

Limit values and margins of tolerance, upper and lower assessment thresholds, target values and long-term objectives according to the Government Order No. 597/2006 Coll., as amended by later regulations, for 2010

for the protection of human health

Limit values LV

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g}\cdot\text{m}^{-3}$]		Limit value [$\mu\text{g}\cdot\text{m}^{-3}$] LV	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. 7/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	—
	calendar year	26	32	40	—
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	—

Target values (TV) and long-term objectives

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g}\cdot\text{m}^{-3}$]		Target value (TV) [$\mu\text{g}\cdot\text{m}^{-3}$]	Date for achieving TV	Long-term objective [$\mu\text{g}\cdot\text{m}^{-3}$]
		Lower LAT	Upper UAT			
O₃	max. daily 8-h running average	—	—	120, 25x in 3-year average	—	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	—
BaP	calendar year	0.0004	0.0006	0.001	31.12.2012	—
PM_{2.5}	calendar year	12	17	25	31.12.2014	—

for the protection of ecosystems and vegetation

Pollutant	Averaging interval	Assessment threshold [$\mu\text{g}\cdot\text{m}^{-3}$]		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 objective [$\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$]	Target 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.