

Name: Chlorophenoxy herbicide (2,4-D)
CAS: 94-75-7

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	280	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zealand	ANZECC, 2000
Water	40	Chronic		Aquatic life	No effects to commercially important species	Lowest EC20 for fish species with UF	British Columbia	BC Regs 375/96, 1996
Water	100	N/A		Livestock	N/A	N/A	British Columbia	BC Regs 375/96, 1996
Water	100	Chronic		Livestock	No effects to sensitive livestock species and life stages	Lowest Tolerable Daily Intake (geomean of LOAEL and NOAEL divided by UF) for sensitive species	Canada	CCME, 1993
Freshwater	4	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999
Water	220	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	1400	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Freshwater	4	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Water	10	Chronic	Ester form	Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Water	40	Chronic EQS-AA (årligt medelvärde)	Non-ester form	Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Ytvatten (totalt)	26	Chronic, MTRtotal	Non-ester form		ges ej	ges ej		RIVM, NL, samt förordning 14 april 2010

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	0,3	Årligt medelvärde. God standard på ytvatten (målvärde långsiktigt i Naturen)	Non-ester form	Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Vatten	NOEC 270 (14 dagar) OBS inget riktvärde	Kroniska data		Akvatiskt liv		NOEC för mest känsliga art Lemna Gibba	EU review report pesticide database	EU
Ytvatten (söt)	5,8	Akut värde (AMF)		Akvatiskt liv		Baserat på TGD II, data ej lokaliserade	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Ytvatten (söt)	2,2	Kroniskt värde (MF)		Akvatiskt liv		Baserat på TGD II, data ej lokaliserade	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Freshwater	0,1	Chronic, UQN				Ges ej	Tyskland	Bundesministerium riktvärde i lag
Freshwater	26	MKN kroniskt		Akvatiskt liv		Lägsta NOEC 24 ug/l men riktvärde sätts till 9 ug/l och ej det värde som nu används i databasen.	Nederländerna	RIVM, NL, rapport Pesticides 601 501 002, samt lagtext 14 april 2014.

Name: **MCPA, (4-Chloro-2-methylphenoxy) acetic Acid)**
CAS: **94-74-6**

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	1,0	Kroniskt		ytvatten	Sötvatten alla arter	NOEC för Lemna Gibba. Data för tre trofiska nivåer. AF 10	Kemikalieinspektionen	NV rapport 5799
Sötvatten (yt)	12 (pH <7) 80 (pH >7)	Kroniskt, ESQ-AA, årligt medelvärde		ytvatten	Sötvatten alla arter		Storbritannien	UK Environment Agency, 2011
Sötvatten (yt)	80	Akut, MAC		ytvatten	Sötvatten alla arter		Storbritannien	UK Environment Agency, 2011
Sötvatten (yt)	260	Akut (AMF)			Följer TGD II	Lägsta EC50 (Lemna Gibba) från tre trofiska nivåer	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Sötvatten (yt)	13	Kroniskt (MF)			Följer TGD II	Lägsta NOEC (Lemna Gibba) från tre trofiska nivåer	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Sötvatten (yt)	1,4	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Kroniska data från tre trofiska nivåer, Se rapport jul 2009 om MKN värden för skydd av Rhen	Nederländerna	RIVM, NL, publicerat 3 jan 2014. Se även rapport om skydd av Rhen för bakgrundsdata.
Water	0,025	Chronic		Irrigated crops	No effects to sensitive crop species at any life stage	Geometric mean of LOEC and NOEC divided by UF for sensitive species (i.e.: lowest calculated)	Canada	CCME, 1993
Water	25	Chronic		Livestock	No effects to sensitive livestock species and life stages	Lowest Tolerable Daily Intake (geomean of LOAEL and NOAEL divided by UF) for sensitive species	Canada	CCME, 1993
Freshwater	2,6	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999
Marine	4,2	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999

Name: 2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)
CAS: 93-65-2
Name: 2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP) inkl. isomerer
CAS: 7085-19-0
Name: Mekoprop-P
CAS: 16848-77-8

Name	CAS #	Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)	93-65-2	Water	10000	Acute		Aquatic life	N/A	N/A	SAVEX, 2000
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)	93-65-2	Water	13	Chronic		Aquatic life	N/A	N/A	SAVEX, 2000
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)	93-65-2	Freshwater	20	Chronic	Annual mean concentration should not exceed	Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	UK Environment Agency, 2011
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)	93-65-2	Freshwater	187	Anges ej om akut eller kroniskt, men troligen akut	95th percentile of concentrations should not exceed	Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	UK Environment Agency, 2011
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP)	93-65-2	Sötvatten (yt)	20	Kroniskt			Sötvatten alla arter	NOEC för Lebbia minor Data för tre trofiska nivåer. AF 10	NV rapport 5799
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCP) inkl. isomerer	7085-19-0	Sötvatten (yt)	18	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Se rapport om skydd av Rhen. Baserat på lägsta NOEC värde vattenväxt av flera data. Finns ca 13 NOEC data och åtskilliga akuta. AF 10	RIVM, NL, samt förordning 14 april 2010

