

2009 – Limit values and margins of tolerance, upper and lower assessment thresholds, target air pollution limit values and long-term air pollution targets according to the Government Order No. 597/2006 Coll.

for the protection of health

Air pollution limit values

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g.m}^{-3}$]		Limit value [$\mu\text{g.m}^{-3}$] LV	Margin of tolerance (for 2009) [$\mu\text{g.m}^{-3}$] MT	Date for achieving LV
		Lower LAT	Upper UAT			
SO ₂	1 hour	—	—	350 max. 24x/year	—	—
	24 hours	50 max. 3x/year	75 max. 3x/year	125 max. 3x/year	—	—
PM ₁₀	24 hours	20 max. 7x/year	30 max. 7x/year	50 max. 35x/year	—	—
	calendar year	10	14	40	—	—
NO ₂	1 hour	100 max. 18x/year	140 max. 18x/year	200 max. 18x/year	10	31.12.2009
	calendar year	26	32	40	2	31.12.2009
Pb	calendar year	0.25	0.35	0.5	—	—
CO	max. daily 8-h running average	5 000	7 000	10 000	—	—
Benzene	calendar year	2	3.5	5	1	31.12.2009

The PM_{2.5} limit value set by the Directive of the European Parliament and of the Council No. **2008/50/EC** of 21 May 2008 on ambient air quality and cleaner air for Europe (published in the EU Official Journal on 11 June 2008) is **25 $\mu\text{g.m}^{-3}$** .

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g.m}^{-3}$]		Limit value [$\mu\text{g.m}^{-3}$] LV	Margin of tolerance [$\mu\text{g.m}^{-3}$] MT	Date for achieving LV
		Lower LAT	Upper UAT			
PM _{2.5}	STAGE 1 calendar year	12	17	25	20 % on 11 June 2008, decreasing on the next 1 January and every 12 months thereafter by equal annual percentages to reach 0 % by 1 January 2015	1.1.2015
	STAGE calendar year			20	—	1. 1. 2020

Target air pollution limit values and long-term air pollution targets

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g}\cdot\text{m}^{-3}$]		Target value [$\mu\text{g}\cdot\text{m}^{-3}$] TV	Date for achieving TV	Long-term objective
		Lower LAT	Upper UAT			
O₃	max. daily 8-h running average	—	—	120, 25x in 3-year average	31.12.2009	120
Cd	calendar year	0.002	0.003	0.005	31.12.2012	—
As	calendar year	0.0024	0.0036	0.006	31.12.2012	—
Ni	calendar year	0.010	0.014	0.020	31.12.2012	—
benzo(a)pyrene	calendar year	0.0004	0.0006	0.001	31.12.2012	—
PM_{2,5}	calendar year	—	—	25	1.1.2010	—

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Pollutant	Averaging interval	Assessment threshold [$\mu\text{g}\cdot\text{m}^{-3}$]		Air pollution limit value [$\mu\text{g}\cdot\text{m}^{-3}$] LV	Date for achieving LV
		Lower LAT	Upper UAT		
SO₂	year and winter period (1.10.-31.3.)	8	12	20	—
NO_x	calendar year	19.5	24	30	—

Pollutant	Averaging interval	Long-term air pollution target [$\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$]	Target air pollution limit value with effect from 31.12.2009 [$\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$]
O₃	AOT40, calculated from 1h values between May and July	6 000	18 000 average for 5 years

Note:

AOT40 is the sum of differences between the hourly concentration higher than $80 \mu\text{g}\cdot\text{m}^{-3}$ (= 40 ppb) and the value $80 \mu\text{g}\cdot\text{m}^{-3}$ in the given period by using only hourly values measured every day between 8:00 and 20:00 CET.