

SCHEDULE 9

Regulation 16(3)(a)

Reference methods

PART 1

Group A pollutants

	<i>Reference method</i>
Sampling and measurement of benzene	EN 14662: 2005, Parts 1, 2 and 3 ‘Ambient air quality - Standard method for measurement of benzene concentrations’
Analysis of carbon monoxide	EN 14626: 2005 ‘Ambient air quality – Standard method for the measurement of the concentration of carbon monoxide by nondispersive infrared spectroscopy’
Sampling of lead	The same reference method as for PM ₁₀
Analysis of lead	ISO 9855: 1993 Ambient air — Determination of the particulate lead content of aerosols collected in filters. Atomic absorption spectroscopy method
Analysis of nitrogen dioxide and oxides of nitrogen	ISO 7996: 1985 Ambient air — determination of the mass concentrations of nitrogen oxides — chemiluminescence method
Sampling and measurement of PM ₁₀	EN 12341: 1998 “Air Quality — Field Test Procedure to Demonstrate Reference Equivalence of Sampling Methods for the PM ₁₀ fraction of particulate matter” . The measurement principle is based on the collection on a filter of the PM ₁₀ fraction of ambient particulate matter and the gravimetric mass determination
Analysis of sulphur dioxide	ISO/FDIS 10498 (Standard in draft) Ambient air — determination of sulphur dioxide — ultraviolet fluorescence method

PART 2

Group B pollutants in ambient air

	<i>Reference method</i>
Sampling of Group B pollutants other than benzo(a)pyrene	The same method as for sampling and measurement of PM ₁₀
Analysis of Group B pollutants other than benzo(a)pyrene	EN 14902: 2005 ‘Ambient air quality – Standard method for the measurement of Pb, Cd, As and

Status: This is the original version (as it was originally made).

	<i>Reference method</i>
	NI in the PM ₁₀ fraction of suspended particulate matter'
Benzo(a)pyrene concentrations	A method based on manual PM ₁₀ sampling equivalent to EN 12341

PART 3

Ozone

	<i>Reference method</i>
Measurement of ozone	EN 14625: 2005 'Ambient air quality – Standard method for the measurement of the concentration of ozone by ultraviolet photometry'

PART 4

Other reference methods

	<i>Reference method</i>
Sampling and analysis of polycyclic aromatic hydrocarbons in ambient air	A method based on manual PM ₁₀ sampling equivalent to EN 12341
Sampling and analysis of mercury in ambient air	An automated method based on Atomic Absorption Spectrometry or Atomic Fluorescence Spectrometry
Sampling and analysis of the deposition of Group B pollutants, mercury, and polycyclic aromatic hydrocarbons	A method based on the exposition of cylindrical deposit gauges with standardised dimensions