Name	CAS #	Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP)	93-65-2	Sötvatten (yt)	160	Akut (AMF)			Följer TGD II	Lägsta EC50 (Lemna Minor) från tre trofiska nivåer	Sammanställning Bioforsk, Tema nr 10, sep. 2010
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP)	93-65-2	Sötvatten (yt)	44	Kroniskt (MF)			Följer TGD II	Lägsta NOEC (Lemna Minor) från tre trofiska nivåer	Sammanställning Bioforsk, Tema nr 10, sep. 2010
MCP egen QSAR	93-56-2	Sötvatten (yt)	10					Lägsta QSAR data på grönalga (133mg/l, mest relevant för MCP) AF 10000, en värdesiffr	Ramböll QSAR data
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP)	93-65-2	Freshwater	0,1	Chronic, (UQN)		Ytvatten (söt)	Ges ej	Ges ej	Bundesministerium riktvärde i lag, Klass Anlage 5. 90:e percentilen av uppmätta halter under ett år får inte överstiga UQN

Name: Trichlorophenoxy acetic acid, 2,4,5-
CAS: 93-76-5

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	20	N/A		Livestock	N/A	N/A	British Columbia	BC Regs 375/96, 1996
Water	686	Chronic	Ecological Screening Level	All aquatic organisms	Screening level indicative of potential effects to aquatic biota	Geometric mean of average species NOEC + UF	US EPA-Region 5, EPA Region 3	EPA, 1999; EPA, 2005
Sötvatten (yt)	9	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Baserat på akut data för fisk. AF 1000. Fanns även NOEC värde men det låg för nära akutvärde	Nederländerna	NL, lagtext 1 april 2010, samt Rapport RIVM 601 501 002.

Name: Diklorprop
CAS: 120-36-5
Name: Diklorprop-p
CAS: 15165-67-0

Name	CAS #	Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
Diklorprop	120-36-5	Söt-vatten (yt)	10	Kroniskt		akvatiskt liv	Sötvatten alla arter	NOEC för Lebbia minor Data för tre trofiska nivåer. AF 10, PNEC egentligen 15 µg/l, men avrundas neråt	NV rapport 5799
Diklorprop-p	15165-67-0	Söt-vatten (yt)	250	Akut (AMF)			Förljer TGD II	Lägsta EC50 (Lemna Gibba) från tre trofiska nivåer	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Diklorprop-p	15165-67-0	Söt-vatten (yt)	15	Kroniskt (MF)			Förljer TGD II	Lägsta NOEC (Lemna Gibba) från tre trofiska nivåer	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Diklorprop-p	15165-67-0	Sötvatten (yt)	1	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	RIVM, NL, publicerat 3 jan 2014. Även rapport 601 501 002, men framtaget värde i denna rapport skiljer från lagtext

Name: Chlorophenoxy herbicide (2,4,5-TP)
CAS: 93-72-1

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	36	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zealand	ANZECC, 2000
Water	100	Chronic		Livestock	No effects to sensitive livestock species and life stages	Lowest Tolerable Daily Intake (geomean of LOAEL and NOAEL divided by UF) for sensitive species	Canada	CCME, 1993
Water	270	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	30	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	Michigan, EPA Region 3	MDEQ, 2008; EPA, 2005
Freshwater	36	Chronic		Aquatic life & their uses	No unacceptable effects to aquatic organisms	5th percentile of EC50 with lifetime exposure/non-lethal endpoints	USA	EPA, 2009
Sötvatten (yt)	0,3	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL, publicerat 3 jan 2014.

Name: 4-CPP 2-(4-CHLOROPHENOXY) PROPIONIC ACID
CAS: 3307-39-9

Media	Guideline Value µg/l	Acute/ Chronic	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten	90	PNEC (kroniskt) baserat på QSAR	Akvatiskt liv		AF 10000 på lägsta akuta QSAR data (Daphnia). Säkerhetsfaktorn som ska användas för akuta data (1000) har multiplicerats med 10 för att data enbart är baseade på QSAR.		Ramböll mars 2014

Underlag i QSAR beräkning ECOSAR

Art	End-point	Exponeringstid	Resultat (mg/l)	Referens
Alg	Grönalg	96 h, EC50	832	QSAR; ECOSAR
Vattenväxt		-		
Kräftdjur	Daphnia	48 h , LC50	932	QSAR; ECOSAR
Fiskar	Fsk	96 h, LC50	1642	QSAR, ECOSAR
	-E-log BCF	0,5	-	QSAR EPISUITE

Name: 2,6-DCPP, (2,6-dichlorophenoxy) propionic acid
CAS: 25140-90-3

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten	10					Lägsta akuta data för Grönalg 136 mg/l. AF 10 000	Ramböll	QSAR Ecosar

Name Dichloromethylphenol, 3,4- (PCOC)
CAS: 1570-64-5
Name: Chloro-3-methylphenol, 4-
CAS: 59-50-7

Name	CAS #	Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
Dichloromethylphenol, 3,4- (PCOC)	1570-64-5	Water	50	Chronic, PNEC (sötvatten)				AF 10 på NOEC Daphnia. Finns NOEC på några arter	UNEP Publications
Chloro-3-methylphenol, 4-	59-50-7	Water	7,4	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	MDEQ, 2008
Chloro-3-methylphenol, 4-	59-50-7	Water	67	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	MDEQ, 2008
Chloro-3-methylphenol, 4-	59-50-7	Freshwater	3	Chronic	Minimal data available, use with caution	Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	MOE, 1994
Chloro-3-methylphenol, 4-	59-50-7	Water	40	Chronic		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	UK Environment Agency, 2011
Dichloromethylphenol, 3,4- (PCOC)	1570-64-5	Water	50	PNEC (sötvatten) kroniskt		Aquatic life	No unacceptable effects to aquatic life	Baserat på lägsta NOEC för Daphnia AF 10 (få kroniska data).	OECD SIDS, 29 Jun 1998, Danish EPA
Dichloromethylphenol, 3,4- (PCOC)	1570-64-5	Sötvatten (yt)	50	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	RIVM, NL, publicerat 3 jan 2014.

