

ANNEX V

Reference methods for assessment of concentrations in ambient air and deposition rates [^{F1}I. **Reference method for the sampling and analysis of arsenic, cadmium and nickel in ambient air**

The reference method for the sampling of arsenic, cadmium and nickel in ambient air is described in EN 12341:2014. The reference method for the measurement of arsenic, cadmium and nickel in ambient air is that described in EN 14902:2005 ‘Ambient air quality — Standard method for the measurement of Pb, Cd, As and Ni in the PM10 fraction of suspended particulate matter’.

A Member State may also use any other methods which it can demonstrate give results equivalent to the above method.

II. **Reference method for the sampling and analysis of polycyclic aromatic hydrocarbons in ambient air**

The reference method for the sampling of polycyclic aromatic hydrocarbons in ambient air is described in EN 12341:2014. The reference method for the measurement of benzo(a)pyrene in ambient air is that described in EN 15549:2008 ‘Air quality — Standard method for the measurement of concentration of benzo[a]pyrene in ambient air’. In the absence of a CEN standard method for the other polycyclic aromatic hydrocarbons referred to in Article 4(8), Member States are allowed to use national standards methods or ISO methods such as ISO standard 12884.

A Member State may also use any other method which it can demonstrate give results equivalent to the above method.

III. **Reference method for the sampling and analysis of mercury in ambient air**

The reference method for the measurement of total gaseous mercury concentrations in ambient air is that described in EN 15852:2010 ‘Ambient air quality — Standard method for the determination of total gaseous mercury’.

A Member State may also use any other method which it can demonstrate give results equivalent to the above method.

IV. **Reference method for the sampling and analysis of the deposition of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons**

The reference method for the determination of the deposition of arsenic, cadmium, and nickel is that described in EN 15841:2009 ‘Ambient air quality — Standard method for determination of arsenic, cadmium, lead and nickel in atmospheric deposition’.

The reference method for the determination of the deposition of mercury is that described in EN 15853:2010 ‘Ambient air quality — Standard method for determination of mercury deposition’.

The reference method for the determination of the deposition of benzo(a)pyrene and the other polycyclic hydrocarbons referred to in Article 4(8) is that described in EN 15980:2011 ‘Air quality. Determination of the deposition of benz[a]anthracene, benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, dibenz[a,h]anthracene and indeno[1,2,3-cd]pyrene’.

[^{F2}V. Reference air quality modelling techniques

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

Reference air quality modelling techniques cannot be specified at present. The Commission may make amendments to adapt this point to scientific and technical progress. Those measures, designed to amend non-essential elements of this Directive, shall be adopted in accordance with the regulatory procedure with scrutiny referred to in Article 6(3).]

Textual Amendments

- F2** Substituted by [Regulation \(EC\) No 219/2009 of the European Parliament and of the Council of 11 March 2009](#) adapting a number of instruments subject to the procedure referred to in Article 251 of the Treaty to Council Decision 1999/468/EC with regard to the regulatory procedure with scrutiny Adaptation to the regulatory procedure with scrutiny — Part Two.