute	Not specified	0.00840	
148476-30-6	OPP	Freshwater Nonvascular Plant	Not specified	0.01620	22
148476-30-6	OPP	Freshwater Invertebrates Acute	Not specified	0.04615	22

Benchmark Values for Spiromesifen-enol in Surface Water (Fresh Water)

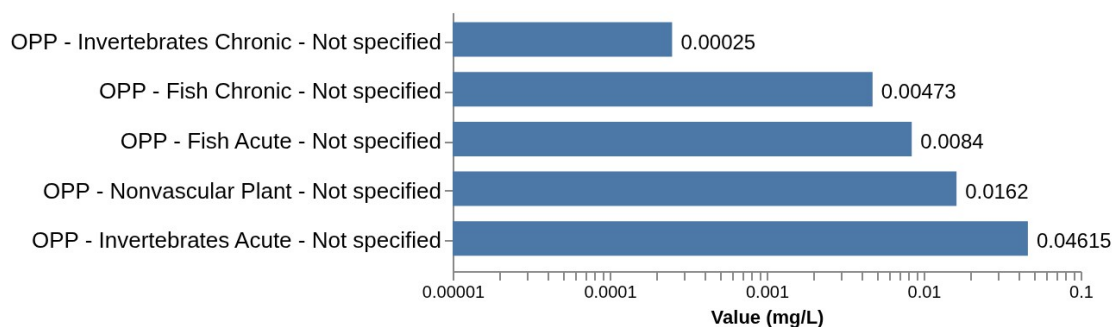


Table 903: Benchmark Values for Spirotetramat enol degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-44-6	OPP	Freshwater Vascular Plant	Not specified	5.40	
000000-44-6	OPP	Freshwater Invertebrates Acute	Not specified	37.45	
000000-44-6	OPP	Freshwater Fish Acute	Not specified	50.00	22
000000-44-6	OPP	Freshwater Nonvascular Plant	Not specified	100.00	22

Benchmark Values for Spirotetramat enol degradate in Surface Water (Fresh Water)

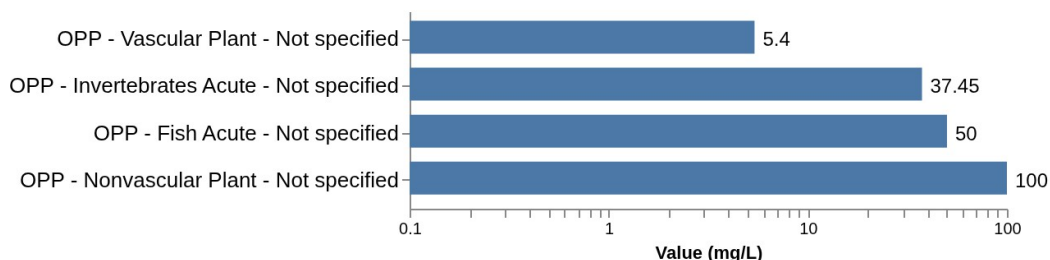


Table 904: Benchmark Values for Spirotetramat keto hydroxy degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-44-7	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22

Benchmark Values for Spirotetramat keto hydroxy degradate in Surface Water (Fresh Water)

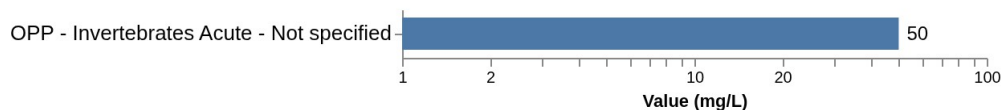


Table 905: Benchmark Values for Spirotetramat in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
203313-25-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.100
203313-25-1	OPP	Freshwater Invertebrates Acute	Not specified	0.330
203313-25-1	OPP	Freshwater Nonvascular Plant	Not specified	0.360
203313-25-1	OPP	Freshwater Fish Chronic	Not specified	0.534
203313-25-1	OPP	Freshwater Fish Acute	Not specified	0.705
203313-25-1	OPP	Freshwater Vascular Plant	Not specified	4.490

Benchmark Values for Spirotetramat in Surface Water (Fresh Water)

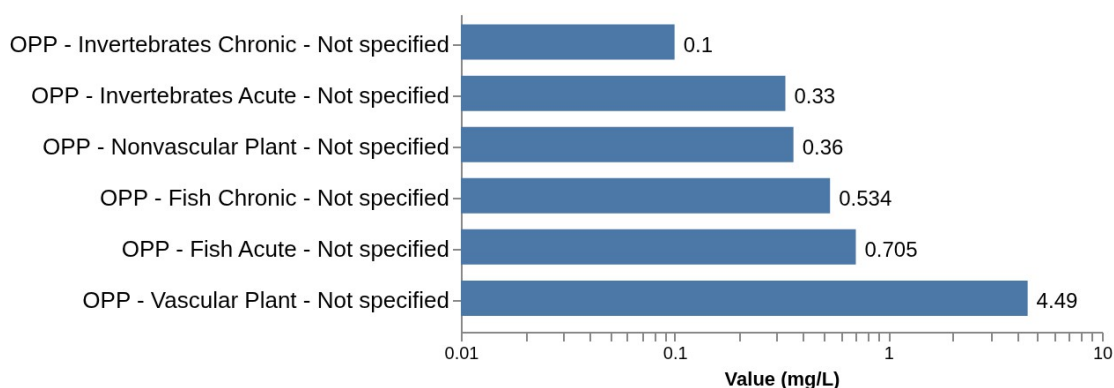


Table 906: Benchmark Values for Stirofos (Tetrachlorovinphos) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
961-11-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000125	
961-11-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000950	
961-11-5	OPP	Freshwater Fish Chronic	Not specified	0.047000	
961-11-5	OPP	Freshwater Fish Acute	Not specified	0.265000	
961-11-5	OPP	Freshwater Nonvascular Plant	Not specified	3.200000	
961-11-5	OPP	Freshwater Vascular Plant	Not specified	4.625000	22

Benchmark Values for Stirofos (Tetrachlorovinphos) in Surface Water (Fresh Water)

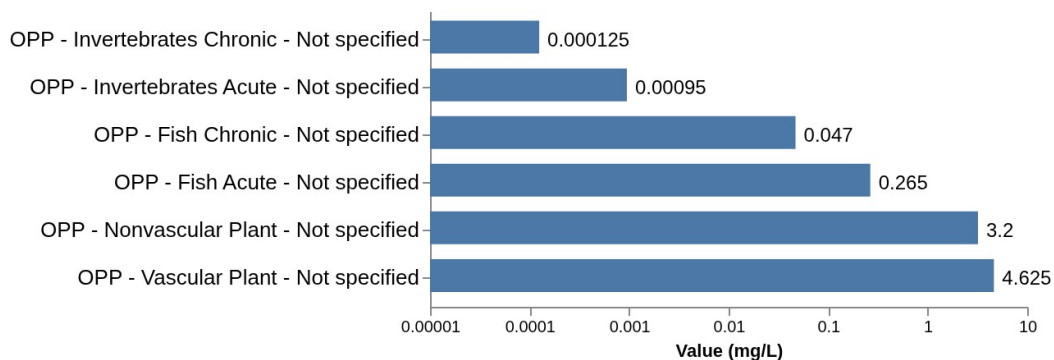


Table 907: Benchmark Values for Streptomycin Sesquisulfate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3810-74-0	OPP	Freshwater Nonvascular Plant	Not specified	0.007	
3810-74-0	OPP	Freshwater Vascular Plant	Not specified	1.000	22
3810-74-0	OPP	Freshwater Invertebrates Chronic	Not specified	12.200	
3810-74-0	OPP	Freshwater Fish Chronic	Not specified	14.400	
3810-74-0	OPP	Freshwater Invertebrates Acute	Not specified	21.000	
3810-74-0	OPP	Freshwater Fish Acute	Not specified	90.000	22

Benchmark Values for Streptomycin Sesquisulfate in Surface Water (Fresh Water)

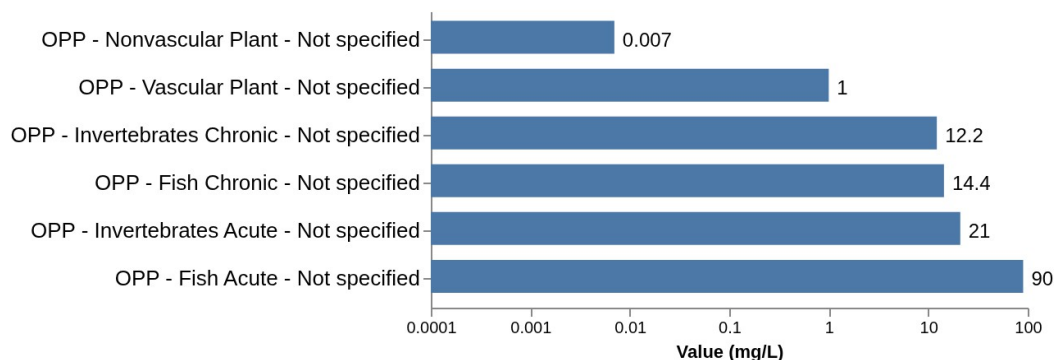


Table 908: Benchmark Values for Strontium, Stable in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-24-6	EPA Region 3	BTAG – Freshwater	Not specified	1.50
7440-24-6	EPA Region 4	Chronic Freshwater	Not specified	5.30
7440-24-6	EPA Region 4	Acute Freshwater	Not specified	48.00
7440-24-6	EPA Region 6	Freshwater Chronic	Not specified	10.70
7440-24-6	EPA Region 6	Freshwater Acute	Not specified	14.53

Benchmark Values for Strontium, Stable in Surface Water (Fresh Water)

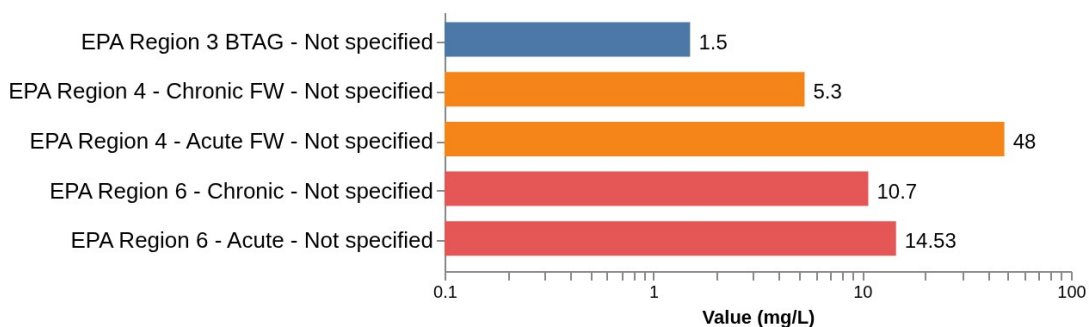


Table 909: Benchmark Values for Strychnine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-24-9	OPP	Freshwater Fish Acute	Not specified	38.01
57-24-9	OPP	Freshwater Invertebrates Acute	Not specified	530.01

Benchmark Values for Strychnine in Surface Water (Fresh Water)

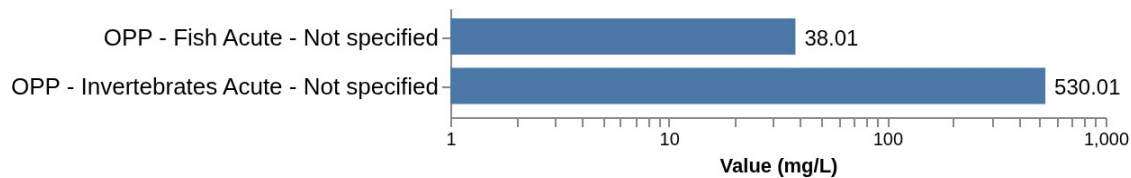


Table 910: Benchmark Values for Styrene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
100-42-5	Canada	Freshwater Long Term	Not specified	0.072
100-42-5	EPA Region 3	BTAG – Freshwater	Not specified	0.072
100-42-5	EPA Region 4	Chronic Freshwater	Not specified	0.032
100-42-5	EPA Region 4	Acute Freshwater	Not specified	0.290
100-42-5	EPA Region 6	Freshwater Chronic	Not specified	1.250
100-42-5	EPA Region 6	Freshwater Acute	Not specified	7.515

Benchmark Values for Styrene in Surface Water (Fresh Water)

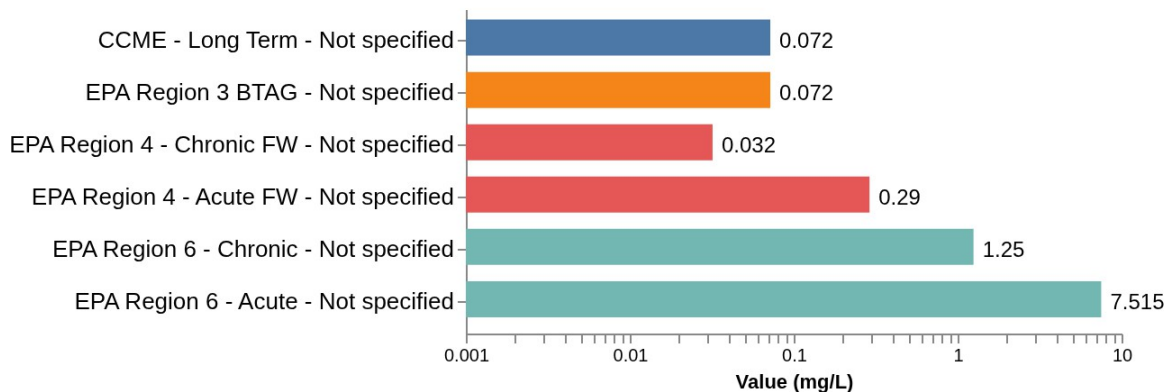


Table 911: Benchmark Values for Sulfate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14808-79-8	British Columbia	Freshwater LTC	Not specified	128.0	132

Benchmark Values for Sulfate in Surface Water (Fresh Water)

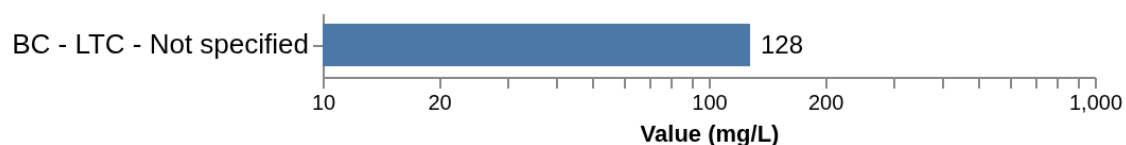


Table 912: Benchmark Values for Sulfentrazone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
122836-35-5	OPP	Freshwater Vascular Plant	Not specified	0.0288
122836-35-5	OPP	Freshwater Nonvascular Plant	Not specified	0.0310
122836-35-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.2000
122836-35-5	OPP	Freshwater Fish Chronic	Not specified	2.9500
122836-35-5	OPP	Freshwater Invertebrates Acute	Not specified	30.2000
122836-35-5	OPP	Freshwater Fish Acute	Not specified	46.9000

Benchmark Values for Sulfentrazone in Surface Water (Fresh Water)

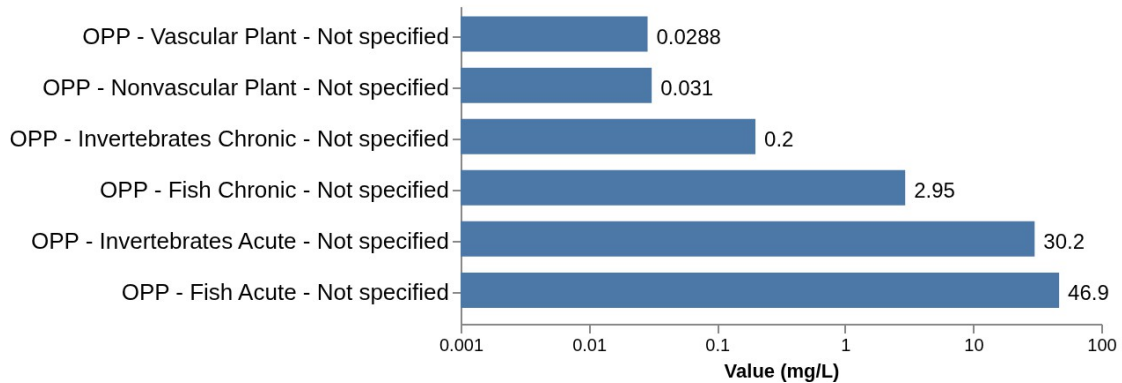


Table 913: Benchmark Values for Sulfite in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
14265-45-3	EPA Region 3	BTAG – Freshwater	Not specified	0.2
14265-45-3	EPA Region 4	Chronic Freshwater	Not specified	0.2

Benchmark Values for Sulfite in Surface Water (Fresh Water)

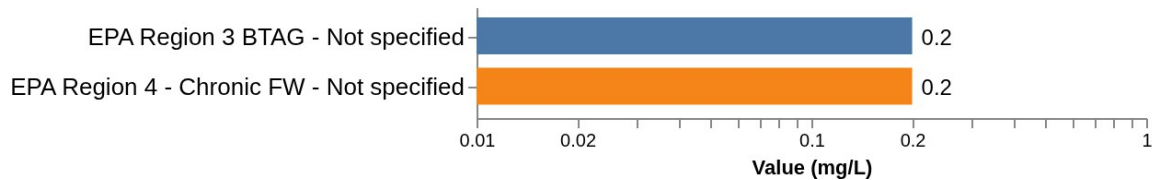


Table 914: Benchmark Values for Sulfolane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
126-33-0	British Columbia	Freshwater LTC	Not specified	50.0
126-33-0	Canada	Freshwater Long Term	Not specified	50.0

Benchmark Values for Sulfolane in Surface Water (Fresh Water)

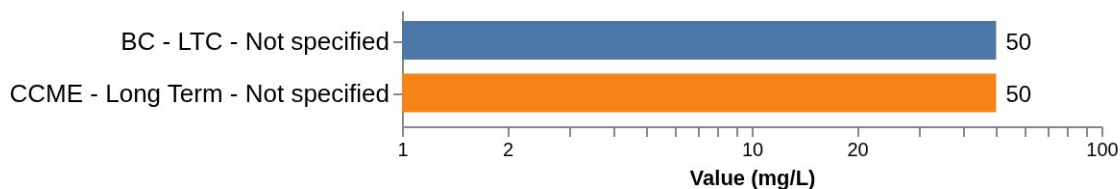


Table 915: Benchmark Values for Sulfometuron Me in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74222-97-2	OPP	Freshwater Vascular Plant	Not specified	0.00045	
74222-97-2	OPP	Freshwater Nonvascular Plant	Not specified	0.00430	
74222-97-2	OPP	Freshwater Fish Acute	Not specified	74.00000	22
74222-97-2	OPP	Freshwater Invertebrates Acute	Not specified	75.00000	22
74222-97-2	OPP	Freshwater Invertebrates Chronic	Not specified	97.00000	

Benchmark Values for Sulfometuron Me in Surface Water (Fresh Water)

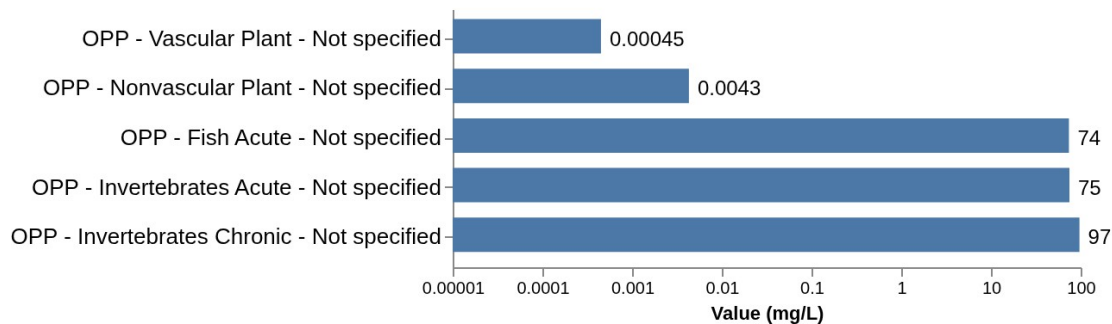


Table 916: Benchmark Values for Sulfosulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
141776-32-1	OPP	Freshwater Vascular Plant	Not specified	0.001	
141776-32-1	OPP	Freshwater Nonvascular Plant	Not specified	0.310	
141776-32-1	OPP	Freshwater Fish Acute	Not specified	46.800	22
141776-32-1	OPP	Freshwater Invertebrates Acute	Not specified	47.300	22
141776-32-1	OPP	Freshwater Fish Chronic	Not specified	100.000	
141776-32-1	OPP	Freshwater Invertebrates Chronic	Not specified	102.000	

Benchmark Values for Sulfosulfuron in Surface Water (Fresh Water)

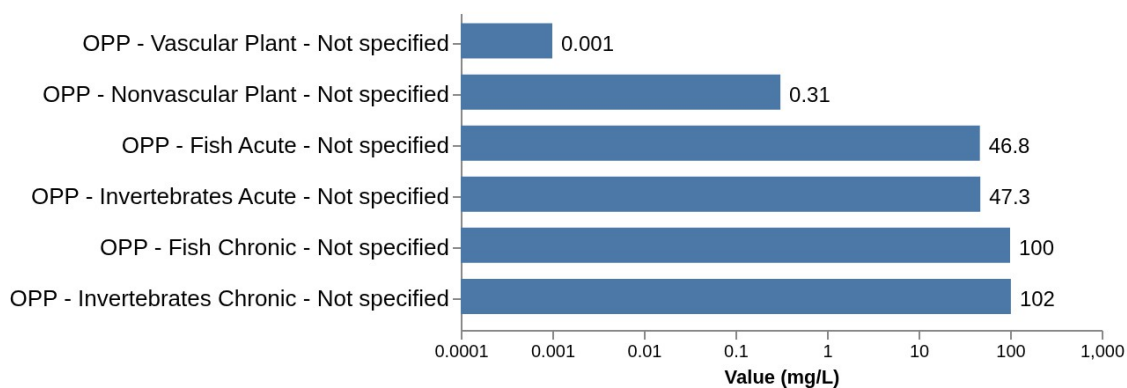


Table 917: Benchmark Values for Sulfoxaflor degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-44-8	OPP	Freshwater Invertebrates Acute	Not specified	102.5	22
000000-44-8	OPP	Freshwater Fish Acute	Not specified	239.0	22

Benchmark Values for Sulfoxaflor degradate in Surface Water (Fresh Water)

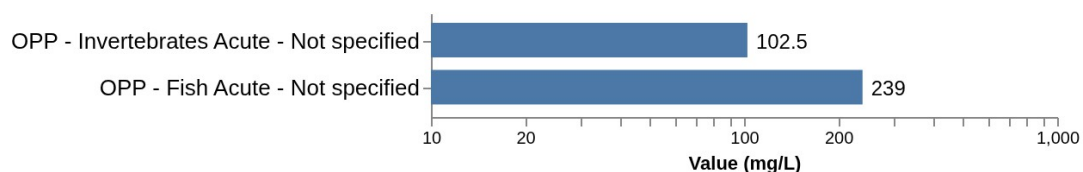


Table 918: Benchmark Values for Sulfoxaflor in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
946578-00-3	OPP	Freshwater Fish Chronic	Not specified	0.66	
946578-00-3	OPP	Freshwater Invertebrates Chronic	Not specified	50.50	
946578-00-3	OPP	Freshwater Nonvascular Plant	Not specified	81.20	
946578-00-3	OPP	Freshwater Vascular Plant	Not specified	99.00	22
946578-00-3	OPP	Freshwater Invertebrates Acute	Not specified	100.00	22
946578-00-3	OPP	Freshwater Fish Acute	Not specified	181.50	22

Benchmark Values for Sulfoxaflor in Surface Water (Fresh Water)

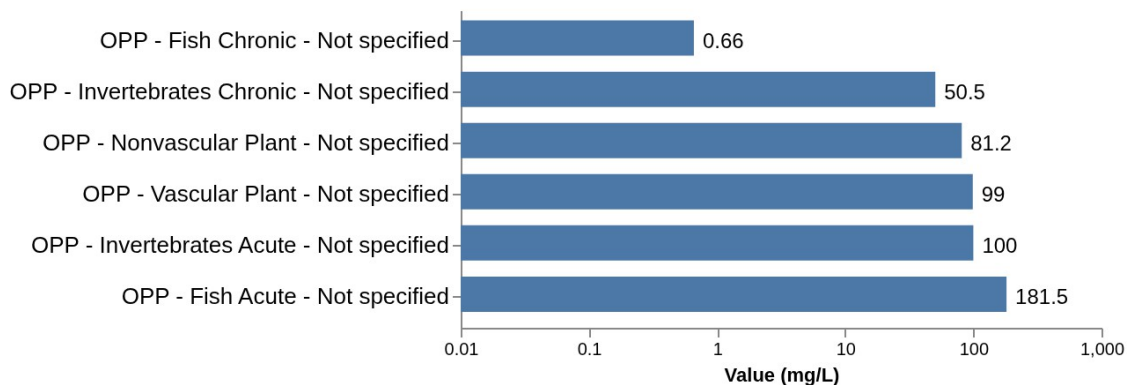


Table 919: Benchmark Values for Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
140-57-8	EPA Region 3	BTAG – Freshwater	Not specified	0.00309

Benchmark Values for Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester in Surface Water (Fresh Water)

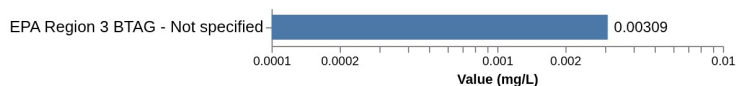


Table 920: Benchmark Values for Tartrazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1934-21-0	OPP	Freshwater Fish Acute	Not specified	48.0	22
1934-21-0	OPP	Freshwater Invertebrates Acute	Not specified	48.5	22

Benchmark Values for Tartrazine in Surface Water (Fresh Water)

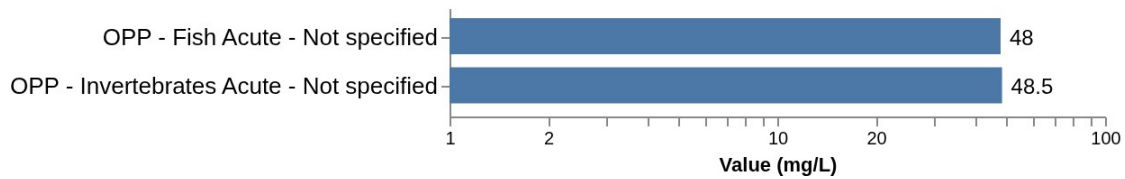


Table 921: Benchmark Values for Tau-fluvalinate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
102851-06-9	OPP	Freshwater Fish Chronic	Not specified	0.000064
102851-06-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.000100
102851-06-9	OPP	Freshwater Fish Acute	Not specified	0.000175
102851-06-9	OPP	Freshwater Invertebrates Acute	Not specified	0.000470

Benchmark Values for Tau-fluvalinate in Surface Water (Fresh Water)

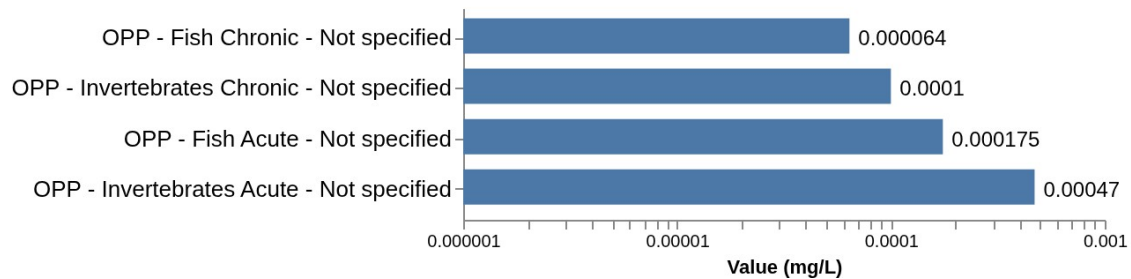


Table 922: Benchmark Values for TCDD, 2,3,7,8- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1746-01-6	California	Freshwater acute toxicity	Not specified	0.000000e+00	
1746-01-6	California	Freshwater chronic toxicity	Not specified	1.000000e-08	
1746-01-6	EPA Region 3	BTAG – Freshwater	Not specified	3.100000e-12	
1746-01-6	EPA Region 4	Chronic Freshwater	Wildlife only	3.100000e-12	7

Benchmark Values for TCDD, 2,3,7,8- in Surface Water (Fresh Water)

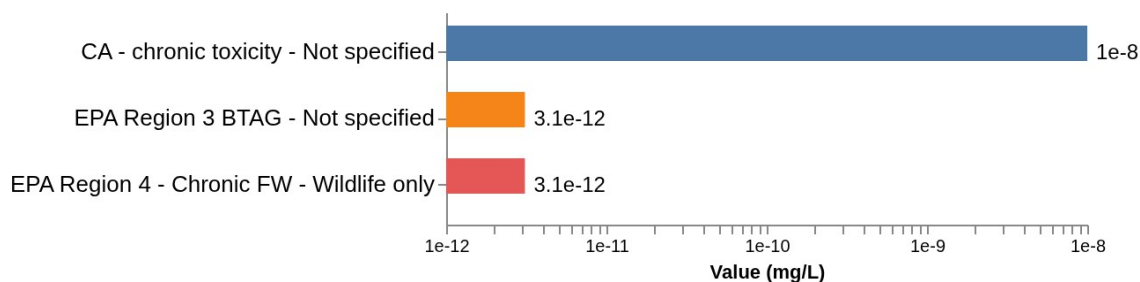


Table 923: Benchmark Values for Tebuconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
107534-96-3	OPP	Freshwater Fish Chronic	Not specified	0.011
107534-96-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.120
107534-96-3	OPP	Freshwater Vascular Plant	Not specified	0.151
107534-96-3	OPP	Freshwater Fish Acute	Not specified	1.135
107534-96-3	OPP	Freshwater Invertebrates Acute	Not specified	1.440
107534-96-3	OPP	Freshwater Nonvascular Plant	Not specified	1.450

Benchmark Values for Tebuconazole in Surface Water (Fresh Water)

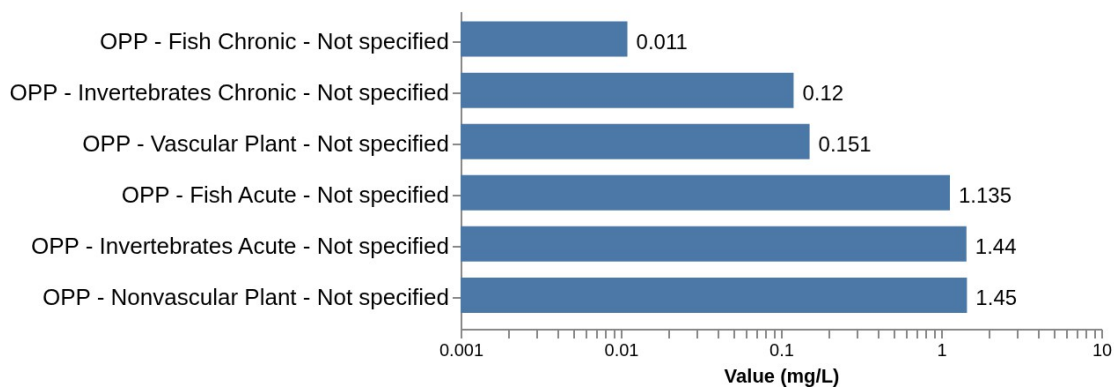


Table 924: Benchmark Values for Tebufenozide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
112410-23-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.0290	
112410-23-8	OPP	Freshwater Fish Chronic	Not specified	0.0511	
112410-23-8	OPP	Freshwater Nonvascular Plant	Not specified	0.7400	22
112410-23-8	OPP	Freshwater Vascular Plant	Not specified	0.9400	22
112410-23-8	OPP	Freshwater Fish Acute	Not specified	1.5000	
112410-23-8	OPP	Freshwater Invertebrates Acute	Not specified	1.9000	

Benchmark Values for Tebufenozide in Surface Water (Fresh Water)

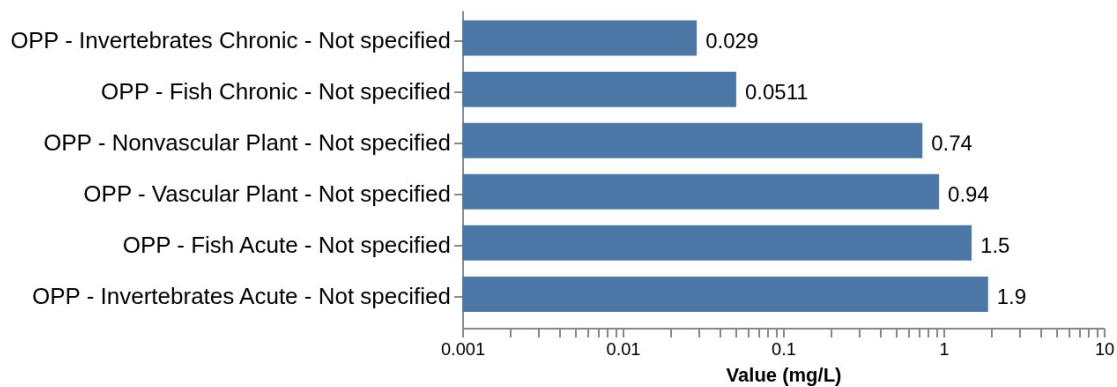


Table 925: Benchmark Values for Tebuthiuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
34014-18-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00002	87
34014-18-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00220	87, 89
34014-18-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.02000	87
34014-18-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.16000	87, 94
34014-18-1	Canada	Freshwater Long Term	Not specified	0.00160	
34014-18-1	OPP	Freshwater Nonvascular Plant	Not specified	0.05000	
34014-18-1	OPP	Freshwater Vascular Plant	Not specified	0.13000	
34014-18-1	OPP	Freshwater Fish Chronic	Not specified	9.30000	
34014-18-1	OPP	Freshwater Invertebrates Chronic	Not specified	21.80000	
34014-18-1	OPP	Freshwater Fish Acute	Not specified	53.00000	
34014-18-1	OPP	Freshwater Invertebrates Acute	Not specified	148.50000	

Benchmark Values for Tebuthiuron in Surface Water (Fresh Water)

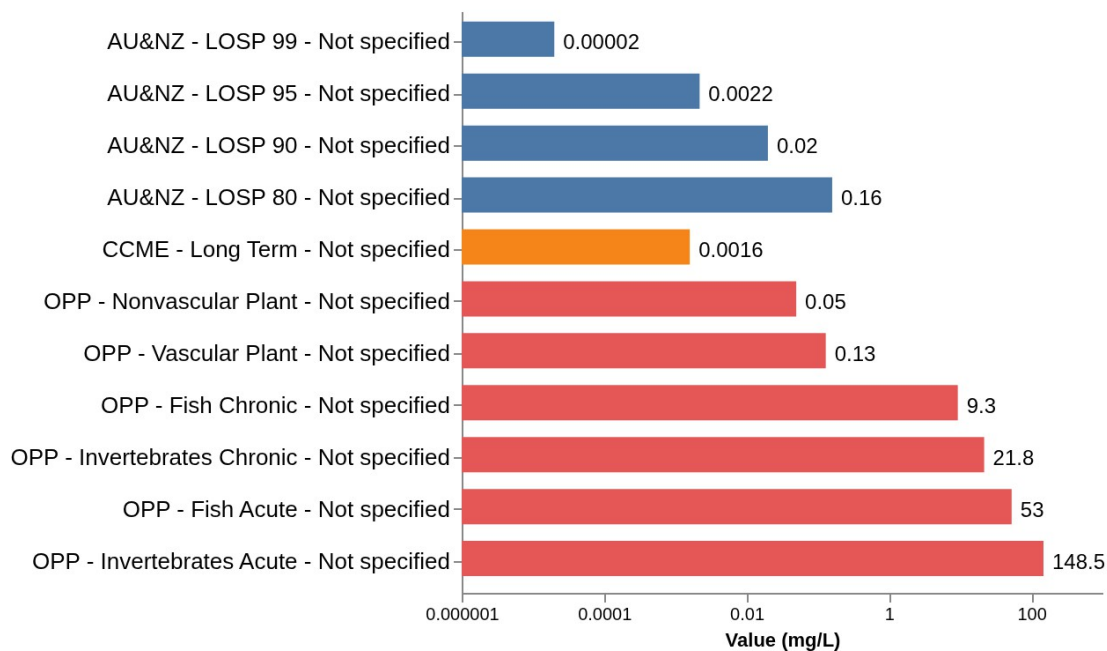


Table 926: Benchmark Values for Tefluthrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
79538-32-2	OPP	Freshwater Fish Chronic	Not specified	0.000004
79538-32-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.000008
79538-32-2	OPP	Freshwater Fish Acute	Not specified	0.000030
79538-32-2	OPP	Freshwater Invertebrates Acute	Not specified	0.000035

Benchmark Values for Tefluthrin in Surface Water (Fresh Water)

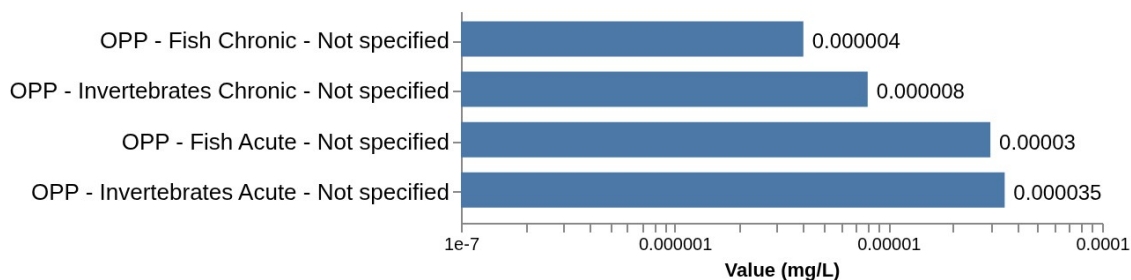


Table 927: Benchmark Values for Telone (1,3-D) Degradate 3-chloroacrylic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-31-9	OPP	Freshwater Vascular Plant	Not specified	0.220
000000-31-9	OPP	Freshwater Nonvascular Plant	Not specified	0.432
000000-31-9	OPP	Freshwater Invertebrates Chronic	Not specified	2.530
000000-31-9	OPP	Freshwater Fish Chronic	Not specified	9.910
000000-31-9	OPP	Freshwater Invertebrates Acute	Not specified	27.500
000000-31-9	OPP	Freshwater Fish Acute	Not specified	34.750