Presenterar även alternativa klorkresoler då få data på denna klorkresol

Name: 6-klor-2-metylfenol
CAS: 87-64-9

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	3	Chronic			Akvatiskt liv		Australien	Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000

Name: Chlorophenol, 2-
CAS: 95-57-8

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	340	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zealand	ANZECC, 2000
Water	17	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Water	18	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	160	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Freshwater	7	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Water	160	Acute		Aquatic life	N/A	N/A	Quebec	SERT, 1997
Water	50	Chronic AA-EQS (årligt medelvärde)		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Freshwater	43,8	Chronic	Pertains to water hardness of 50.0 mg CaCO ₃ /L	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Safety factor of ten used to derive a chronic value from acute value.	US EPA Region 4	EPA, 2001

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	438	Acute	Pertains to water hardness of 50.0 mg CaCO ₃ /L	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Toxicity test based on 5 species.	US EPA Region 4	EPA, 2001
Freshwater	24	Chronic	Ecological Screening Level	Ecosystem health	Screening level indicative of potential effects to aquatic biota	Geometric mean of average species NOEC + UF	USA - EPA Region 5, EPA Region 3	EPA, 1999; EPA 2005
Freshwater	0,35	Chronic, Streifenwert		Sötvatten (yt), målvärde (streefwaarde) norm	Ges ej	Ges ej	Nederländerna dec 2001	RIVM
Freshwater	35	Chronic		JG-MKN= MPCeco	Data från 7 olika arter	NOEC för mest känslig art (macrophyte Salvinia minima, flyttväxt) AF 10	Nederländerna dec 2011	RIVM Report 601714006/2009
Freshwater	110	Chronic		MAC-MKN	Ges ej	Ges ej	Nederländerna dec 2011	RIVM
Freshwater	10	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Tyskland	Bundesministerium riktvärde i lag
Ytvatten	3	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla mono-klorfenoler

Name: Chlorophenol, 3-
CAS: 108-43-0

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	15	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.2	British Columbia	BC MOE, 2010
Freshwater	7	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Water	250	Acute		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Water	50	Chronic, AA-EQS årligt medelvärde)		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Freshwater	4	MKN-JG Chronic		Sötvatten (yt)	Ges ej	Känsligaste art av Bacteria och Fisk Cyprinus (finns NOEC) carpio. AF 1000 på lägsta LC50 som var lägre än NOEC på karp (finns 5 akuta på olika taxa)	Nederländerna dec 2001	RIVM Report 601714006/2009
Freshwater	10	Chronic, (AA) (UQN)		Ytvatten (söt)	Ges ej	Ges ej	Tyskland	Bundesministerium riktvärde i lag
Ytvatten	3	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla mono-klorfenoler

Name: Chlorophenol, 4-
CAS: 106-48-9

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	220	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zealand	ANZECC, 2000
Water	7,8	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.3	British Columbia	BC MOE, 2010
Water	15	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	140	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Freshwater	7	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Water	250	Acute		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Water	50	Chronic, AA-EQS (årligt medelvärde)		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Freshwater	16	Chronic, JG-MKN (NL) 0 MPCeco		Sötvatten (yt)		NOEC för 12 olika sötvattenarter. Riktvärde baserat på lägsta för fisk med AF 10. Listade även 25 akuta data för olika taxa	Nederländerna dec 2001	RIVM Report 601714006/2009
Freshwater	0,16	Kroniskt, NC=SF (målvärde långsiktgt) (NL)		Sötvatten (yt)		NOEC för 12 olika arter. Riktvärde baserat på lägsta för fisk	Nederländerna dec 2001	RIVM Report 601714006/2009
Freshwater	3600	SRCEco		Sötvatten (yt)		NOEC för 12 olika arter. Riktvärde baserat på lägsta för fisk	Nederländerna dec 2001	RIVM Report 601714006/2009
Ytvatten	3	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla mono-klorfenoler

Name: Dichlorophenol, 3,4-
CAS: 95-77-2

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	2,7	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Freshwater	0,2	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Grundvatten	590	Chronic		Aquatic life & recreation	Anges ej	Anges ej	Ontario	RIVM publicerat 3 jan 2014
Ytvatten, bakgrundsdata framtaget för grundvatten	1	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla diklorfenoler

Name: Dichlorophenol, 2,6-
CAS: 87-65-0

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	9,1	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Freshwater	0,2	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Endast värde för grundvatten	2300	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL; publicerat 3 jan 2014.
Ytvatten, bakgrundsdata framtaget för grundvatten	1	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla diklorfenoler

Name: Dichlorophenol, 2,4-
CAS: 120-83-2
Name: Dichlorophenol, 2,5-
CAS: 583-78-8

