

## Amendments and additions to the environmental quality standards Directive

Name of substance	CAS number	PhS	AA-EQS in µg/l	AA-EQS in µg/l	MAC-EQS in µg/l	MAC-EQS in µg/l	Biota EQS in µg/kg wet weight <sup>1)</sup>
			Watercourses and lakes	Transitional and costal waters	Watercourses and lakes	Transitional and coastal waters	Surface waters
<b>Heavy Metals, soluble concentration in µg/l</b>							
Lead (Pb) and lead compounds	7439-92-1		1.2	1.3	14	14	
Nickel (Ni) and nickel compounds	7440-02-0		4	8.6	34	34	
Mercury (Hg) and mercury compounds	7439-97-6	X			0.07	0.07	20
<b>Industrial pollutants</b>							
Anthracene	120-12-7	X	0.1	0.1	0.1	0.1	
Brominated diphenylether (BDEs)	32534-81-9	X			0.14	0.14	0.0085
<b>Dioxins</b>							<b>0.0065 µg/kg TEQ <sup>2)</sup></b>
Fluoranthene	206-44-0		0.0063	0.0063	0.12	0.12	30
<b>HBCDD</b>			0.0016	0.0008	0.5	0.05	167
Hexachlorobenzene (HCB)	118-74-1	X			0.05	0.05	10
Hexachlorobutadiene	87-68-3	X			0.6	0.6	55
Naphthalene	91-20-3		2	2	130	130	
<b>PFOS</b>	<b>1763-23-1</b>	<b>X</b>	<b>0.00065</b>	<b>0.00013</b>	<b>36</b>	<b>7.2</b>	<b>9.1</b>
Polycyclic aromatic hydrocarbons (PAH) <sup>3)</sup>	Not applicable	X	N.a.	N.a.	N.a.	N.a.	
Benzo(a)pyrene	50-32-8	X	0.00017	0.00017	0.27	0.27	5
Benzo(b)fluoranthene	205-99-2	X			0.017	0.017	
Benzo(k)fluoranthene	207-08-9	X			0.017	0.017	
Benzo(g,h,i)perylene	191-24-2	X			0.00082	0.00082	
Indeno(1,2,3-cd)pyrene	193-39-5	X			N.a.	N.a.	
<b>Pesticides</b>							
Aclonifen	74070-46-5		0.12	0.012	0.12	0.012	
Bifenox	42576-02-3		0.012	0.0012	0.04	0.004	
Cybutryne	28159-98-0		0.0025	0.0025	0.016	0.016	
Cypermethrin	52315-07-8		0.00008	0.000008	0.0006	0.00006	
Dichlorvos	62-73-7		0.0006	0.00006	0.0007	0.00007	
Dicofol	115-32-2	X	0.0013	0.000032	N.a.	N.a.	33
Heptachlor and heptachlor epoxide	76-44-8/ 1024-57-3		0.0000002	0.00000001	0.0003	0.00003	0.0067

<b>Quinoxyfen</b>	<b>124495-18-7</b>	<b>X</b>	<b>0.15</b>	<b>0.15</b>	<b>2.7</b>	<b>0.54</b>	
<b>Terbutryn</b>	<b>886-50-0</b>		<b>0.065</b>	<b>0.0065</b>	<b>0.34</b>	<b>0.034</b>	

N.a.: Not applicable; PhS: Priority hazardous substance; AA-EQS: Annual average EQS; MAC-EQS: maximum allowable concentration

Grey: environmental quality standard to be deleted

**Bold:** Substance to be included in the daughter directive "Environmental Quality Standard", and/or environmental quality standard has changed

<sup>1)</sup> Unless otherwise stated, the biota environmental quality standard refers to fish fauna. An alternative biota taxonomy or another matrix may be monitored instead of this, provided the environmental quality standard used offers an equivalent level of protection. For fluoranthene and PAH, the biota environmental quality standard refers to crustaceans and molluscs.

<sup>2)</sup> PCDD: Polychlorinated dibenzo-p-dioxins; PCDF: polychlorinated dibenzofurans; PCB-DL: dioxin-like polychlorinated biphenyls; TEQ: toxicity equivalent according to the WHO toxicity equivalence factors of 2005.

<sup>3)</sup> In the group of polycyclic aromatic hydrocarbons (PAH), the biota environmental quality standard and the corresponding annual average environmental quality standard in water refers to the concentration of benzo(a)pyrene, on whose toxicity this is based. Benzo(a)pyrene is considered a marker for the other PAHs; as such, only benzo(a)pyrene is to be monitored for comparison with the biota environmental quality standard and the corresponding annual average environmental quality standard in water.

Source: Federal Environment Agency in accordance with Directive 2013/39/EU