Benchmark Values for Telone (1,3-D) Degradate 3-chloroacrylic acid in Surface Water (Fresh Water)

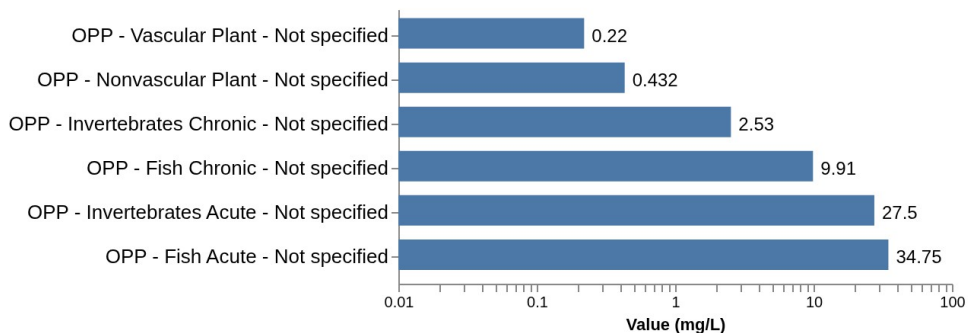


Table 928: Benchmark Values for Telone (1,3-D) Degradate 3-chloroallyl alcohol in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-32-0	OPP	Freshwater Nonvascular Plant	Not specified	0.2480
000000-32-0	OPP	Freshwater Fish Acute	Not specified	0.4930
000000-32-0	OPP	Freshwater Invertebrates Acute	Not specified	1.1500
000000-32-0	OPP	Freshwater Vascular Plant	Not specified	1.6994

Benchmark Values for Telone (1,3-D) Degradate 3-chloroallyl alcohol in Surface Water (Fresh Water)

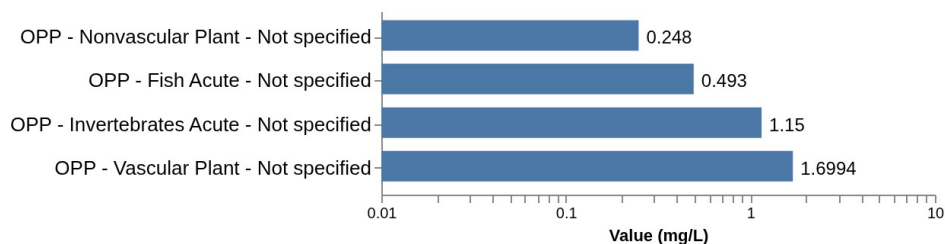


Table 929: Benchmark Values for Tembotrione in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
335104-84-2	OPP	Freshwater Vascular Plant	Not specified	0.00520	
335104-84-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.00641	
335104-84-2	OPP	Freshwater Nonvascular Plant	Not specified	0.31000	
335104-84-2	OPP	Freshwater Fish Chronic	Not specified	0.60400	
335104-84-2	OPP	Freshwater Invertebrates Acute	Not specified	24.45000	
335104-84-2	OPP	Freshwater Fish Acute	Not specified	50.00000	22

Benchmark Values for Tembotrione in Surface Water (Fresh Water)

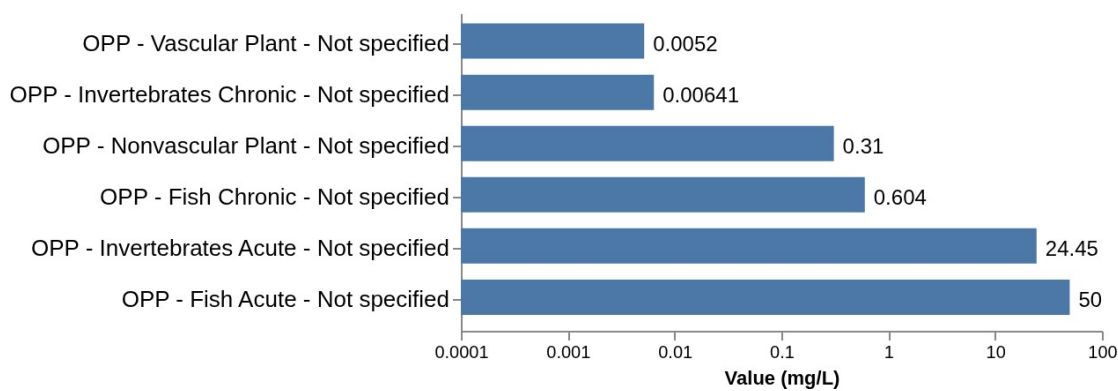


Table 930: Benchmark Values for Temephos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
3383-96-8	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.00005	83, 101
3383-96-8	OPP	Freshwater Invertebrates Acute	Not specified	0.00500	
3383-96-8	OPP	Freshwater Fish Acute	Not specified	1.74500	

Benchmark Values for Temephos in Surface Water (Fresh Water)

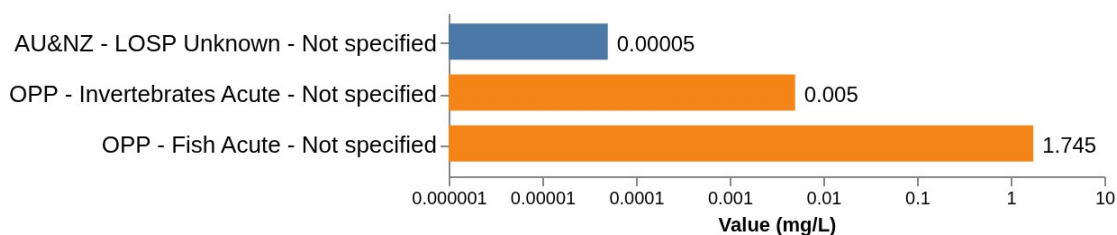


Table 931: Benchmark Values for Terbacil in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
5902-51-2	OPP	Freshwater Nonvascular Plant	Not specified	0.011
5902-51-2	OPP	Freshwater Invertebrates Chronic	Not specified	0.050
5902-51-2	OPP	Freshwater Vascular Plant	Not specified	0.140
5902-51-2	OPP	Freshwater Fish Chronic	Not specified	1.200
5902-51-2	OPP	Freshwater Fish Acute	Not specified	23.100
5902-51-2	OPP	Freshwater Invertebrates Acute	Not specified	32.500

Benchmark Values for Terbacil in Surface Water (Fresh Water)

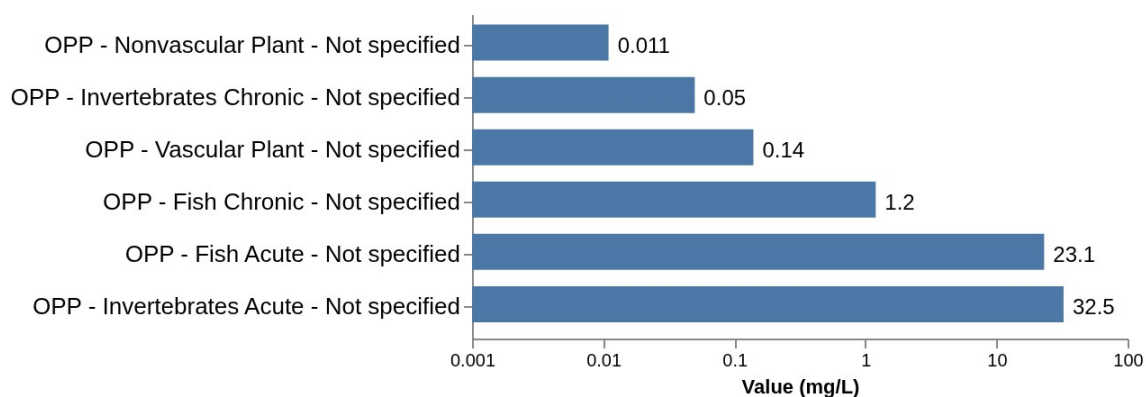


Table 932: Benchmark Values for Terbufos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
13071-79-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.000030	
13071-79-9	OPP	Freshwater Invertebrates Acute	Not specified	0.000085	
13071-79-9	OPP	Freshwater Fish Chronic	Not specified	0.000100	
13071-79-9	OPP	Freshwater Fish Acute	Not specified	0.000385	
13071-79-9	OPP	Freshwater Nonvascular Plant	Not specified	1.850000	22
13071-79-9	OPP	Freshwater Vascular Plant	Not specified	4.200000	22

Benchmark Values for Terbufos in Surface Water (Fresh Water)

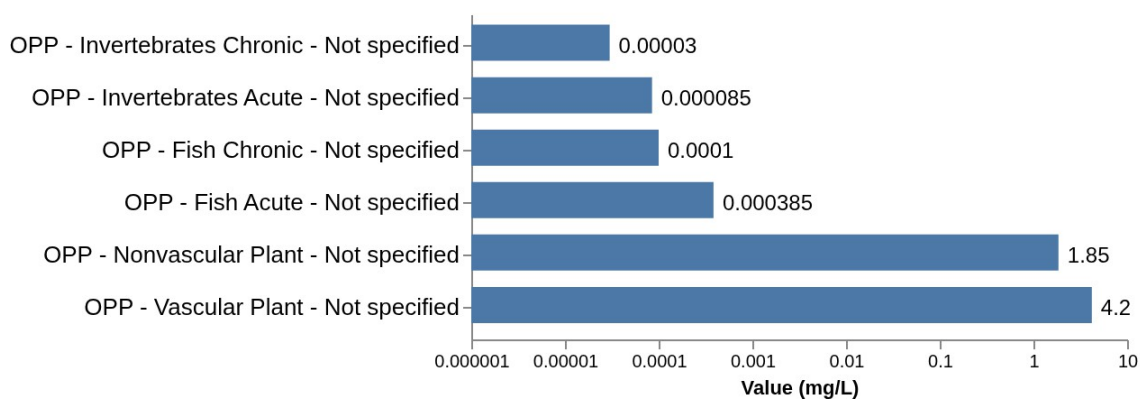


Table 933: Benchmark Values for Terbutylazine in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
5915-41-3	OPP	Freshwater Fish Acute	Not specified	1.8
5915-41-3	OPP	Freshwater Invertebrates Acute	Not specified	19.7

Benchmark Values for Terbutylazine in Surface Water (Fresh Water)

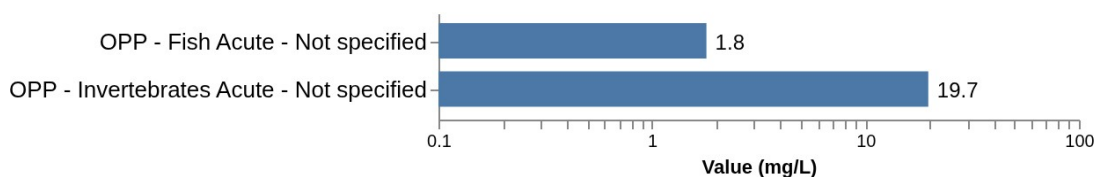


Table 934: Benchmark Values for Tetrabromodiphenyl ether, 2,2',4,4'– (BDE–47) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
5436–43–1	California	Freshwater chronic toxicity	Not specified	0.122
5436–43–1	California	Freshwater acute toxicity	Not specified	0.360

Benchmark Values for Tetrabromodiphenyl ether, 2,2',4,4'– (BDE-47) in Surface Water (Fresh Water)

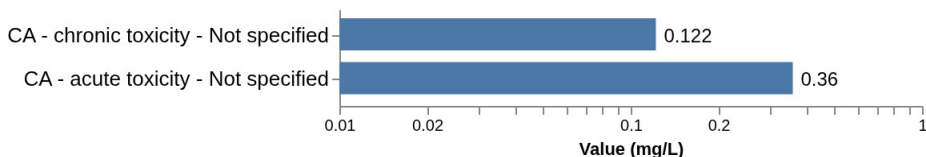


Table 935: Benchmark Values for Tetrachloro–3–nitrobenzene , 1,2,4,5– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117–18–0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0003	83

Benchmark Values for Tetrachloro-3-nitrobenzene , 1,2,4,5- in Surface Water (Fresh Water)

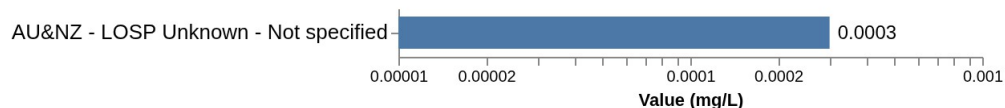


Table 936: Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
634-66-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0020	83, 89, 97
634-66-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0040	83, 97
634-66-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0060	83, 97
634-66-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0100	83, 97
634-66-2	Canada	Freshwater Long Term	Not specified	0.0018	
634-66-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0018	
634-66-2	EPA Region 4	Chronic Freshwater	Not specified	0.0030	
634-66-2	EPA Region 4	Acute Freshwater	Not specified	0.0180	

Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water (Fresh Water)

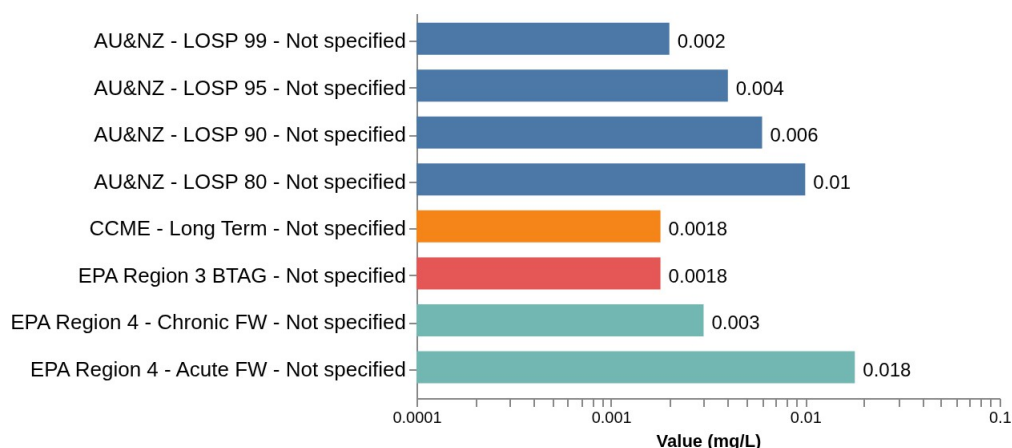


Table 937: Benchmark Values for Tetrachlorobenzene, 1,2,3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
634-90-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.003	83, 89, 97
634-90-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.005	83, 97
634-90-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.007	83, 97
634-90-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.010	83, 97

Benchmark Values for Tetrachlorobenzene, 1,2,3,5- in Surface Water (Fresh Water)

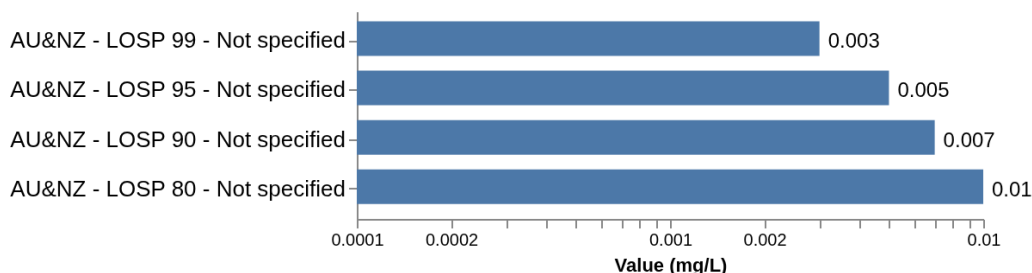


Table 938: Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-94-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0050	83, 89, 97
95-94-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0070	83, 97
95-94-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0080	83, 97
95-94-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0090	83, 97
95-94-3	California	Freshwater other toxicity	Not specified	0.0500	
95-94-3	California	Freshwater acute toxicity	Not specified	0.2500	
95-94-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0030	
95-94-3	EPA Region 4	Chronic Freshwater	Not specified	0.0083	
95-94-3	EPA Region 4	Acute Freshwater	Not specified	0.0750	
95-94-3	EPA Region 6	Freshwater Chronic	Not specified	0.0032	
95-94-3	EPA Region 6	Freshwater Acute	Not specified	0.0960	

Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water (Fresh Water)

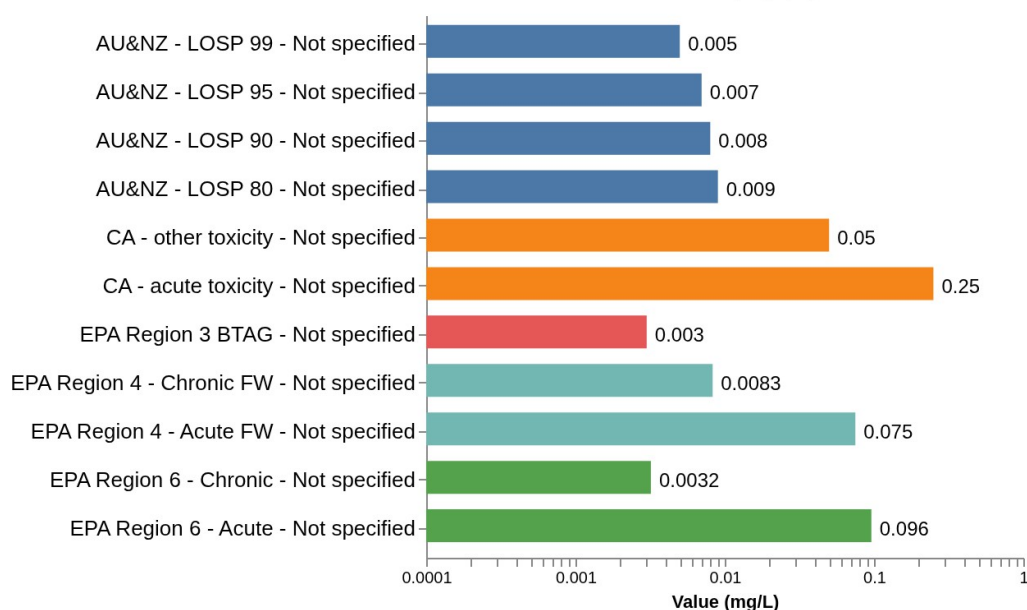


Table 939: Benchmark Values for Tetrachlorobiphenyl, 3,3',4,4'– (PCB 77) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
32598–13–3	British Columbia	Freshwater STA	Not specified	4.000000e-08

Benchmark Values for Tetrachlorobiphenyl, 3,3',4,4'– (PCB 77) in Surface Water (Fresh Water)

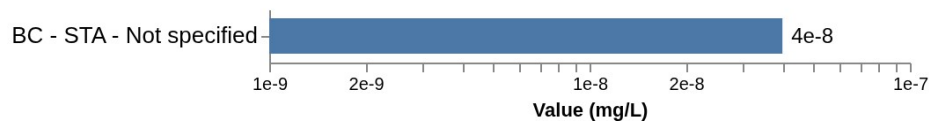


Table 940: Benchmark Values for Tetrachloroethane, 1,1,1,2– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
630–20–6	California	Freshwater acute toxicity	Not specified	9.320
630–20–6	EPA Region 4	Chronic Freshwater	Not specified	0.085
630–20–6	EPA Region 4	Acute Freshwater	Not specified	0.770

Benchmark Values for Tetrachloroethane, 1,1,1,2– in Surface Water (Fresh Water)

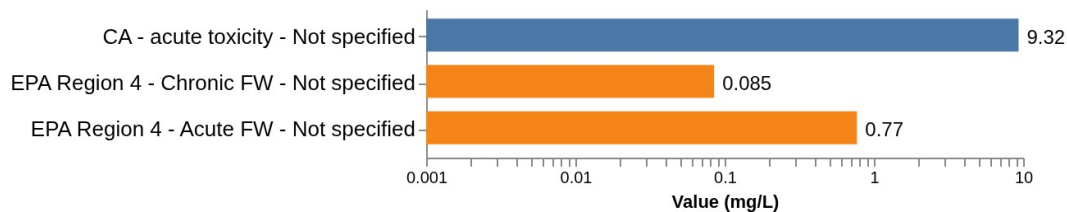


Table 941: Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-34-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.2000	83
79-34-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.4000	83, 89
79-34-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.5000	83
79-34-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.9000	83
79-34-5	California	Freshwater chronic toxicity	Not specified	2.4000	
79-34-5	California	Freshwater acute toxicity	Not specified	9.3200	
79-34-5	EPA OSWER	Freshwater Tier II methodology	Not specified	0.4200	
79-34-5	EPA Region 3	BTAG – Freshwater	Not specified	0.6100	
79-34-5	EPA Region 4	Chronic Freshwater	Not specified	0.2000	
79-34-5	EPA Region 4	Acute Freshwater	Not specified	0.9100	
79-34-5	EPA Region 6	Freshwater Chronic	Not specified	0.4650	
79-34-5	EPA Region 6	Freshwater Acute	Not specified	2.7900	
79-34-5	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0108	

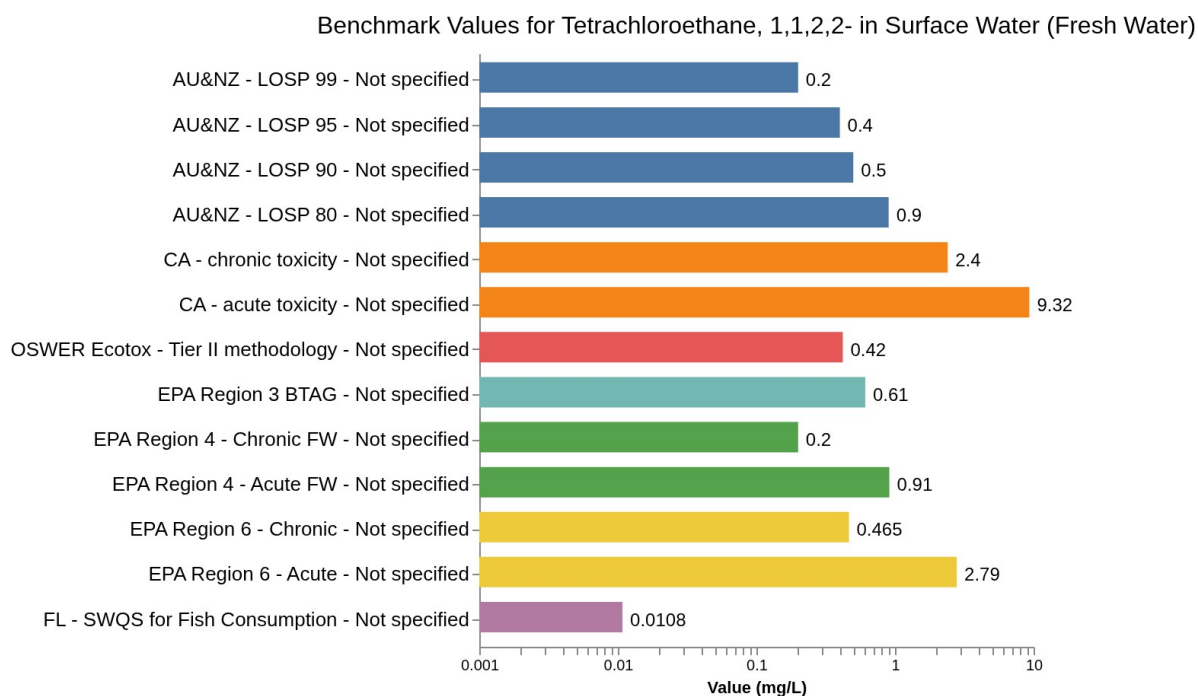


Table 942: Benchmark Values for Tetrachloroethylene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
127-18-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.04000	83
127-18-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.07000	83, 89
127-18-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.10000	83
127-18-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.15000	83
127-18-4	California	Freshwater chronic toxicity	Not specified	0.84000	
127-18-4	California	Freshwater acute toxicity	Not specified	5.28000	
127-18-4	Canada	Freshwater Long Term	Not specified	0.11000	
127-18-4	EPA OSWER	Freshwater Tier II methodology	Not specified	0.12000	
127-18-4	EPA Region 3	BTAG – Freshwater	Not specified	0.11100	
127-18-4	EPA Region 4	Chronic Freshwater	Not specified	0.05300	
127-18-4	EPA Region 4	Acute Freshwater	Not specified	0.43000	
127-18-4	EPA Region 6	Freshwater Chronic	Not specified	1.28000	
127-18-4	EPA Region 6	Freshwater Acute	Not specified	3.84000	
127-18-4	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00885	

Benchmark Values for Tetrachloroethylene in Surface Water (Fresh Water)

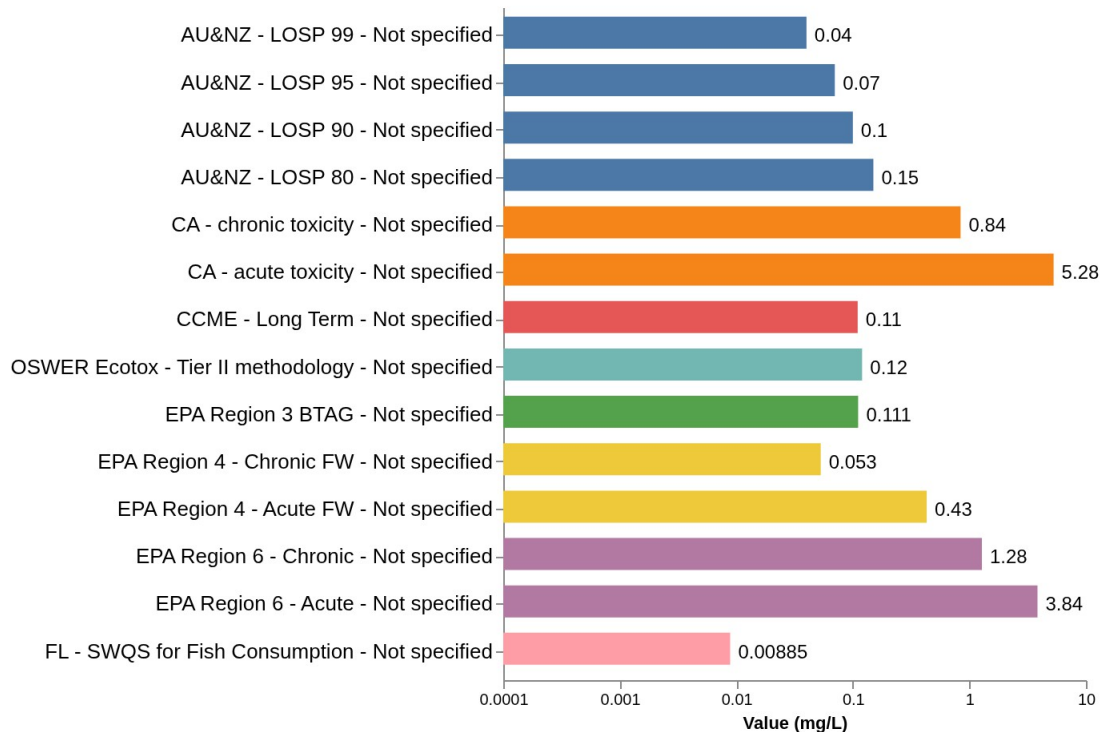


Table 943: Benchmark Values for Tetrachlorophenol, 2,3,4,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
4901-51-3	British Columbia	Freshwater STA	Not specified	0.001	115

Benchmark Values for Tetrachlorophenol, 2,3,4,5- in Surface Water (Fresh Water)

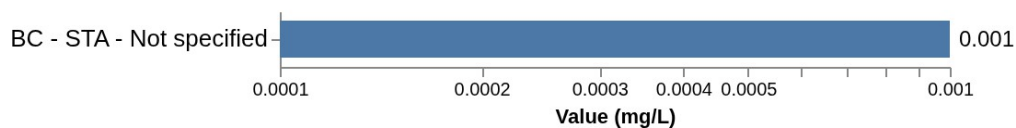


Table 944: Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
58-90-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0100	87, 89, 98
58-90-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0200	87, 98
58-90-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0250	87, 98
58-90-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0300	87, 98
58-90-2	British Columbia	Freshwater STA	Not specified	0.0029	115
58-90-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0012	
58-90-2	EPA Region 4	Chronic Freshwater	Not specified	0.0010	
58-90-2	EPA Region 4	Acute Freshwater	Not specified	0.0110	

Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water (Fresh Water)

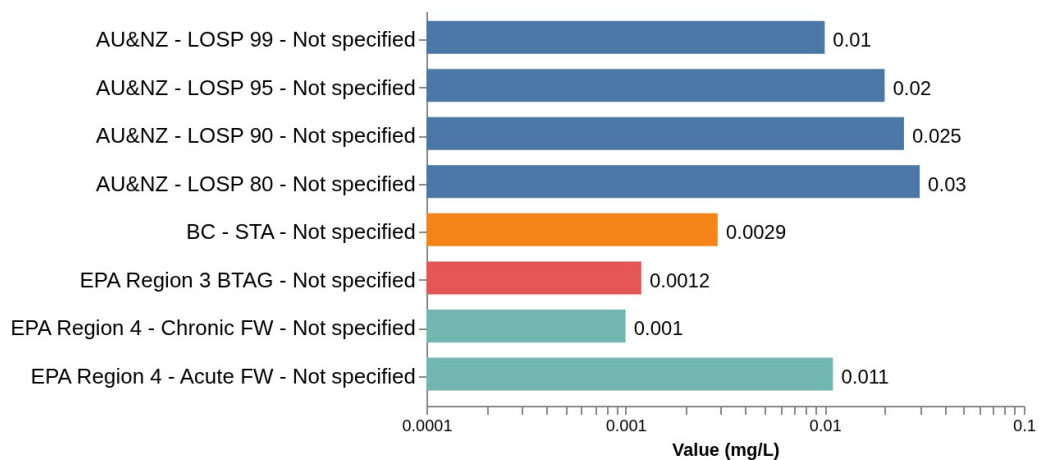


Table 945: Benchmark Values for Tetrachlorophenol, 2,3,5,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
935-95-5	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0002	83, 99
935-95-5	British Columbia	Freshwater STA	Not specified	0.0013	115

Benchmark Values for Tetrachlorophenol, 2,3,5,6- in Surface Water (Fresh Water)

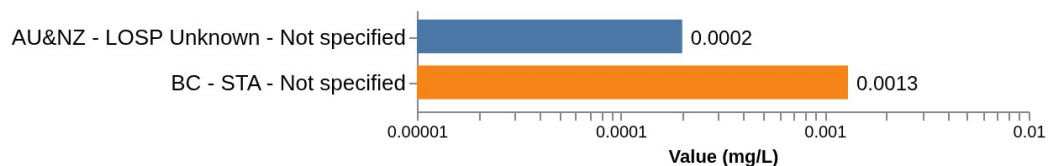


Table 946: Benchmark Values for Tetrachlorophenols (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25167-83-3	Canada	Freshwater Long Term	Not specified	0.001
25167-83-3	EPA Region 3	BTAG - Freshwater	Not specified	0.001

Benchmark Values for Tetrachlorophenols (total) in Surface Water (Fresh Water)

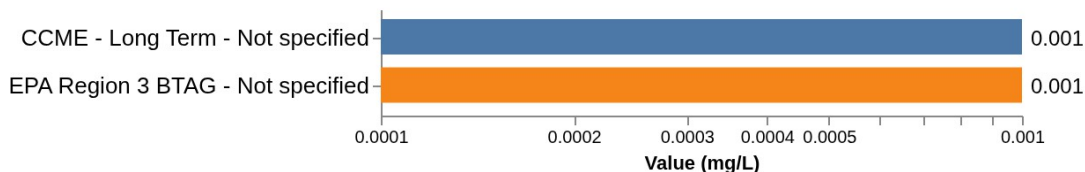


Table 947: Benchmark Values for Tetraconazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
11281-77-3	OPP	Freshwater Fish Chronic	Not specified	0.080
11281-77-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.190
11281-77-3	OPP	Freshwater Vascular Plant	Not specified	0.310
11281-77-3	OPP	Freshwater Invertebrates Acute	Not specified	1.315
11281-77-3	OPP	Freshwater Fish Acute	Not specified	1.925
11281-77-3	OPP	Freshwater Nonvascular Plant	Not specified	2.280

Benchmark Values for Tetraconazole in Surface Water (Fresh Water)

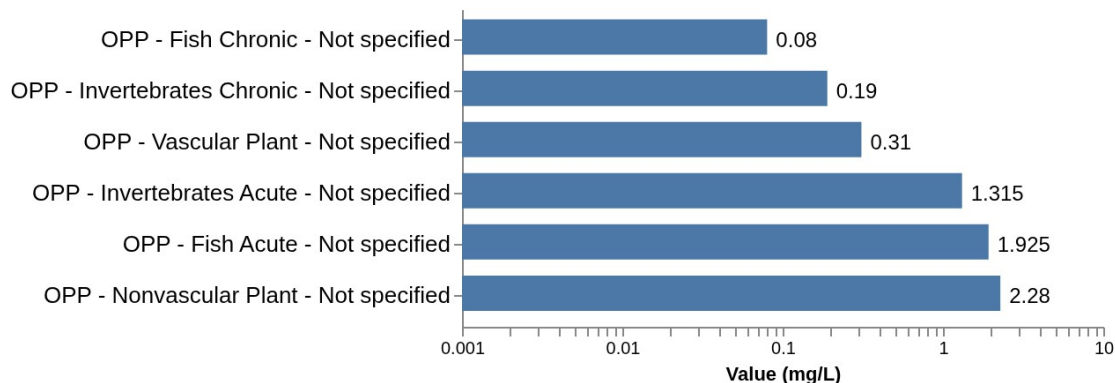


Table 948: Benchmark Values for Tetraethyl Lead in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-00-2	British Columbia	Freshwater LTC	Not specified	7.000000e-07

Benchmark Values for Tetraethyl Lead in Surface Water (Fresh Water)

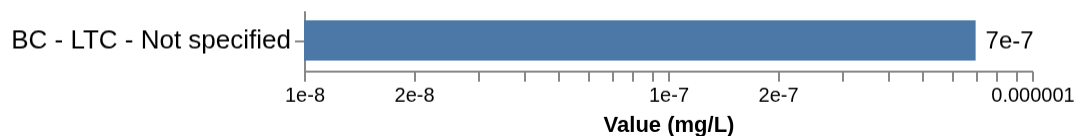


Table 949: Benchmark Values for Tetraethylammonium perfluorooctanesulfonate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56773-42-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.00025	233
56773-42-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.07100	

Benchmark Values for Tetraethylammonium perfluorooctanesulfonate in Surface Water (Fresh Water)

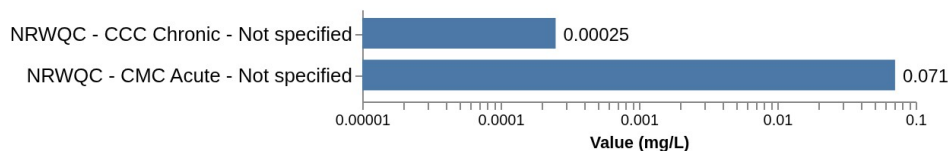


Table 950: Benchmark Values for Tetrahydrofuran in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
109-99-9	EPA Region 4	Chronic Freshwater	Not specified	11.0
109-99-9	EPA Region 4	Acute Freshwater	Not specified	74.0

Benchmark Values for Tetrahydrofuran in Surface Water (Fresh Water)

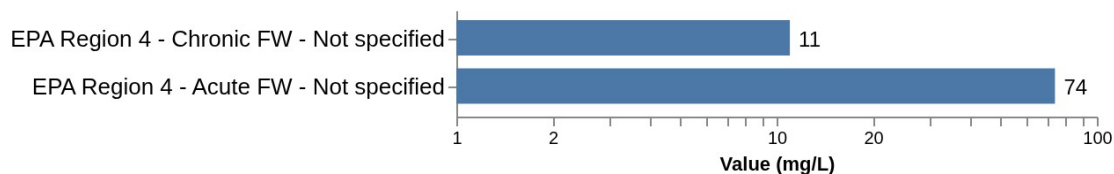


Table 951: Benchmark Values for Tetramethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7696-12-0	OPP	Freshwater Fish Acute	Not specified	0.00185

Benchmark Values for Tetramethrin in Surface Water (Fresh Water)

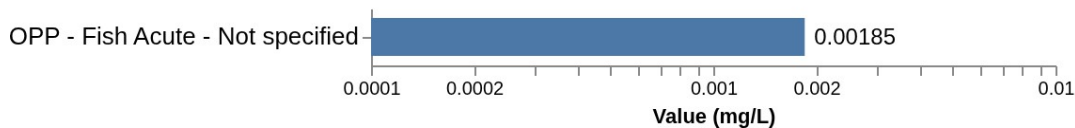


Table 952: Benchmark Values for Tetramethyl Lead in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-74-1	British Columbia	Freshwater LTC	Not specified	0.000006

Benchmark Values for Tetramethyl Lead in Surface Water (Fresh Water)

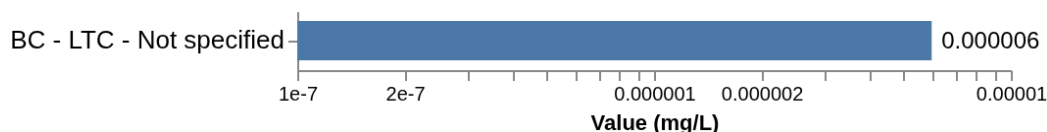


Table 953: Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CT30672) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-4	OPP	Freshwater Invertebrates Acute	Not specified	1.12	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CT30672) in Surface Water (Fresh Water)

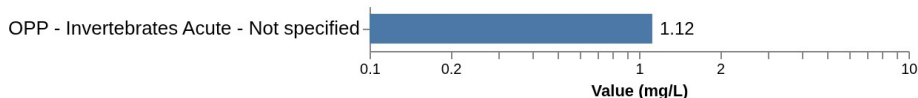


Table 954: Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CT30673) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-5	OPP	Freshwater Invertebrates Acute	Not specified	4.52	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CT30673) in Surface Water (Fresh Water)

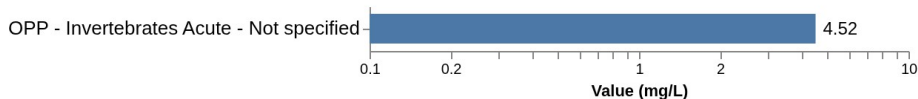


Table 955: Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CU81055) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-3	OPP	Freshwater Invertebrates Acute	Not specified	5.3	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CU81055) in Surface Water (Fresh Water)