Name	CAS #	Media	Guideline Value µg/l	Acute/Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
Dichlorophenol, 2,4-	120-83-2	Freshwater	120	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	ANZECC, 2000
Dichlorophenol, 2,4-	120-83-2	Water	2,6	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	BC MOE, 2010
Dichlorophenol, 2,4-	120-83-2	Freshwater	0,2	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	CCME, 2007; AE, 1999
Dichlorophenol, 2,4-	120-83-2	Water	92	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	MDEQ, 2008
Dichlorophenol, 2,4-	120-83-2	Water	11	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	MDEQ, 2008; EPA, 2005
Dichlorophenol, 2,4-	120-83-2	Freshwater	0,2	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	MOE, 1994
Dichlorophenol, 2,4-	120-83-2	Water	20	Chronic, AA-ESQ årligt medelvärde		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	UK Environment Agency, 2011
Dichlorophenol, 2,4-	120-83-2	Freshwater	36,5	Chronic	Pertains to water hardness of 50.0 mg CaCO ₃ /L	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Toxicity test based on 1 species.	EPA, 2001

Name	CAS #	Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Reference
Dichlorophenol, 2,4-	120-83-2	Freshwater	202	Acute	Pertains to water hardness of 50.0 mg CaCO ₃ /L	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Toxicity test based on 3 species.	EPA, 2001
Dichlorophenol, 2,4-	120-83-2	Freshwater	11	Chronic	Ecological Screening Level	Ecosystem health	Screening level indicative of potential effects to aquatic biota	Geometric mean of average species NOEC + UF	EPA, 1999
Dichlorophenol, 2,5-	583-78-8	Water	2,3	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	BC MOE, 2010
Dichlorophenol, 2,5-	583-78-8	Freshwater	0,2	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	MOE, 1994
Dichlorophenol, 2,5-	120-83-2 och 583-78-8	Grundvatten	0,2	Chronic		Akvatiskt liv	Anges ej	Anges ej	RIVM,
2,4 + 2,5Dichlorophenol	583-78-8	Ytvatten, bakgrundsdata framtaget för grundvatten	1	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla diklorfenoler

Name: 2,3,5-Trichlorophenol
CAS: 933-78-8

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	2,2	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Freshwater	18	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Grundvatten	260	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Inga kroniska data. MPCvatten baserat på risken för sekundär förgiftning av fågel och däggdjur. Värde i rapporten 12 ug/l. Hur värdet 0,26 ug/l är framtaget framgår ej.	Nederländerna	RIVM, NL; Report 601714005/2009, C.T.A. Moermond E.H.W. Heugens
Ytvatten, bakgrundsdata framtaget för grundvatten	1	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla triklorfenoler

Name: Trichlorophenol, 2,4,6-
CAS: 88-06-02

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	3	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zeland	ANZECC, 2000
Water	5,3	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Freshwater	18	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999
Water	5	Chronic		Aquatic life	No injurious or debilitating effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	39	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Freshwater	203	Acute		Aquatic life	Qualities of waters of the state that are necessary for aquatic life and recreational designated public uses and benefit	Cumulative probability of the 5th percentile of distribution of all acute toxicity values for the genera or species	Minnesota	MPCA, 2012
Freshwater	18	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Freshwater	3,2	Chronic	Value dependent on water hardness: $e^{(0.8545(\ln H)-1.465)}$	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Safety factor of ten used to derive a chronic value from acute value.	US EPA Region 4	EPA, 2001

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Freshwater	32	Acute	Value dependent on water hardness: $e^{(0.9422(\ln H)-1.464)}$	Aquatic life	Intended to protect 95% of aquatic species, 95% of the time	Lowest reported effect level was used with a safety factor of ten to protect more sensitive species. Toxicity test based on 3 species.	US EPA Region 4	EPA, 2001
Freshwater	4,9	Chronic	Ecological Screening Level	Ecosystem health	Screening level indicative of potential effects to aquatic biota	Geometric mean of average species NOEC + UF	USA - EPA Region 5, Region 3	EPA, 1999; EPA, 2005
Sötvatten (yt)	0,26	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Lägsta NOEC (ej på bakterie), från 7 kroniska data. AF 10, värdet i rapporten är dock 0,17 ug/l för vatten, (både sött och salt)	Nederländerna	RIVM, NL; Report 601714005/2009, C.T.A. Moermond E.H.W. Heugens
Ytvatten	1	Chronic, MKN		Sötvatten (yt)	Ges ej	Ges ej	Sverige	Från NV-rapport 5976 förorenad mark Baserat på RIVMs data. Detta värde är ett samlat värde för alla triklorfenoler

Name: Trichlorofenol, 2,4,5-
CAS: 95-95-4

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	2	Chronic	pH = 7.2; temp = 10C	All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	Most sensitive LOAEL + UF of 0.1	British Columbia	BC MOE, 2010
Freshwater	18	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999
Freshwater	18	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Water	2	Chronic	Criteria is described as provisional	Aquatic life	N/A	N/A	Quebec	SERT, 1995
Water	46	Acute	Criteria is described as provisional	Aquatic life	N/A	N/A	Quebec	SERT, 1995
Freshwater	100	Acute	Proposed Guideline	Aquatic life & their uses	No unacceptable effects to aquatic organisms with less than 1 hour exposure	1/2 the 5th percentile of 96hr EC50 distribution with immobility/ lethality endpoints	USA	EPA, 2009
Marine	240	Acute	Proposed Guideline	Aquatic life & their uses	No unacceptable effects to aquatic organisms with less than 1 hour exposure	1/2 the 5th percentile of 96hr EC50 distribution with immobility/ lethality endpoints	USA	EPA, 2009
Freshwater	63	Chronic	Proposed Guideline	Aquatic life & their uses	No unacceptable effects to aquatic organisms	5th percentile of EC50 with lifetime exposure/non-lethal endpoints	USA	EPA, 2009
Marine	11	Chronic	Proposed Guideline	Aquatic life & their uses	No unacceptable effects to aquatic organisms	5th percentile of EC50 with lifetime exposure/non-lethal endpoints	USA	EPA, 2009
Sötvatten (yt)	0,13	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL; Report 601714005/2009, C.T.A. Moermond E.H.W. Heugens

