

Changes to legislation: There are outstanding changes not yet made to Commission Implementing Decision (EU) 2018/840. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

ANNEX

Watch list of substances for Union-wide monitoring as set out in Article 8b of Directive 2008/105/EC

Name of substance/ group of substances	CAS number ^a	EU number ^b	Indicative analytical method ^{cd}	Maximum acceptable method detection limit (ng/l)
17-Alpha-ethinylestradiol (EE2)	57-63-6	200-342-2	Large-volume SPE - LC-MS-MS	0,035
17-Beta-estradiol (E2), Estrone (E1)	50-28-2, 53-16-7	200-023-8	SPE - LC-MS-MS	0,4
Macrolide antibiotics ^e			SPE - LC-MS-MS	19
Methiocarb	2032-65-7	217-991-2	SPE - LC-MS-MS or GC-MS	2
Neonicotinoids ^f			SPE - LC-MS-MS	8,3
Metaflumizone	139968-49-3	604-167-6	LLE - LC-MS-MS or SPE – LC-MS-MS	65
Amoxicillin	26787-78-0	248-003-8	SPE - LC-MS-MS	78
Ciprofloxacin	85721-33-1	617-751-0	SPE - LC-MS-MS	89

a Chemical Abstracts Service

b European Union number – not available for all substances

c To ensure comparability of results from different Member States, all substances shall be monitored in whole water samples.

d Extraction methods:

LLE — liquid liquid extraction
 SPE — solid-phase extraction

Analytical methods:

GC-MS — Gas chromatography-mass spectrometry
 LC-MS-MS — Liquid chromatography (tandem) triple quadrupole mass spectrometry

e Erythromycin (CAS number 114-07-8, EU number 204-040-1), Clarithromycin (CAS number 81103-11-9), Azithromycin (CAS number 83905-01-5, EU number 617-500-5)

f Imidacloprid (CAS number 105827-78-9/ 138261-41-3, EU number 428-040-8), Thiacloprid (CAS number 111988-49-9), Thiamethoxam (CAS number 153719-23-4, EU number 428-650-4), Clothianidin (CAS number 210880-92-5, EU number 433-460-1), Acetamiprid (CAS number 135410-20-7/160430-64-8)

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Changes and effects yet to be applied to :

- Annex heading word omitted by [S.I. 2019/558 reg. 26\(c\)](#)