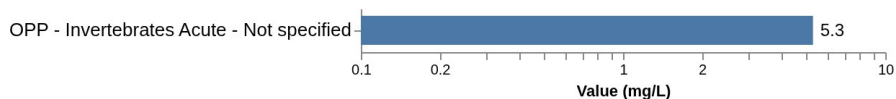


Table 956: Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CY28897) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-2	OPP	Freshwater Invertebrates Acute	Not specified	4.87	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CY28897) in Surface Water (Fresh Water)

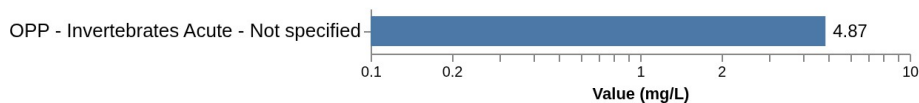


Table 957: Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CY28906) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-6	OPP	Freshwater Invertebrates Acute	Not specified	1.31	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507 (BCS-CY28906) in Surface Water (Fresh Water)

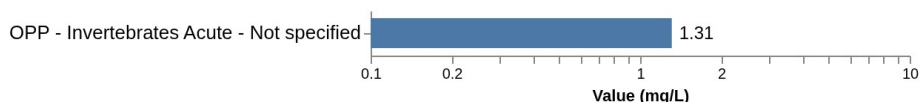


Table 958: Benchmark Values for Tetraniliprole degradate BCS-CL73507-amide (BCS-CR60014) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-1	OPP	Freshwater Invertebrates Acute	Not specified	4.95	22

Benchmark Values for Tetraniliprole degradate BCS-CL73507-amide (BCS-CR60014) in Surface Water (Fresh Water)

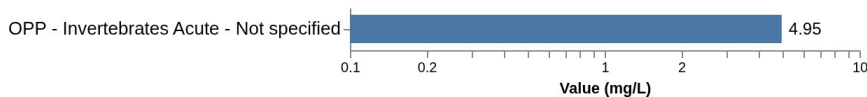


Table 959: Benchmark Values for Tetraniliprole degradate BCS-CL75307 (BCS-CY28900) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-7	OPP	Freshwater Invertebrates Acute	Not specified	0.55	22

Benchmark Values for Tetraniliprole degradate BCS-CL75307 (BCS-CY28900) in Surface Water (Fresh Water)



Table 960: Benchmark Values for Tetraniliprole degradate BCS-CQ63359 (Tetraniliprole quinazolinone) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-32-8	OPP	Freshwater Invertebrates Acute	Not specified	0.426

Benchmark Values for Tetraniliprole degradate BCS-CQ63359 (Tetraniliprole quinazolinone) in Surface Water (Fresh Water)



Table 961: Benchmark Values for Tetraniliprole degrade BCS-CL73507-carboxylic acid (BCS-CR74541) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-32-9	OPP	Freshwater Invertebrates Acute	Not specified	4.5	22

Benchmark Values for Tetraniliprole degrade BCS-CL73507-carboxylic acid (BCS-CR74541) in Surface Water (Fresh Water)

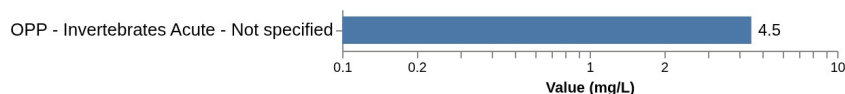


Table 962: Benchmark Values for Tetrathiocarbonate, sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7345-69-9	OPP	Freshwater Invertebrates Acute	Not specified	3.30
7345-69-9	OPP	Freshwater Fish Acute	Not specified	3.35
7345-69-9	OPP	Freshwater Nonvascular Plant	Not specified	17.00

Benchmark Values for Tetrathiocarbonate, sodium in Surface Water (Fresh Water)

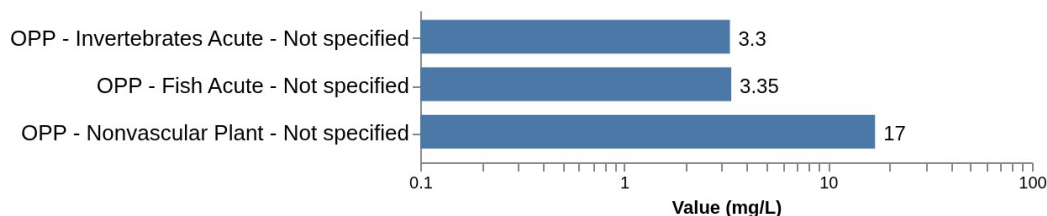


Table 963: Benchmark Values for Thallium (Soluble Salts) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-28-0	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.00003	83
7440-28-0	British Columbia	Freshwater LTC	Not specified	0.00080	
7440-28-0	California	Freshwater other toxicity	Not specified	0.02000	
7440-28-0	California	Freshwater chronic toxicity	Not specified	0.04000	
7440-28-0	California	Freshwater acute toxicity	Not specified	1.40000	
7440-28-0	Canada	Freshwater Long Term	Not specified	0.00080	
7440-28-0	EPA Region 3	BTAG – Freshwater	Not specified	0.00080	
7440-28-0	EPA Region 4	Chronic Freshwater	Not specified	0.00600	
7440-28-0	EPA Region 4	Acute Freshwater	Not specified	0.05400	
7440-28-0	EPA Region 6	Freshwater Chronic	Not specified	0.18000	
7440-28-0	EPA Region 6	Freshwater Acute	Not specified	0.54000	
7440-28-0	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.00630	

Benchmark Values for Thallium (Soluble Salts) in Surface Water (Fresh Water)

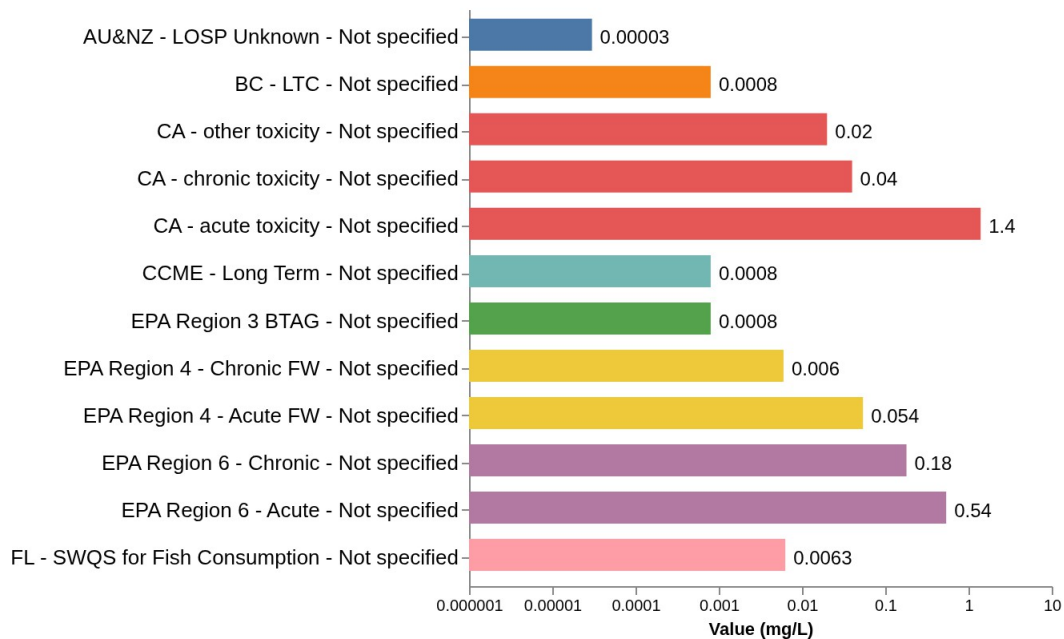


Table 964: Benchmark Values for Thiabendazole in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
148-79-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.042
148-79-8	OPP	Freshwater Fish Chronic	Not specified	0.110
148-79-8	OPP	Freshwater Invertebrates Acute	Not specified	0.155
148-79-8	OPP	Freshwater Fish Acute	Not specified	0.280
148-79-8	OPP	Freshwater Nonvascular Plant	Not specified	1.420
148-79-8	OPP	Freshwater Vascular Plant	Not specified	2.320

Benchmark Values for Thiabendazole in Surface Water (Fresh Water)

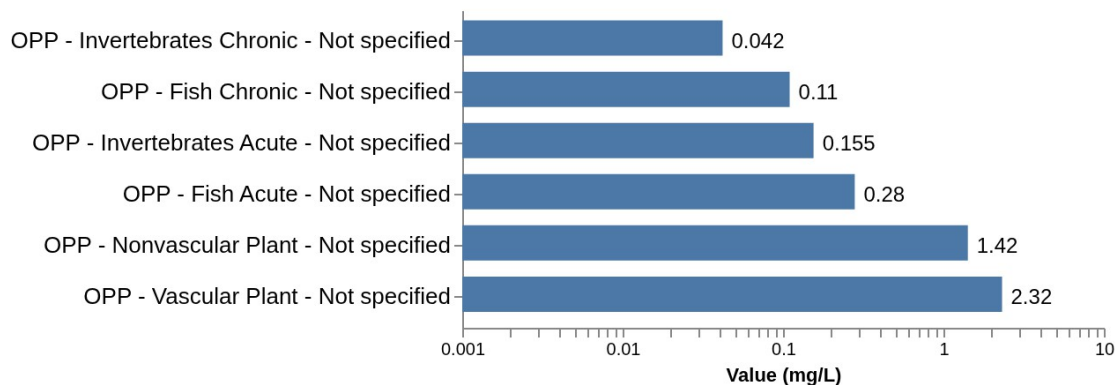


Table 965: Benchmark Values for Thiocloprid amide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
676228-91-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.1	
676228-91-4	OPP	Freshwater Invertebrates Acute	Not specified	15.6	
676228-91-4	OPP	Freshwater Fish Acute	Not specified	39.3	22

Benchmark Values for Thiocloprid amide in Surface Water (Fresh Water)

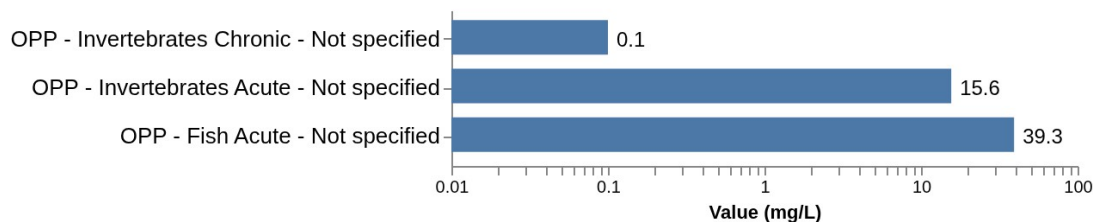


Table 966: Benchmark Values for Thiocloprid sulfonic acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-44-9	OPP	Freshwater Fish Acute	Not specified	47.55	22
000000-44-9	OPP	Freshwater Invertebrates Acute	Not specified	48.05	22
000000-44-9	OPP	Freshwater Nonvascular Plant	Not specified	100.00	22

Benchmark Values for Thiocloprid sulfonic acid in Surface Water (Fresh Water)

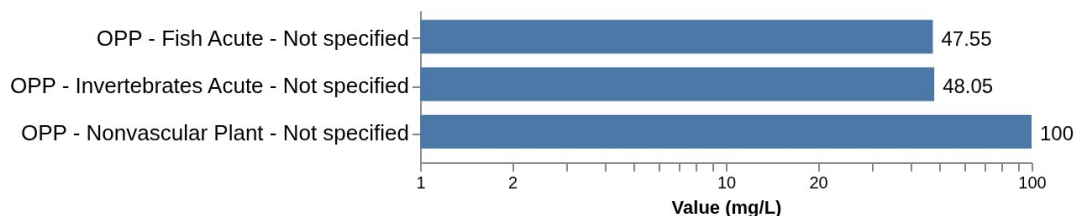


Table 967: Benchmark Values for Thiocloprid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
111988-49-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.00097	
111988-49-9	OPP	Freshwater Invertebrates Acute	Not specified	0.01890	
111988-49-9	OPP	Freshwater Fish Chronic	Not specified	0.91800	
111988-49-9	OPP	Freshwater Fish Acute	Not specified	12.60000	
111988-49-9	OPP	Freshwater Nonvascular Plant	Not specified	45.00000	
111988-49-9	OPP	Freshwater Vascular Plant	Not specified	95.40000	22

Benchmark Values for Thiocloprid in Surface Water (Fresh Water)

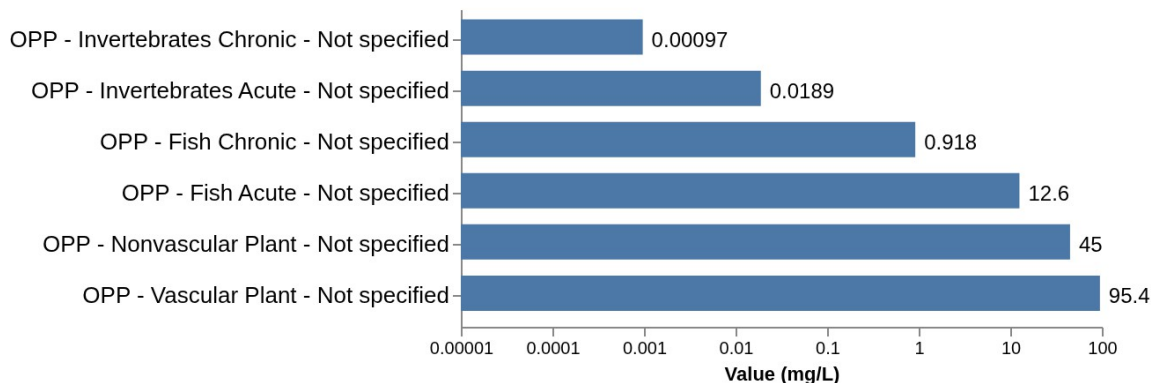


Table 968: Benchmark Values for Thiamethoxam in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
153719-23-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.00074	
153719-23-4	OPP	Freshwater Invertebrates Acute	Not specified	0.01750	
153719-23-4	OPP	Freshwater Fish Chronic	Not specified	20.00000	
153719-23-4	OPP	Freshwater Fish Acute	Not specified	57.00000	22
153719-23-4	OPP	Freshwater Vascular Plant	Not specified	90.20000	22
153719-23-4	OPP	Freshwater Nonvascular Plant	Not specified	99.00000	22

Benchmark Values for Thiamethoxam in Surface Water (Fresh Water)

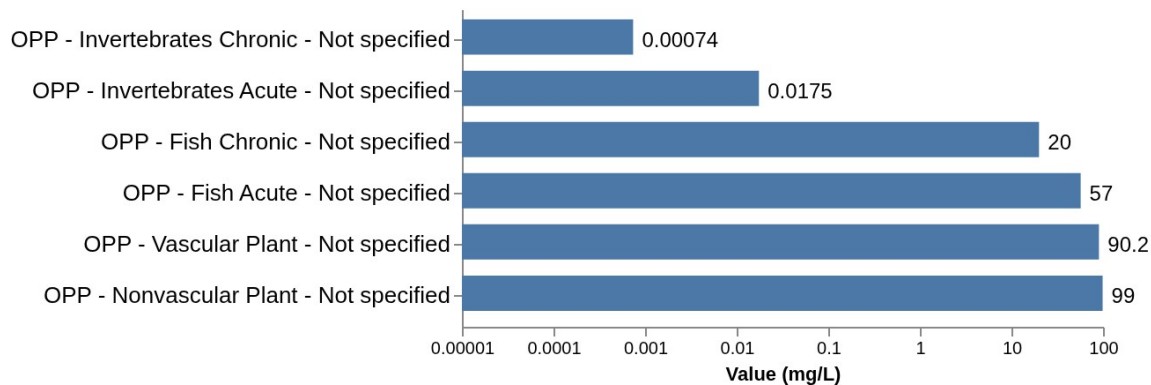


Table 969: Benchmark Values for Thiazole Sulfonic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-40-4	OPP	Freshwater Nonvascular Plant	Not specified	4.4	22
000000-40-4	OPP	Freshwater Fish Acute	Not specified	60.5	22

Benchmark Values for Thiazole Sulfonic Acid in Surface Water (Fresh Water)

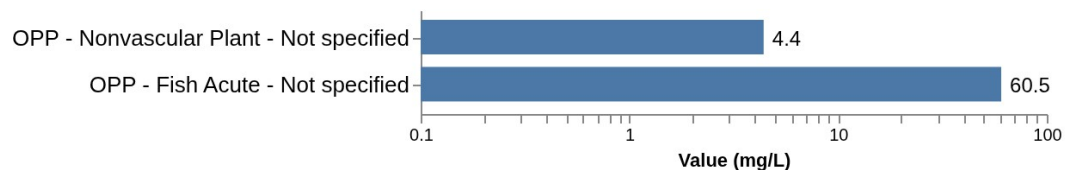


Table 970: Benchmark Values for Thiencarbazon-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
317815-83-1	OPP	Freshwater Vascular Plant	Not specified	0.0008	
317815-83-1	OPP	Freshwater Nonvascular Plant	Not specified	0.2980	
317815-83-1	OPP	Freshwater Invertebrates Chronic	Not specified	3.5400	
317815-83-1	OPP	Freshwater Fish Chronic	Not specified	4.8000	
317815-83-1	OPP	Freshwater Invertebrates Acute	Not specified	49.3000	22
317815-83-1	OPP	Freshwater Fish Acute	Not specified	52.0000	22

Benchmark Values for Thiencarbazon-methyl in Surface Water (Fresh Water)

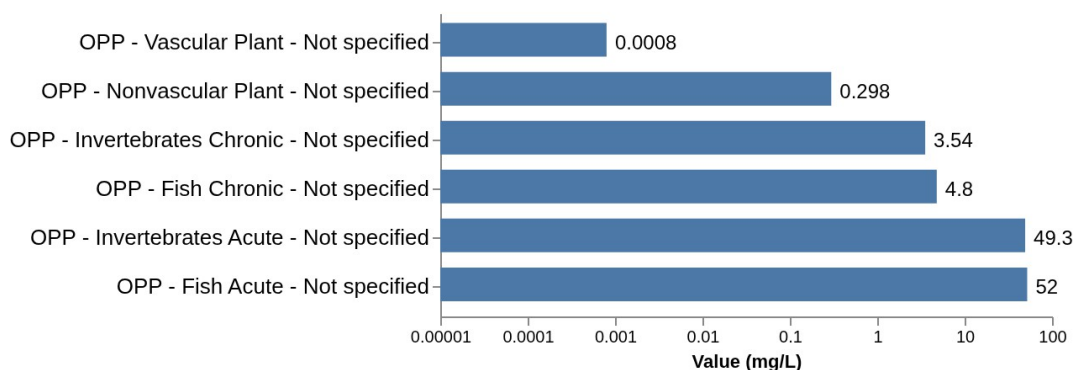


Table 971: Benchmark Values for Thifensulfuron-methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79277-27-3	OPP	Freshwater Vascular Plant	Not specified	0.00159	
79277-27-3	OPP	Freshwater Nonvascular Plant	Not specified	0.01730	22
79277-27-3	OPP	Freshwater Fish Acute	Not specified	50.00000	22
79277-27-3	OPP	Freshwater Invertebrates Acute	Not specified	500.00000	22

Benchmark Values for Thifensulfuron-methyl in Surface Water (Fresh Water)

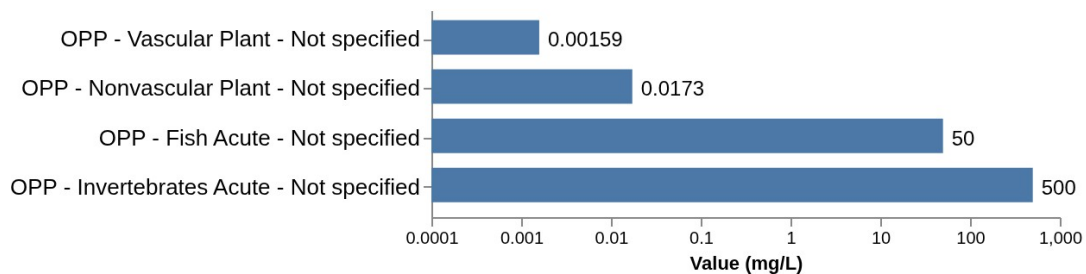


Table 972: Benchmark Values for Thiobencarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
28249-77-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0010	88
28249-77-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0028	88, 89
28249-77-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0046	88
28249-77-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0080	88, 94
28249-77-6	California	Freshwater instantaneous max	Not specified	0.0031	
28249-77-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.0010	
28249-77-6	OPP	Freshwater Nonvascular Plant	Not specified	0.0170	
28249-77-6	OPP	Freshwater Invertebrates Acute	Not specified	0.0500	
28249-77-6	OPP	Freshwater Fish Acute	Not specified	0.2800	
28249-77-6	OPP	Freshwater Vascular Plant	Not specified	0.7700	

Benchmark Values for Thiobencarb in Surface Water (Fresh Water)

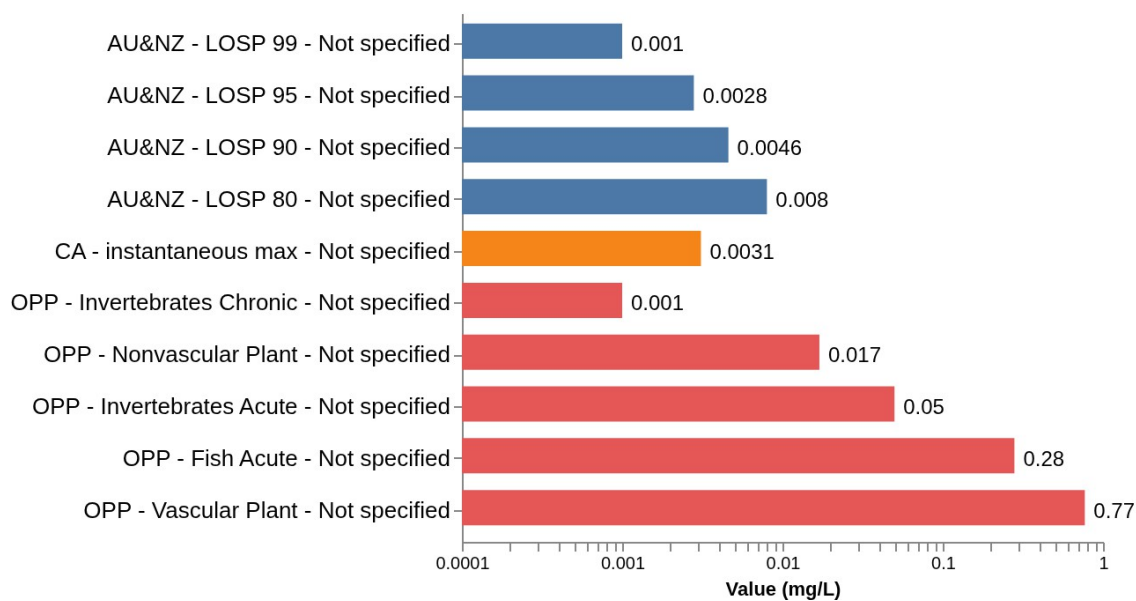


Table 973: Benchmark Values for Thiodicarb in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
59669-26-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.000700
59669-26-0	OPP	Freshwater Invertebrates Acute	Not specified	0.003395
59669-26-0	OPP	Freshwater Fish Chronic	Not specified	0.073000
59669-26-0	OPP	Freshwater Fish Acute	Not specified	0.750000
59669-26-0	OPP	Freshwater Nonvascular Plant	Not specified	43.100000
59669-26-0	OPP	Freshwater Vascular Plant	Not specified	182.000000

Benchmark Values for Thiodicarb in Surface Water (Fresh Water)

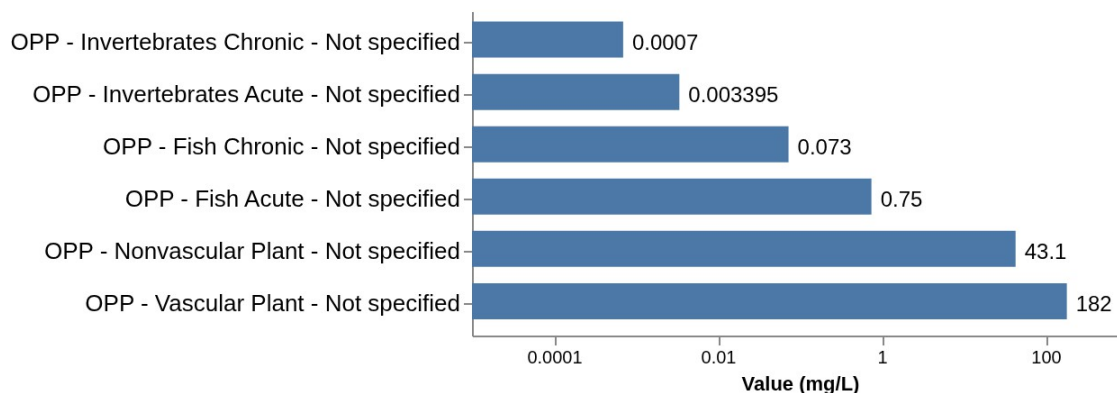


Table 974: Benchmark Values for Thiophanate, Methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
23564-05-8	OPP	Freshwater Nonvascular Plant	Not specified	0.93	
23564-05-8	OPP	Freshwater Invertebrates Acute	Not specified	2.70	
23564-05-8	OPP	Freshwater Vascular Plant	Not specified	4.70	22
23564-05-8	OPP	Freshwater Fish Acute	Not specified	5.50	

Benchmark Values for Thiophanate, Methyl in Surface Water (Fresh Water)

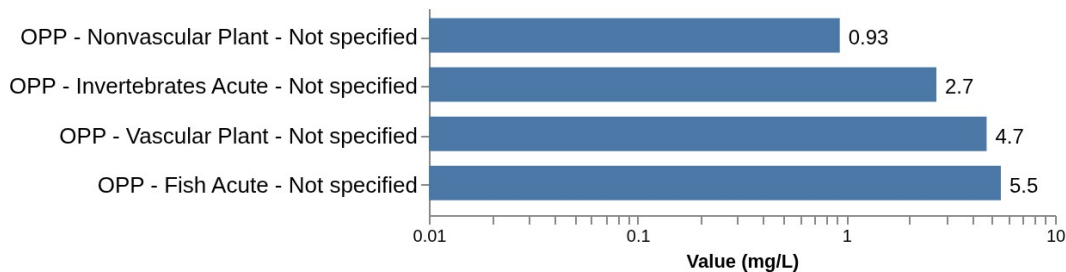


Table 975: Benchmark Values for Thiram in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
137-26-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00001	88, 89
137-26-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00020	88, 92
137-26-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00080	88, 92
137-26-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00300	88, 92
137-26-8	OPP	Freshwater Fish Chronic	Not specified	0.00110	
137-26-8	OPP	Freshwater Nonvascular Plant	Not specified	0.00300	
137-26-8	OPP	Freshwater Fish Acute	Not specified	0.00350	
137-26-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.02000	
137-26-8	OPP	Freshwater Invertebrates Acute	Not specified	0.10500	
137-26-8	OPP	Freshwater Vascular Plant	Not specified	1.60000	

Benchmark Values for Thiram in Surface Water (Fresh Water)

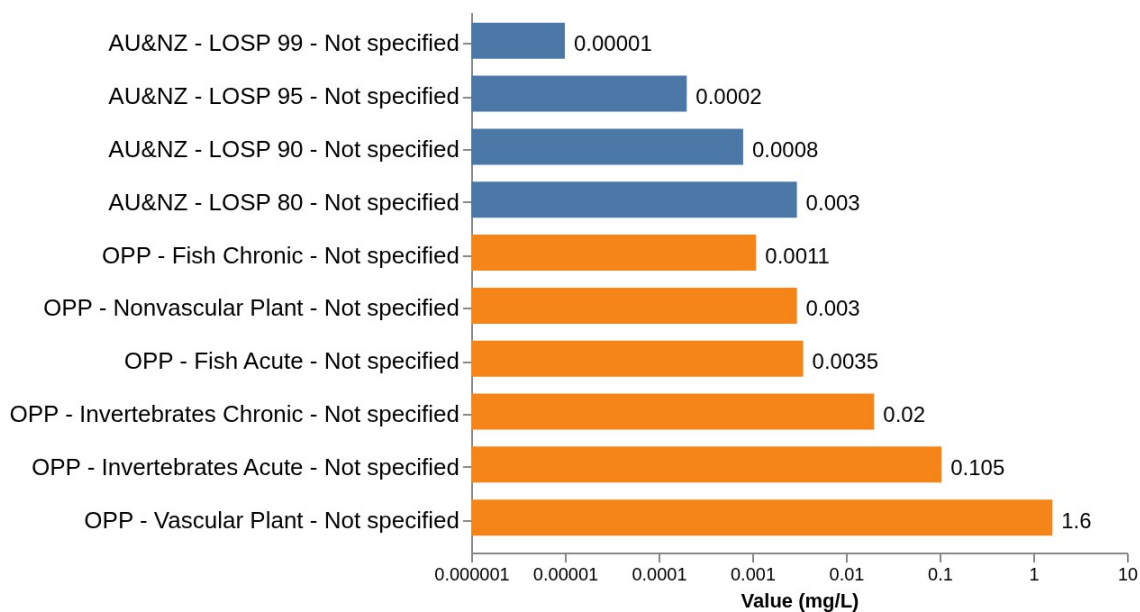
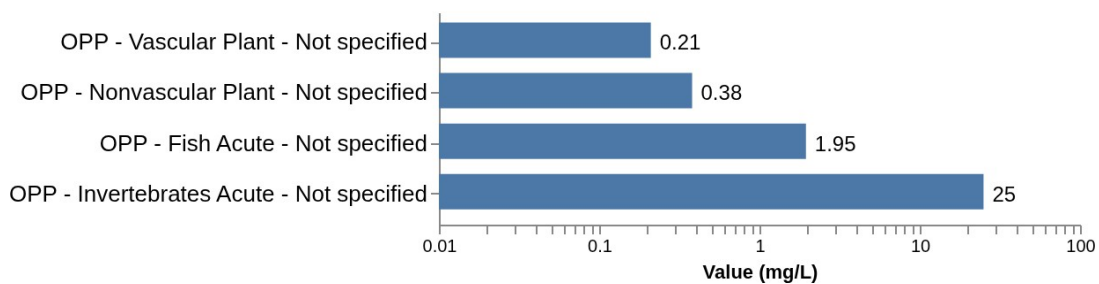


Table 976: Benchmark Values for Thitrol (MCPB) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
94-81-5	OPP	Freshwater Vascular Plant	Not specified	0.21
94-81-5	OPP	Freshwater Nonvascular Plant	Not specified	0.38
94-81-5	OPP	Freshwater Fish Acute	Not specified	1.95
94-81-5	OPP	Freshwater Invertebrates Acute	Not specified	25.00

Benchmark Values for Thitrol (MCPB) in Surface Water (Fresh Water)**Table 977: Benchmark Values for Tin in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-31-5	EPA Region 3	BTAG – Freshwater	Not specified	0.073
7440-31-5	EPA Region 4	Chronic Freshwater	Not specified	0.180
7440-31-5	EPA Region 4	Acute Freshwater	Not specified	1.600
7440-31-5	EPA Region 6	Freshwater Chronic	Not specified	0.073
7440-31-5	EPA Region 6	Freshwater Acute	Not specified	2.680

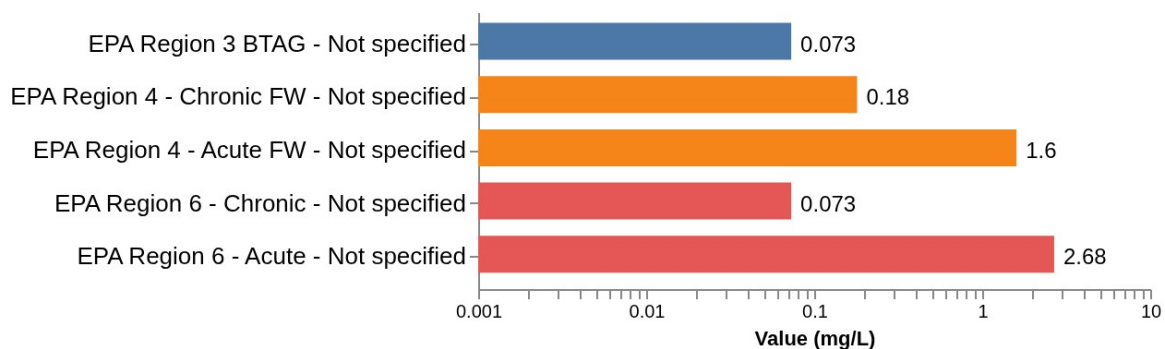
Benchmark Values for Tin in Surface Water (Fresh Water)

Table 978: Benchmark Values for Tioxazafen degradate 3-Theinyl 102100 (MON 102130) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-45-0	OPP	Freshwater Fish Acute	Not specified	0.0185
000000-45-0	OPP	Freshwater Invertebrates Acute	Not specified	0.4150

Benchmark Values for Tioxazafen degradate 3-Theinyl 102100 (MON 102130) in Surface Water (Fresh Water)

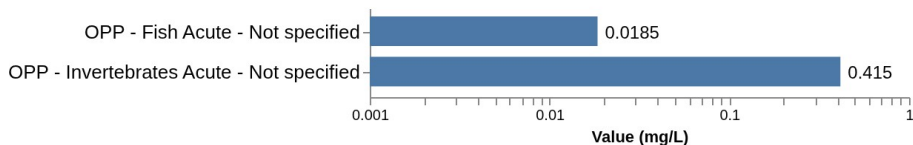


Table 979: Benchmark Values for Tioxazafen in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
330459-31-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.0059	
330459-31-9	OPP	Freshwater Fish Chronic	Not specified	0.0094	
330459-31-9	OPP	Freshwater Fish Acute	Not specified	0.0455	
330459-31-9	OPP	Freshwater Nonvascular Plant	Not specified	0.1250	
330459-31-9	OPP	Freshwater Invertebrates Acute	Not specified	0.6000	22
330459-31-9	OPP	Freshwater Vascular Plant	Not specified	0.9540	22

Benchmark Values for Tioxazafen in Surface Water (Fresh Water)

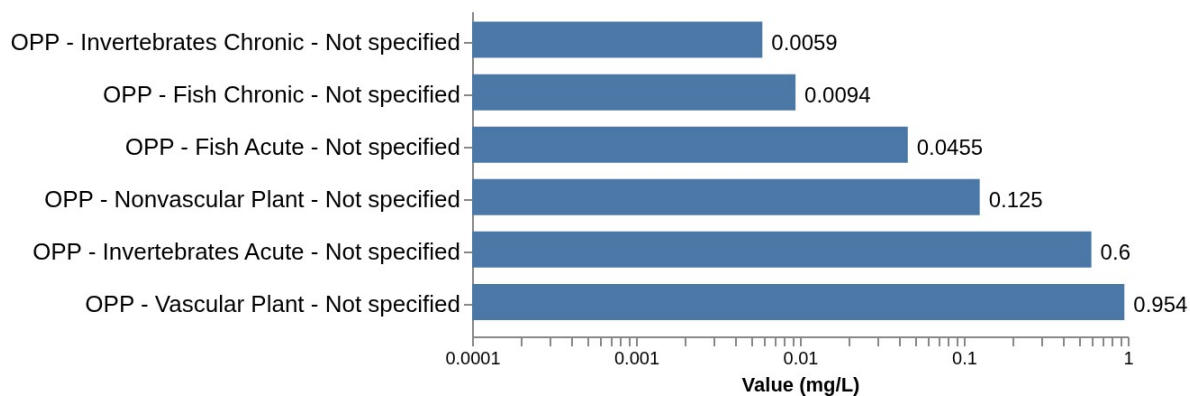
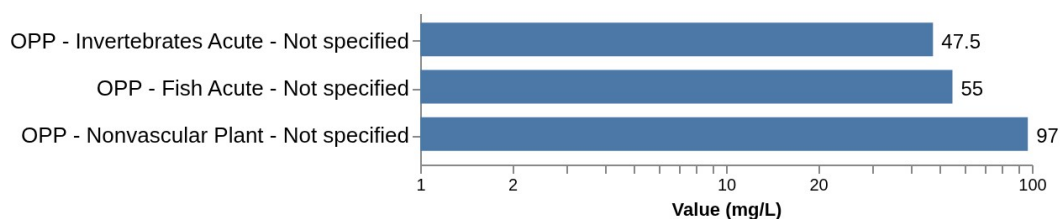
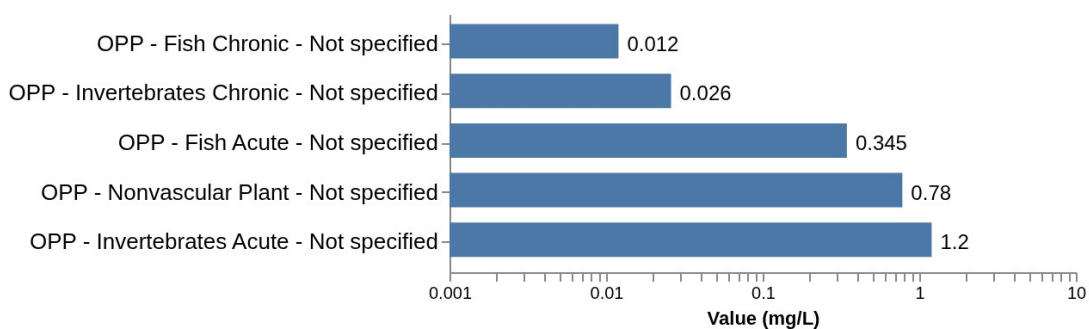


Table 980: Benchmark Values for Tolclofos-methyl degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-45-1	OPP	Freshwater Invertebrates Acute	Not specified	47.5	22
000000-45-1	OPP	Freshwater Fish Acute	Not specified	55.0	22
000000-45-1	OPP	Freshwater Nonvascular Plant	Not specified	97.0	22

Benchmark Values for Tolclofos-methyl degradate in Surface Water (Fresh Water)**Table 981: Benchmark Values for Tolclofos-methyl in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57018-04-9	OPP	Freshwater Fish Chronic	Not specified	0.012	23
57018-04-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.026	
57018-04-9	OPP	Freshwater Fish Acute	Not specified	0.345	
57018-04-9	OPP	Freshwater Nonvascular Plant	Not specified	0.780	
57018-04-9	OPP	Freshwater Invertebrates Acute	Not specified	1.200	

Benchmark Values for Tolclofos-methyl in Surface Water (Fresh Water)**Table 982: Benchmark Values for Tolfenpyrad degradate PAM in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-45-2	OPP	Freshwater Fish Acute	Not specified	5.0	22