Name: Dinoseb
CAS: 88-85-7

Media	Guideline Value µg/l	Units	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	0,5	ug/L	Chronic		Aquatic life	No effects to commercially important species	Lowest EC20 for fish species with UF	British Columbia	BC Regs 375/96, 1996
Water	150	ug/L	N/A	Standard to protect lactating dairy animals	Livestock	N/A	N/A	British Columbia	BC Regs 375/96, 1996
Water	16	ug/L	Chronic		Irrigated crops	No effects to sensitive crop species at any life stage	Geometric mean of LOEC and NOEC divided by UF for sensitive species (i.e. : lowest calculated)	Canada	CCME, 1993
Water	150	ug/L	Chronic		Livestock	No effects to sensitive livestock species and life stages	Lowest Tolerable Daily Intake (geomean of LOAEL and NOAEL divided by UF) for sensitive species	Canada	CCME, 1993
Freshwater	0,05	ug/L	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999; EPA, 2005
Water	4,8	ug/L	Acute		Aquatic life	No unacceptable effects to aquatic life	N/A	Michigan	MDEQ, 2008
Water	0,03	ug/L	MKN Chronic		Aquatic life	N/A	NOEC för känsligaste art, Salvelinus namaycush (Kanada röding AF 10)	Nederländerna	RIVM, NL, från rapport 6015011002, Oct. 1997

Name: Dioxin (och dioxinlika föreningar)

CAS: 1746-01-6 (TCDD)

Name	CAS #	Media	Guideline Value	Units	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Main Jurisdiction	Reference
Dioxin (och dioxinlika föreningar)	1746-01-6 (TCDD)	Biota	Summa PCDD + PCDF + PCB-DL 0,0065	µg/kg TEQ					EU MKN	Direktiv 13/39/EU
Dioxin (och dioxinlika föreningar)	1746-01-6 (TCDD)	Grund-vatten	0,001	ng/l					Nederländerna	RIVM, Bijlage N van de Regeling bodemkwaliteit

Då det finns många olika dioxiner baseras data på:
Ex. 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), Dioxin mäts som TCDD-ekvivalenter

Miljö kvalitetsnormen för biota avser fisk om inget annat anges. stället, så länge som den tillämpade MKN ger en likvärdig skyddsnivå. För ämne nr 37 (dioxiner och dioxinlika föreningar) avser miljö kvalitetsnormen för biota fisk, kräddjur och blötdjur, i linje med avsnitt 5.3 i bilagan till förordning (EU) nr 1259/2011 av den

Name: Bentazon
CAS: 25057-89-0

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	510	Chronic		Aquatic life	N/A	N/A	Quebec	SAVEX, 2000
Water	11000	Acute		Aquatic life	N/A	N/A	Quebec	SAVEX, 2000
Water	73	MKN Chronic		Aquatic life	N/A	N/A	Nederländerna	RIVM, NL, samt förordnign 14 april 2010
Water	500	AA-EQS		Aquatic life	N/A	N/A	UK EPA	Databas
Water	0,1	UQN		Aquatic life	N/A	N/A	Tyskland	Förordning 20.07.2011
Water	80	Kroniskt värde (MF)		Akvatiskt liv		Lägsta NOEC (alg) för tre trofiska nivåer. AF 10	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Water	36	Kroniskt värde (MF)		Akvatiskt liv		Lägsta akut värde (EC50) för Lemna Gibbia (fler olika trofiska nivåer finns). AF 100	Sverige	KEMI för NV

Name: **Quinmerac/Kvinmerak**

CAS: **90717-03-6**

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	100	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL, 3 jan 2014.
Sötvatten (yt)	100	PNEC/MKN kronikt	anges ej	anges ej	Akvatiskt liv	NOEC av Daphnia Magna AF 10 (data från tre trofiska nivåer, både kort och långtidstest)	Sverige	Kemi

Name: Isoproturon
CAS: 34123-59-6

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	0,3	JG-MKNtotal Kroniskt	anges ej	Akvatiskt liv	anges ej	Lägsta NOEC (daphnia) av tre trofiska nivåer	Nederländerna	RIVM, NL, samt förordning 14 april 2010
Freshwater	0,3	Chronic		Ecosystem & human health	Minimal effects to aquatic life	Most appropriate NOEC(s) with designated uncertainty factor	European Union	EU, 2008, samt nytt direktiv 2013. MKN
Freshwater	1	Acute		Ecosystem & human health	Minimal effects to aquatic life	Most appropriate NOEC(s) with designated uncertainty factor	European Union	EU, 2008
Freshwater	20	Acute		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Water	2	Chronic		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Water	0,3	Chronic		Aquatic life	No unacceptable effects to aquatic life	Lägsta NOEC för alg. Data finns från tre trofisk nivåer.	Sverige	KEMI
Water	0,3	Chronic		Aquatic life	No unacceptable effects to aquatic life	Lägsta NOEC för alg. Data finns från tre trofisk nivåer.	Tyskland	Förordning 20.07.2011
Water	0,32	Kroniskt värde (MF)		Akvatiskt liv		Lägsta NOEC (alg), AF10	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010

