

**Limit values and permitted number of exceedances, upper and lower assessment thresholds** 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 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	—	—	<b>350</b> max. 24x/year
	24 hours	<b>50</b> max. 3x/year	<b>75</b> max. 3x/year	<b>125</b> max. 3x/year
NO <sub>2</sub>	1 hour	<b>100</b> max. 18x/year	<b>140</b> max. 18x/year	<b>200</b> max. 18x/year
	calendar year	<b>26</b>	<b>32</b>	<b>40</b>
CO	max. daily 8-h running average	<b>5 000</b>	<b>7 000</b>	<b>10 000</b>
benzene	calendar year	<b>2</b>	<b>3.5</b>	<b>5</b>
PM <sub>10</sub>	24 hours	<b>25</b> max. 35/year	<b>35</b> max. 35x/year	<b>50</b> max. 35x/year
	calendar year	<b>20</b>	<b>28</b>	<b>40</b>
PM <sub>2,5</sub>	calendar year	<b>12</b>	<b>17</b>	<b>25</b>
Pb	calendar year	<b>0.25</b>	<b>0.35</b>	<b>0.5</b>
As	calendar year	<b>0.0024</b>	<b>0.0036</b>	<b>0.006</b>
Cd	calendar year	<b>0.002</b>	<b>0.003</b>	<b>0.005</b>
Ni	calendar year	<b>0.010</b>	<b>0.014</b>	<b>0.020</b>
benzo[a]pyrene	calendar year	<b>0.0004</b>	<b>0.0006</b>	<b>0.001</b>
O <sub>3</sub>	max. daily 8-h running average	—	—	<b>120,</b> 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.)	<b>8</b>	<b>12</b>	<b>20</b>
NO <sub>x</sub>	calendar year	<b>19.5</b>	<b>24</b>	<b>30</b>

Pollutant	Averaging interval	Assessment threshold [ $\mu\text{g}\cdot\text{m}^{-3}$ ]		Limit value [ $\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$ ] LV
		Lower LAT	Upper UAT	
O <sub>3</sub>	AOT40, calculated from 1h values between May and July	—	—	<b>18 000</b> 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>Limit value</b> [ $\mu\text{g}\cdot\text{m}^{-3}$ ]
<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>Limit value</b> [ $\mu\text{g}\cdot\text{m}^{-3}\cdot\text{h}$ ]
<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>