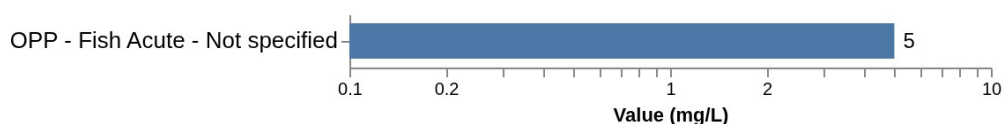
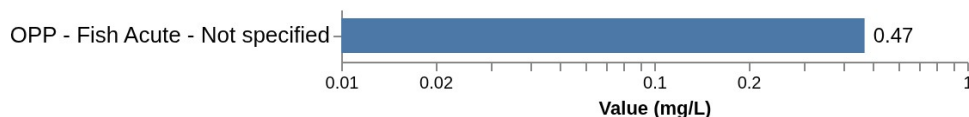
Benchmark Values for Tolfenpyrad degradate PAM in Surface Water (Fresh Water)

Table 983: Benchmark Values for Tolfenpyrad degradate PC-TA in Surface Water (Fresh Water)

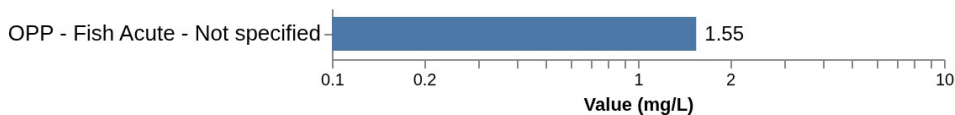
CAS	Source	Benchmark	Organism	Value (mg/L)
000000-45-3	OPP	Freshwater Fish Acute	Not specified	0.47

Benchmark Values for Tolfenpyrad degradate PC-TA in Surface Water (Fresh Water)

**Table 984: Benchmark Values for Tolfenpyrad degradate PT(A)-4OH in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-45-4	OPP	Freshwater Fish Acute	Not specified	1.55

Benchmark Values for Tolfenpyrad degradate PT(A)-4OH in Surface Water (Fresh Water)

**Table 985: Benchmark Values for Tolfenpyrad degradate PT-CA in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-45-6	OPP	Freshwater Fish Acute	Not specified	0.32

Benchmark Values for Tolfenpyrad degradate PT-CA in Surface Water (Fresh Water)

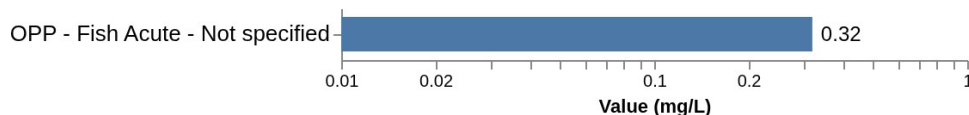


Table 986: Benchmark Values for Tolfenpyrad in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
129558-76-5	OPP	Freshwater Fish Acute	Not specified	0.000082	
129558-76-5	OPP	Freshwater Fish Chronic	Not specified	0.000188	
129558-76-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.000244	
129558-76-5	OPP	Freshwater Invertebrates Acute	Not specified	0.000500	
129558-76-5	OPP	Freshwater Nonvascular Plant	Not specified	0.010000	22
129558-76-5	OPP	Freshwater Vascular Plant	Not specified	0.030000	22

Benchmark Values for Tolfenpyrad in Surface Water (Fresh Water)

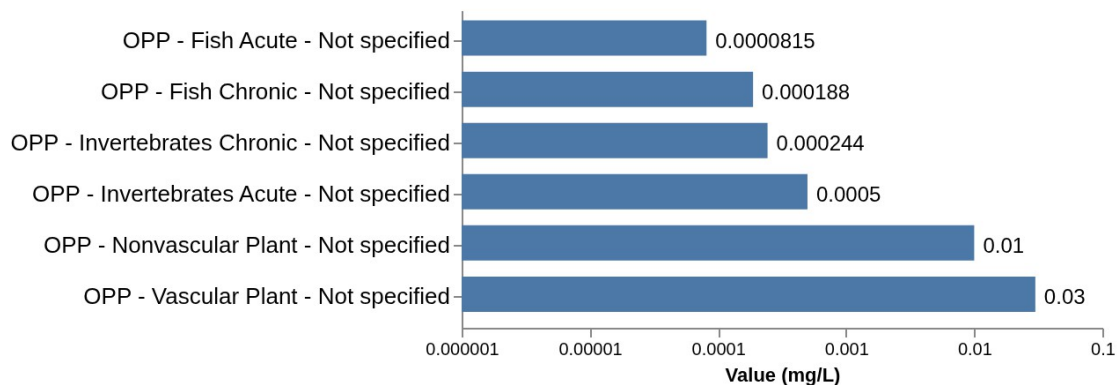


Table 987: Benchmark Values for Tolpyralate degradate MMTA in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-45-7	OPP	Freshwater Nonvascular Plant	Not specified	37.1	
000000-45-7	OPP	Freshwater Fish Acute	Not specified	50.5	22
000000-45-7	OPP	Freshwater Invertebrates Acute	Not specified	50.5	22
000000-45-7	OPP	Freshwater Vascular Plant	Not specified	98.9	22

Benchmark Values for Tolpyralate degradate MMTA in Surface Water (Fresh Water)

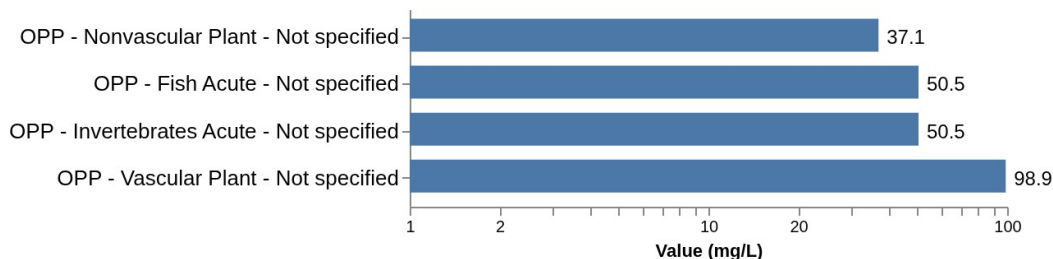


Table 988: Benchmark Values for Tolpyralate degradate MT-2153 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-45-8	OPP	Freshwater Vascular Plant	Not specified	0.00214	
000000-45-8	OPP	Freshwater Nonvascular Plant	Not specified	2.40000	
000000-45-8	OPP	Freshwater Invertebrates Acute	Not specified	52.00000	22
000000-45-8	OPP	Freshwater Fish Acute	Not specified	53.50000	22

Benchmark Values for Tolpyralate degradate MT-2153 in Surface Water (Fresh Water)

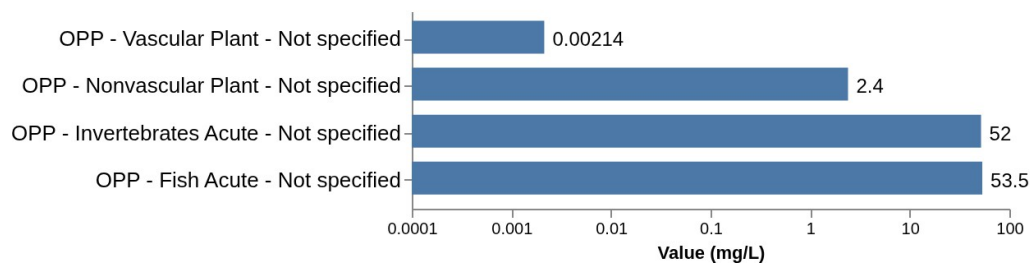


Table 989: Benchmark Values for Toluene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-88-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.1100	83
108-88-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.1800	83, 89
108-88-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.2300	83
108-88-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.3300	83
108-88-3	British Columbia	Freshwater LTC	Not specified	0.0005	
108-88-3	California	Freshwater acute toxicity	Not specified	17.5000	
108-88-3	Canada	Freshwater Long Term	Not specified	0.0020	
108-88-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.1300	
108-88-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0020	
108-88-3	EPA Region 4	Chronic Freshwater	Not specified	0.0620	
108-88-3	EPA Region 4	Acute Freshwater	Not specified	0.5600	
108-88-3	EPA Region 6	Freshwater Chronic	Not specified	3.4000	
108-88-3	EPA Region 6	Freshwater Acute	Not specified	10.2100	

Benchmark Values for Toluene in Surface Water (Fresh Water)

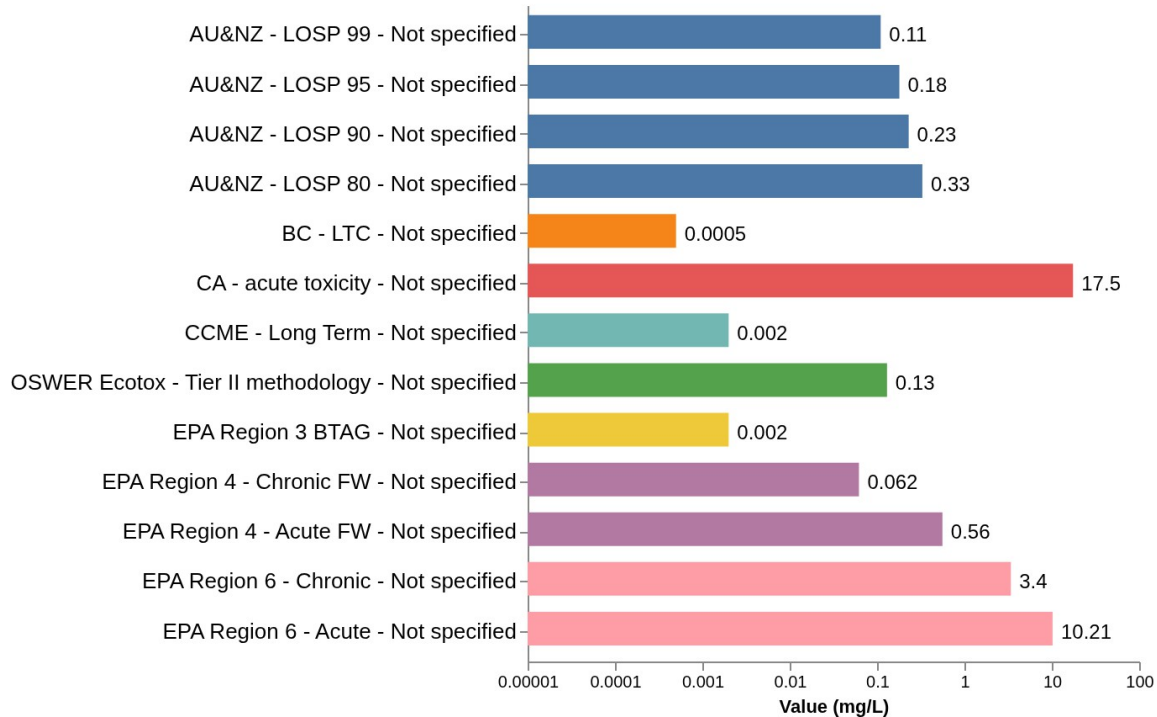


Table 990: Benchmark Values for Topramezone primary degradate (M670H05) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-45-9	OPP	Freshwater Vascular Plant	Not specified	0.36	22
000000-45-9	OPP	Freshwater Invertebrates Acute	Not specified	50.00	
000000-45-9	OPP	Freshwater Fish Acute	Not specified	52.65	

Benchmark Values for Topramezone primary degradate (M670H05) in Surface Water (Fresh Water)

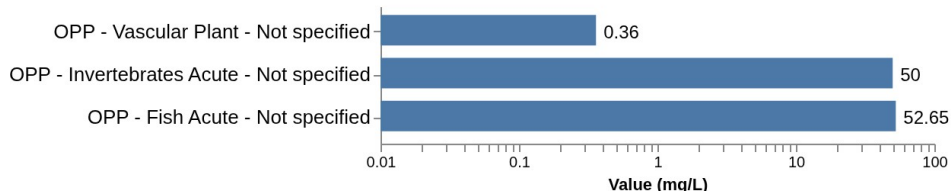


Table 991: Benchmark Values for Topramezone in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
210631-68-8	OPP	Freshwater Vascular Plant	Not specified	0.0067	22
210631-68-8	OPP	Freshwater Fish Chronic	Not specified	2.9300	
210631-68-8	OPP	Freshwater Fish Acute	Not specified	14.1900	
210631-68-8	OPP	Freshwater Invertebrates Acute	Not specified	14.8500	
210631-68-8	OPP	Freshwater Nonvascular Plant	Not specified	19.0000	
210631-68-8	OPP	Freshwater Invertebrates Chronic	Not specified	48.6000	

Benchmark Values for Topramezone in Surface Water (Fresh Water)

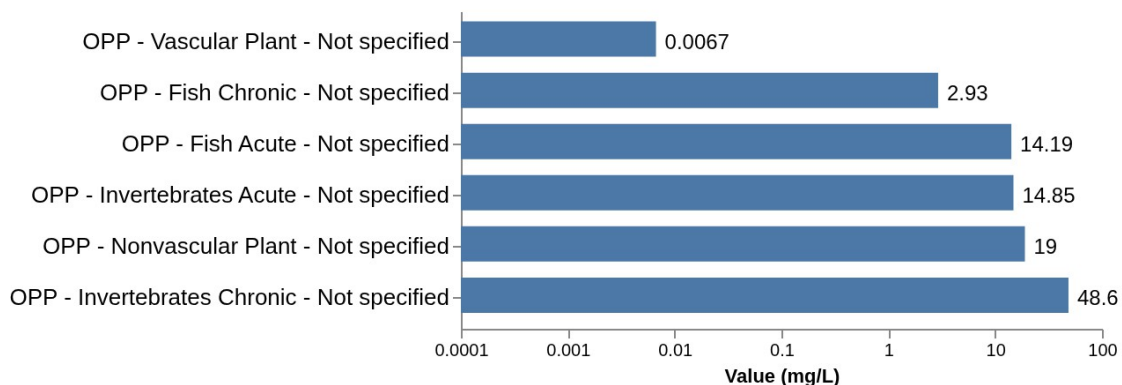


Table 992: Benchmark Values for Toxaphene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
8001-35-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	1.000000e-04	88, 89, 97
8001-35-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	2.000000e-04	88, 97
8001-35-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	3.000000e-04	88, 97
8001-35-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	5.000000e-04	88, 97
8001-35-2	California	Freshwater CCC, 4-day average	Not specified	2.000000e-07	
8001-35-2	California	Freshwater CMC, 1-hour average	Not specified	7.300000e-04	
8001-35-2	California	Freshwater CMC, 1-hour average	Not specified	7.300000e-04	
8001-35-2	Delaware	Freshwater Chronic Criterion	Not specified	2.000000e-07	
8001-35-2	Delaware	Freshwater Acute Criterion	Not specified	7.300000e-04	
8001-35-2	EPA NRWQC	Freshwater CCC Chronic	Not specified	2.000000e-07	
8001-35-2	EPA NRWQC	Freshwater CMC Acute	Not specified	7.300000e-04	
8001-35-2	EPA OSWER	Freshwater Tier II methodology	Not specified	1.100000e-05	
8001-35-2	EPA Region 3	BTAG – Freshwater	Not specified	2.000000e-07	
8001-35-2	EPA Region 4	Chronic Freshwater	Not specified	2.000000e-07	7
8001-35-2	EPA Region 4	Acute Freshwater	Not specified	7.300000e-04	7
8001-35-2	EPA Region 6	Freshwater Chronic	Not specified	2.000000e-07	
8001-35-2	EPA Region 6	Freshwater Acute	Not specified	7.800000e-04	
8001-35-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	2.000000e-07	
8001-35-2	New Jersey	Freshwater Chronic	Not specified	2.000000e-07	
8001-35-2	New Jersey	Freshwater Acute	Not specified	7.300000e-04	

Benchmark Values for Toxaphene in Surface Water (Fresh Water)

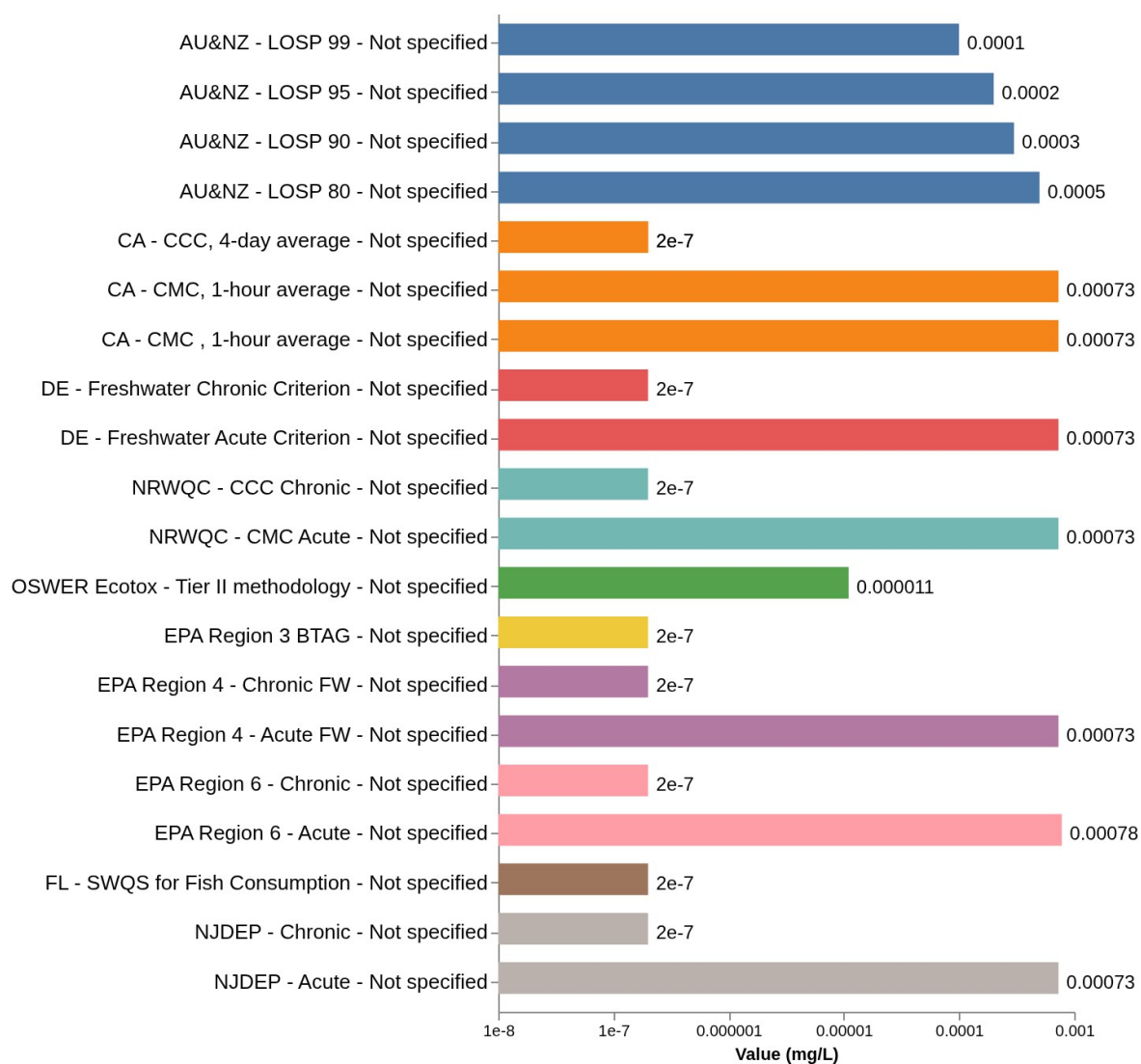


Table 993: Benchmark Values for Tralkoxydim in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87820-88-0	OPP	Freshwater Invertebrates Chronic	Not specified	2.10	
87820-88-0	OPP	Freshwater Vascular Plant	Not specified	2.60	
87820-88-0	OPP	Freshwater Fish Acute	Not specified	3.75	22
87820-88-0	OPP	Freshwater Nonvascular Plant	Not specified	7.70	
87820-88-0	OPP	Freshwater Invertebrates Acute	Not specified	87.50	22

Benchmark Values for Tralkoxydim in Surface Water (Fresh Water)

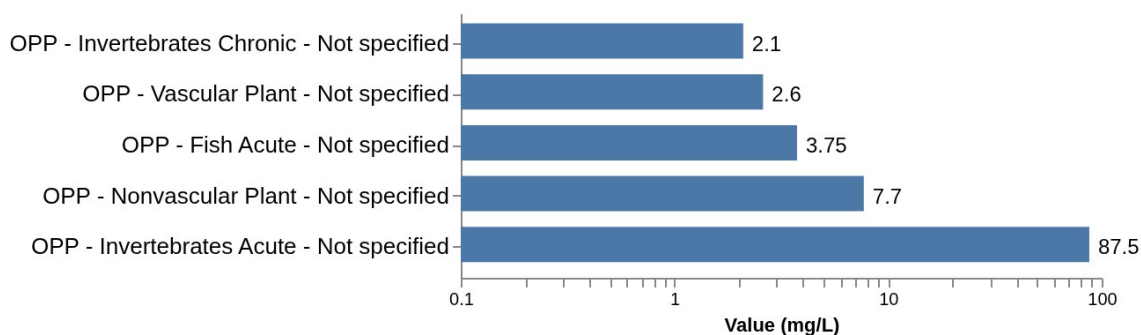


Table 994: Benchmark Values for Tralomethrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
66841-25-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.000004
66841-25-6	OPP	Freshwater Invertebrates Acute	Not specified	0.000019
66841-25-6	OPP	Freshwater Fish Chronic	Not specified	0.000088
66841-25-6	OPP	Freshwater Fish Acute	Not specified	0.000800

Benchmark Values for Tralomethrin in Surface Water (Fresh Water)

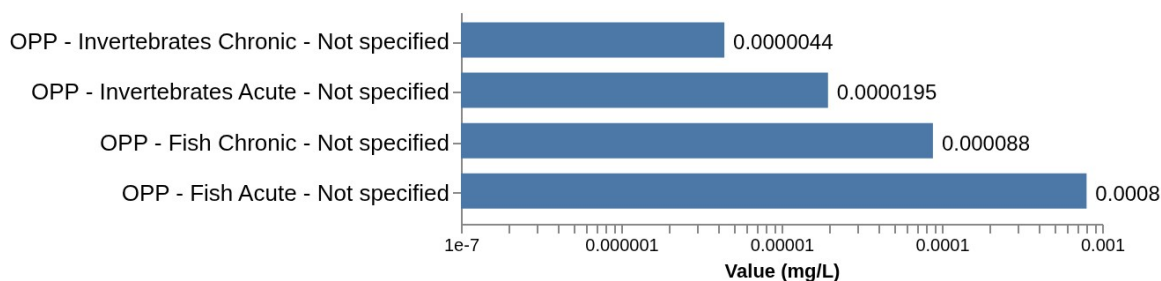


Table 995: Benchmark Values for Transfluthrin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
118712-89-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.000036
118712-89-3	OPP	Freshwater Fish Acute	Not specified	0.000355
118712-89-3	OPP	Freshwater Fish Chronic	Not specified	0.000390
118712-89-3	OPP	Freshwater Invertebrates Acute	Not specified	0.000650
118712-89-3	OPP	Freshwater Nonvascular Plant	Not specified	0.083000

Benchmark Values for Transfluthrin in Surface Water (Fresh Water)

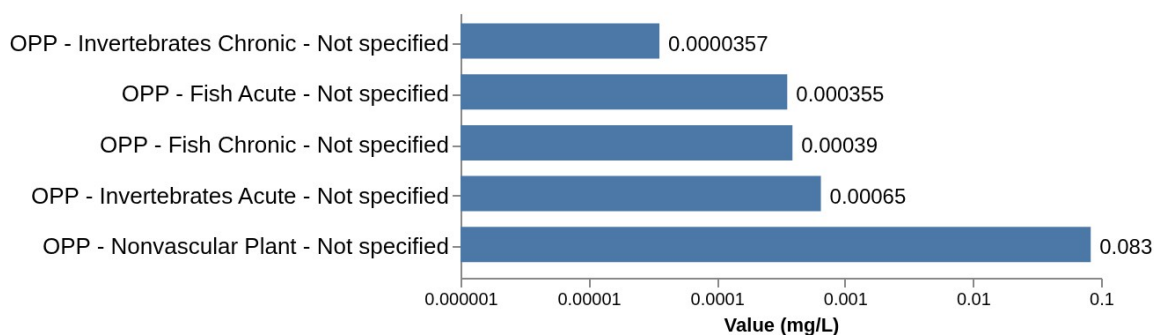


Table 996: Benchmark Values for Triadimefon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
43121-43-3	OPP	Freshwater Invertebrates Chronic	Not specified	0.052
43121-43-3	OPP	Freshwater Fish Chronic	Not specified	0.170
43121-43-3	OPP	Freshwater Invertebrates Acute	Not specified	0.800
43121-43-3	OPP	Freshwater Nonvascular Plant	Not specified	2.000
43121-43-3	OPP	Freshwater Fish Acute	Not specified	2.050

Benchmark Values for Triadimefon in Surface Water (Fresh Water)

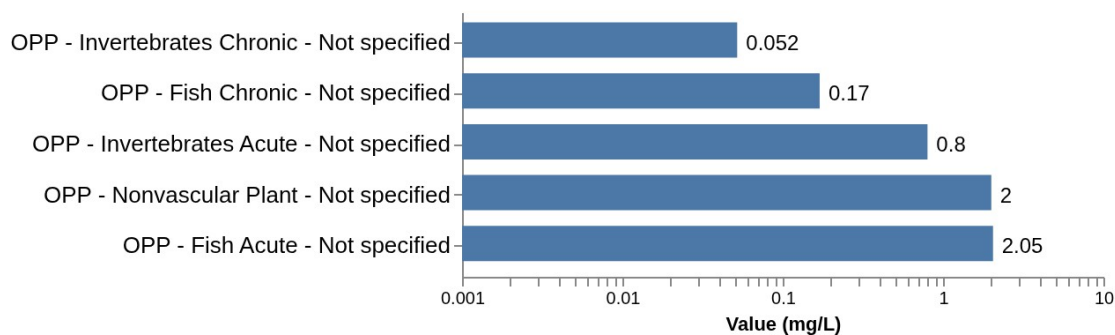


Table 997: Benchmark Values for Triallate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
2303-17-5	Canada	Freshwater Long Term	Not specified	0.00024
2303-17-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.01400
2303-17-5	OPP	Freshwater Nonvascular Plant	Not specified	0.02100
2303-17-5	OPP	Freshwater Fish Chronic	Not specified	0.03800
2303-17-5	OPP	Freshwater Invertebrates Acute	Not specified	0.04550
2303-17-5	OPP	Freshwater Fish Acute	Not specified	0.60000
2303-17-5	OPP	Freshwater Vascular Plant	Not specified	2.40000

Benchmark Values for Triallate in Surface Water (Fresh Water)

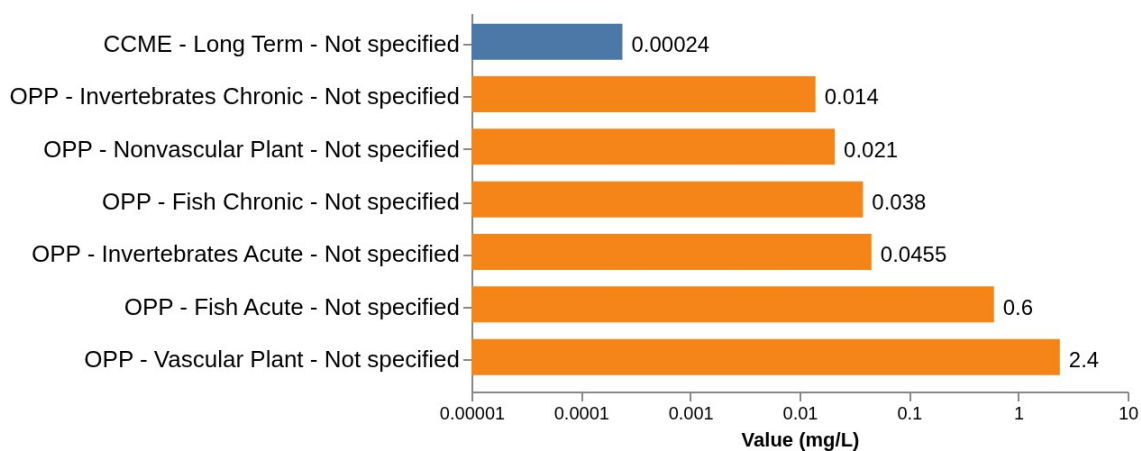


Table 998: Benchmark Values for Triasulfuron in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
82097-50-5	OPP	Freshwater Vascular Plant	Not specified	0.19	
82097-50-5	OPP	Freshwater Nonvascular Plant	Not specified	1.70	
82097-50-5	OPP	Freshwater Invertebrates Acute	Not specified	50.00	22
82097-50-5	OPP	Freshwater Fish Acute	Not specified	50.00	22
82097-50-5	OPP	Freshwater Fish Chronic	Not specified	68.60	
82097-50-5	OPP	Freshwater Invertebrates Chronic	Not specified	105.00	

Benchmark Values for Triasulfuron in Surface Water (Fresh Water)

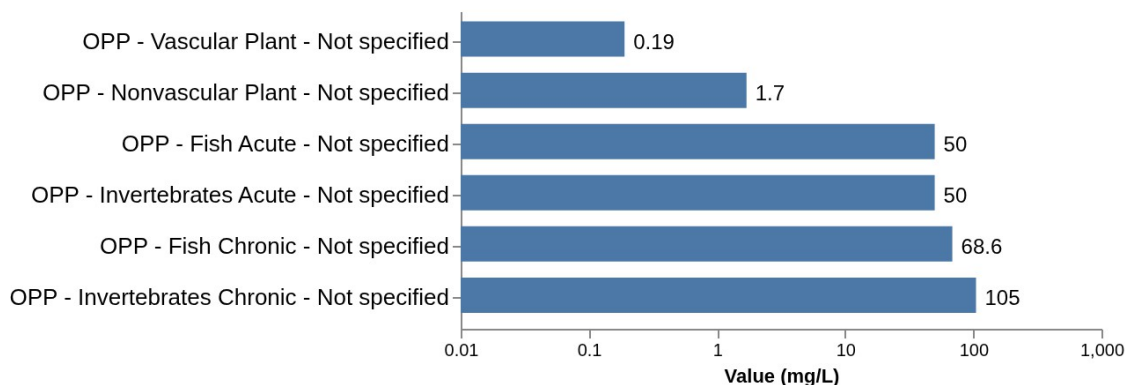


Table 999: Benchmark Values for Triazine DACT degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-0	OPP	Freshwater Invertebrates Acute	Not specified	50.0	22
000000-46-0	OPP	Freshwater Fish Acute	Not specified	50.0	22

Benchmark Values for Triazine DACT degradate in Surface Water (Fresh Water)

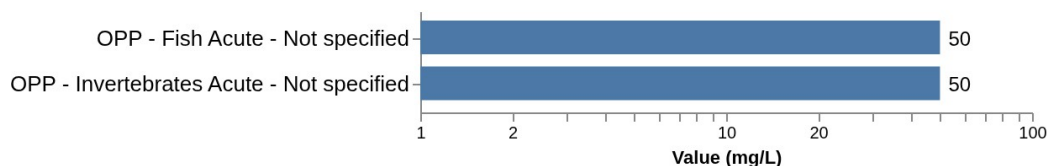


Table 1000: Benchmark Values for Triazine DEA degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-46-1	OPP	Freshwater Nonvascular Plant	Not specified	1.0

Benchmark Values for Triazine DEA degradate in Surface Water (Fresh Water)



Table 1001: Benchmark Values for Triazine DIA degradate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-46-2	OPP	Freshwater Nonvascular Plant	Not specified	2.5
000000-46-2	OPP	Freshwater Fish Acute	Not specified	8.5
000000-46-2	OPP	Freshwater Invertebrates Acute	Not specified	63.0

Benchmark Values for Triazine DIA degradate in Surface Water (Fresh Water)

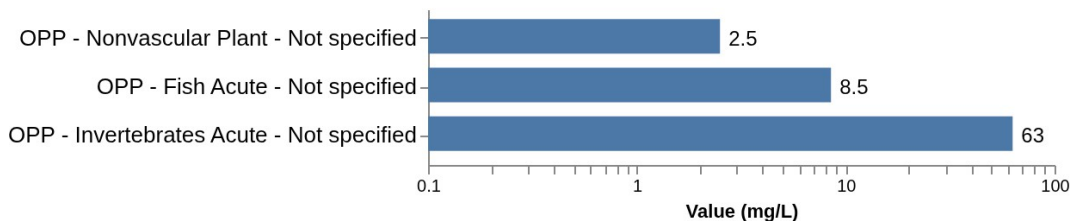


Table 1002: Benchmark Values for Triazole Acetic Acid in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
28711-29-7	OPP	Freshwater Fish Acute	Not specified	50.5	22
28711-29-7	OPP	Freshwater Invertebrates Acute	Not specified	54.0	22

Benchmark Values for Triazole Acetic Acid in Surface Water (Fresh Water)

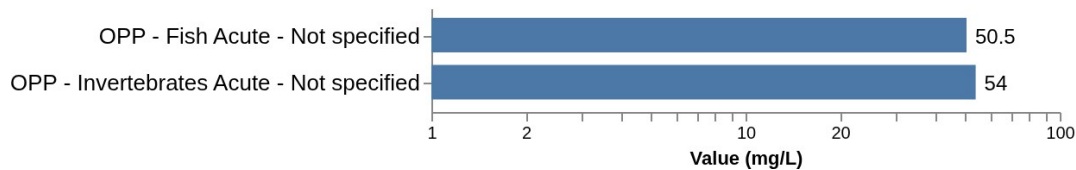


Table 1003: Benchmark Values for Triazole, 1,2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
288-88-0	OPP	Freshwater Nonvascular Plant	Not specified	14.00	
288-88-0	OPP	Freshwater Invertebrates Acute	Not specified	49.05	22
288-88-0	OPP	Freshwater Fish Acute	Not specified	249.00	

Benchmark Values for Triazole, 1,2,4- in Surface Water (Fresh Water)

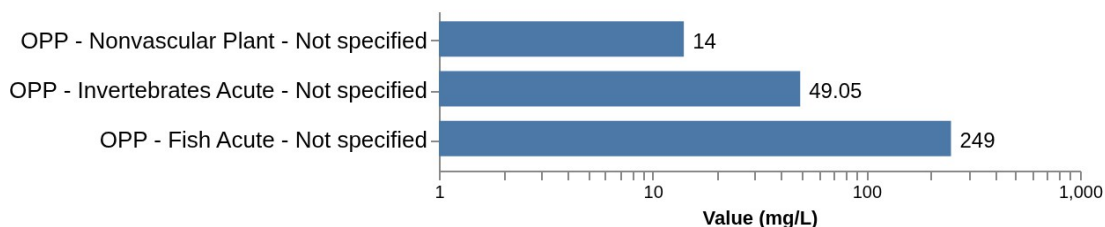


Table 1004: Benchmark Values for Tribenuron–methyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
101200–48–0	OPP	Freshwater Vascular Plant	Not specified	0.002	
101200–48–0	OPP	Freshwater Nonvascular Plant	Not specified	0.022	
101200–48–0	OPP	Freshwater Fish Chronic	Not specified	11.800	
101200–48–0	OPP	Freshwater Invertebrates Chronic	Not specified	28.000	23
101200–48–0	OPP	Freshwater Fish Acute	Not specified	50.000	22
101200–48–0	OPP	Freshwater Invertebrates Acute	Not specified	360.000	

Benchmark Values for Tribenuron-methyl in Surface Water (Fresh Water)

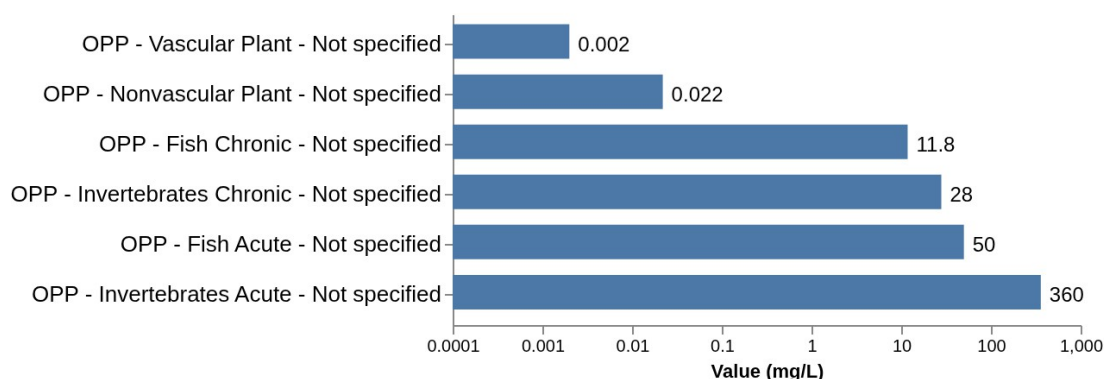


Table 1005: Benchmark Values for Tribromodiphenyl Ether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
49690–94–0	ECC Canada	Freshwater LTC	Not specified	0.000046

Benchmark Values for Tribromodiphenyl Ether in Surface Water (Fresh Water)

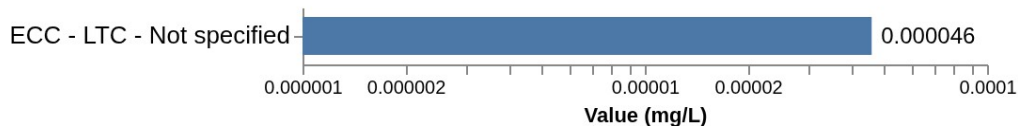


Table 1006: Benchmark Values for Tribromophenol, 2,4,6– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
118–79–6	EPA Region 4	Chronic Freshwater	Not specified	0.0056
118–79–6	EPA Region 4	Acute Freshwater	Not specified	0.0500

Benchmark Values for Tribromophenol, 2,4,6- in Surface Water (Fresh Water)

