

**ANNEX I: ENVIRONMENTAL QUALITY STANDARDS FOR PRIORITY
SUBSTANCES AND CERTAIN OTHER POLLUTANTS**

PART A: Environmental Quality Standards (EQS) for Priority Substances in surface water

AA: annual average;

MAC: maximum allowable concentration.

Unit: [$\mu\text{g/l}$].

(1)	(2)	(3)	(4)	(5)	(6)	(7)
N°	Name of substance	CAS number	AA-EQS ²¹	AA-EQS ²¹	MAC- EQS ²²	MAC-EQS ²²
			Inland surface waters	Other surface waters	Inland surface waters	Other surface waters
(1)	Alachlor	15972-60-8	0.3	0.3	0.7	0.7
(2)	Anthracene	120-12-7	0.1	0.1	0.4	0.4
(3)	Atrazine	1912-24-9	0.6	0.6	2.0	2.0
(4)	Benzene	71-43-2	10	8	50	50
(5)	Pentabromodiphenylether ²³	32534-81-9	0.0005	0.0002	<i>not applicable</i>	<i>not applicable</i>
(6)	Cadmium and its compounds <i>(depending on water hardness classes²⁴)</i>	7440-43-9	≤ 0.08 (Class 1) 0.08 (Class 2) 0.09 (Class 3) 0.15 (Class 4) 0.25 (Class 5)	0.2	≤ 0.45 (Class 1) 0.45 (Class 2) 0.6 (Class 3) 0.9 (Class 4) 1.5 (Class 5)	
(7)	C10-13 Chloroalkanes	85535-84-8	0.4	0.4	1.4	1.4
(8)	Chlorfenvinphos	470-90-6	0.1	0.1	0.3	0.3

²¹ This parameter is the Environmental Quality Standard expressed as an annual average value (EQS-AA).

²² This parameter is the Environmental Quality Standard expressed as a maximum allowable concentration (EQS-MAC). Where the MAC-EQS are marked as "not applicable", the AA-EQS values are also protective against short-term pollution peaks since they are significantly lower than the values derived on the basis of acute toxicity.

²³ For the group of priority substances covered by brominated diphenylethers (No. 5) listed in Decision 2455/2001/EC, an EQS is established only for pentabromodiphenylether.

²⁴ For Cadmium and its compounds (No. 6) the EQS values vary dependent upon the hardness of the water as specified in five class categories (Class 1: <40 mg CaCO₃/l, Class 2: 40 to <50 mg CaCO₃/l, Class 3: 50 to <100 mg CaCO₃/l, Class 4: 100 to <200 mg CaCO₃/l and Class 5: ≥ 200 mg CaCO₃/l).

(1)	(2)	(3)	(4)	(5)	(6)	(7)
N°	Name of substance	CAS number	AA-EQS ²¹	AA-EQS ²¹	MAC-EQS ²²	MAC-EQS ²²
			Inland surface waters	Other surface waters	Inland surface waters	Other surface waters
(9)	Chlorpyrifos	2921-88-2	0.03	0.03	0.1	0.1
(10)	1,2-Dichloroethane	107-06-2	10	10	<i>not applicable</i>	<i>not applicable</i>
(11)	Dichloromethane	75-09-2	20	20	<i>not applicable</i>	<i>not applicable</i>
(12)	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	1.3	1.3	<i>not applicable</i>	<i>not applicable</i>
(13)	Diuron	330-54-1	0.2	0.2	1.8	1.8
(14)	Endosulfan	115-29-7	0.005	0.0005	0.01	0.004
(15)	Fluoranthene	206-44-0	0.1	0.1	1	1
(16)	Hexachlorobenzene	118-74-1	0.01	0.01	0.05	0.05
(17)	Hexachlorobutadiene	87-68-3	0.1	0.1	0.6	0.6
(18)	Hexachlorocyclohexane	608-73-1	0.02	0.002	0.04	0.02
(19)	Isoproturon	34123-59-6	0.3	0.3	1.0	1.0
(20)	Lead and its compounds	7439-92-1	7.2	7.2	<i>not applicable</i>	<i>not applicable</i>
(21)	Mercury and its compounds	7439-97-6	0.05	0.05	0.07	0.07
(22)	Naphthalene	91-20-3	2.4	1.2	<i>not applicable</i>	<i>not applicable</i>
(23)	Nickel and its compounds	7440-02-0	20	20	<i>not applicable</i>	<i>not applicable</i>
(24)	Nonylphenol	25154-52-3	0.3	0.3	2.0	2.0
(25)	Octylphenol	1806-26-4	0.1	0.01	<i>not applicable</i>	<i>not applicable</i>

