

SCHEDULE 9

Regulation 16(3)(a) Regulation 19(6)
Regulation 20(4)

Reference methods

PART 1

Group A pollutants

| | <i>Reference method</i> |
|---|---|
| Sampling and analysis of benzene | A pumped sampling method on a sorbent cartridge followed by gas chromatographic determination |
| Analysis of carbon monoxide | A non-dispersive infra-red spectrometric (NDIR) method |
| 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 | The reference method for the sampling and measurement of PM ₁₀ is that described in EN 12341 “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> |
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| Sampling and analysis of Group B pollutants other than benzo(a)pyrene in ambient air | A method based on manual PM ₁₀ sampling equivalent to EN 12341, followed by digestion of the samples and analysis by Atomic Absorption Spectrometry or ICP Mass Spectrometry |

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

| | <i>Reference method</i> |
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| Benzo(a)pyrene concentrations in ambient air | A method based on manual PM ₁₀ sampling equivalent to EN 12341 |

PART 3

Ozone

| | <i>Reference method</i> |
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| Analysis of ozone | UV photometric method (ISO FDIS 13964 or equivalent) |
| Calibration of ozone instruments | The Reference UV photometer method (ISO FDIS 13964, VDI 2468, B1.6 or equivalent) |

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 |