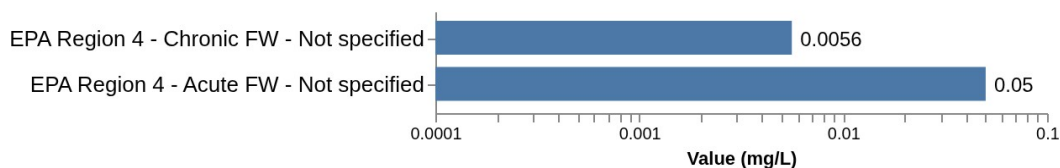


Table 1007: Benchmark Values for Tribufos in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
78-48-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00156
78-48-8	OPP	Freshwater Invertebrates Acute	Not specified	0.00270
78-48-8	OPP	Freshwater Fish Chronic	Not specified	0.00410
78-48-8	OPP	Freshwater Fish Acute	Not specified	0.14150
78-48-8	OPP	Freshwater Nonvascular Plant	Not specified	0.14800
78-48-8	OPP	Freshwater Vascular Plant	Not specified	1.10000

Benchmark Values for Tribufos in Surface Water (Fresh Water)

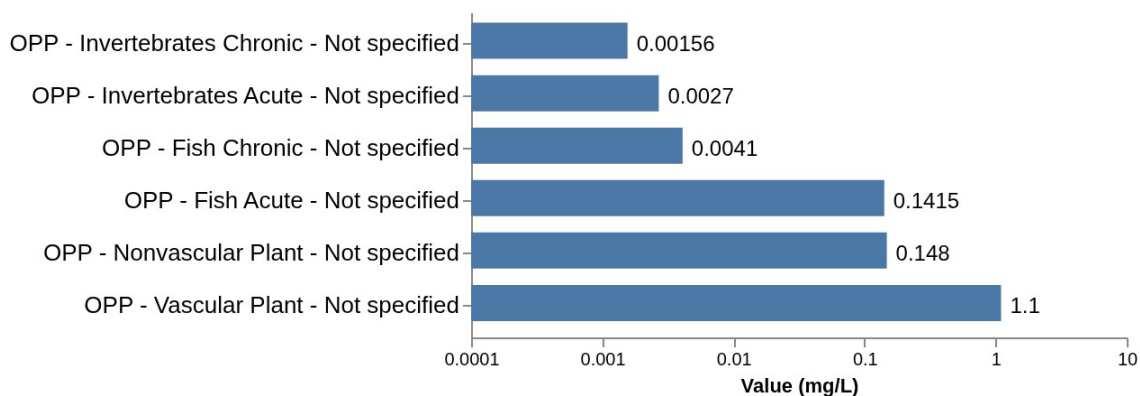


Table 1008: Benchmark Values for Tributyltin Compounds in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-01-6	Delaware	Freshwater Chronic Criterion	Not specified	0.000072
000000-01-6	Delaware	Freshwater Acute Criterion	Not specified	0.000460

Benchmark Values for Tributyltin Compounds in Surface Water (Fresh Water)

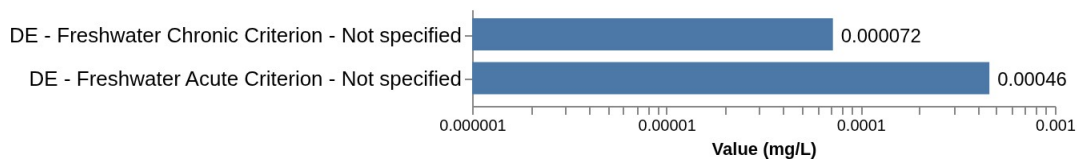


Table 1009: Benchmark Values for Trichlorfon in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
52-68-6	Canada	Freshwater Long Term	Not specified	0.000009
52-68-6	Canada	Freshwater Short Term	Not specified	0.001100
52-68-6	OPP	Freshwater Invertebrates Chronic	Not specified	0.000006
52-68-6	OPP	Freshwater Invertebrates Acute	Not specified	0.000039
52-68-6	OPP	Freshwater Fish Chronic	Not specified	0.006100
52-68-6	OPP	Freshwater Fish Acute	Not specified	0.058500
52-68-6	OPP	Freshwater Nonvascular Plant	Not specified	16.300000
52-68-6	OPP	Freshwater Vascular Plant	Not specified	70.600000

Benchmark Values for Trichlorfon in Surface Water (Fresh Water)

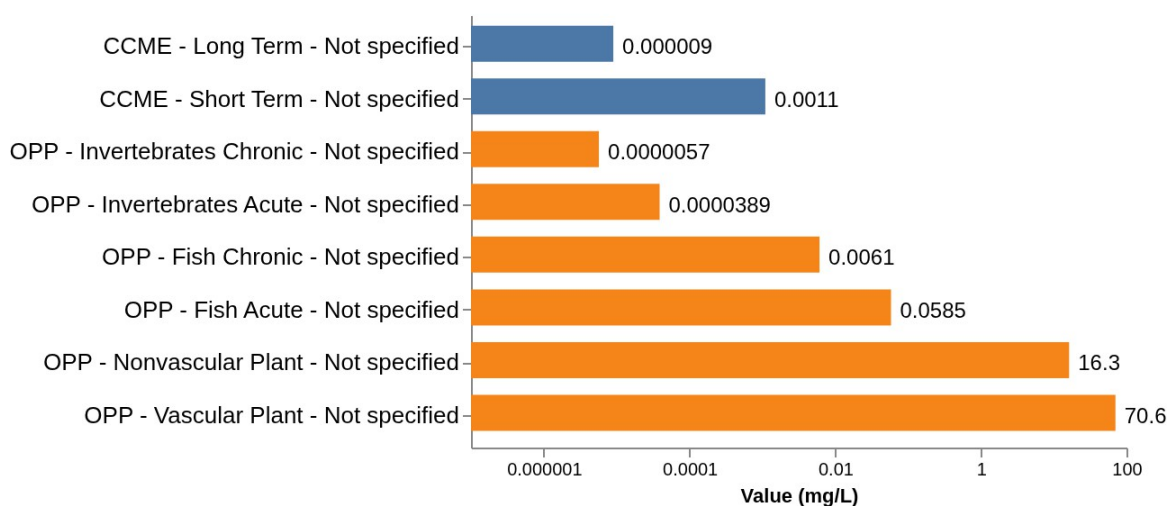


Table 1010: Benchmark Values for Trichloro-1,2,2-trifluoroethane, 1,1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
76-13-1	EPA Region 6	Freshwater Chronic	Not specified	0.207
76-13-1	EPA Region 6	Freshwater Acute	Not specified	1.239

Benchmark Values for Trichloro-1,2,2-trifluoroethane, 1,1,2- in Surface Water (Fresh Water)

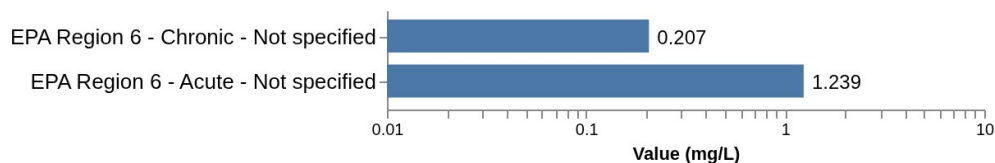


Table 1011: Benchmark Values for Trichloro-2'-hydroxydiphenylether in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
3380-34-5	ECC Canada	Freshwater LTC	Not specified	0.00012

Benchmark Values for Trichloro-2'-hydroxydiphenylether in Surface Water (Fresh Water)

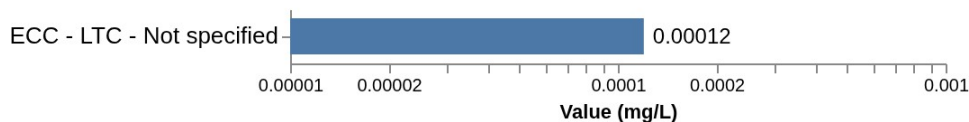


Table 1012: Benchmark Values for Trichlorobenzene, 1,2,3- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-61-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.003	87, 89, 97
87-61-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.010	87, 97
87-61-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.016	87, 97
87-61-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.030	87, 94, 97
87-61-6	Canada	Freshwater Long Term	Not specified	0.008	
87-61-6	EPA Region 3	BTAG – Freshwater	Not specified	0.008	
87-61-6	EPA Region 4	Chronic Freshwater	Not specified	0.008	
87-61-6	EPA Region 4	Acute Freshwater	Not specified	0.134	
87-61-6	EPA Region 6	Freshwater Chronic	Not specified	0.008	

Benchmark Values for Trichlorobenzene, 1,2,3- in Surface Water (Fresh Water)

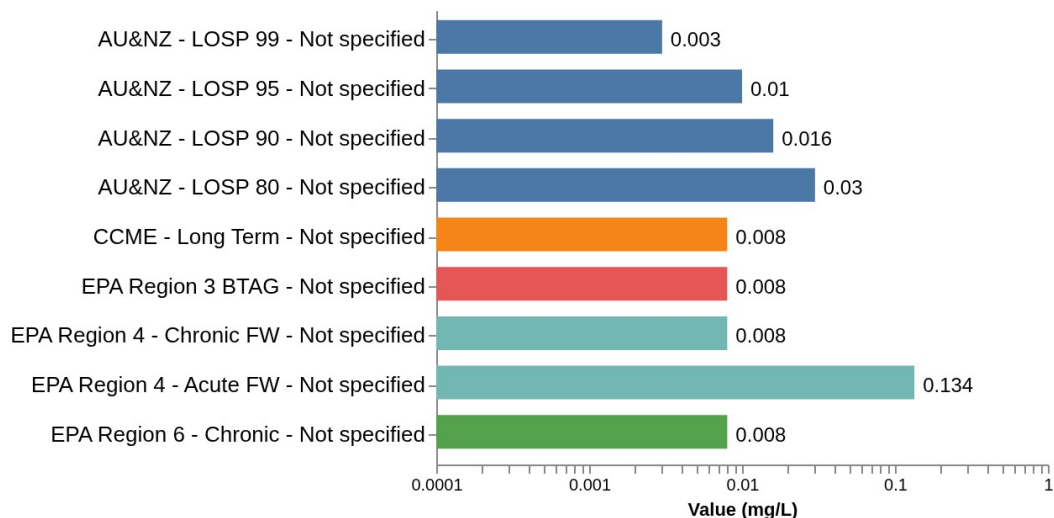


Table 1013: Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-82-1	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0850	87, 89, 97
120-82-1	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.1700	87, 90, 97
120-82-1	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.2200	87, 94, 97
120-82-1	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.3000	87, 94, 97
120-82-1	California	Freshwater other toxicity	Not specified	0.0500	
120-82-1	California	Freshwater acute toxicity	Not specified	0.2500	
120-82-1	Canada	Freshwater Long Term	Not specified	0.0240	
120-82-1	EPA OSWER	Freshwater Tier II methodology	Not specified	0.1100	
120-82-1	EPA Region 3	BTAG – Freshwater	Not specified	0.0240	
120-82-1	EPA Region 4	Chronic Freshwater	Not specified	0.1300	
120-82-1	EPA Region 4	Acute Freshwater	Not specified	0.4200	
120-82-1	EPA Region 6	Freshwater Chronic	Not specified	0.0515	
120-82-1	EPA Region 6	Freshwater Acute	Not specified	0.3090	

Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water (Fresh Water)

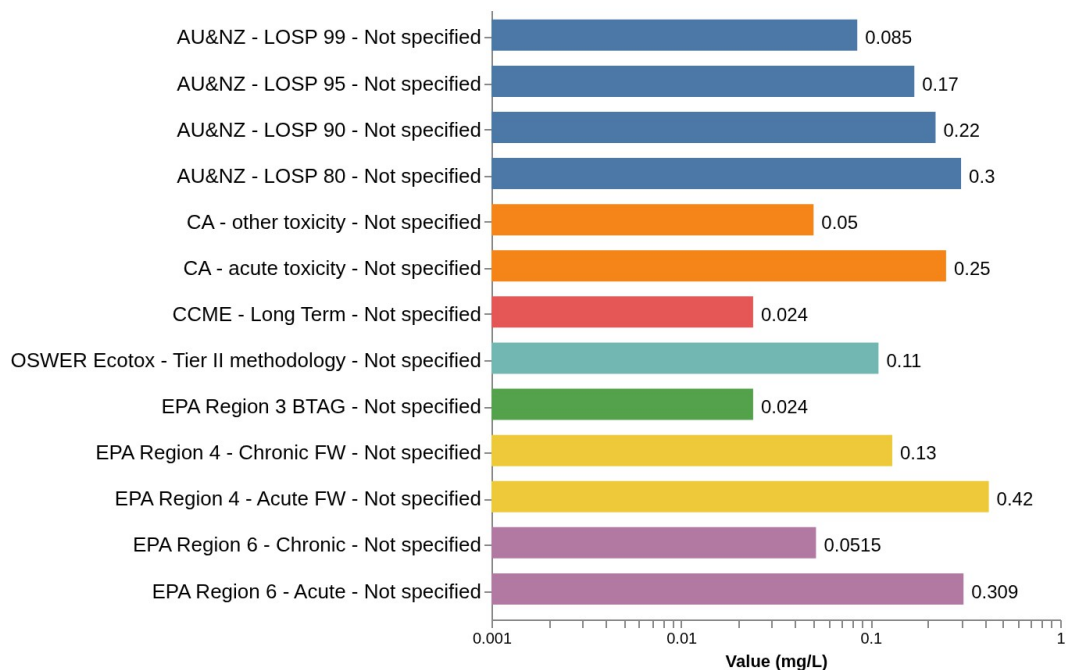


Table 1014: Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-70-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.008	83, 97
108-70-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.013	83, 97
108-70-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.020	83, 97
108-70-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.030	83, 97
108-70-3	California	Freshwater other toxicity	Not specified	0.050	
108-70-3	California	Freshwater acute toxicity	Not specified	0.250	
108-70-3	EPA Region 4	Chronic Freshwater	Not specified	0.005	
108-70-3	EPA Region 4	Acute Freshwater	Not specified	0.134	

Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water (Fresh Water)

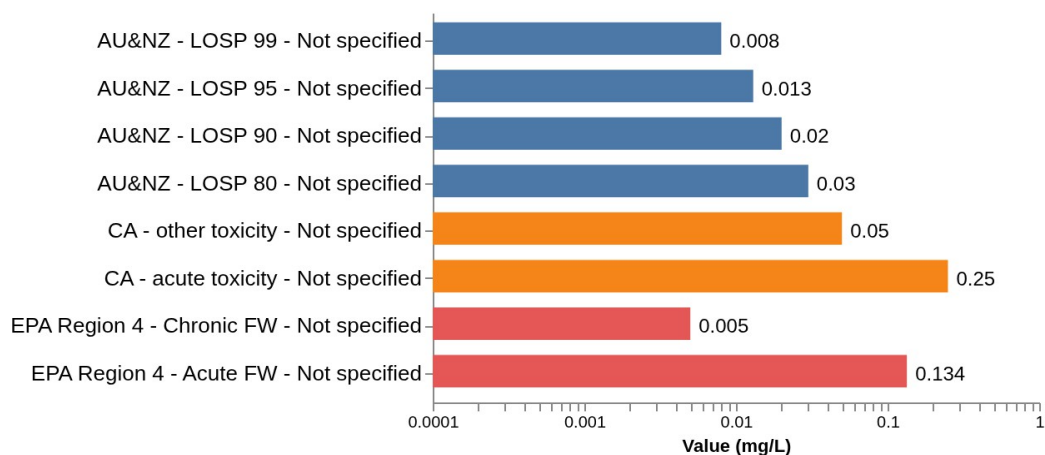


Table 1015: Benchmark Values for Trichlorobenzene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
12002-48-1	California	Freshwater other toxicity	Not specified	0.050
12002-48-1	California	Freshwater acute toxicity	Not specified	0.250
12002-48-1	EPA Region 3	BTAG – Freshwater	Not specified	0.005
12002-48-1	EPA Region 4	Chronic Freshwater	Not specified	0.005
12002-48-1	EPA Region 4	Acute Freshwater	Not specified	0.134

Benchmark Values for Trichlorobenzene in Surface Water (Fresh Water)

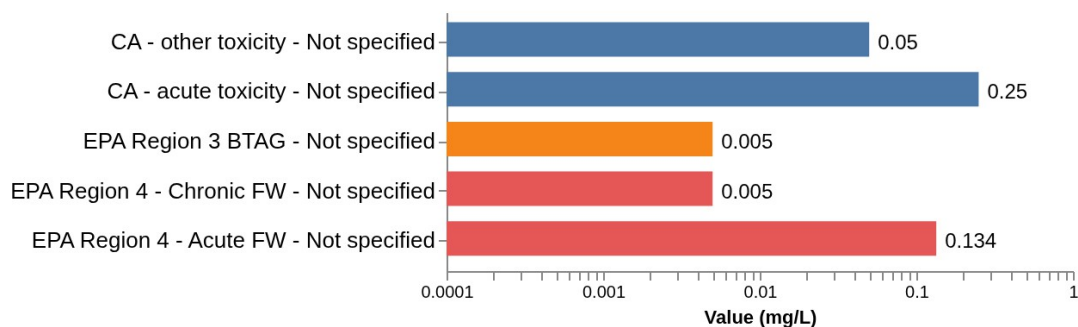


Table 1016: Benchmark Values for Trichloroethane, 1,1,1- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-55-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.130	83
71-55-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.270	83, 89
71-55-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.400	83
71-55-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.650	83
71-55-6	California	Freshwater acute toxicity	Not specified	18.000	
71-55-6	EPA OSWER	Freshwater Tier II methodology	Not specified	0.062	
71-55-6	EPA Region 3	BTAG – Freshwater	Not specified	0.011	
71-55-6	EPA Region 4	Chronic Freshwater	Not specified	0.076	
71-55-6	EPA Region 4	Acute Freshwater	Not specified	0.690	
71-55-6	EPA Region 6	Freshwater Chronic	Not specified	4.910	
71-55-6	EPA Region 6	Freshwater Acute	Not specified	14.720	

Benchmark Values for Trichloroethane, 1,1,1- in Surface Water (Fresh Water)

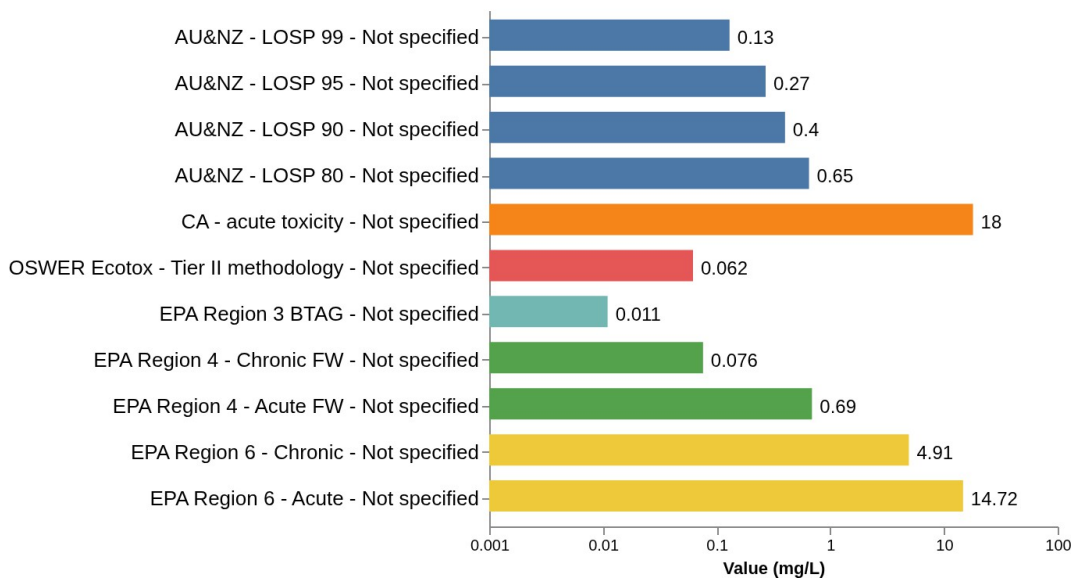


Table 1017: Benchmark Values for Trichloroethane, 1,1,2- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-00-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	5.40	88
79-00-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	6.50	88, 89
79-00-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	7.30	88
79-00-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	8.40	88
79-00-5	California	Freshwater chronic toxicity	Not specified	9.40	
79-00-5	California	Freshwater acute toxicity	Not specified	18.00	
79-00-5	EPA Region 3	BTAG – Freshwater	Not specified	1.20	
79-00-5	EPA Region 4	Chronic Freshwater	Not specified	0.73	
79-00-5	EPA Region 4	Acute Freshwater	Not specified	3.20	
79-00-5	EPA Region 6	Freshwater Chronic	Not specified	0.90	
79-00-5	EPA Region 6	Freshwater Acute	Not specified	5.40	

Benchmark Values for Trichloroethane, 1,1,2- in Surface Water (Fresh Water)

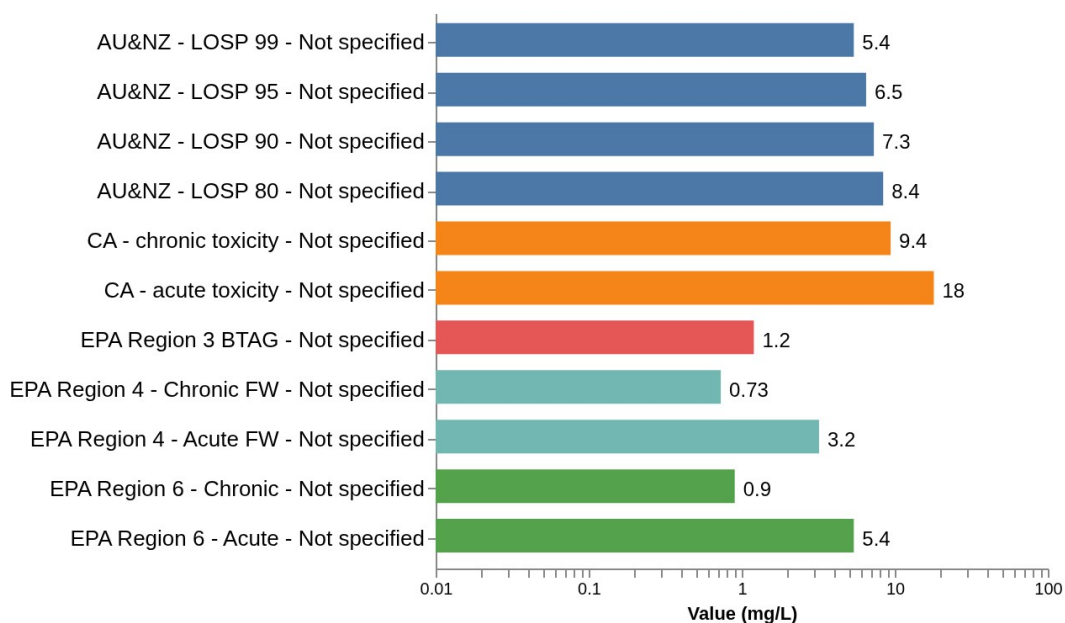


Table 1018: Benchmark Values for Trichloroethylene in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-01-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.2200	83
79-01-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.3300	83, 89
79-01-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.4000	83
79-01-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.6000	83
79-01-6	California	Freshwater other toxicity	Not specified	21.9000	
79-01-6	California	Freshwater acute toxicity	Not specified	45.0000	
79-01-6	Canada	Freshwater Long Term	Not specified	0.0210	
79-01-6	EPA OSWER	Freshwater Tier II methodology	Not specified	0.3500	
79-01-6	EPA Region 3	BTAG – Freshwater	Not specified	0.0210	
79-01-6	EPA Region 4	Chronic Freshwater	Not specified	0.2200	
79-01-6	EPA Region 4	Acute Freshwater	Not specified	2.0000	
79-01-6	EPA Region 6	Freshwater Chronic	Not specified	3.0000	
79-01-6	EPA Region 6	Freshwater Acute	Not specified	9.0000	
79-01-6	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0807	

Benchmark Values for Trichloroethylene in Surface Water (Fresh Water)

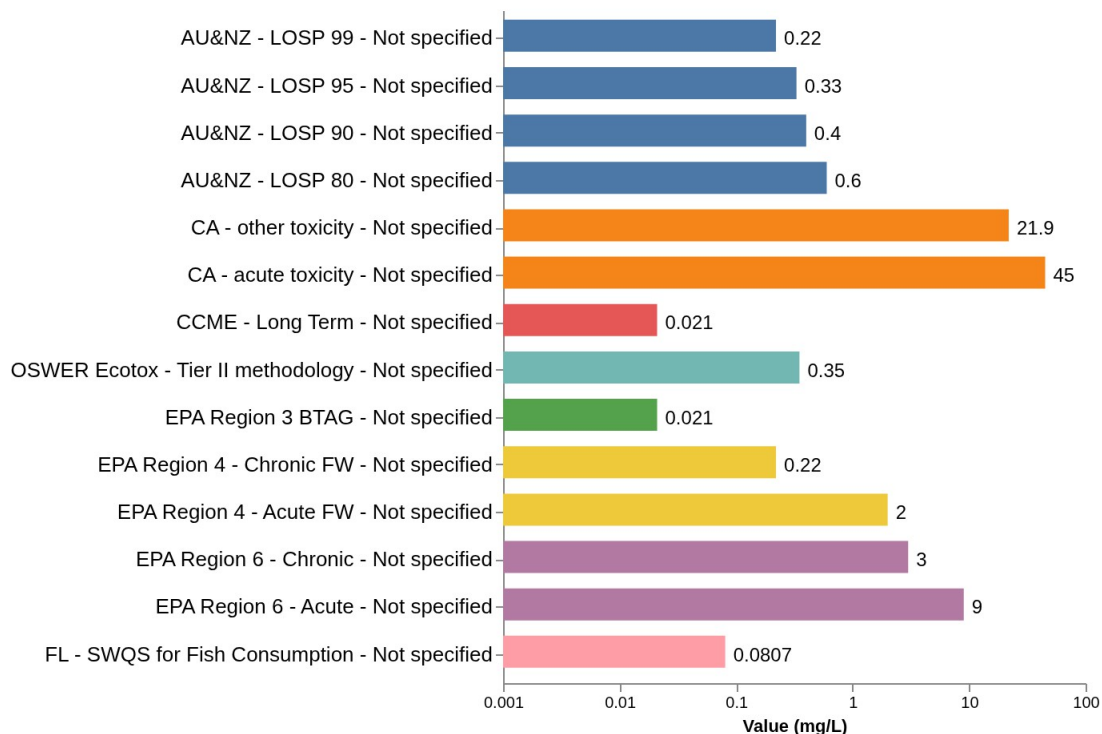


Table 1019: Benchmark Values for Trichlorofluoromethane in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
75-69-4	California	Freshwater acute toxicity	Not specified	11.000
75-69-4	EPA Region 6	Freshwater Chronic	Not specified	0.871
75-69-4	EPA Region 6	Freshwater Acute	Not specified	5.225

Benchmark Values for Trichlorofluoromethane in Surface Water (Fresh Water)

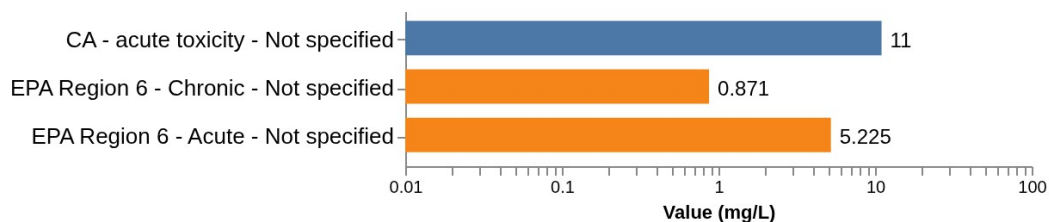


Table 1020: Benchmark Values for Trichlorophenol, 2,3,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
15950-66-0	British Columbia	Freshwater STA	Not specified	0.0013	115

Benchmark Values for Trichlorophenol, 2,3,4- in Surface Water (Fresh Water)

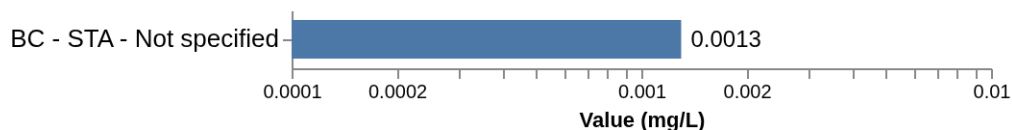


Table 1021: Benchmark Values for Trichlorophenol, 2,3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
933-78-8	British Columbia	Freshwater STA	Not specified	0.0013	115

Benchmark Values for Trichlorophenol, 2,3,5- in Surface Water (Fresh Water)

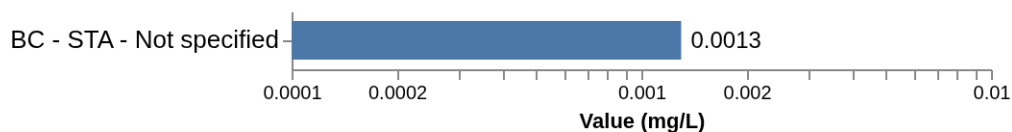


Table 1022: Benchmark Values for Trichlorophenol, 2,3,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
933-75-5	British Columbia	Freshwater STA	Not specified	0.0044	115

Benchmark Values for Trichlorophenol, 2,3,6- in Surface Water (Fresh Water)

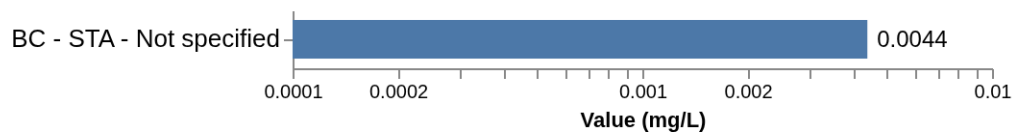


Table 1023: Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-95-4	British Columbia	Freshwater STA	Not specified	0.0012	115
95-95-4	EPA Region 4	Chronic Freshwater	Not specified	0.0019	
95-95-4	EPA Region 4	Acute Freshwater	Not specified	0.0170	
95-95-4	EPA Region 6	Freshwater Chronic	Not specified	0.0640	
95-95-4	EPA Region 6	Freshwater Acute	Not specified	0.1360	

Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water (Fresh Water)

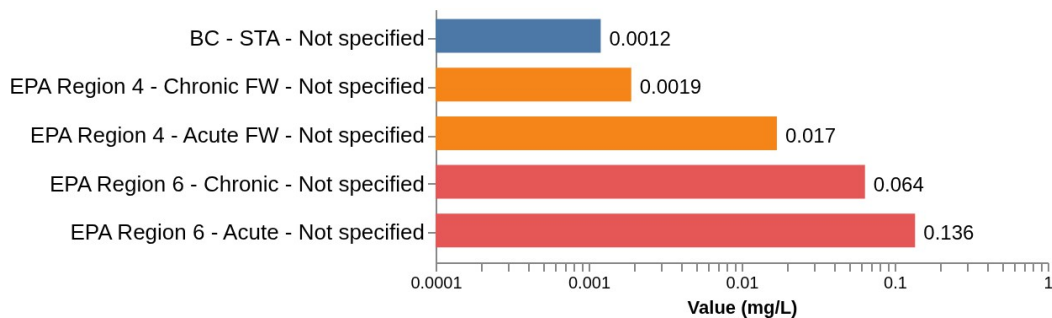


Table 1024: Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-06-2	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0030	88, 89, 98
88-06-2	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0200	88, 98
88-06-2	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.0400	88, 98
88-06-2	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.0950	88, 98
88-06-2	British Columbia	Freshwater STA	Not specified	0.0032	115
88-06-2	California	Freshwater chronic toxicity	Not specified	0.9700	
88-06-2	EPA Region 3	BTAG – Freshwater	Not specified	0.0049	
88-06-2	EPA Region 4	Chronic Freshwater	Not specified	0.0049	
88-06-2	EPA Region 4	Acute Freshwater	Not specified	0.0390	
88-06-2	EPA Region 6	Freshwater Chronic	Not specified	0.0135	
88-06-2	EPA Region 6	Freshwater Acute	Not specified	0.0810	
88-06-2	Florida	SWQS for Fish Consumption Freshwater	Not specified	0.0065	

Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water (Fresh Water)

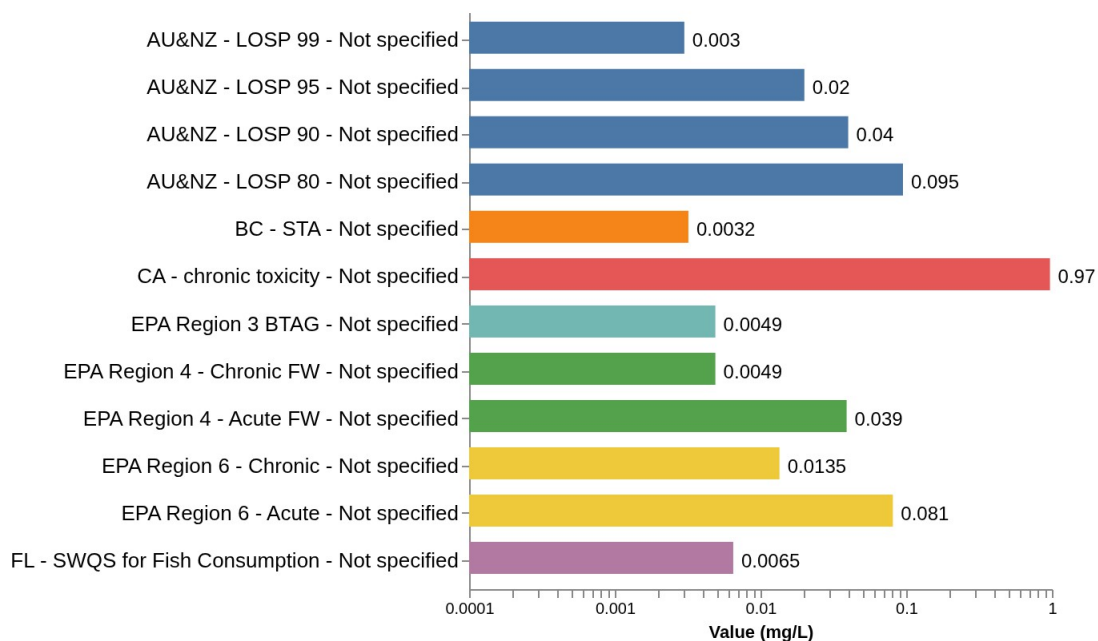


Table 1025: Benchmark Values for Trichlorophenol, 3,4,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
609-19-8	British Columbia	Freshwater STA	Not specified	0.0005	115

Benchmark Values for Trichlorophenol, 3,4,5- in Surface Water (Fresh Water)

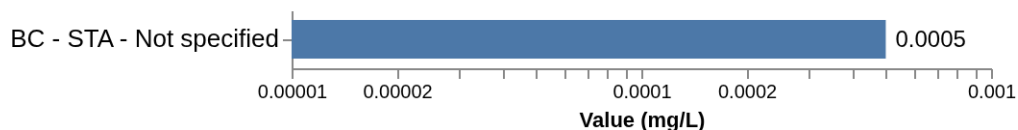


Table 1026: Benchmark Values for Trichlorophenols (total) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
25167-82-2	Canada	Freshwater Long Term	Not specified	0.018
25167-82-2	EPA Region 3	BTAG – Freshwater	Not specified	0.018

Benchmark Values for Trichlorophenols (total) in Surface Water (Fresh Water)

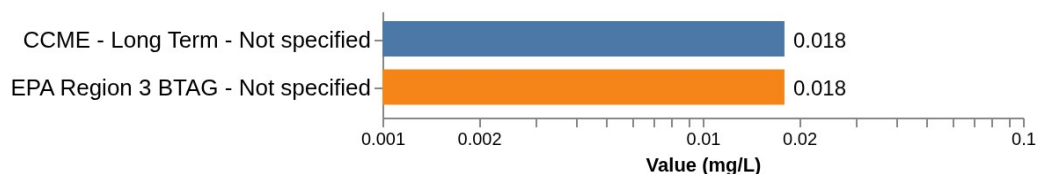


Table 1027: Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
93-76-5	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.003	88
93-76-5	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.036	88, 89
93-76-5	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.100	88
93-76-5	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.290	88, 92
93-76-5	EPA Region 3	BTAG – Freshwater	Not specified	0.686	

Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water (Fresh Water)

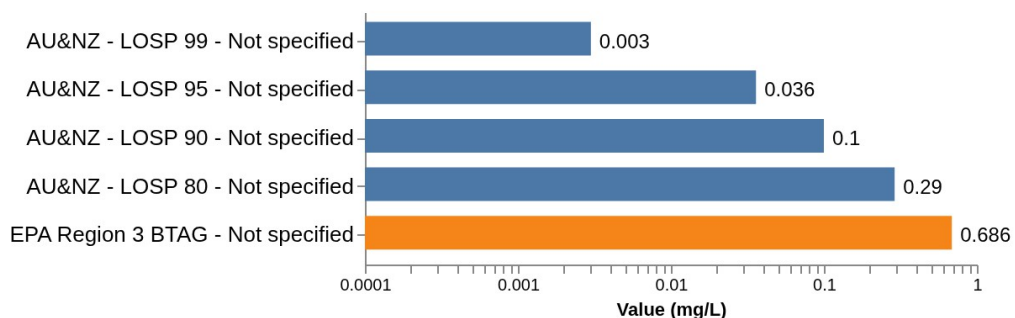


Table 1028: Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
93-72-1	EPA Region 3	BTAG – Freshwater	Not specified	0.03
93-72-1	EPA Region 4	Chronic Freshwater	Not specified	0.03
93-72-1	EPA Region 4	Acute Freshwater	Not specified	0.27

Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water (Fresh Water)

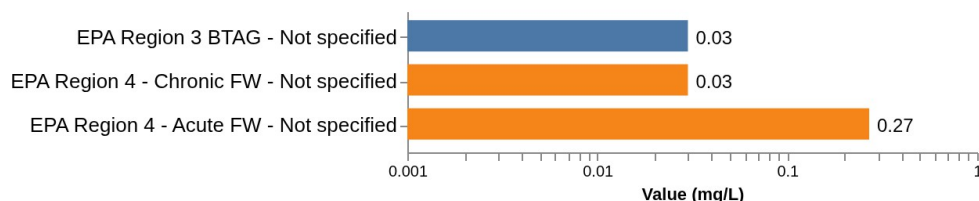


Table 1029: Benchmark Values for Triclopyr Butoxyethyl Ester (BEE) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
64700-56-7	OPP	Freshwater Fish Chronic	Not specified	0.026
64700-56-7	OPP	Freshwater Nonvascular Plant	Not specified	0.100
64700-56-7	OPP	Freshwater Fish Acute	Not specified	0.180
64700-56-7	OPP	Freshwater Invertebrates Acute	Not specified	0.850
64700-56-7	OPP	Freshwater Vascular Plant	Not specified	0.880

Benchmark Values for Triclopyr Butoxyethyl Ester (BEE) in Surface Water (Fresh Water)

