

## Information on arsenic in PM<sub>10</sub>

### 1 Target value

Table 1

	Averaging period	Target value	To be met since
Target value for the protection of human health	Calendar year	6 ng/m <sup>3</sup>	1 January 2013

The sampling volume refers to ambient conditions.

### 2 Upper and lower assessment thresholds

Table 2

	Annual mean
Upper assessment threshold	3.6 ng/m <sup>3</sup>
Lower assessment threshold	2.4 ng/m <sup>3</sup>

### 3 Data quality objectives

Table 3

Data collection	Data quality objective
Fixed measurements	
Uncertainty	40 %
Minimum data capture	90 %
Minimum time coverage	50 % evenly distributed over the year
Indicative measurements	
Uncertainty	40 %
Minimum data capture	90 %
Minimum time coverage	14 % evenly distributed over the year
Modelling	
Uncertainty	60 %
Objective estimation	
Uncertainty	100 %

### 4 Reference method for the sampling/analysis of arsenic in PM10

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.

### 5 Legal basis

- DIRECTIVE 2004/107/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air
- COMMISSION DIRECTIVE (EU) 2015/1480 of 28 August 2015 amending several annexes to Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council laying down the rules concerning reference methods, data validation and location of sampling points for the assessment of ambient air quality
- 39th Ordinance Implementing the Federal Immission Control Act (Ordinance on Air Quality Standards and Emission Ceilings - 39. BImSchV)