

Draft of annual average - environmental quality standard (AA-EQS) and predicted no effect concentration (PNEC) of active pharmaceutical ingredients; as at May 2020

Substance	CAS-Nr.	Draft of AA-EQS in µg/l	PNEC in µg/l	Source
Estrone (E1)	53-16-7		0.0036	Loos, R; Marinov, D; Sanseverino, I; Napierska, D; Lettieri, T (2018): Review of the 1st Watch List under the Water Framework Directive and recommendations for the 2nd Watch List, EUR 29173 EN, Publications Office of the European Union, Luxembourg, 2018, ISBN 978-92-79-81839-4, doi:10.2760/614367, JRC111198. Download under: https://ec.europa.eu/jrc/en/publication/review-1st-watch-list-under-water-framework-directive-and-recommendations-2nd-watch-list
17-beta-Estradiol (E2)	50-28-2		0.0004	
17-alpha-Ethinyl-estradiol (EE2)	57-63-6		0.000035	
Azithromycin	83905-01-5		0.019	
Clarithromycin	81103-11-9		0.12	
Erythromycin	114-07-8		0.2	
Ciprofloxacin	85721-33-1	0.1		Sahlin, S; Larsson, J; Ågerstrand, M (2018): ACES REPORT 15 Ciprofloxacin EQS data overview, https://www.aces.su.se/aces/wp-content/uploads/2018/11/Ciprofloxacin-EQS-data-overview-2018.pdf
Sulfamethoxazole	723-46-6	0.6		Nendza, M. (2014): EQS DATASHEET Environmental Quality Standard Sulfamethoxazol, https://webetox.uba.de/webETOX/public/basics/literatur.do?id=24270
Diclofenac	15307-86-5		0.05	Loos, R; Marinov, D; Sanseverino, I; Napierska, D; Lettieri, T (2018): Review of the 1st Watch List under the Water Framework Directive and recommendations for the 2nd Watch List, EUR 29173 EN, Publications Office of the European Union, Luxembourg, 2018, ISBN 978-92-79-81839-4, doi:10.2760/614367, JRC111198. Download under: https://ec.europa.eu/jrc/en/publication/review-1st-watch-list-under-water-framework-directive-and-recommendations-2nd-watch-list
Ibuprofen	15687-27-1	0.01		German Environment Agency UBA (2016): EQS Datasheet Environmental Quality Standard Ibuprofen DRAFT, https://webetox.uba.de/webETOX/public/basics/ziel.do?id=6144
Carbamazepine	298-46-4	0.5		Wenzel, A., Shemotyuk, L. (2014): UBA-Texte 47/2015, EQS DATASHEET Environmental Quality Standard Carbamazepine, https://webetox.uba.de/webETOX/public/basics/ziel.do?id=4698