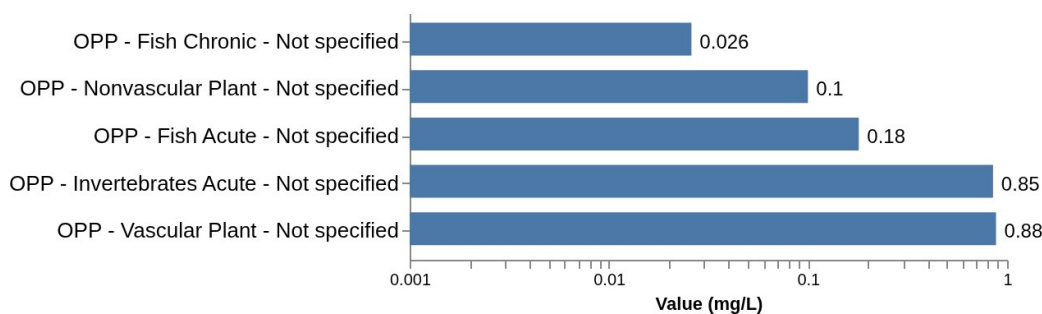
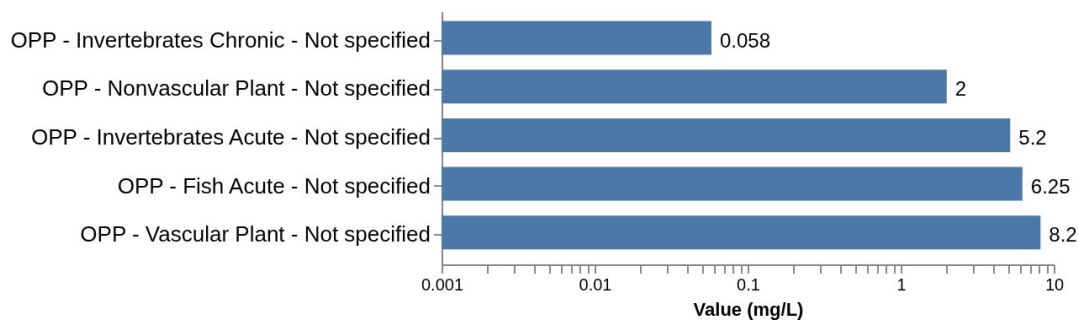


Table 1030: Benchmark Values for Triclopyr degradate TCP in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
6515-38-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.058
6515-38-4	OPP	Freshwater Nonvascular Plant	Not specified	2.000
6515-38-4	OPP	Freshwater Invertebrates Acute	Not specified	5.200
6515-38-4	OPP	Freshwater Fish Acute	Not specified	6.250
6515-38-4	OPP	Freshwater Vascular Plant	Not specified	8.200

Benchmark Values for Triclopyr degradate TCP in Surface Water (Fresh Water)**Table 1031: Benchmark Values for Triclopyr Triethylamine salt (TEA) in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
57213-69-1	OPP	Freshwater Nonvascular Plant	Not specified	5.9
57213-69-1	OPP	Freshwater Vascular Plant	Not specified	19.5
57213-69-1	OPP	Freshwater Invertebrates Chronic	Not specified	80.7
57213-69-1	OPP	Freshwater Fish Chronic	Not specified	104.0
57213-69-1	OPP	Freshwater Fish Acute	Not specified	120.0
57213-69-1	OPP	Freshwater Invertebrates Acute	Not specified	387.5

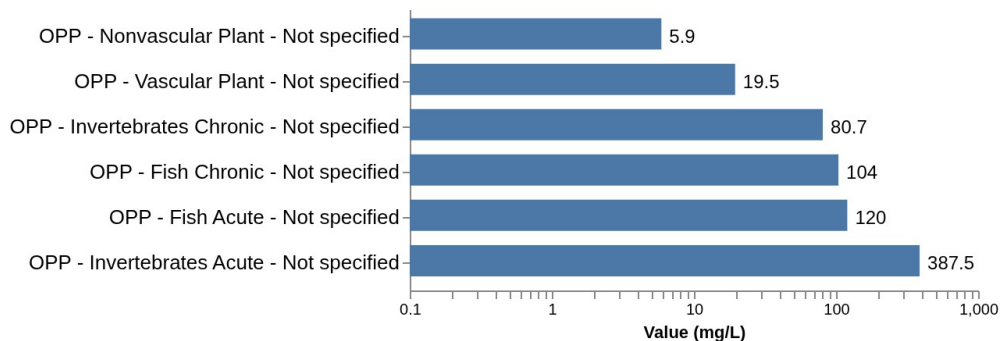
Benchmark Values for Triclopyr Triethylamine salt (TEA) in Surface Water (Fresh Water)

Table 1032: Benchmark Values for Triclopyr in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
55335-06-3	OPP	Freshwater Nonvascular Plant	Not specified	32.50
55335-06-3	OPP	Freshwater Fish Acute	Not specified	58.50
55335-06-3	OPP	Freshwater Invertebrates Acute	Not specified	66.45

Benchmark Values for Triclopyr in Surface Water (Fresh Water)

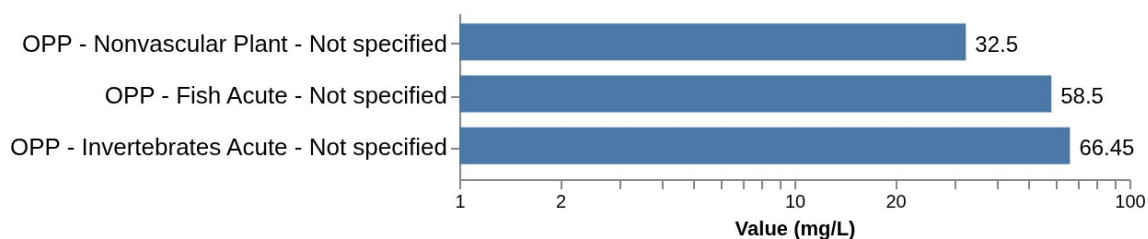


Table 1033: Benchmark Values for Triethyl tin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
997-50-2	British Columbia	Freshwater LTC	Not specified	0.0004

Benchmark Values for Triethyl tin in Surface Water (Fresh Water)

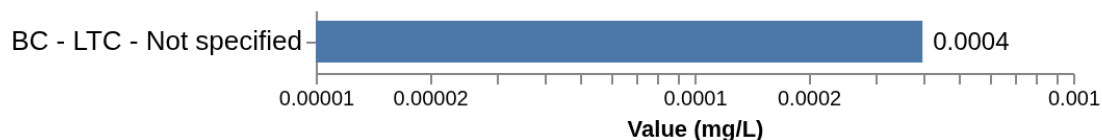
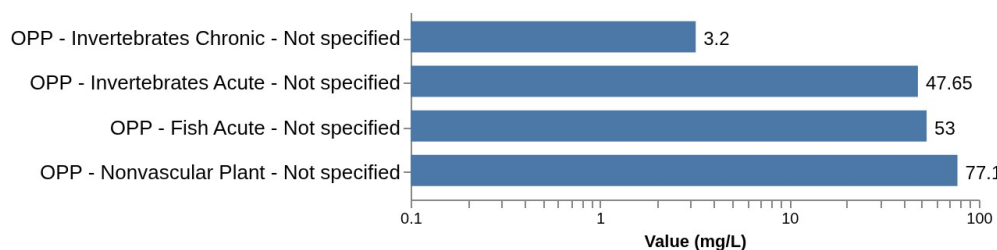


Table 1034: Benchmark Values for Trifloxystrobin degradate CGA-321113 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-3	OPP	Freshwater Invertebrates Chronic	Not specified	3.20	
000000-46-3	OPP	Freshwater Invertebrates Acute	Not specified	47.65	22
000000-46-3	OPP	Freshwater Fish Acute	Not specified	53.00	22
000000-46-3	OPP	Freshwater Nonvascular Plant	Not specified	77.10	

Benchmark Values for Trifloxystrobin degradate CGA-321113 in Surface Water (Fresh Water)**Table 1035: Benchmark Values for Trifloxystrobin in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
141517-21-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00276	
141517-21-7	OPP	Freshwater Fish Chronic	Not specified	0.00430	
141517-21-7	OPP	Freshwater Fish Acute	Not specified	0.00715	
141517-21-7	OPP	Freshwater Invertebrates Acute	Not specified	0.01265	
141517-21-7	OPP	Freshwater Nonvascular Plant	Not specified	0.03710	
141517-21-7	OPP	Freshwater Vascular Plant	Not specified	1.93000	22

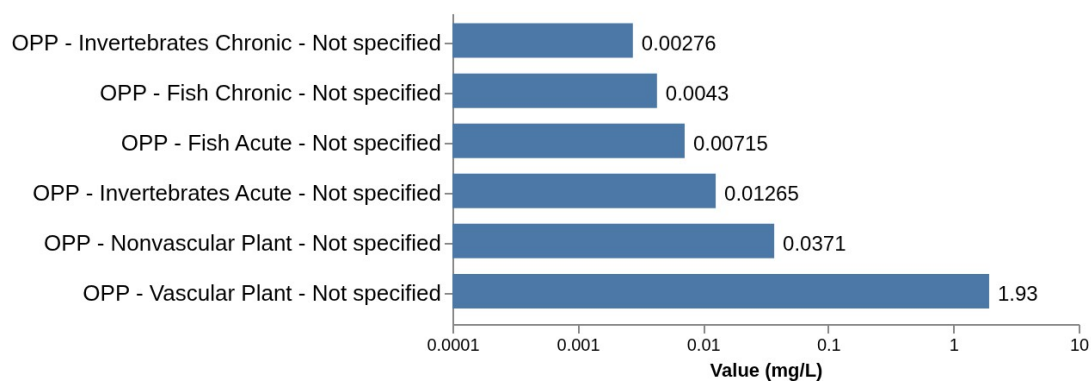
Benchmark Values for Trifloxystrobin in Surface Water (Fresh Water)

Table 1036: Benchmark Values for Trifloxysulfuron Sodium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
290332-10-4	OPP	Freshwater Vascular Plant	Not specified	0.00024	
290332-10-4	OPP	Freshwater Nonvascular Plant	Not specified	0.00650	
290332-10-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.54900	
290332-10-4	OPP	Freshwater Fish Chronic	Not specified	9.52000	
290332-10-4	OPP	Freshwater Fish Acute	Not specified	51.50000	22
290332-10-4	OPP	Freshwater Invertebrates Acute	Not specified	54.00000	22

Benchmark Values for Trifloxysulfuron Sodium in Surface Water (Fresh Water)

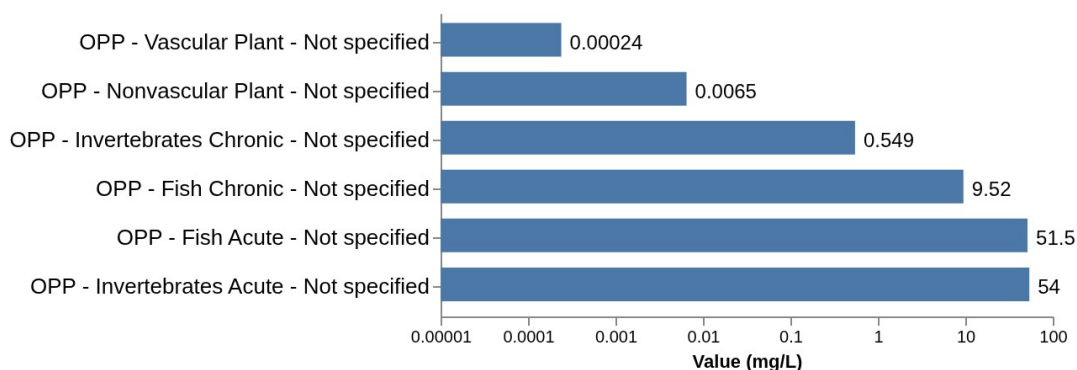


Table 1037: Benchmark Values for Trifloxysulfuron-Sodium degradate- CGA 382997 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-4	OPP	Freshwater Fish Acute	Not specified	48.35	22
000000-46-4	OPP	Freshwater Invertebrates Acute	Not specified	49.75	22
000000-46-4	OPP	Freshwater Nonvascular Plant	Not specified	95.85	22

Benchmark Values for Trifloxysulfuron-Sodium degradate- CGA 382997 in Surface Water (Fresh Water)

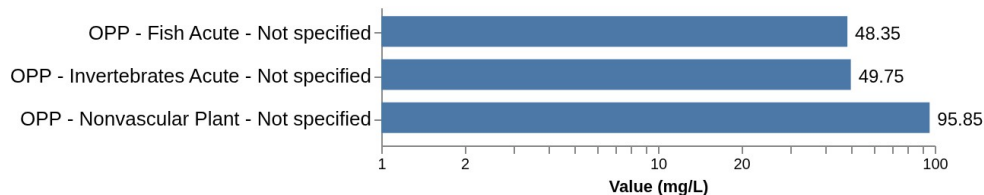


Table 1038: Benchmark Values for Trifloxysulfuron-Sodium degradate- CGA-368732 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-5	OPP	Freshwater Nonvascular Plant	Not specified	23.0	
000000-46-5	OPP	Freshwater Fish Acute	Not specified	52.0	22
000000-46-5	OPP	Freshwater Invertebrates Acute	Not specified	59.5	22

Benchmark Values for Trifloxysulfuron-Sodium degradate- CGA-368732 in Surface Water (Fresh Water)

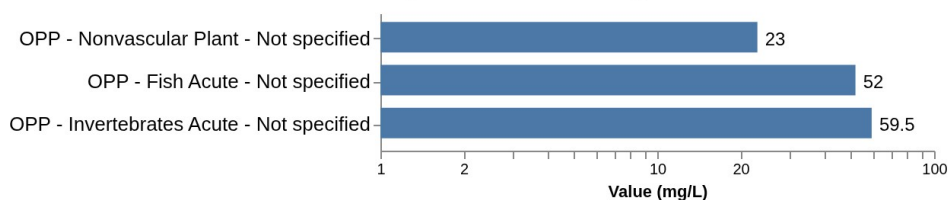


Table 1039: Benchmark Values for Trifludimoxazin Degradate M850H001 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-30-2	OPP	Freshwater Fish Acute	Not specified	0.30	
88-30-2	OPP	Freshwater Nonvascular Plant	Not specified	1.20	
88-30-2	OPP	Freshwater Fish Chronic	Not specified	1.79	
88-30-2	OPP	Freshwater Invertebrates Acute	Not specified	1.90	
88-30-2	OPP	Freshwater Vascular Plant	Not specified	9.77	22

Benchmark Values for Trifludimoxazin Degradate M850H001 in Surface Water (Fresh Water)

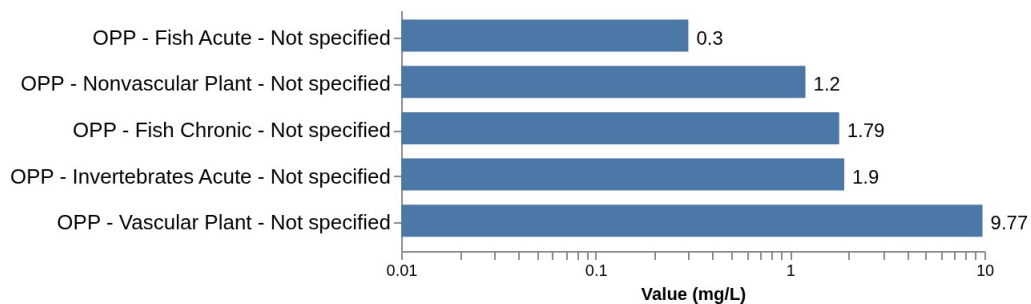


Table 1040: Benchmark Values for Trifludimoxazin Degradate M850H001 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-33-0	OPP	Freshwater Vascular Plant	Not specified	0.00378	
000000-33-0	OPP	Freshwater Nonvascular Plant	Not specified	0.00735	
000000-33-0	OPP	Freshwater Invertebrates Acute	Not specified	4.77500	22
000000-33-0	OPP	Freshwater Fish Acute	Not specified	4.85500	22

Benchmark Values for Trifludimoxazin Degradate M850H001 in Surface Water (Fresh Water)

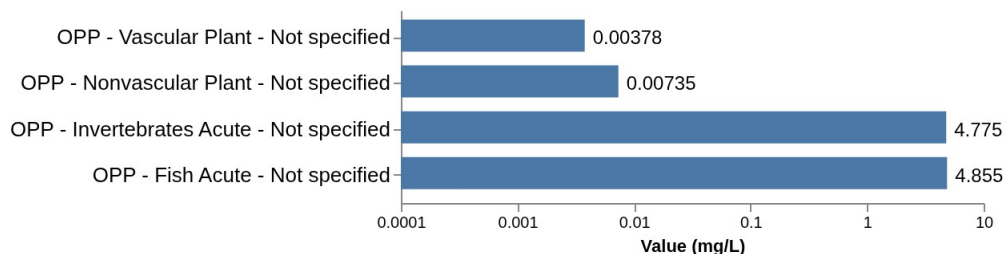


Table 1041: Benchmark Values for Trifludimoxazin Degradate M850H002 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-33-1	OPP	Freshwater Nonvascular Plant	Not specified	0.00269	
000000-33-1	OPP	Freshwater Vascular Plant	Not specified	0.02180	
000000-33-1	OPP	Freshwater Invertebrates Acute	Not specified	2.94000	22

Benchmark Values for Trifludimoxazin Degradate M850H002 in Surface Water (Fresh Water)

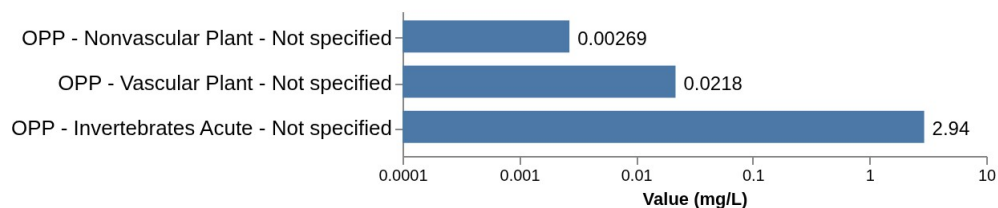
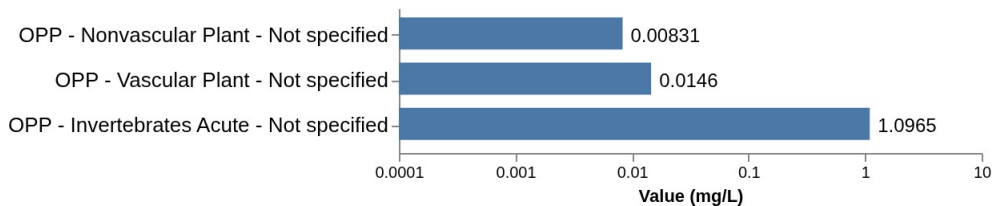


Table 1042: Benchmark Values for Trifludimoxazin Degradate M850H004 in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-33-2	OPP	Freshwater Nonvascular Plant	Not specified	0.00831	
000000-33-2	OPP	Freshwater Vascular Plant	Not specified	0.01460	
000000-33-2	OPP	Freshwater Invertebrates Acute	Not specified	1.09650	22

Benchmark Values for Trifludimoxazin Degradate M850H004 in Surface Water (Fresh Water)**Table 1043: Benchmark Values for Triflumizole in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)
68694-11-1	OPP	Freshwater Fish Chronic	Not specified	0.033
68694-11-1	OPP	Freshwater Invertebrates Chronic	Not specified	0.067
68694-11-1	OPP	Freshwater Nonvascular Plant	Not specified	0.140
68694-11-1	OPP	Freshwater Fish Acute	Not specified	0.290
68694-11-1	OPP	Freshwater Invertebrates Acute	Not specified	0.695
68694-11-1	OPP	Freshwater Vascular Plant	Not specified	0.720

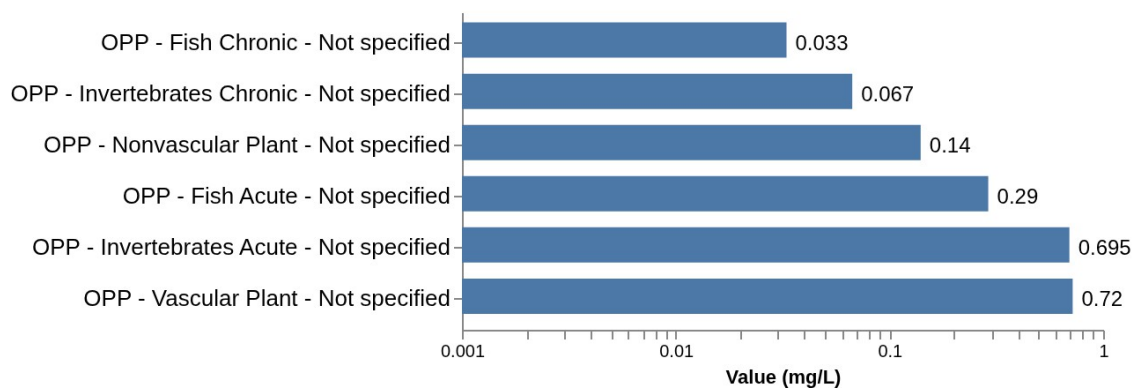
Benchmark Values for Triflumizole in Surface Water (Fresh Water)

Table 1044: Benchmark Values for Trifluralin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1582-09-8	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.00260	88, 89, 97
1582-09-8	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.00440	88, 97
1582-09-8	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.00600	88, 97
1582-09-8	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.00900	88, 92, 97
1582-09-8	Canada	Freshwater Long Term	Not specified	0.00020	
1582-09-8	EPA Region 3	BTAG – Freshwater	Not specified	0.00020	
1582-09-8	EPA Region 4	Chronic Freshwater	Not specified	0.00048	7
1582-09-8	EPA Region 4	Acute Freshwater	Not specified	0.00860	7
1582-09-8	OPP	Freshwater Fish Chronic	Not specified	0.00190	
1582-09-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.00240	
1582-09-8	OPP	Freshwater Fish Acute	Not specified	0.00925	
1582-09-8	OPP	Freshwater Nonvascular Plant	Not specified	0.02190	
1582-09-8	OPP	Freshwater Vascular Plant	Not specified	0.04970	
1582-09-8	OPP	Freshwater Invertebrates Acute	Not specified	0.12550	

Benchmark Values for Trifluralin in Surface Water (Fresh Water)

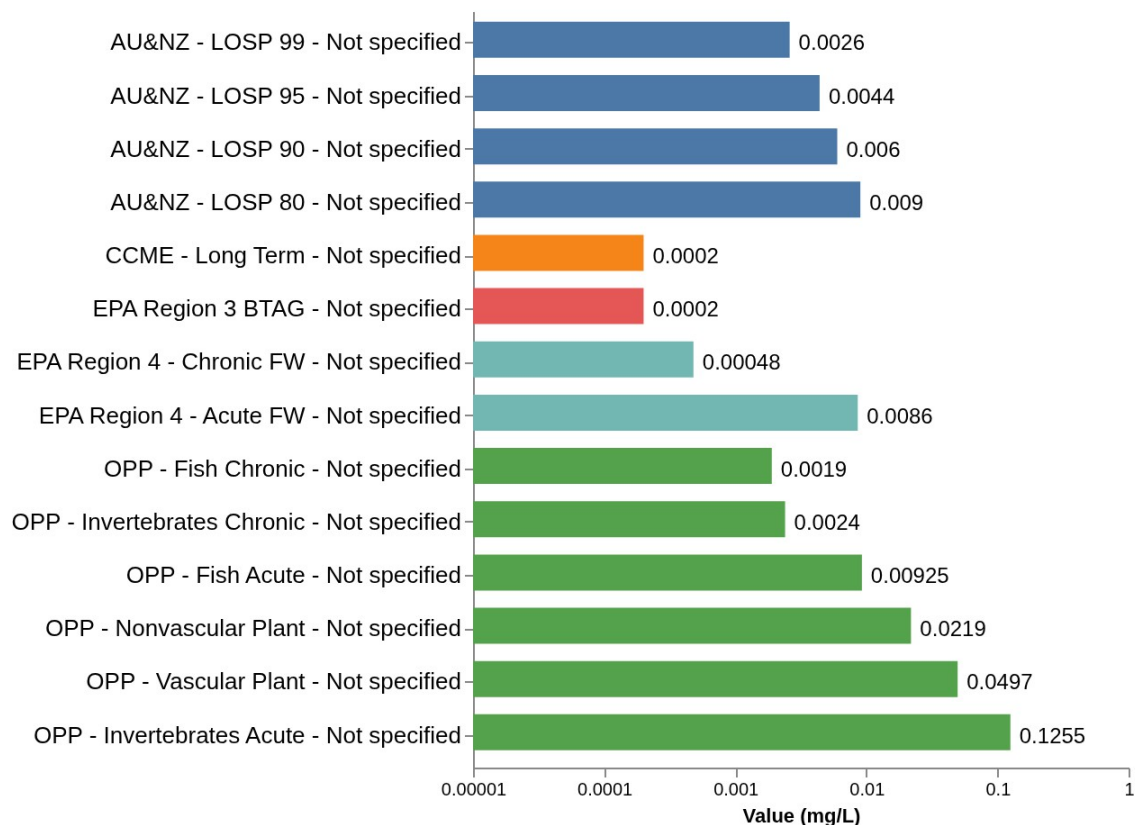


Table 1045: Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
95-63-6	EPA Region 3	BTAG – Freshwater	Not specified	0.033
95-63-6	EPA Region 4	Chronic Freshwater	Not specified	0.015
95-63-6	EPA Region 4	Acute Freshwater	Not specified	0.140
95-63-6	EPA Region 6	Freshwater Chronic	Not specified	0.077
95-63-6	EPA Region 6	Freshwater Acute	Not specified	0.462

Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water (Fresh Water)

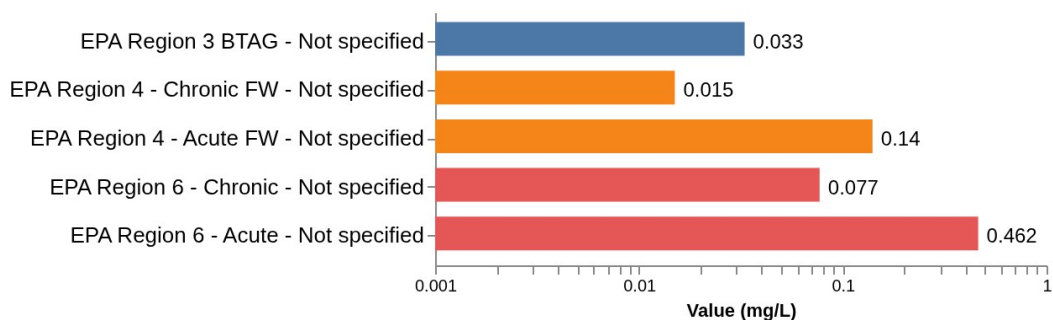


Table 1046: Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-67-8	EPA Region 3	BTAG – Freshwater	Not specified	0.0710
108-67-8	EPA Region 4	Chronic Freshwater	Not specified	0.0260
108-67-8	EPA Region 4	Acute Freshwater	Not specified	0.2300
108-67-8	EPA Region 6	Freshwater Chronic	Not specified	0.0710
108-67-8	EPA Region 6	Freshwater Acute	Not specified	0.4245

Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water (Fresh Water)

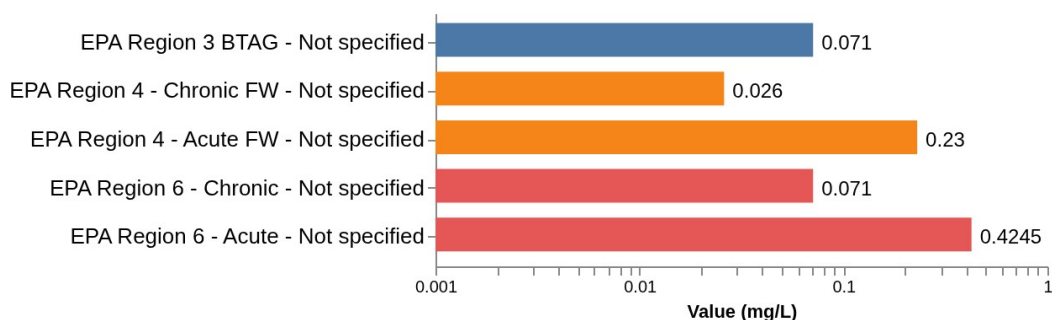


Table 1047: Benchmark Values for Tri-n-butyltin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
688-73-3	California	Freshwater CCC, 4-day average	Not specified	0.000072
688-73-3	California	Freshwater CMC, 1-hour average	Not specified	0.000460
688-73-3	Canada	Freshwater Long Term	Not specified	0.000008
688-73-3	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.000072
688-73-3	EPA NRWQC	Freshwater CMC Acute	Not specified	0.000460
688-73-3	EPA Region 3	BTAG – Freshwater	Not specified	0.000008
688-73-3	EPA Region 4	Chronic Freshwater	Not specified	0.000072
688-73-3	EPA Region 4	Acute Freshwater	Not specified	0.000460
688-73-3	EPA Region 6	Freshwater Chronic	Not specified	0.000024
688-73-3	EPA Region 6	Freshwater Acute	Not specified	0.000130

Benchmark Values for Tri-n-butyltin in Surface Water (Fresh Water)

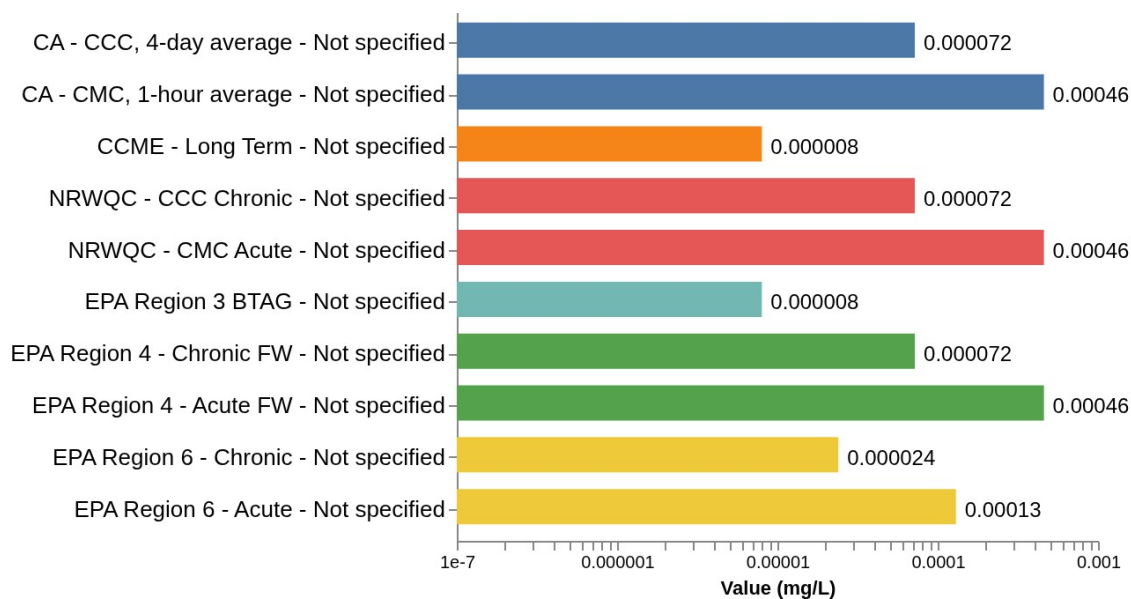


Table 1048: Benchmark Values for Trinexapac–Ethyl in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95266–40–3	OPP	Freshwater Vascular Plant	Not specified	0.19	
95266–40–3	OPP	Freshwater Nonvascular Plant	Not specified	0.35	
95266–40–3	OPP	Freshwater Fish Chronic	Not specified	0.41	
95266–40–3	OPP	Freshwater Invertebrates Chronic	Not specified	2.40	
95266–40–3	OPP	Freshwater Fish Acute	Not specified	17.50	
95266–40–3	OPP	Freshwater Invertebrates Acute	Not specified	72.75	22

Benchmark Values for Trinexapac-Ethyl in Surface Water (Fresh Water)

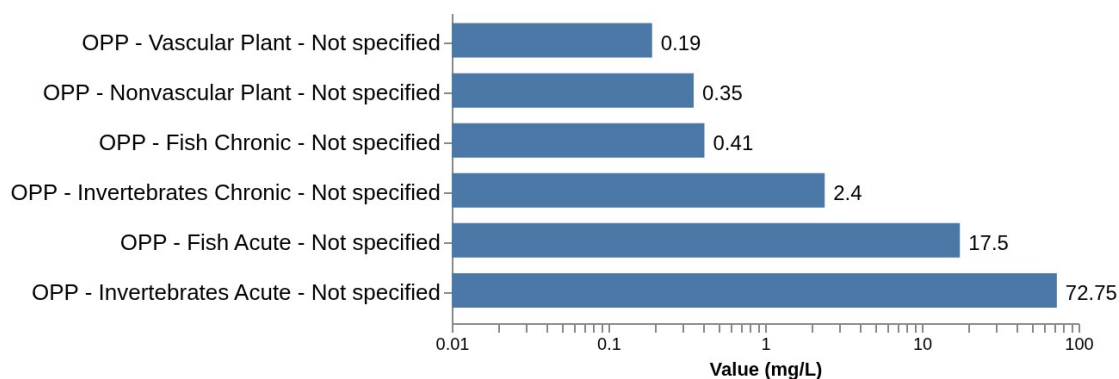


Table 1049: Benchmark Values for Trinitrobenzene, 1,3,5– in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99–35–4	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.004	83
99–35–4	EPA Region 4	Chronic Freshwater	Not specified	0.011	
99–35–4	EPA Region 4	Acute Freshwater	Not specified	0.027	
99–35–4	EPA Region 6	Freshwater Chronic	Not specified	0.011	
99–35–4	EPA Region 6	Freshwater Acute	Not specified	0.060	

Benchmark Values for Trinitrobenzene, 1,3,5- in Surface Water (Fresh Water)

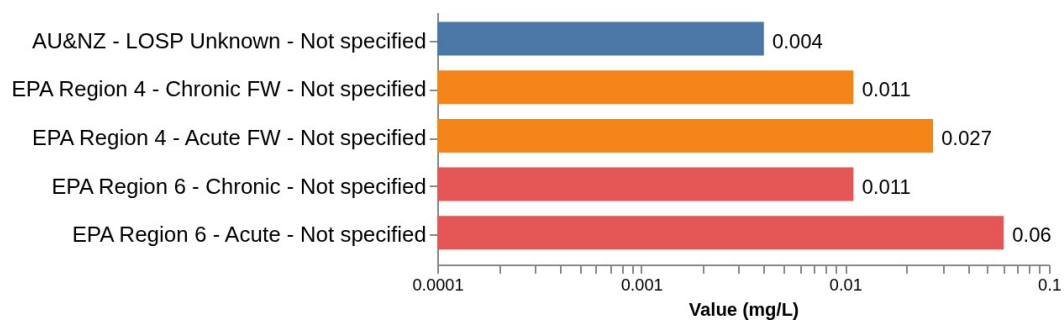


Table 1050: Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
118-96-7	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.100	88
118-96-7	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.140	88, 89
118-96-7	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.160	88
118-96-7	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.210	88
118-96-7	EPA Region 3	BTAG – Freshwater	Not specified	0.100	
118-96-7	EPA Region 4	Chronic Freshwater	Not specified	0.013	
118-96-7	EPA Region 4	Acute Freshwater	Not specified	0.120	
118-96-7	EPA Region 6	Freshwater Chronic	Not specified	0.050	
118-96-7	EPA Region 6	Freshwater Acute	Not specified	0.294	

Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water (Fresh Water)

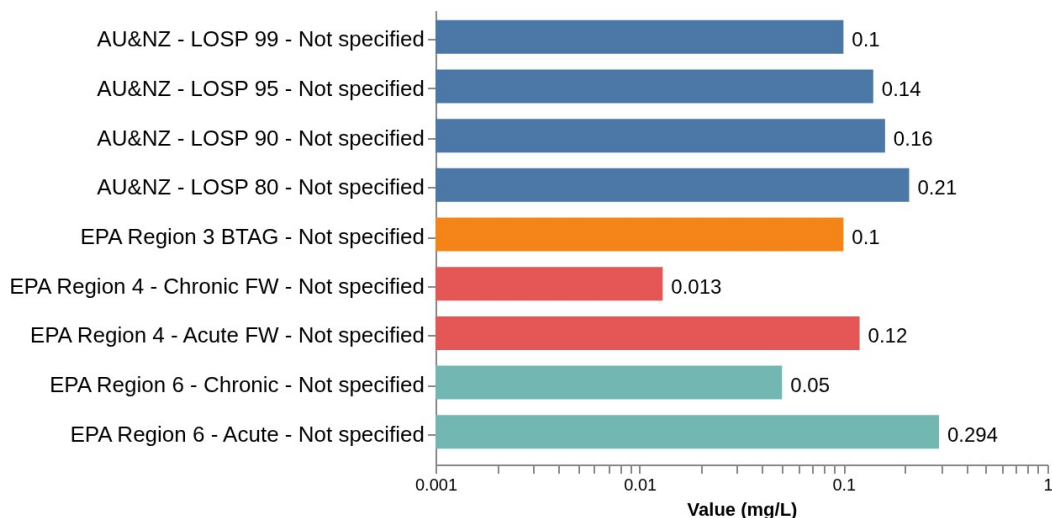


Table 1051: Benchmark Values for Triphenyl phosphate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
115-86-6	EPA Region 3	BTAG – Freshwater	Not specified	0.004
115-86-6	EPA Region 4	Chronic Freshwater	Not specified	0.004
115-86-6	EPA Region 4	Acute Freshwater	Not specified	0.040

Benchmark Values for Triphenyl phosphate in Surface Water (Fresh Water)

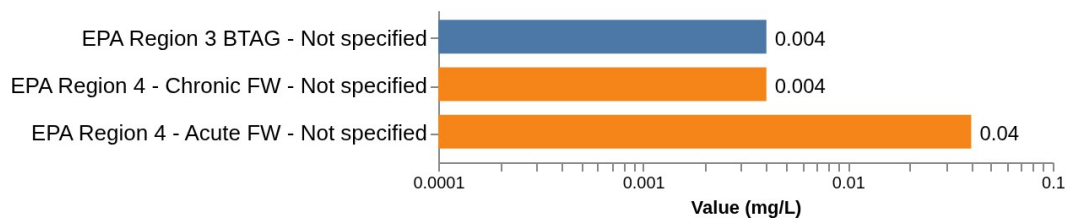


Table 1052: Benchmark Values for Triphenyltin hydroxide (TPTH) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76-87-9	OPP	Freshwater Fish Chronic	Not specified	0.000065	
76-87-9	OPP	Freshwater Invertebrates Chronic	Not specified	0.000200	23
76-87-9	OPP	Freshwater Fish Acute	Not specified	0.003550	
76-87-9	OPP	Freshwater Invertebrates Acute	Not specified	0.005000	
76-87-9	OPP	Freshwater Vascular Plant	Not specified	0.008300	
76-87-9	OPP	Freshwater Nonvascular Plant	Not specified	0.014000	

