

## SCHEDULE 10

Regulation 18

## Ozone precursor substances

**Objectives**

1. The main objectives of measurements of ozone precursor substances are to analyse any trend in ozone precursors, to check the efficiency of emission reduction strategies, to check the consistency of emission inventories and to help attribute emission sources to pollution concentration.

2. An additional aim is to support the understanding of ozone formation and precursor dispersion processes, as well as the application of photochemical models.

**Substances**

3. Measurements of ozone precursor substances must include at least nitrogen oxides, and appropriate volatile organic compounds. For the purposes of this Schedule, “volatile organic compounds” means all organic compounds from anthropogenic and biogenic sources, other than methane, that are capable of producing photochemical oxidants by reaction with nitrogen oxides in the presence of sunlight.

4. A list of volatile organic compounds recommended for measurement by Directive [2002/3/EC\(1\)](#) is given in the table below—

Ethane	1-Butene	Isoprene	Ethyl benzene
Ethylene	trans-2-Butene	n-Hexane	m+p-Xylene
Acetylene	cis-2-Butene	i-Hexane	o-Xylene
Propane	1.3-Butadiene	n-Heptane	1,2,4-Trimeth. Benzene
Propene	n-Pentane	n-Octane	1,2,3-Trimeth. Benzene
n-Butane	i-Pentane	i-Octane	1,3,5-Trimeth. Benzene
i-Butane	1-Pentene	Benzene	Formaldehyde
	2-Pentene	Toluene	Total non-methane hydrocarbons

**Reference methods**

5. The reference method for the analysis of oxides of nitrogen is ISO 7996:1985, Ambient air — determination of the mass concentrations of nitrogen oxides — chemiluminescence method.

**Monitoring sites**

6. Measurements should be taken in particular in urban and suburban areas at any monitoring site considered appropriate with regard to the monitoring objectives in this Schedule.

(1) A full reference for this Directive is given at regulation 2(2)(d).

**Status:** This is the original version (as it was originally made).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