Name: 2,6 dichlorobenzamide (BAM)

CAS: 2008-58-4

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	1000	JG-MKNtotal Kroniskt	anges ej	Akvatiskt liv	anges ej	Anges ej	Nederländerna	RIVM, NL, 3 jan 2014.
Water	21	Kroniskt värde (MF)		Akvatiskt liv		NOEC på alg, AF 10	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010

Name: Metamitron
CAS: 41394-05-2

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	10	PNEC/MKN kroniskt	anges ej	anges ej	Akvatiskt liv	EC50 från alg (data från tre trofiska nivåer, både kort och långtidstest). AF100	Sverige	Kemi
Sötvatten (yt)	10	Kroniskt värde (MF)		Akvatiskt liv	Akvatiskt liv	NOEC på alg, AF 10	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Water	10	MKN Chronic		Aquatic life	N/A	N/A	Nederländerna	RIVM, NL, publicerat 3 april 2014, från rapport 601501002, 1997

Name: Klopyralid
CAS: 1702-17-6

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	71	Kroniskt värde (MF)		Akvatisk liv		Baserat på lägsta NOEC (alg), AF 10	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Sötvatten (yt)	75	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL, 3 jan 2014.
Sötvatten (yt)	54	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	Lägsta akuta värde för alg (då kronisk bedömdes som osäkra). ErC50 5,4. AF 100	Sverige	KEMI för NV

Name: Diuron
CAS: 330-54-1

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	150	N/A		Livestock	N/A	N/A	British Columbia	BC Regs 375/96, 1996
Freshwater	0,2	Chronic		Ecosystem & human health	Minimal effects to aquatic life	Most appropriate NOEC(s) with designated uncertainty factor	European Union	EU, 2008
Freshwater	1,8	Acute		Ecosystem & human health	Minimal effects to aquatic life	Most appropriate NOEC(s) with designated uncertainty factor	European Union	EU, 2008
Freshwater	1,6	Chronic		Aquatic life & recreation	Protect from effects to human, aquatic or plant life and esthetic qualities	Lowest NOEC of aquatic toxicity, mutagenicity or bioaccumulation endpoints	Ontario	MOE, 1994
Freshwater	20	Acute		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Freshwater	2	Chronic		Aquatic life	No unacceptable effects to aquatic life	NOEC or 5th percentile of SSD (depending on data availability) with appropriate uncertainty factor	United Kingdom	UK Environment Agency, 2011
Sötvatten (yt)	0,2	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL, 3 jan 2014. Minister beslut från 30 nov 2009

Name: Fluoroxipyr
CAS: 69377-81-7 (syra), 81406-37-3 (metylester)

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	19,9	PNEC/MKN kronikt	anges ej	anges ej	Akvatiskt liv	NOEC från alg (data från tre trofiska nivåer, både kort och långtidstest). AF10	Sverige	Kemi
Water	10	Kroniskt värde (MF)		Akvatiskt liv		NOEC på Daphnia (lägsta värde a tre trofiska nivåer). AF 10, även test på fisk och andmat	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010
Sötvatten (yt)	1100, metylester 2	JG-MKNtotal Kroniskt	anges ej	anges ej	anges ej	anges ej	Nederländerna	RIVM, NL, 3 jan 2014.

Name: Glyfosat
CAS: 1071-83-6

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Sötvatten (yt)	100	PNEC/MKN kroniskt	anges ej	anges ej	Akvatiskt liv		Sverige	Kemi, förslag till nytt riktvärde (höjning från 10 år 2007). Last update: 2007-09-28 (only glyphosate)
Sötvatten (yt)	77	OPPERVLAKTE WATER ad hoc MTR (opgelost)	anges ej	anges ej	anges ej	Anges ej	Nederländerna	RIVM, NL, 3 jan 2014.samt Risico's van Stoffen.
Freshwater	370	Chronic		Aquatic ecosystem	Protect ambient waters from chronic toxicity	95th percentile of NOEC distribution	Australia & New Zeland	ANZECC, 2000
Water	650	Chronic		Aquatic life	No effects to commercially important species	Lowest EC20 for fish species with UF	British Columbia	BC Regs 375/96, 1996
Water	280	N/A		Livestock	N/A	N/A	British Columbia	BC Regs 375/96, 1996
Water	280	Chronic		Livestock	No effects to sensitive livestock species and life stages	Lowest Tolerable Daily Intake (geomean of LOAEL and NOAEL divided by UF) for sensitive species	Canada	CCME, 1993; Saskatchewan MOE, 2006
Freshwater	65	Chronic		All aquatic organisms	Protect all forms of aquatic life and all aspects of aquatic life cycle	5th percentile of EC10/no-effect SSD	Canada	CCME, 2007; AE, 1999; Saskatchewan MOE, 2006
Water	28	Kroniskt värde (MF)		Akvatiskt liv			Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010

Name: AMPA, Aminomethylphosphonic acid (nedbrytningsprodukt Glyfosfat),
CAS: 1066-51-9

