

## ANNEX III

## SPECIFICATIONS FOR THE ANALYSIS OF PARAMETERS

[<sup>F1</sup>PART B**Chemical and indicator parameters for which performance characteristics are specified]****[<sup>F1</sup>1. Chemical and indicator parameters**

For the parameters set out in Table 1, the specified performance characteristics are that the method of analysis used must, as a minimum, be capable of measuring concentrations equal to the parametric value with a limit of quantification, as defined in Article 2(2) of Commission Directive 2009/90/EC<sup>(1)</sup>, of 30 % or less of the relevant parametric value and an uncertainty of measurement as specified in Table 1. The result shall be expressed using at least the same number of significant figures as for the parametric value considered in Parts B and C of Annex I.

Until 31 December 2019 Member States may allow for the use of ‘trueness’, ‘precision’ and ‘limit of detection’ as specified in Table 2, as an alternative set of performance characteristics to ‘limit of quantification’ and ‘uncertainty of measurement’ as specified respectively in the first paragraph and Table 1.

The uncertainty of measurement laid down in Table 1 shall not be used as an additional tolerance to the parametric values set out in Annex I.

TABLE 1

**Minimum performance characteristic ‘Uncertainty of measurement’**

<b>Parameters</b>	<b>Uncertainty of measurement(See Note 1)% of the parametric value (except for pH)</b>	<b>Notes</b>
Aluminium	25	
Ammonium	40	
Antimony	40	
Arsenic	30	
Benzo(a)pyrene	50	See Note 5
Benzene	40	
Boron	25	
Bromate	40	
Cadmium	25	
Chloride	15	
Chromium	30	
Conductivity	20	

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Acrylamide, epichlorohydrin and vinyl chloride to be controlled by product specification.

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Copper	25	
Cyanide	30	See Note 6
1,2-dichloroethane	40	
Fluoride	20	
Hydrogen ion concentration pH (expressed in pH units)	0,2	See Note 7
Iron	30	
Lead	25	
Manganese	30	
Mercury	30	
Nickel	25	
Nitrate	15	
Nitrite	20	
Oxidisability	50	See Note 8
Pesticides	30	See Note 9
Polycyclic aromatic hydrocarbons	50	See Note 10
Selenium	40	
Sodium	15	
Sulphate	15	
Tetrachloroethene	30	See Note 11
Trichloroethene	40	See Note 11
Trihalomethanes — total	40	See Note 10
Total organic carbon (TOC)	30	See Note 12
Turbidity	30	See Note 13

Acrylamide, epichlorohydrin and vinyl chloride to be controlled by product specification.

TABLE 2

**Minimum performance characteristics ‘Trueness’, ‘precision’ and ‘limit of detection’ — may be used until 31 December 2019**

Parameters	Trueness(See Note 2)% of the parametric value (except for pH)	Precision(See Note 3)% of the parametric value (except for pH)	Limit of detection(See Note 4)% of the parametric value (except for pH)	Notes
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Aluminium	10	10	10	
Ammonium	10	10	10	
Antimony	25	25	25	
Arsenic	10	10	10	
Benzo(a)pyrene	25	25	25	
Benzene	25	25	25	
Boron	10	10	10	
Bromate	25	25	25	
Cadmium	10	10	10	
Chloride	10	10	10	
Chromium	10	10	10	
Conductivity	10	10	10	
Copper	10	10	10	
Cyanide	10	10	10	See Note 6
1,2-dichloroethane	25	25	10	
Fluoride	10	10	10	
Hydrogen ion concentration pH (expressed in pH units)	0,2	0,2		See Note 7
Iron	10	10	10	
Lead	10	10	10	
Manganese	10	10	10	
Mercury	20	10	20	
Nickel	10	10	10	
Nitrate	10	10	10	
Nitrite	10	10	10	
Oxidisability	25	25	10	See Note 8
Pesticides	25	25	25	See Note 9
Polycyclic aromatic hydrocarbons	25	25	25	See Note 10
Selenium	10	10	10	
Sodium	10	10	10	

Acrylamide, epichlorohydrin and vinyl chloride to be controlled by product specification.]

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Sulphate	10	10	10	
Tetrachloroethene	25	25	10	See Note 11
Trichloroethene	25	25	10	See Note 11
Trihalomethanes total	25	25	10	See Note 10
Turbidity	25	25	25	

Acrylamide, epichlorohydrin and vinyl chloride to be controlled by product specification.]

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#### Textual Amendments

- F1** Substituted by [Commission Directive \(EU\) 2015/1787 of 6 October 2015 amending Annexes II and III to Council Directive 98/83/EC on the quality of water intended for human consumption.](#)

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- (1) [<sup>F1</sup>Commission Directive 2009/90/EC of 31 July 2009 laying down, pursuant to Directive 2000/60/EC of the European Parliament and of the Council, technical specifications for chemical analysis and monitoring of water status (OJ L 201, 1.8.2009, p. 36).]

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