

Limit values and margins of tolerance, upper and lower assessment thresholds, target values and long-term objectives according to Clean Air Act No. 201/2012 Coll. and Decree No. 330/2012 Coll., on the method of assessment and evaluation of ambient air pollution level, on the extent of informing the public on the level of ambient air pollution and during smog situations, for 2012

#### for the protection of human health

Pollutant	Averaging interval	Assessment threshold [ $\mu\text{g}\cdot\text{m}^{-3}$ ]		Limit value [ $\mu\text{g}\cdot\text{m}^{-3}$ ] LV
		Lower LAT	Upper UAT	
SO <sub>2</sub>	1 hour	—	—	350 max. 24x/year
	24 hours	50 max. 3x/year	75 max. 3x/year	125 max. 3x/year
NO <sub>2</sub>	1 hour	100 max. 18x/year	140 max. 18x/year	200 max. 18x/year
	calendar year	26	32	40
CO	max. daily 8-h running average	5 000	7 000	10 000
benzene	calendar year	2	3.5	5
PM <sub>10</sub>	24 hours	25 max. 35/year	35 max. 35x/year	50 max. 35x/year
	calendar year	20	28	40
PM <sub>2,5</sub>	calendar year	12	17	25
Pb	calendar year	0.25	0.35	0.5
As	calendar year	0.0024	0.0036	0.006
Cd	calendar year	0.002	0.003	0.005
Ni	calendar year	0.010	0.014	0.020
benzo(a)pyrene	calendar year	0.0004	0.0006	0.001
O <sub>3</sub>	max. daily 8-h running average	—	—	120, 25x in 3-year average

#### 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
		Lower LAT	Upper UAT	
SO <sub>2</sub>	year and winter period (1.10.-31.3.)	8	12	20
NO <sub>x</sub>	calendar year	19.5	24	30

Pollutant	Averaging interval	Limit value [ $\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$ ] LV
O <sub>3</sub>	AOT40, calculated from 1h values between May and July	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.

**Long-term objectives**

<b>Pollutant</b>	<b>Application</b>	<b>Averaging interval</b>	<b>Long-term objective</b> [ $\mu\text{g.m}^{-3}$ ]
<b>O<sub>3</sub></b>	for the protection of human health	max. daily 8-h running average	<b>120</b>

<b>Pollutant</b>	<b>Application</b>	<b>Averaging interval</b>	<b>Long-term objective</b> [ $\mu\text{g.m}^{-3}.\text{h}$ ]
<b>O<sub>3</sub></b>	for the protection of ecosystems and vegetation	AOT40, calculated from 1h values between May and July	<b>6 000</b>