Media	Guideline Value µg/l	Acute/ Chronic	Application	Protected Receptors	Narrative Protection Goal	Operational Protection Goal	Main Jurisdiction	Reference
Water	79,7	MKN Chronic		Aquatic life	N/A	OPPERVLAKTEWATER MTR (total), samt även samma för OPPERVLAKTEWATER MTR (opgelost) . Lägsta EC50 AF1000, ger MTRwater. Samma art som i Sverige (Scenedesmus subspicatus, alg), men lägre EC50, vilket ger lägre riktvärde. Dock endast tre test.	Nederländerna	RIVM report 601501018/2003 Environmnetal risk limits for aminomethylphosphonic acid (AMPA) T.P. Traas and C.E. Smit
Water	452	Kroniskt värde (MF)		Akvatiskt liv		Troligen samma data som i Sverige, då samma resultat. Lägsta EC50 Scenedesmus subspicatus, alg. AF10.	Norge	Sammanställning Bioforsk, Tema nr 10, sep. 2010. Data från 1998 Tysklands rapport på Glyfosat och AMPA. Tre trofiska nivåer.
Water	452	Kroniskt värde (MF)		Akvatiskt liv		PNEC baserat på Scenedesmus subspicatus, alg EC50 of 452 mg/L.. Endast korttidstest, men från tre trofiska nivåer. AF 1000, 5 tester	Sverige	KEMI för NV, 2007. När värdet togs fram fanns ej riskbedömning från EU (Tyskland rapportör) på Glyfosat och dess metaboliter). Denna rapport är ej publicerad, men sammanfattning av arbetet finns på www.efsa.europa.eu.

Referenser från Kanadensisk databas för vissa av riktvärdena i denna bilaga.

Jurisdiction	Media	Reference	Link to Primary Reference
Kanada	Vatten MKN	CCME. Canadian Environmental Quality Guidelines Summary Table.	http://st-ts.ccme.ca/
Alabama Department of Environmental Management	Surface Water	ADEM 2010	www.alabamaadministrativecode.state.al.us/docs/adem/335-6-10.pdf
Alaska Department of Environmental Conservation	Surface Water	ADEC, 2008	http://dec.alaska.gov/water/wqsar/wqs/pdfs/Alaska%20Water%20Quality%20Criteria%20Manual%20for%20Toxic%20and%20Other%20Deleterious%20Organic%20and%20Inorganic%20Substances.pdf
Alberta Environment	Ground Water	Alberta Environment, 2010	environment.alberta.ca/02196.html
Alberta Environment	Surface Water	Alberta Environment, 1999	environment.gov.ab.ca/info/library/5713.pdf
Atlantic Provinces	All	Atlantic PIRI, 2012	http://www.atlanticrbca.com/data_eng/Eco_protocol_FINAL_DRAFT_May_16_2012.pdf
Australia & New Zealand Environment Conservation Council	Surface Water	ANZECC, 2000	http://www.environment.gov.au/water/publications/quality/pubs/nwqms-guidelines-4-vol1.pdf
British Columbia, Contaminated Sites Regulation	Water	BC Regs 375/96, 1996	http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/375_96_08
British Columbia, Ministry of the Environment	Surface Water	BC MOE, 2010	http://www.env.gov.bc.ca/wat/wq/wq_guidelines.html
California Environmental Protection Agency	Ground Water	CalEPA, 2008	http://www.cdph.ca.gov/certlic/drinkingwater/Documents/Lawbook/dwregulations-2012-06-21a.pdf

Jurisdiction	Media	Reference	Link to Primary Reference
California Environmental Protection Agency	Surface Water	CalEPA, 2009	http://www.swrcb.ca.gov/water_issues/programs/ocean/docs/2009_cop_adoptedeffective_usepa.pdf
California Environmental Protection Agency	Surface Water	CalEPA, 2011	http://www.swrcb.ca.gov/water_issues/programs/water_quality_goals/
Canadian Council of Ministers of the Environment	Surface Water	CCME, 1993	http://st-ts.ccme.ca/
Canadian Council of Ministers of the Environment	Surface Water	CCME, 2007	http://st-ts.ccme.ca/
Environment Canada	Ground Water	Environment Canada, 2010	http://www.esdat.net/Environmental%20Standards/Canada/Fed/Guidance%20Fed%20Interim%20GW%20guidelines%20ENG_2010%20May.pdf
Environment Canada	Surface Water	Environment Canada, 2010	http://www.ec.gc.ca/Publications/default.asp?lang=En&xml=34DCDBA9-9C86-4EB2-AA93-81B6755321F9
European Union	Surface Water	EU, 2008	http://ec.europa.eu/environment/water/water-dangersub/lib_pri_substances.htm
Great Lakes Region Initiative (Canada/USA)	Surface Water	EPA, 1995	www.epa.gov/owow/tmdl/glsprohibit.pdf
Health Canada	Freshwater	Health Canada, 2011	http://www.hc-sc.gc.ca
Health Canada	Freshwater	Health Canada, 2010	http://www.hc-sc.gc.ca
Idaho Department of Environmental Quality	Groundwater	IDEQ, n.d.c	http://adminrules.idaho.gov/rules/2012/58/0124.pdf
Idaho Department of Environmental Quality	Groundwater	IDEQ, n.d.d	http://adminrules.idaho.gov/rules/current/58/0111.pdf
Idaho Department of Environmental Quality	Surface Water	IDEQ, n.d.b	http://adminrules.idaho.gov/rules/current/58/0102.pdf
Maine Department of Environmental Protection	Groundwater	MEDEP, 2009	http://www.maine.gov/dep/spills/petroleum/documents/111809finalpetroremguidelines.pdf
Maine Department of Environmental Protection	Surface Water	MEDEP, 2012	http://www.maine.gov/sos/cec/rules/06/096/096c584.doc