Benchmark Values for Triphenyltin hydroxide (TPTH) in Surface Water (Fresh Water)

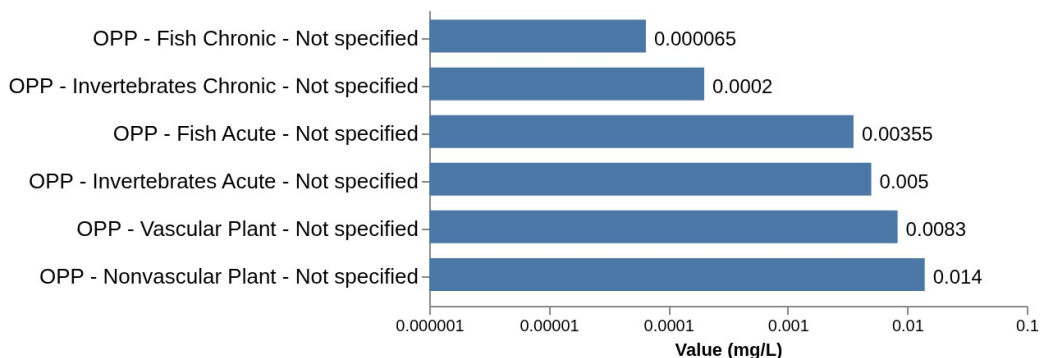


Table 1053: Benchmark Values for Triphenyltin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
668-34-8	Canada	Freshwater Long Term	Not specified	0.000022

Benchmark Values for Triphenyltin in Surface Water (Fresh Water)

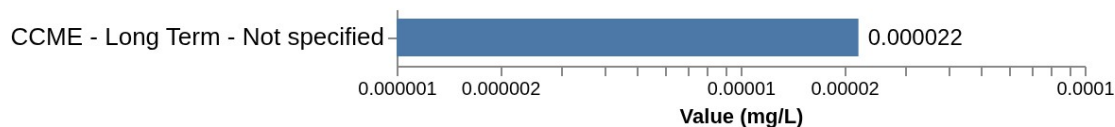


Table 1054: Benchmark Values for Triptolide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
38748-32-2	OPP	Freshwater Fish Acute	Not specified	0.18

Benchmark Values for Triptolide in Surface Water (Fresh Water)

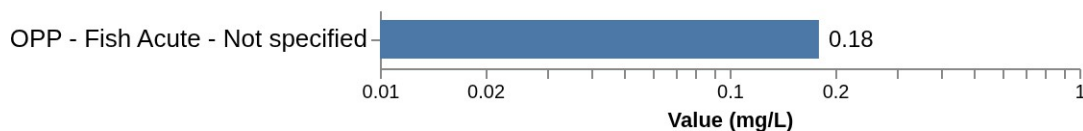


Table 1055: Benchmark Values for Uranium (Soluble Salts) in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-61-1	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.0005	83
7440-61-1	Canada	Freshwater Long Term	Not specified	0.0150	
7440-61-1	Canada	Freshwater Short Term	Not specified	0.0330	
7440-61-1	EPA Region 3	BTAG – Freshwater	Not specified	0.0026	
7440-61-1	EPA Region 4	Chronic Freshwater	Not specified	0.0026	
7440-61-1	EPA Region 4	Acute Freshwater	Not specified	0.0460	
7440-61-1	EPA Region 6	Freshwater Chronic	Not specified	0.7000	21
7440-61-1	EPA Region 6	Freshwater Acute	Not specified	1.1200	21

Benchmark Values for Uranium (Soluble Salts) in Surface Water (Fresh Water)

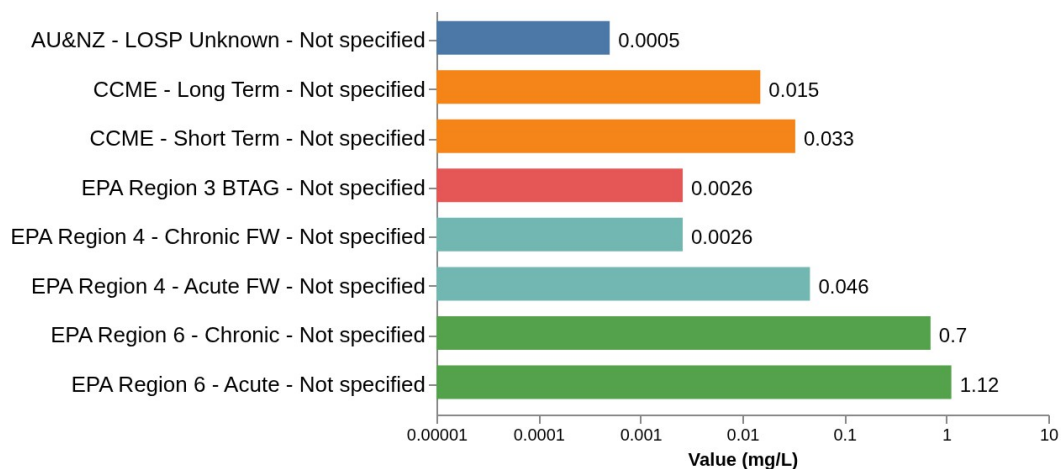


Table 1056: Benchmark Values for Urea sulfate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
21351-39-3	OPP	Freshwater Nonvascular Plant	Not specified	11.5
21351-39-3	OPP	Freshwater Fish Acute	Not specified	40.0

Benchmark Values for Urea sulfate in Surface Water (Fresh Water)

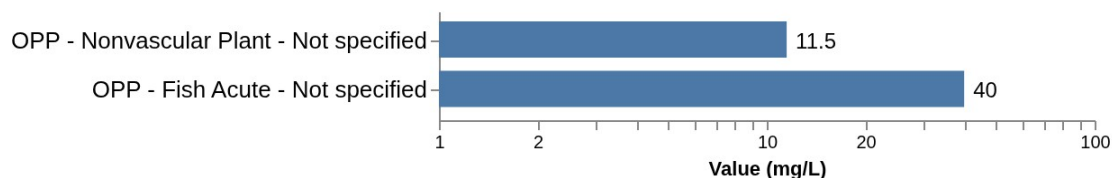


Table 1057: Benchmark Values for Urea in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
57-13-6	EPA Region 4	Chronic Freshwater	Not specified	17
57-13-6	EPA Region 4	Acute Freshwater	Not specified	150

Benchmark Values for Urea in Surface Water (Fresh Water)

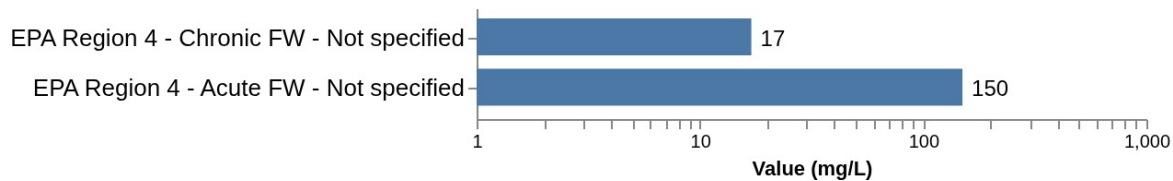


Table 1058: Benchmark Values for Valifenalate degradate "Valifenalate acid" in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-46-6	OPP	Freshwater Fish Acute	Not specified	48.05	22
000000-46-6	OPP	Freshwater Invertebrates Acute	Not specified	52.00	22
000000-46-6	OPP	Freshwater Nonvascular Plant	Not specified	84.00	22

Benchmark Values for Valifenalate degradate "Valifenalate acid" in Surface Water (Fresh Water)

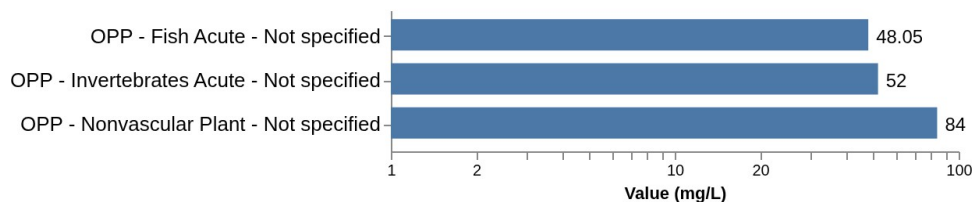


Table 1059: Benchmark Values for Valifenalate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
283159-90-0	OPP	Freshwater Invertebrates Chronic	Not specified	0.50	23
283159-90-0	OPP	Freshwater Vascular Plant	Not specified	5.05	22
283159-90-0	OPP	Freshwater Nonvascular Plant	Not specified	5.46	22
283159-90-0	OPP	Freshwater Fish Chronic	Not specified	11.00	
283159-90-0	OPP	Freshwater Fish Acute	Not specified	18.45	22
283159-90-0	OPP	Freshwater Invertebrates Acute	Not specified	45.50	22

Benchmark Values for Valifenalate in Surface Water (Fresh Water)

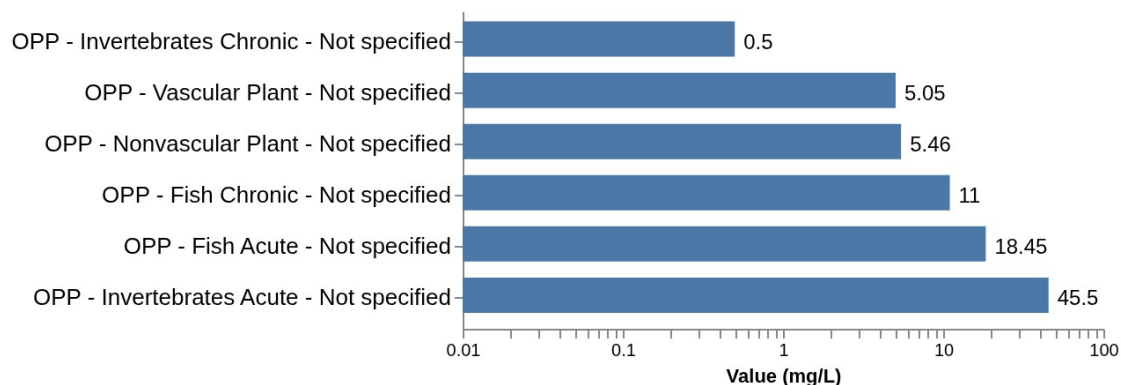


Table 1060: Benchmark Values for Vanadium and Compounds in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-62-2	Australia and New Zealand	Freshwater LOSP Unknown	Not specified	0.006	83
7440-62-2	EPA OSWER	Freshwater Tier II methodology	Not specified	0.019	
7440-62-2	EPA Region 3	BTAG – Freshwater	Not specified	0.020	
7440-62-2	EPA Region 4	Chronic Freshwater	Not specified	0.027	
7440-62-2	EPA Region 4	Acute Freshwater	Not specified	0.079	
7440-62-2	EPA Region 6	Freshwater Chronic	Not specified	0.020	
7440-62-2	EPA Region 6	Freshwater Acute	Not specified	0.284	

Benchmark Values for Vanadium and Compounds in Surface Water (Fresh Water)

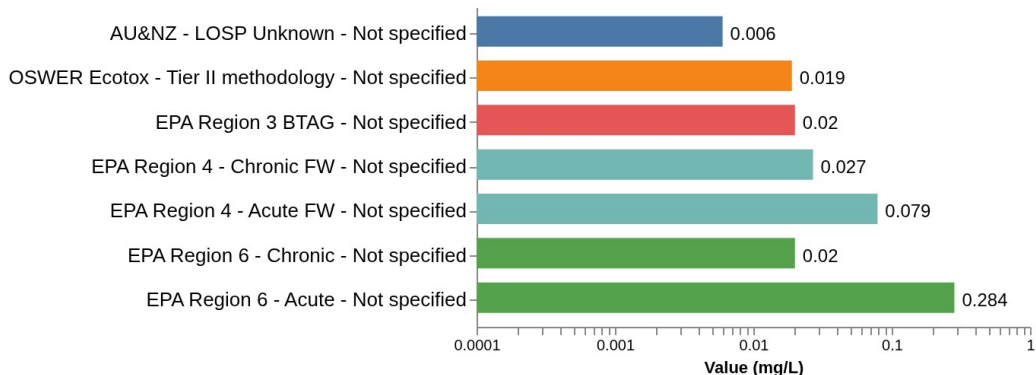


Table 1061: Benchmark Values for Vanadium Pentoxide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1314-62-1	EPA Region 3	BTAG – Freshwater	Not specified	0.015
1314-62-1	EPA Region 6	Freshwater Chronic	Not specified	0.015
1314-62-1	EPA Region 6	Freshwater Acute	Not specified	0.445

Benchmark Values for Vanadium Pentoxide in Surface Water (Fresh Water)

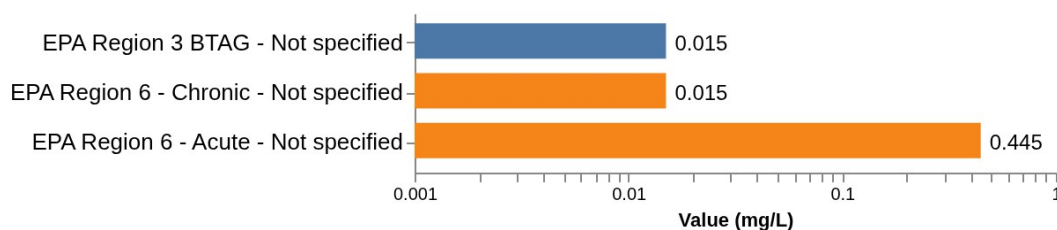


Table 1062: Benchmark Values for Vinclozolin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50471-44-8	OPP	Freshwater Fish Chronic	Not specified	0.06	
50471-44-8	OPP	Freshwater Invertebrates Chronic	Not specified	0.79	
50471-44-8	OPP	Freshwater Vascular Plant	Not specified	0.90	22
50471-44-8	OPP	Freshwater Nonvascular Plant	Not specified	1.06	23
50471-44-8	OPP	Freshwater Fish Acute	Not specified	1.42	
50471-44-8	OPP	Freshwater Invertebrates Acute	Not specified	2.00	

Benchmark Values for Vinclozolin in Surface Water (Fresh Water)

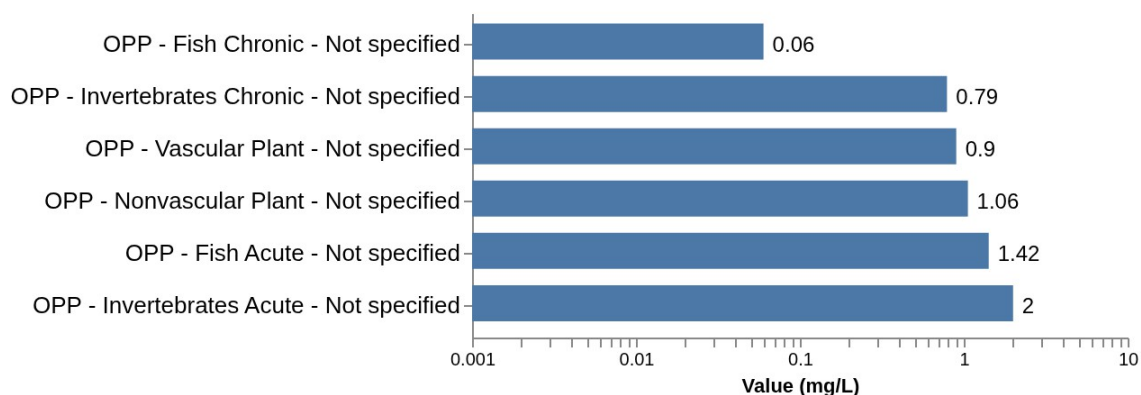


Table 1063: Benchmark Values for Vinyl Acetate in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
108-05-4	EPA Region 3	BTAG – Freshwater	Not specified	0.016
108-05-4	EPA Region 4	Chronic Freshwater	Not specified	0.016
108-05-4	EPA Region 4	Acute Freshwater	Not specified	0.280
108-05-4	EPA Region 6	Freshwater Chronic	Not specified	0.016
108-05-4	EPA Region 6	Freshwater Acute	Not specified	0.280

Benchmark Values for Vinyl Acetate in Surface Water (Fresh Water)

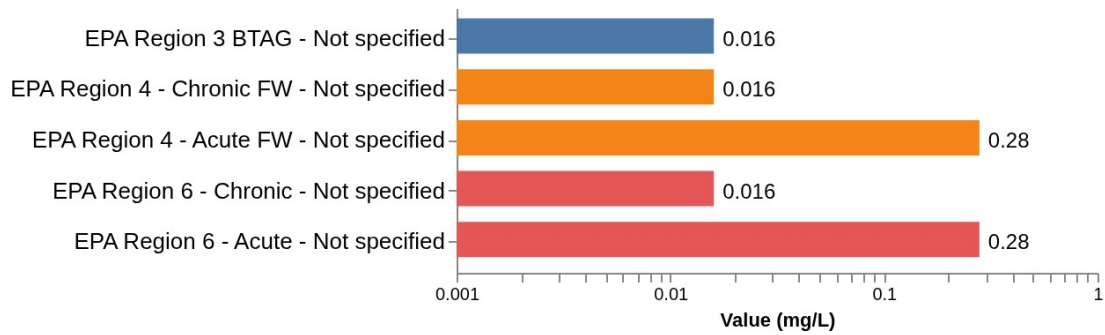


Table 1064: Benchmark Values for Vinyl Chloride in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-01-4	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.07	83
75-01-4	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.10	83, 89
75-01-4	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.14	83
75-01-4	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.20	83
75-01-4	EPA Region 3	BTAG – Freshwater	Not specified	0.93	
75-01-4	EPA Region 4	Chronic Freshwater	Not specified	0.93	
75-01-4	EPA Region 4	Acute Freshwater	Not specified	8.40	
75-01-4	EPA Region 6	Freshwater Chronic	Not specified	2.00	
75-01-4	EPA Region 6	Freshwater Acute	Not specified	6.00	

Benchmark Values for Vinyl Chloride in Surface Water (Fresh Water)

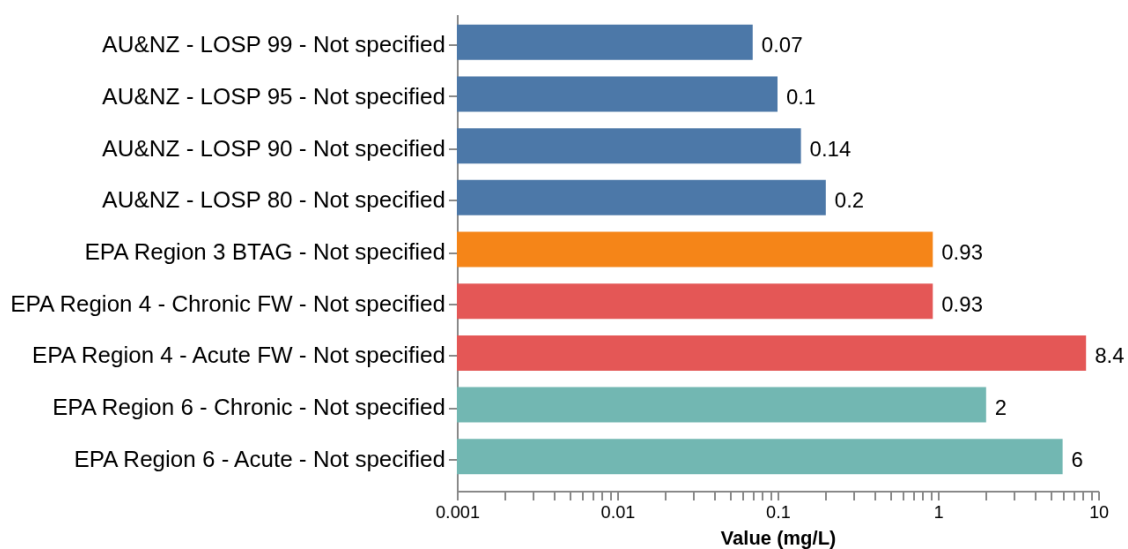


Table 1065: Benchmark Values for Xylene, m- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-38-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0500	83
108-38-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.0750	83, 89
108-38-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.1000	83
108-38-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.1500	83
108-38-3	EPA OSWER	Freshwater Tier II methodology	Not specified	0.0018	
108-38-3	EPA Region 3	BTAG – Freshwater	Not specified	0.0018	
108-38-3	EPA Region 6	Freshwater Chronic	Not specified	0.0018	
108-38-3	EPA Region 6	Freshwater Acute	Not specified	0.0320	

Benchmark Values for Xylene, m- in Surface Water (Fresh Water)

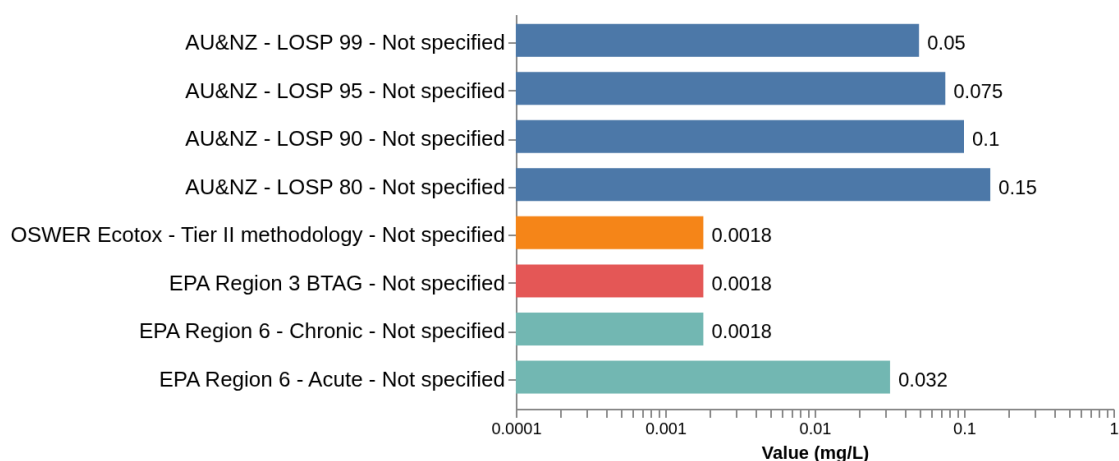


Table 1066: Benchmark Values for Xylene, o- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-47-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.20	87
95-47-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.35	87, 89
95-47-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.47	87
95-47-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.64	87

Benchmark Values for Xylene, o- in Surface Water (Fresh Water)

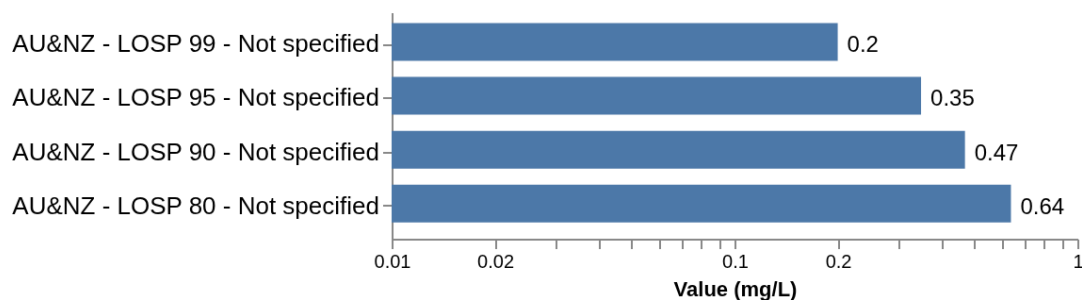


Table 1067: Benchmark Values for Xylene, p- in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-42-3	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.14	87
106-42-3	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.20	87, 89
106-42-3	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.25	87
106-42-3	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.34	87

Benchmark Values for Xylene, p- in Surface Water (Fresh Water)

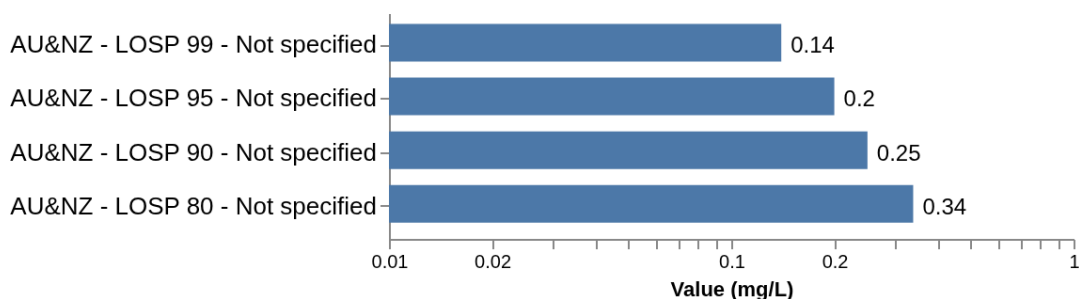


Table 1068: Benchmark Values for Xylenes in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
1330-20-7	British Columbia	Freshwater LTC	Not specified	0.030
1330-20-7	EPA Region 3	BTAG – Freshwater	Not specified	0.013
1330-20-7	EPA Region 4	Chronic Freshwater	Not specified	0.027
1330-20-7	EPA Region 4	Acute Freshwater	Not specified	0.240
1330-20-7	EPA Region 6	Freshwater Chronic	Not specified	1.340
1330-20-7	EPA Region 6	Freshwater Acute	Not specified	4.020

Benchmark Values for Xylenes in Surface Water (Fresh Water)

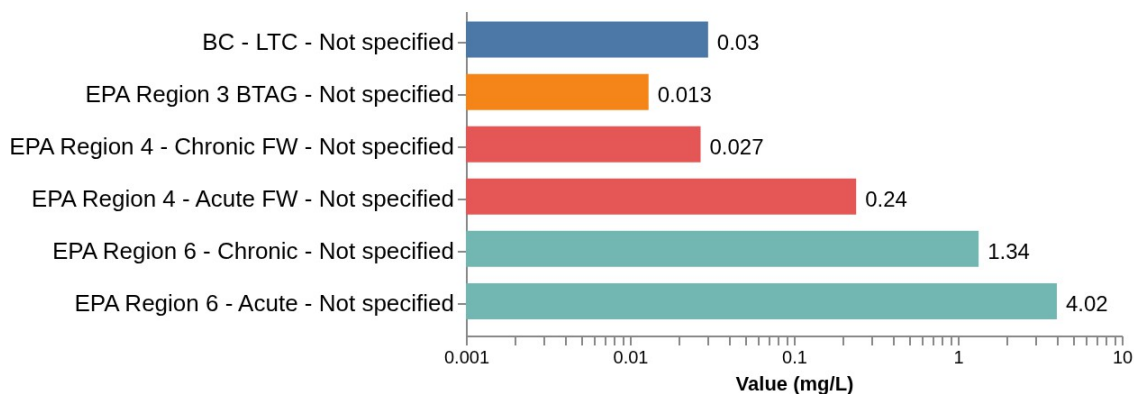
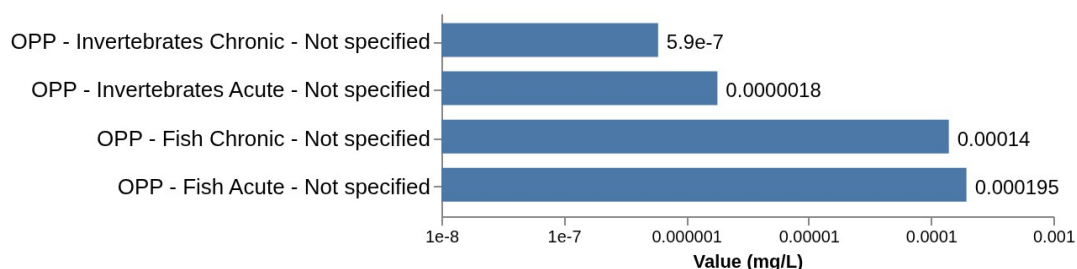


Table 1069: Benchmark Values for Zeta-cypermetherin in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-46-7	OPP	Freshwater Invertebrates Chronic	Not specified	5.900000e-07
000000-46-7	OPP	Freshwater Invertebrates Acute	Not specified	1.800000e-06
000000-46-7	OPP	Freshwater Fish Chronic	Not specified	1.400000e-04
000000-46-7	OPP	Freshwater Fish Acute	Not specified	1.950000e-04

Benchmark Values for Zeta-cypermetherin in Surface Water (Fresh Water)**Table 1070: Benchmark Values for Zinc and Compounds in Surface Water (Fresh Water)**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-66-6	Australia and New Zealand	Freshwater LOSP 99	Not specified	0.0024	85, 104
7440-66-6	Australia and New Zealand	Freshwater LOSP 95	Not specified	0.008	85, 90, 104
7440-66-6	Australia and New Zealand	Freshwater LOSP 90	Not specified	0.015	85, 94, 104
7440-66-6	Australia and New Zealand	Freshwater LOSP 80	Not specified	0.031	85, 94, 104
7440-66-6	British Columbia	Freshwater STA	Not specified		133
7440-66-6	British Columbia	Freshwater LTC	Not specified		133
7440-66-6	Canada	Freshwater Short Term	Not specified		64
7440-66-6	Canada	Freshwater Long Term	Not specified		64
7440-66-6	Delaware	Freshwater Chronic Criterion	Not specified		236
7440-66-6	Delaware	Freshwater Acute Criterion	Not specified		236
7440-66-6	EPA NRWQC	Freshwater CCC Chronic	Not specified	0.12	
7440-66-6	EPA NRWQC	Freshwater CMC Acute	Not specified	0.12	
7440-66-6	EPA OSWER	Freshwater AWQC or EPA-derived FCV	Not specified	0.1	157
7440-66-6	EPA Region 3	BTAG – Freshwater	Not specified	0.12	
7440-66-6	EPA Region 4	Acute Freshwater	Not specified	0.066	1, 2
7440-66-6	EPA Region 4	Chronic Freshwater	Not specified	0.066	1, 2
7440-66-6	EPA Region 6	Freshwater Acute	Not specified	0.0651	21
7440-66-6	EPA Region 6	Freshwater Chronic	Not specified	0.0657	21
7440-66-6	New Jersey	Freshwater Acute	Not specified	0.109362	202
7440-66-6	New Jersey	Freshwater Chronic	Not specified	0.109362	202

Benchmark Values for Zinc and Compounds in Surface Water (Fresh Water)

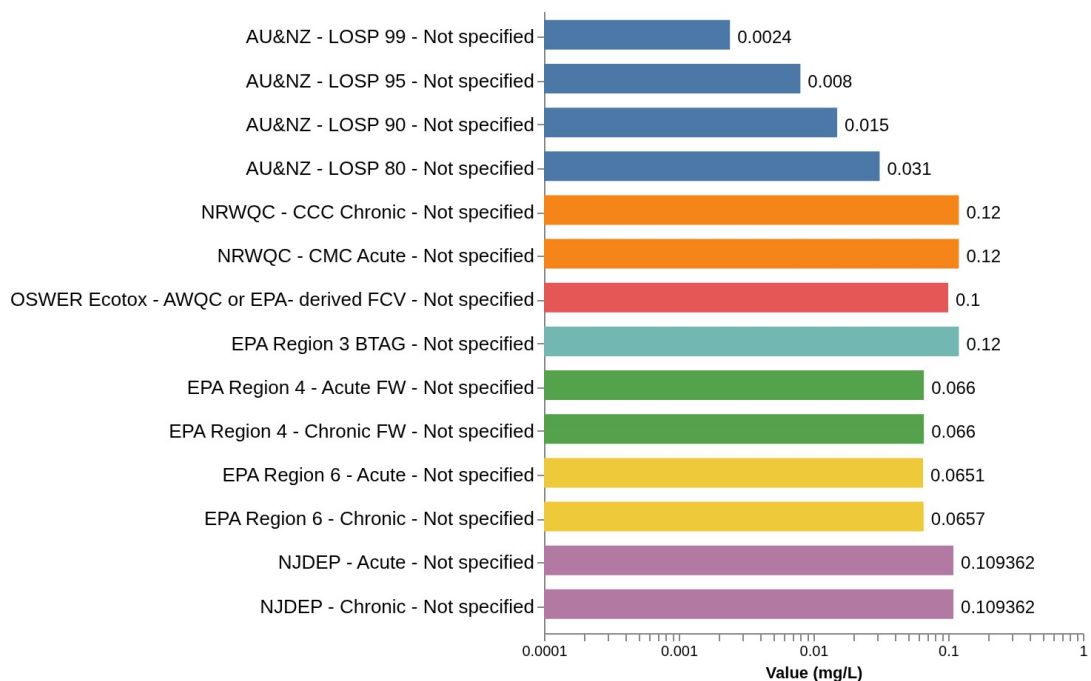


Table 1071: Benchmark Values for Zinc Pyrithione in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
13463-41-7	OPP	Freshwater Nonvascular Plant	Not specified	0.00065
13463-41-7	OPP	Freshwater Fish Chronic	Not specified	0.00120
13463-41-7	OPP	Freshwater Fish Acute	Not specified	0.00130
13463-41-7	OPP	Freshwater Invertebrates Chronic	Not specified	0.00270
13463-41-7	OPP	Freshwater Invertebrates Acute	Not specified	0.00410
13463-41-7	OPP	Freshwater Vascular Plant	Not specified	0.00880

Benchmark Values for Zinc Pyrithione in Surface Water (Fresh Water)

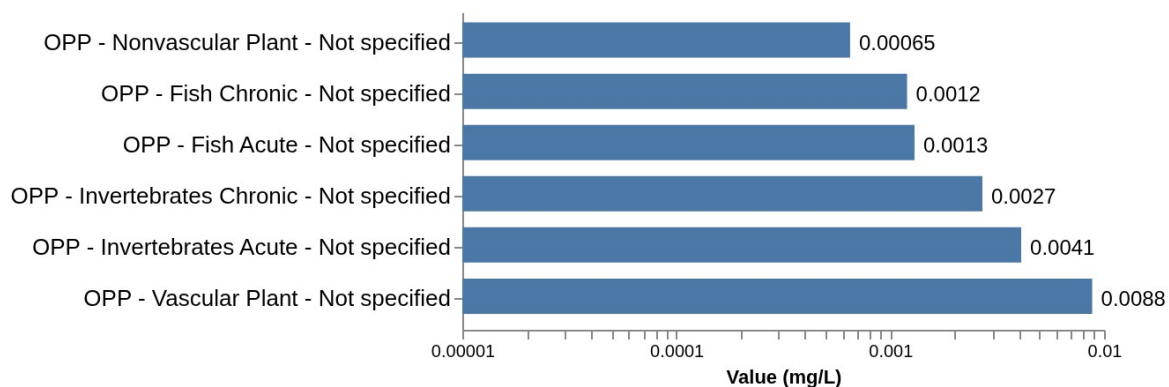


Table 1072: Benchmark Values for Ziram in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
137-30-4	OPP	Freshwater Fish Chronic	Not specified	0.0014
137-30-4	OPP	Freshwater Invertebrates Acute	Not specified	0.0240
137-30-4	OPP	Freshwater Invertebrates Chronic	Not specified	0.0250
137-30-4	OPP	Freshwater Fish Acute	Not specified	0.0265
137-30-4	OPP	Freshwater Nonvascular Plant	Not specified	0.0670
137-30-4	OPP	Freshwater Vascular Plant	Not specified	0.3700

Benchmark Values for Ziram in Surface Water (Fresh Water)

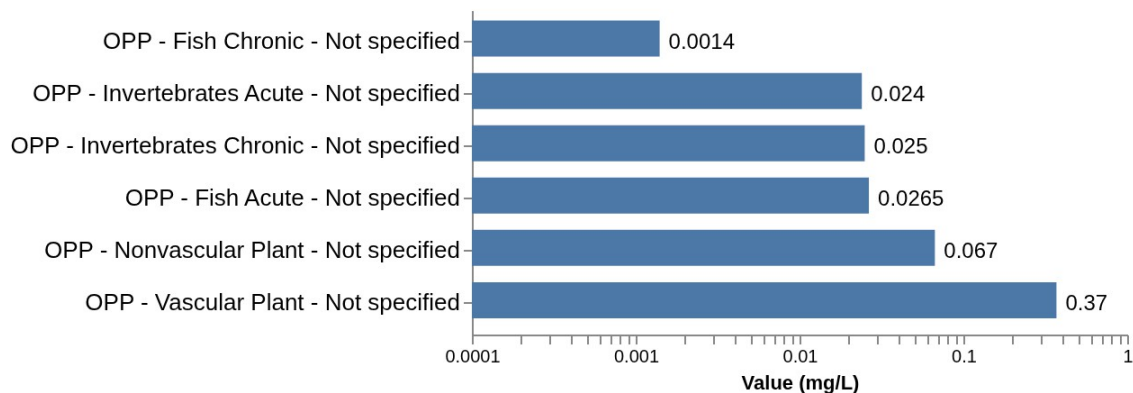


Table 1073: Benchmark Values for Zirconium in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-67-7	EPA Region 3	BTAG – Freshwater	Not specified	0.017
7440-67-7	EPA Region 4	Chronic Freshwater	Not specified	0.017
7440-67-7	EPA Region 4	Acute Freshwater	Not specified	0.310
7440-67-7	EPA Region 6	Freshwater Chronic	Not specified	0.017
7440-67-7	EPA Region 6	Freshwater Acute	Not specified	0.309

Benchmark Values for Zirconium in Surface Water (Fresh Water)

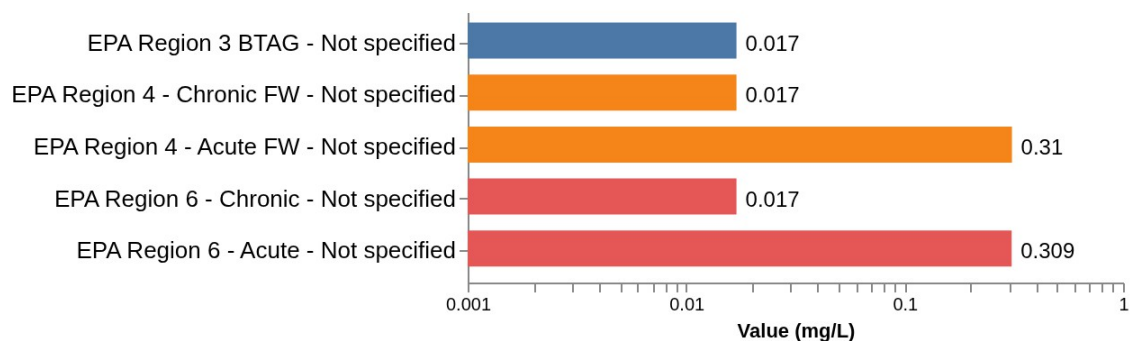
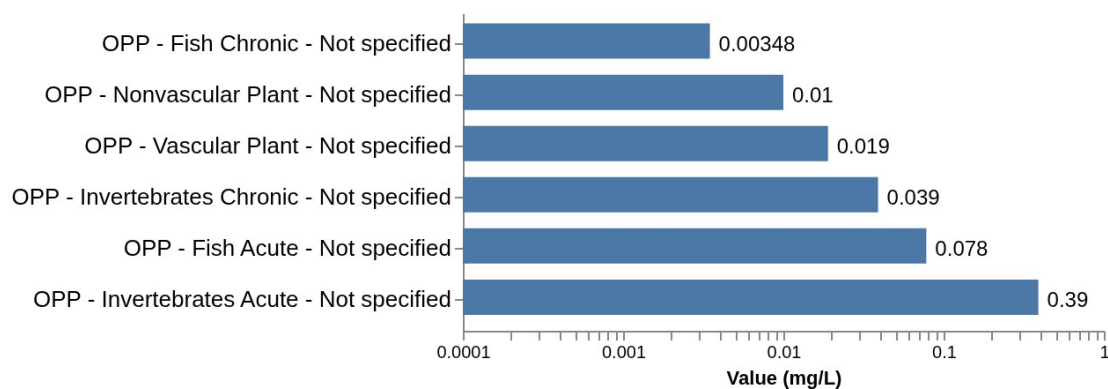


Table 1074: Benchmark Values for Zoxamide in Surface Water (Fresh Water)

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
156052-68-5	OPP	Freshwater Fish Chronic	Not specified	0.00348	
156052-68-5	OPP	Freshwater Nonvascular Plant	Not specified	0.01000	
156052-68-5	OPP	Freshwater Vascular Plant	Not specified	0.01900	
156052-68-5	OPP	Freshwater Invertebrates Chronic	Not specified	0.03900	
156052-68-5	OPP	Freshwater Fish Acute	Not specified	0.07800	
156052-68-5	OPP	Freshwater Invertebrates Acute	Not specified	0.39000	22

Benchmark Values for Zoxamide in Surface Water (Fresh Water)



3. CHEMICAL FOOTNOTES

1. Screening value is for filtered (dissolved) metals. A conversion factor (CF) was used to convert the screening value for total metals in surface water to a screening value for dissolved metals in surface water. $CMC (dissolved) = CMC (total) \times CF$.
2. The freshwater screening value is hardness dependent. The screening value shown is for dissolved metals assuming a hardness of 50 mg/L as CaCO₃. See [Table 1C for screening values for varying degrees of water hardness](#).
3. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 7.8.
4. Criteria for ammonia are pH, temperature, and lifestage dependent.
5. Selenium concentrations in water do not reflect dietary sources to aquatic life and screening against these numbers may not be adequately protective.
6. pH of 6.5–9.0
7. Bioaccumulative chemical
8. Sum for the Toxic Unit Approach. (See Table 2c at [Region 4 Ecological Risk Assessment Supplemental Guidance](#))
9. Total value for Low Molecular Weight PAHs.
10. Total value for High Molecular Weight PAHs.
11. Subject to a narrative assessment. See [Region 4 Ecological Risk Assessment Supplemental Guidance](#).
12. For hardness–dependent metals, freshwater chronic criteria are based on soft water with a total hardness of 50 mg/L as CaCO₃. Soft water is common within Region 5; this water ESL may be recalculated when site specific water hardness is less than 50 mg/L.
13. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 6.5.
14. The freshwater BTAG for Hydrazine depends on the hardness level. For hardness < 50, the BTAG is 5 ug/L. For hardness => 50, the BTAG is 10 ug/L.
15. Potential ecological risks associated with aluminum in soils are based on the measured soil pH. Where aluminum is a COC, it should only be retained for those soils with a pH less than 5.5. U.S. EPA. 2003. Ecological soil screening level for aluminum. Interim final. OSWER directive 9285.7–60. Washington.
16. Iron is not expected to be toxic to plants in well–aerated soils between pH 5 and 8. Importance is based less on its direct chemical toxicity than on its effect as a mediator in the geochemistry of other toxic metals and the physical hazard of depositing flocculent. EPA. 2003. Ecological soil screening levels for iron. Interim final. OSWER directive 9285.7–69. Washington.
17. When benchmarks represent the sum of individual compounds, isomers, or groups of congeners, and the chemical analysis indicates an undetected value, the proxy value specified at 30 TAC 350.51(n) shall be used for calculating the sum of the respective compounds, isomers, or congeners. This assumes that the particular COC has not been eliminated in accordance with the criteria at 350.71(k).
18. The low molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, and 2–methyl naphthalene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
19. The high molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: fluoranthene, pyrene, benz(a)anthracene, chrysene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3–cd)pyrene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
20. Total PAH refers to the sum of the concentrations of each of low and high molecular weight PAHs listed above and any other PAH compounds that are not eliminated in accordance with 30 TAC 350.71(k). The benchmarks for total PAHs are the most relevant in evaluating risk in an ERA, as PAHs almost always occur as mixtures. Values for individual, low molecular weight, and high molecular weight PAHs are included as guidelines to aid in the determination of disproportionate concentrations within the mixture that may be masked by the total.