(1)	(2)	(3)	(4)	(5)	(6)	(7)
N°	Name of substance	CAS number	AA-EQS ²¹	AA-EQS ²¹	MAC-EQS ²²	MAC-EQS ²²
			Inland surface waters	Other surface waters	Inland surface waters	Other surface waters
(26)	Pentachlorobenzene	608-93-5	0.007	0.0007	<i>not applicable</i>	<i>not applicable</i>
(27)	Pentachlorophenol	87-86-5	0.4	0.4	1	1
(28)	Polyaromatic hydrocarbons (PAH) ²⁵	<i>not applicable</i>	<i>not applicable</i>	<i>not applicable</i>	<i>not applicable</i>	<i>not applicable</i>
	Benzo(a)pyrene	50-32-8	0.05	0.05	0.1	0.1
	Benzo(b)fluoranthene	205-99-2	Σ=0.03	Σ=0.03	<i>not applicable</i>	<i>not applicable</i>
	Benzo(k)fluoranthene	207-08-9				
	Benzo(g,h,i)perylene	191-24-2	Σ=0.002	Σ=0.002	<i>not applicable</i>	<i>not applicable</i>
	Indeno(1,2,3-cd)pyrene	193-39-5				
(29)	Simazine	122-34-9	1	1	4	4
(30)	Tributyltin compounds	688-73-3	0.0002	0.0002	0.0015	0.0015
(31)	Trichlorobenzenes (all isomers)	12002-48-1	0.4	0.4	<i>not applicable</i>	<i>not applicable</i>
(32)	Trichloromethane	67-66-3	2.5	2.5	<i>not applicable</i>	<i>not applicable</i>
(33)	Trifluralin	1582-09-8	0.03	0.03	<i>not applicable</i>	<i>not applicable</i>

²⁵ For the group of priority substances of polyaromatic hydrocarbons (PAH) (No. 28), each individual EQS shall be complied with, i.e., the EQS for Benzo(a)pyrene and the EQS for the sum of Benzo(b)fluoranthene and Benzo(k)fluoranthene and the EQS for the sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene must be met.

PART B: Environmental Quality Standards (EQS) for other Pollutants

AA: annual average;

MAC: maximum allowable concentration.

Unit: [$\mu\text{g/l}$].

(1)	(2)	(3)	(4)	(5)	(6)	(7)
N°	Name of substance	CAS number	AA-EQS ²¹ Inland surface waters	AA-EQS ²¹ Other surface waters	MAC-EQS ²² Inland surface waters	MAC-EQS ²² Other surface waters
(1)	DDT total ²⁶	<i>not applicable</i>	0.025	0.025	<i>not applicable</i>	<i>not applicable</i>
	para-para-DDT	50-29-3	0.01	0.01	<i>not applicable</i>	<i>not applicable</i>
(2)	Aldrin	309-00-2	$\Sigma=0.010$	$\Sigma=0.005$	<i>not applicable</i>	<i>not applicable</i>
(3)	Dieldrin	60-57-1				
(4)	Endrin	72-20-8				
(5)	Isodrin	465-73-6				
(6)	Carbontetrachloride	56-23-5	12	12	<i>not applicable</i>	<i>not applicable</i>
(7)	Tetrachloroethylene	127-18-4	10	10	<i>not applicable</i>	<i>not applicable</i>
(8)	Trichloroethylene	79-01-6	10	10	<i>not applicable</i>	<i>not applicable</i>

²⁶ DDT total comprises the sum of the isomers 1,1,1-trichloro-2,2 bis (*p*-chlorophenyl) ethane (CAS number 50-29-3); 1,1,1-trichloro-2 (*o*-chlorophenyl)-2-(*p*-chlorophenyl) ethane (CAS number 789-02-6); 1,1-dichloro-2,2 bis (*p*-chlorophenyl) ethylene (CAS number 72-55-9); and 1,1-dichloro-2,2 bis (*p*-chlorophenyl) ethane (CAS number 72-54-8).

PART C: Compliance with Environmental Quality Standards

1. Column 4 and 5: For any given surface water body, compliance with EQS-AA requires that for each representative monitoring point within the water body, the arithmetic mean of the concentrations measured at different times during the year is below the standard.
2. Column 6 and 7: For any given surface water body compliance with EQS-MAC means that the measured concentration at any representative monitoring point within the water body must not exceed the standard.
3. With the exception of cadmium, lead, mercury and nickel (hereinafter “metals”) the Environmental Quality Standards (EQS) set up in this Annex are expressed as total concentrations in the whole water sample. In the case of metals the EQS refers to the dissolved concentration, i.e. the dissolved phase of a water sample obtained by filtration through a 0.45 µm filter or any equivalent pre-treatment.

If natural background concentrations for metals are higher than the EQS value or if hardness, pH or other water quality parameters affect the bioavailability of metals, Member States may take this into account when assessing the monitoring results against the EQS. If they choose to do so, the use of calculation methods set up pursuant to Article 2(5) is compulsory.