Jurisdiction	Media	Reference	Link to Primary Reference
Michigan Department of Environmental Quality	Surface Water	MDEQ, 2008	http://www.michigan.gov/deq/0,1607,7-135-3313_3686_3728-11383--00.html
Minnesota	Groundwater	MDH, 2011	http://www.health.state.mn.us/divs/eh/risk/guidance/gw/table.html
Minnesota	Surface Water	MPCA, 2007	http://www.pca.state.mn.us/index.php/waste/waste-and-cleanup/cleanup-programs-and-topics/topics/perfluorochemicals-pfc/perfluorochemicals-pfcs.html?menuid=&redirect=1
Minnesota	Surface Water	MPCA, 2012	https://www.revisor.mn.gov/rules/?id=7050.0222
Montana Department of Environment Quality	Surface Water	MDEQ, 2010	http://www.deq.mt.gov/wqinfo/Standards/default.mcp#Surface
Netherlands - National Institute for Public Health & the Environment	Ground Water	Verbruggen et al, 2001	rivm.nl/bibliotheek/rapporten/711701020.pdf
New York- Department of Environmental Conservation	Groundwater	NYSDEC, 1993	http://www.dec.ny.gov/docs/water_pdf/togs111.pdf
New York- Department of Environmental Conservation	Surface Water	NYSDEC, 1993	http://www.dec.ny.gov/docs/water_pdf/togs111.pdf
New York State Department of Environmental Conservation	Surface Water	NYSDEC, 2000	http://www.dec.ny.gov/regs/4590.html
North Dakota Department of Health	Surface Water	NDDH, 2001	http://www.legis.nd.gov/information/acdata/pdf/33-16-02.1.pdf
Ohio Environmental Protection Agency	Surface Water	Ohio EPA, 2002	http://www.epa.ohio.gov/portals/35/rules/01-07.pdf
Ontario Ministry of the Environment	Ground Water	MOE, 2011	http://www.ene.gov.on.ca/environment/en/resources/STDPROD_086519.html
Ontario Ministry of the Environment	Surface Water	MOE, 1994	http://www.ene.gov.on.ca/environment/en/resources/STD01_076352.html
Oregon Department of Environmental Quality	Surface Water	Oregon DEQ, 1998	http://www.deq.state.or.us/lq/pubs/docs/cu/GuidanceEcologicalRisk.pdf

Jurisdiction	Media	Reference	Link to Primary Reference
Quebec MENV- Service des avis et des expertises	Surface Water	SAVEX, 2000, 2002	http://www.mddep.gouv.qc.ca/eau/criteres_eau/index.asp
Quebec MENV- Service d'évaluation des rejets toxiques	Surface Water	SERT, 1990, 1992, 1995, 1996, 1997, 1988	http://www.mddep.gouv.qc.ca/eau/criteres_eau/index.asp
Quebec Ministry of Environment (MENV) Aquatic Ecosystems Branch	Ground Water	MENV, 2001	http://www.mddep.gouv.qc.ca/sol/terrains/politique-en/appendix2-criteria.htm
Saskatchewan Ministry of Environment	Surface Water	Saskatchewan MOE, 2006	http://www.environment.gov.sk.ca/adx/asp/adxGetMedia.aspx?DocID=768,760,253,94,88,Documents&MediaID=332&Filename=Surface+Water+Quality+Objectives.pdf&I=English
Texas Commission on Environmental Quality	Surface Water	TRNCC, 1997	http://www.tceq.texas.gov/waterquality/standards/WQ_standards_1997.html
United Kingdom Environment Agency	Surface Water	UK Environment Agency, 2011	http://evidence.environment-agency.gov.uk/ChemicalStandards/home.aspx
USA - OakRidge National Lab	Surface Water	ORNL, 1998	rais.ornl.gov/documents/bjcor80.pdf
USA Environmental Protection Agency	Ground Water	EPA, 2009	http://water.epa.gov/drink/contaminants/index.cfm#List
USA Environmental Protection Agency	Surface Water	EPA, 2009	http://www.epa.gov/ost/criteria/wqctable/
USA Environmental Protection Agency - Region 3	Surface Water	EPA, 2004	http://www.epa.gov/reg3hwmd/risk/eco/index.htm
USA Environmental Protection Agency - Region 3	Surface Water	EPA, 2005	http://www.epa.gov/reg3hwmd/risk/eco/index.htm
USA Environmental Protection Agency - Region 4	Surface Water	EPA, 2001	http://www.epa.gov/region4/superfund/programs/riskassess/ecolbul.html#tbl4
USA Environmental Protection Agency - Region 5	Surface Water	EPA, 1999	http://epa.gov/region05/waste/cars/pdfs/ecological-screening-levels-200308.pdf

Jurisdiction	Media	Reference	Link to Primary Reference
Washington	Groundwater	WAC, n.d.b	http://apps.leg.wa.gov/WAC/default.aspx?cite=173-200-040
Washington	Surface Water	WAC, n.d.a	http://apps.leg.wa.gov/WAC/default.aspx?cite=173-201A-240
Washington State Department of Ecology	Groundwater	WSDE, 2011b	https://fortress.wa.gov/ecy/publications/summ_arypages/1009057.html
Washington State Department of Ecology	Surface Water	WSDE, 2011b	https://fortress.wa.gov/ecy/publications/summ_arypages/1009057.html

n.d. indicates that "no date" is available for this reference