21. Indicates that the benchmarks are for the dissolved portion in water.
22. Value was reported as greater than the listed number.
23. Value was reported as less than the listed number.
24. These values are estimates. Methods of estimation are described in [Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision](#).
25. A range of 0.8 to 4.0 ug/L was reported.
26. The chronic NAWQC for mercury (0.012 $\mu\text{g/L}$) is based on the final residue value. FCVs are used as benchmarks to protect aquatic life.
27. The chronic NAWQC for DDT (0.001 $\mu\text{g/L}$), total PCBs (0.014 $\mu\text{g/L}$), and heptachlor (0.0038 $\mu\text{g/L}$) are based on the final residue values; for benchmarks to protect aquatic life, we use SCVs.
28. Units are in mg/Kg dry weight.
29. These values are estimates. Methods of estimation are described in the [reference](#).
30. Study LC50s were used rather than species mean LC50s, so water hardness would correspond to EC20 values.
31. Benchmarks are based on tests that are not standard but are judged to be of high quality.
32. The value's sediment quality assessment guidelines (SQAGs) are within a factor of three of the probable effects level (PEL).
33. These values have a presumed maximum TOC of 10% (0.1) applied to the values from the source for use in comparing to bulk sediment data. If the TOC in measured data is less than 10%, adjust values accordingly.
34. These values have a presumed TOC of 1% (0.01) applied to the values from the source for use in comparing to bulk sediment data.
35. See Methylmercury.
36. Consult the 2010 Polycyclic Aromatic Hydrocarbons factsheet or the 2010 PAH Scientific Supporting Document for guidance.
37. Surface Coarse 0.082 mg/kg. Surface Fine 0.018 mg/kg. Subsoil Coarse 0.082 mg/kg. Subsoil Fine 0.018 mg/kg.
38. Coarse Soil Guideline 4.6 mg/kg. Fine Soil Guideline 5.6 mg/kg. Coarse Soil Human health soil quality guideline 4.6 mg/kg. Fine Soil Human health soil quality guideline 4.6 mg/kg. Coarse Soil Environmental soil quality guideline 7.7 mg/kg. Fine Soil Environmental soil quality guideline 190 mg/kg.
39. SQGF Coarse 0.49 mg/kg. SQGF Fine 6.5 mg/kg.
40. Surface Coarse 0.37 mg/kg. Surface Fine 0.08 mg/kg. Subsoil Coarse 0.37 mg/kg. Subsoil Fine 0.08 mg/kg.
41. Surface Coarse 11 mg/kg. Surface Fine 2.4 mg/kg. Subsoil Coarse 11 mg/kg. Subsoil Fine 2.4 mg/kg.
42. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
43. SQGF Coarse 6.5 mg/kg. SQGF Fine 21 mg/kg.
44. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.0095 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.011 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
45. This value was derived using TEFs. See the fact sheet for supporting documentation.
46. 500 $\mu\text{g/L}$ for blackberries; 500–1000 $\mu\text{g/L}$ for peaches, cherries, plums, grapes, cowpeas, onions, garlic, sweet potatoes, wheat barley, sunflowers, mung beans, sesame, lupins, strawberries, Jerusalem artichokes, kidney beans, and lima beans; 1000–2000 $\mu\text{g/L}$ for red peppers, peas, carrots, radishes, potatoes, and cucumbers; 2000–4000 $\mu\text{g/L}$ for lettuce, cabbage, celery, turnips, Kentucky bluegrass, oats, corn,

- artichokes, tobacco, mustard, clover, squash, and muskmelons; 4000–6000 µg/L for sorghum, tomatoes, alfalfa, purple vetch, parsley, red beets, and sugar beets; 6000 µg/L for asparagus.
47. Foliar: 100–178 mg/L for almond apricots and plums; 178–355 mg/L for grapes, peppers, potatoes and tomatoes; 355–710 mg/L for alfalfa, barley, corn, and cucumbers; >710 mg/L for cauliflower, cotton, safflower, sesame, sorghum, sugar beets, and sunflowers. Rootstocks: 180–600 mg/L for stone fruit (peaches, plums, etc.); 710–900 mg/L for grapes. Cultivars: 110–180 mg/L for strawberries, 230–460 mg/L for grapes, 250 mg/L for boysenberries, blackberries, and raspberries.
 48. 200 µg/L for cereals, 1000 µg/L for tolerant crops.
 49. The concentration should not exceed 10 µg/L for continuous use on all soils or 50 µg/L for short-term use on acidic soils.
 50. 20 µg/L for continuous use on all soils, 50 µg/L for intermittent use on all soils.
 51. 500 mg/L for strawberries, raspberries, beans, and carrots. 500–800 mg/L for boysenberries, currants, blackberries, gooseberries, plums, grapes, apricots, peaches, pears, cherries, apples, onions, parsnips, radishes, peas, pumpkins, lettuce, peppers, muskmelons, sweet potatoes, sweet corn, potatoes, celery, cabbage, kohlrabi, cauliflower, cowpeas, broad beans, flax, sunflowers, and corn. 800–1500 mg/L for spinach, cantaloupe, cucumbers, tomatoes, squash, brussels, sprouts, broccoli, turnips, smooth brome, alfalfa, big trefoil, beardless wildrye, vetch, timothy, and crested wheat grass. 1500–2500 mg/L for beets, zucchini, rape, sorghum, oat hay, wheat hay, mountain brome, tall fescue, sweet clover, reed canary grass, birdsfoot trefoil, perennial ryegrass. 3500 mg/L for asparagus, soybeans, safflower, oats, rye, wheat, sugar beets, barley, barley hay, and tall wheat grass.
 52. 1000 µg/L when soil pH < 6.5. 5000 µg/L when soil pH > 6.5.
 53. 500 µg/L for sheep, 1000 µg/L for cattle, 5000 µg/L for swine and poultry.
 54. The maximum concentration in livestock drinking water should not exceed 2000 µg/L, or 1000 µg/L in cases where the feed of animals contains fluoride.
 55. The short-term benchmark concentration of 1.0 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO₃): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L. At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation: Short-term benchmark (µg/L) = $10^{1.016(\log[\text{hardness}]) - 1.71}$. At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
 56. Benchmark = $\exp(0.878[\ln(\text{hardness})] + 4.76)$, where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO₃ equivalents in mg/L.
 57. 5 µg/L if pH < 6.5. 100 µg/L if pH ≥ 6.5.
 58. The CWQG for cadmium (i.e., long-term guideline) of 0.09 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The CWQG for cadmium is related to water hardness (as CaCO₃): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L. At hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation: CWQG (µg/L) = $10^{0.83(\log[\text{hardness}]) - 2.46}$. At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
 59. The CWQG for copper is related to water hardness (as CaCO₃): When the water hardness is 0 to < 82 mg/L, the CWQG is 2 µg/L. At hardness ≥ 82 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = $0.2 * e^{0.8545[\ln(\text{hardness})] - 1.465}$. At hardness > 180 mg/L, the CWQG is 4 µg/L. If the hardness is unknown, the CWQG is 2 µg/L.
 60. The CWQG for lead is related to water hardness (as CaCO₃): When the hardness is 0 to ≤ 60 mg/L, the CWQG is 1 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = $e^{1.273[\ln(\text{hardness})] - 4.705}$. At hardness > 180 mg/L, the CWQG is 7 µg/L. If the hardness is unknown, the CWQG is 1 µg/L.
 61. The CWQG for manganese (i.e., long-term guideline) is found using the CWQG calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese.
 62. The CWQG for nickel is related to water hardness (as CaCO₃): When the water hardness is 0 to ≤ 60 mg/L, the CWQG is 25 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = $e^{0.76[\ln(\text{hardness})] + 1.06}$. At hardness > 180 mg/L, the CWQG is 150 µg/L. If the hardness is unknown, the CWQG is 25 µg/L.

63. Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines (does not provide guidance on other freshwater nutrients). It provides Trigger Ranges for Total Phosphorus ($\mu\text{g/L}$) (see Guidance Framework for Phosphorus factsheet): ultra-oligotrophic <4, oligotrophic 4–10, mesotrophic 10–20, meso-eutrophic 20–35, eutrophic 35–100, hyper-eutrophic >100.
64. The long-term CWQG is for dissolved zinc and is calculated using the following equation: $\text{CWQG} = \exp(0.947[\ln(\text{hardness mg}\cdot\text{L}^{-1})] - 0.815[\text{pH}] + 0.398[\ln(\text{DOC mg}\cdot\text{L}^{-1})] + 4.625)$. The short-term benchmark is for dissolved zinc and is calculated using the following equation: $\text{Benchmark} = \exp(0.833[\ln(\text{hardness mg}\cdot\text{L}^{-1})] + 0.240[\ln(\text{DOC mg}\cdot\text{L}^{-1})] + 0.526)$.
65. Supporting documents are available from the [Canadian Council of Ministers of the Environment](#).
66. The listed values are dry weight.
67. This is a reactive species.
68. Guideline is crop-specific: Cereals and hay value is 46 $\mu\text{g/L}$ and Legumes value is 93 $\mu\text{g/L}$, per the British Columbia data catalog.
69. Active ingredient WQG is 490 $\mu\text{g/L}$ per the British Columbia data catalog.
70. Guideline is crop-specific. The value listed of 0.071 $\mu\text{g/L}$ applies to crops other than cereals, hay, and pastures (e.g., tomato). The value of 3.3 $\mu\text{g/L}$ applies to cereals, hay, and pastures per the British Columbia data catalog.
71. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for organic substances: $\text{msPAF} < 20\%$
72. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for metals: $\text{msPAF} < 50\%$, with a maximum content for cadmium.
73. This value is a so-called 'Indicative Level'. No reliable Intervention Value could be derived. Indicative Levels are based on the same principles as Intervention Values but have a lower status.
74. This is organic mercury.
75. The three types of dihydroxybenzenes are catechol, resorcinol, and hydroquinone.
76. This chemical was given a value 50 mg/kg for falling under the monochloroanilines category.
77. This chemical was given a value of 50 mg/kg for falling under the dichloroanilines category.
78. This chemical was given a value of 10 mg/kg for falling under the trichloroanilines category.
79. This chemical was given a value of 30 mg/kg for falling under the tetrachloroanilines category.
80. This chemical was given a value of 10 mg/kg for falling under the pentachloroanilines category.
81. The listed value is valid when Aluminum's pH is greater than 6.5. If the pH is less than 6.5, then it has an unknown LOSP value of 0.0008 mg/kg .
82. The Marine Water value was blank from the source, but the Freshwater value is presented as a reference. For other chemical benchmarks from this source, the Freshwater value is often recommended as a cautionary substitute for Marine Waters.
83. The toxicant reliability of these values is unknown.
84. The toxicant reliability of these values is very low.
85. The toxicant reliability of these values is very high.
86. The toxicant reliability of these values is high.
87. The toxicant reliability of these values is low.
88. The toxicant reliability of these values is moderate.
89. Recommended for application for slightly to moderately disturbed ecosystems. If the LOSP 99 is recommended, it is due to the bioaccumulating nature of the toxicant. This application protects key species from acute and chronic toxicity.
90. Recommended for application for slightly to moderately disturbed ecosystems (to protect key species from chronic toxicity). However, this DGV may still not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
91. DGV may be below routine limits of reporting for most commercial laboratories, although some laboratories may be able to achieve lower limits of reporting.
92. DGV may not protect key test species from acute (and chronic) toxicity.
93. Recommended for application for slightly to moderately disturbed ecosystems. Although bioaccumulation may be an issue, rapid depuration of this chemical represents a mitigating factor, and the

95% species protection DGV should provide sufficient protection for slightly–moderately disturbed systems. If local data suggest that bioaccumulation is an issue at the specific site, the 99% protection level may be more appropriate.

94. DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
95. This value was derived from an acute toxicity dataset comprising 23 species from three taxonomic groups (but which did not include plants). As diuron is a herbicide, the value should be treated with additional caution.
96. This DGV is derived from mesocosm NOEC data. This is the only DGV available for this toxicant.
97. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV that is one level above that which would normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used).
98. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV one level above that which would normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used). Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
99. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
100. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website.
101. Bioaccumulation and secondary poisoning effects should be considered for this toxicant.
102. Ammonia as total ammonia nitrogen, measured as $[\text{NH}_3\text{--N}]$ at pH 8.
103. The DGVs apply to dissolved boron and are based on data from toxicity tests conducted for a pH range of 6.8–10 and hardness range of 9.3–250 mg CaCO_3/L . They supersede the ANZECC/ARMCANZ (2000) trigger values for boron in freshwater.
104. Adjust DGVs for site–specific hardness using the hardness–dependent algorithm in Warne et al. (2018).
105. Chlorine as total chlorine, measured as $[\text{Cl}]$.
106. The copper DGVs should not be adjusted for water hardness (see Warne et al. 2018).
107. Cyanide as un-ionized HCN, measured as $[\text{CN}]$.
108. The DGVs are expressed in terms of the active ingredient (glyphosate) and do not relate to any of the breakdown products of glyphosate. They supersede the ANZECC/ARMCANZ (2000) trigger values for glyphosate in freshwater. Commercial formulations containing glyphosate can be more toxic than glyphosate alone. The Guidelines provide guidance on how to account for formulations (Also see Warne et al. 2018).
109. Sulfide as un-ionized H_2S , measured as $[\text{S}]$.
110. The DGVs relate to metolachlor only and not any of its breakdown products.
111. The DGVs are expressed in terms of the active ingredient (metsulfuron–methyl) and do not relate to any of the breakdown products of metsulfuron–methyl. They supersede the ANZECC/ARMCANZ (2000) trigger values for metsulfuron in freshwater. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website, including guidance on what to do if DGVs are below analytical detection limits.
112. The value listed as the saltwater CMC represents a benchmark value, not a criterion. Data limitations precluded the development of a CCC in saltwater.
113. The listed value of 0.752 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).

114. The listed value of 0.000038 mg/L is a lower-bound short-term maximum for varying water hardness and an upperbound maximum of 2.80 ug/L.
115. This value is a result of a pH level of 6.7 and 10°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).
116. The listed value of 0.4 mg/L is a maximum, where the water hardness is 10 mg/L; otherwise, use the equation: LC50 fluoride = $-51.73 + 92.57 \log_{10}(\text{Hardness})$ and multiply by 0.01.
117. Dissolved Pb WQG = $\exp(0.514 [\ln(\text{DOC})] + 0.214[\ln(\text{hardness})] + 0.4354)$
118. The listed value of 0.06 mg/L is for a chloride concentration of less than 2; 0.12 mg/L with a chloride concentration of 2–4; 0.18 mg/L with a chloride concentration of 4–6; 0.24 mg/L of a chloride concentration of 6–8; 0.3 mg/L with a chloride concentration of 8–10; and 0.6 mg/L with a chloride concentration greater than 10.
119. Instantaneous maximum calculated from: less than or equal to $0.01102 \text{ hardness} + 0.54$.
120. The listed value of 0.003 mg/L is for use under non-phototoxic conditions. For use under phototoxic conditions, the value 0.00005 mg/L should be used.
121. $\text{WQG} = \{e^{[0.645 \cdot \ln(\text{DOC}) + 2.255 \cdot \ln(\text{hardness}) + 1.995 \cdot \text{pH} + (-0.284 \cdot (\ln(\text{hardness}) \cdot \text{pH}) - 9.898)]} / 3\}$ (e.g., for a water with the following chemistry (pH = 7.5, DOC = 0.5 mg/L, hardness = 50 mg/L) the AWQG is 55 µg Al/L (total Al).
122. The listed value of 1.22 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 27C [here](#).
123. The listed value of 0.004 mg/L is for use under non-phototoxic conditions. For use under phototoxic conditions, the value 0.0001 mg/L should be used.
124. The listed value of 0.0001 mg/L should be used under both non-phototoxic and phototoxic conditions.
125. The listed value of 0.0000176 mg/L is a lower-bound long-term average for varying water hardness and an upperbound average of 0.457 ug/L.
126. Average of five weekly measurements taken over a 30-day period. Calculated from: less than or equal to $0.0044 \text{ hardness} + 0.605$.
127. When MeHg = 0.5% of THg, the listed value of 0.00002 mg/L should be used. When MeHg = 1.0% of THg, the value of 0.01 ug/L should be used. When MeHg 8.0% of THg, the value of 0.00125 ug/L should be used.
128. The listed value of 0.02 mg/L is for a chloride concentration of less than 2; 0.04 mg/L for a chloride concentration of 2–4; 0.06 mg/L for a chloride concentration of 4–6; 0.08 mg/L for a chloride concentration of 6–8; 0.10 mg/L for a chloride concentration of 8–10; and 0.20 mg/L for a chloride concentration of more than 10.
129. Guideline is for lakes where salmonids are the predominant fish species. Total phosphorus in lakes is either the spring overturn concentration, if the residence time of the epilimnetic water exceeds 6 months, or the mean epilimnetic growing season concentration, if residence time of epilimnetic water is below 6 months.
130. The listed value of 0.00002 mg/L is for use under phototoxic conditions.
131. The listed value of 0.00005 mg/L is for use when hardness is less than or equal to 100 mg/L. If hardness is greater than 100 mg/L, then use the value of 1.5 ug/L.
132. Sulfate is dependent on water hardness (mg/L). The listed value of 128 is for a water hardness of very soft (0–30). 218 is for soft to moderately soft water hardness (31–75). 309 is for moderately soft/hard to hard water hardness (76–180). 429 is for very hard water hardness (181–250). For anything greater than 250, it needs to be determined based on site water.
133. The long-term chronic WQC = $[\exp(0.947[\ln(\text{hardness})] - 0.815[\text{pH}] + 0.398[\ln(\text{DOC})] + 4.625)] / 2$. The short-term acute WQC = $[\exp(0.833[\ln(\text{hardness})] + 0.240[\ln(\text{DOC})] + 0.526)] / 2$.
134. Sediment containing 1% organic carbon.
135. The listed value of 11 mg/kg applies to fish egg/ovary. A value of 4 mg/kg applies to fish muscle/muscle plug, fish, whole-body, and invertebrate tissue (dietary). This is Aquatic Life– Freshwater Long-term Chronic.
136. Duration < 2 hours within 24 hour period.

137. Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
138. Applies to all soil types.
139. The listed value of 0.2 mg/L is for all soil types except neutral and alkaline. 400 ug/L should be used for neutral and alkaline fine textured soils.
140. The listed value is only for forage crops.
141. The listed value of 2 mg/L is for moderately sensitive crops (red pepper, pea, carrot, radish, potato, cucumber). 4 mg/L is for moderately tolerant crops (lettuce, cabbage, celery, turnip, Kentucky bluegrass, oat, corn, artichoke, tobacco, mustard, clover, squash, muskmelon). 1 mg/L is for sensitive crops (peach, cherry, plum, grape, cowpea, onion, garlic, sweet potato, wheat, barley, sunflower, mung bean, sesame, lupin, strawberry, Jerusalem artichoke, kidney bean, lima bean). 6 mg/L is for tolerant crops (sorghum, tomato, alfalfa, purple vetch, parsley, red beet, sugar beet). 0.5 mg/L is for very sensitive crops (blackberry). 15 mg/L is for very tolerant crops (asparagus).
142. This value is for non–forage crops. A value of 0.01 mg/L is for forage crops grown in poorly drained soils, and a value of 0.02 mg/L is for forage crops grown in well drained soil.
143. The guideline for Zinc is dependent upon the pH of the soil, not the irrigation water. For Soil pH<6, the WQC is 1 mg/L. For soil pH greater than or equal to 6 and < 7, the WQC is 2. For soil pH greater then or equal to 7, the WQC is 5.
144. The listed value of 4 mg/L is for all livestock except long lived animals, such as dairy cows and breeding stock fed normal diets. A value of 2 mg/L is for all livestock fed high fluoride diets including mineral or bone meal and feed additives. A value of 1.5 mg/L is for dairy cows, breeding stock, and long–lived animals.
145. For livestock consuming forages not irrigated or if no molybdenum containing fertilizers are applied to grow the feed consumed by livestock, a value of 0.08 mg/L should be used.
146. When nitrate and nitrite are present, total nitrate plus nitrite–nitrogen should not exceed the nitrate WQG.
147. The listed value of 1 mg/L is for dairy cows, breeding stock, and long–lived animals and all animals fed high fluoride diets including mineral or bone meal and feed additives. 2 mg/L is for all livestock except for long lived animals, such as dairy cows and breeding stock fed normal diets.
148. Guideline applies to fish or shellfish consumed by wildlife.
149. The listed value of 6 mg/kg applies to bird eggs.
150. Resin acids are pH dependent. The listed value of 0.009 mg/L is valid between pH > 6.0 and <= 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 3 ug/L is valid between a pH > 5.0 and <= 5.5. A value of 4 ug/L is valid between a pH > 5.5 and <=6.0. A value of 25 ug/L is valid between a pH > 6.5 and <= 7.0. A value of 45 ug/L is valid between a pH > 7.0 and <= 7.5. A value of 52 ug/L is valid between a pH > 7.5 and <= 8.0. A value of 60 ug/L is valid between a pH > 8.0 and <= 8.5. A value of 62 ug/L is valid between a pH > 8.5 and <= 9.0. Any pH less an 5.0 a site assessment may be necessary.
151. Dehydroabietic acid (DHA) is pH dependent. The listed value of 0.004 mg/L is valid between pH > 6.0 and <= 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 2 ug/L is valid between a pH > 5.0 and <= 5.5. A value of 2 ug/L is valid between a pH > 5.5 and <=6.0. A value of 8 ug/L is valid between a pH > 6.5 and <= 7.0. A value of 12 ug/L is valid between a pH > 7.0 and <= 7.5. A value of 13 ug/L is valid between a pH > 7.5 and <= 8.0. A value of 14 ug/L is valid between a pH > 8.0 and <= 8.5. A value of 14 ug/L is valid between a pH > 8.5 and <= 9.0. Any pH less an 5.0 a site assessment may be necessary.
152. The benchmark can be greater than or equal to this value.
153. The value listed of 0.0011 mg/kg is the sum of compounds Aldrin and Dieldrin.
154. The value listed of 0.0052 mg/kg is the sum of compounds Heptachlor and Heptachlor epoxide.
155. The value listed of 0.021 mg/kg is the sum of Hexachlorocyclohexanes isomers.
156. The value listed of 0.25 mg/kg is the sum of Trichlorobenzenes isomers.
157. Hardness–dependent ambient water quality criterion (100 mg/L as CaCO₃ used).
158. Value is for total of all chemical forms.
159. pH–dependent ambient water quality criterion (7.8 pH used).
160. These lowest effect levels are based on 10% of the screening level concentration instead of the default value of 5%.

161. These severe effect levels are based on 90% of the screening level concentration instead of the default value of the 95%.
162. Values are tentative guidelines.
163. Aluminum is pH dependent.
164. There is a duplicate row with higher values in the source.
165. Values are the same for Arsenic dissolved and Arsenic total recoverable.
166. Mercury dissolved value is listed. Total Recoverable value is 0.0034 mg/L.
167. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), Cold Water Habitat (CWH), and Limited Resource Water (LRW). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.
168. Mercury dissolved value is listed. Total Recoverable value is 0.0017 mg/L.
169. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), and Cold Water Habitat (CWH). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.
170. Mercury dissolved value is listed. Total Recoverable value is 0.00091 mg/L. Lake Erie Basin Total Recoverable value is 0.0000013 mg/L.
171. Selenium dissolved value is listed. Total Recoverable value is 0.005 mg/L.
172. The listed value is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), and Modified Warm Water Habitat (MWH).
173. The listed value is for Seasonal Salmonid Habitat (SSH) and Cold Water Habitat (CWH).
174. Ammonia's value is pH dependent. For Warm Water Habitat (WWH), Modified Warm Water Habitat (MWH), and Limited Resource Habitat (LRW), pH ranges between 6.5 – 7.7 with a temperature between 0C and 26C the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–2. Link to the tables is [here](#).
175. For Exceptional Warm Water Habitats (EWH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 25C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–3. Link to the tables is [here](#).
176. For Cold Water Habitat (CWH) and Seasonal Salmonid Habitat (SSH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 20C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–4. Link to the tables is [here](#).
177. Pentachlorophenol is pH dependent. The listed value of 0.011 mg/L is for a pH level of 7.5. For other pH levels, refer to Table 35–10. Link to the tables is [here](#).
178. Cadmium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9. Link to the tables is [here](#).
179. Chromium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
180. In addition, any whole sample of any representative aquatic organisms shall not exceed 0.64 mg/kg (wet weight).
181. Ammonia's value is pH dependent. For Warm Water Habitat (WWH) with pH ranges between 6.5 – 7.7 with a temperature between 10C and 14C, and during the months of March to November the value of 2.3 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–5. Link to the tables is [here](#).
182. Ammonia's value is pH dependent. For Exceptional Warm Water Habitats (EWH) with pH ranges between 6.5 – 7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 2.2 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–6. Link to the tables is [here](#).
183. Ammonia's value is pH dependent. For Modified Warm Water Habitat (MWH) with pH ranges between 6.5 -7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 3.4 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–7. Link to the tables is [here](#).

184. Ammonia's value is pH dependent. For Cold Water Habitat (CWH) with pH ranges between 6.5 – 7.7 with a temperature between 8C and 13C, a value of 2.2 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–8. Link to the tables is [here](#).
185. Copper is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
186. Lead is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
187. Nickel is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
188. Zinc is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
189. This criterion applies to the sum of DDT and metabolites.
190. The form of the chemical is dissolved.
191. The form of the chemical is total recoverable.
192. The form of the chemical is total.
193. The form of the chemical is total residual.
194. The form of the Cyanide is free.
195. Values enclosed by "()" were not calculated according to the regulations, due to limited data. These values should only be used for advisory purposes, such as establishing "reasonable potential".
196. Values enclosed by "[]" are national criteria and should be used for advisory purposes only.
197. Values are estimates.
198. Values are pH based.
199. Criterion is expressed as a function of the Water Effect Ratio (WER). For criterion in the table, WER equates to the default value of 1.0.
200. Dissolved criterion.
201. Criteria expressed as free cyanide (as CN)/L.
202. The value listed is calculated with an assumed hardness level of 100. To calculate additional hardness values, use the formulas provided in the document on page 34.
203. Westhollow Technical Center Levels were developed by Shell Oil for surface water and were approved for use by NJDEP with the following conditions: 1) the source area is removed, 2) these levels are on the fringe of the contamination area, and 3) active remediation is occurring. These levels are applicable to surface water and wetland areas.
204. The value listed is calculated with an assumed pH of 6.8 and temperature of 20C. For other values regarding various temperatures and pH levels, use the formulas provided in the document on page 33.
205. This value is for the total of Heptachlor/Heptachlor epoxide.
206. The benzene hexachloride (BHC) value applies to all stereoisomers of 1,2,3,4,5,6–hexachlorocyclohexane.
207. This value applies to all chlorinated dibenzofurans.
208. This value applies to all chlorinated dibenzo–p–dioxins.
209. Criteria for these metals are measured as total recoverable metal. However, they may be applied as dissolved metals when, as part of a permit application, a dissolved metals translator has been established according to the procedures described in the document, "Guidance for Establishing a Metal Translator", Florida Department of Environmental Protection, December 17, 2001.
210. In the absence of concentration data specific for the III and VI valence states of chromium, total chromium concentrations in surface water should be compared to the criteria for Chromium (hexavalent).
211. These values were derived assuming soil pH 6.8. These leachability values are dependent upon both the metal concentration in soil and soil characteristics. Thus, if site–specific soil characteristics are different than the defaults, these leachability values may not apply. If this is the case, site–specific leachability values should be derived using methods such as TCLP or SPLP.
212. Phytotoxicity must be considered.
213. Unless concentrations for both chromium III and VI are known, total chromium concentrations should be compared with direct exposure SCTLs for chromium VI.
214. Expressed as dissolved.

215. Expressed as total recoverable.
216. Criteria do not apply to waters subject to water quality objectives in Tables III–2A and III–2B of the San Francisco Bay Regional Water Quality Control Board’s 1986 Basin Plan.
217. Criterion most appropriately applied to the sum of alpha–Endosulfan and beta–Endosulfan.
218. For nonchlorinated phenolic compounds.
219. For chlorinated phenolic compounds.
220. For benzene hexachloride isomers.
221. Value developed for chromium (VI); may be applied to total chromium if valence is unknown.
222. For the sum of alpha–Endosulfan, beta–Endosulfan, and Endosulfan sulfate.
223. Expressed as nitrogen.
224. For total chlorine residual.
225. For dissolved chloride associated with sodium; criterion probably will not be adequately protective when chloride is associated with potassium, calcium, or magnesium rather than sodium.
226. Expressed as free cyanide (as CN).
227. For pH between 6.5 and 9.0. Use of Water–Effects Ratios might be appropriate because: (1) aluminum is less toxic at higher pH and hardness but relationship not well quantified; (2) aluminum associated with clay particles may be less toxic than that associated with aluminum hydroxide particles; and (3) many high quality waters in U.S. exceed 87 ug/L as total or dissolved.
228. Applies to DDT and its metabolites (i.e., the total concentration of DDT and its metabolites should not exceed this value).
229. Interim.
230. This value is for ruminant livestock. For non–ruminants, use 0.284
231. See the Ecological Soil Screening Level for Aluminum, Interim Final, OSWER Directive 9285.7–60, avail- able [here](#)
232. See the Ecological Soil Screening Level for Iron, Interim Final, OSWER Directive 9285.7–69, available [here](#)
233. The chronic freshwater–based and chronic tissue–based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.000028 mg/kg wet weight for invertebrate whole–body tissue; 0.000201 mg/kg wet weight for fish whole–body tissue; and 0.000087 mg/kg wet weight for fish muscle tissue.
234. The chronic freshwater–based and chronic tissue–based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.00108 mg/kg wet weight for invertebrate whole–body tissue; 0.00649 mg/kg wet weight for fish whole–body tissue; and 0.000133 mg/kg wet weight for fish muscle tissue.
235. pH 6.5–9.0
236. Criteria is for total dissolved form.
237. Freshwater criteria calculated using the EPA Biotic Ligand Model.
238. Cyanide measured as free cyanide at the lowest pH occurring in the receiving water or cyanide amenable to chlorination.
239. The one–hour average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the CMC (acute criterion magnitude) calculated using the following equation: $CMC = \min((0.275/(1+10^{(7.204-pH)})) + (39/(1+10^{(pH-7.204)}))), (0.7249*((0.0114/(1+10^{(7.204-pH)}) + (1.6181/(1+10^{(pH-7.204)})) * (23.12*10^{(0.036*(20-t))}))$, where pH = pH of interest, t = temperature degrees Celsius.
240. The thirty–day rolling average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the chronic criterion magnitude (CCC) calculated using the following equation: $CCC = 0.8876*((0.0278/(1+10^{(7.688-pH)})) + (1.1994/(1+10^{(pH-7.688)})) * (2.126*10^{(0.028*(20-MAX(T where pH = pH of interest, t = temperature degrees Celsius. In addition, the highest 4–day average within the 30–day averaging period should not be more than 2.5 times the CCC more than once in 3 years on average.$

241. Value = $\text{EXP}^{(0.9789 \cdot \text{LN}(\text{hardness}) - 3.866) \cdot (1.136672 - ((\text{LN}(\text{hardness}) \cdot (0.041838))))}$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
242. Value = $\text{EXP}^{(0.7977 \cdot \text{LN}(\text{hardness}) - 3.909) \cdot (1.101672 - ((\text{LN}(\text{hardness}) \cdot (0.041838))))}$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
243. Value = $0.316 \cdot \text{EXP}(0.819 \cdot \text{LN}(\text{hardness}) + 3.7256)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
244. Value = $0.86 \cdot \text{EXP}(0.819 \cdot \text{LN}(\text{hardness}) + 0.6848)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
245. Value = $(1.46203 - \text{LN}(\text{hardness}) \cdot 0.145712) \cdot \text{EXP}(1.273 \cdot \text{LN}(\text{hardness}) - 1.460)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
246. Value = $(1.46203 - \text{LN}(\text{hardness}) \cdot 0.145712) \cdot \text{EXP}(1.273 \cdot \text{LN}(\text{hardness}) - 4.705)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
247. Value = $0.998 \cdot \text{EXP}(0.8460 \cdot \text{LN}(\text{hardness}) + 2.255)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
248. Value = $0.997 \cdot \text{EXP}(0.8460 \cdot \text{LN}(\text{hardness}) + 0.0584)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
249. Value = $\text{EXP}(1.005 \cdot \text{pH} - 4.869)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
250. Value = $\text{EXP}(1.005 \cdot \text{pH} - 5.134)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
251. Value = $0.85 \cdot \text{EXP}(1.72 \cdot \text{LN}(\text{hardness}) - 6.59)$, where EXP = e = 2.71828, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
252. Benchmark derived by TCEQ using the LC50 approach in accordance with the Texas Surface Water Quality Standards 30 TAC 307.6(c)(7) after 2016.
253. Benchmarks based on NOAELs, LOAELs, or similar values from specific toxicological studies. Contact the TCEQ for more information.

