

Air Standards

Ambient Air Standards		
Pollutants	average	Standard
1. Carbonmonoxide (CO)	1 hr	Not exceed 30 ppm. (34.2 mg/m ³)
	8 hr	Not exceed 9 ppm. (10.26 mg/m ³)
2. Nitrogen Dioxide (NO ₂)	1 hr	Not exceed 0.17 ppm. (0.32 mg/m ³)
3. Ozone (O ₃)	1 hr	Not Exceed 0.10 ppm. (0.20 mg/m ³)
	8 hr	Not Exceed 0.07 ppm. (0.14 mg/m ³)
4. Sulfur Dioxide ^a (SO ₂)	1 year	Not exceed 0.04 ppm. (0.10 mg/m ³)
	24 hr	Not exceed 0.12 ppm.(0.30 mg/m ³)
	1 hr	Not exceed 0.3 ppm.(780 µg/m ³)
5. Lead (Pb)	1 month	Not exceed 1.5 µg/m ³
6. Particulate Matter (< 10 µ)(PM - 10)	24 hr	Not exceed 0.12 mg/m ³
	1 year	Not exceed 0.05 mg/m ³
7. Particulate Matter (< 100 µ)	24 hr	Not exceed 0.33 mg/m ³
	1 year	Not exceed 0.10 mg/m ³

- Remark : 1. Short term average standard (1, 8 and 24 hrs.)is to prevent acute effect on for human health
2. Long term average standard (1 month and 1 year) is to prevent long term or chronic effect on human health
- ^a 1- hr SO₂ Standard
- 1.3 milligram/cubic meter for Mae Moh area
 - 0.78 milligram/cubic meter, for elsewhere

- Source : 1. [Notification of National Environmental Board No. 10 , B.E 2538 \(1995\)](#) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No. 112 Part 52 dated May 25, B.E.2538 (1995)
2. [Notification of National Environmental Board No. 24, B.E. 2547 \(2004\)](#) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No. 121 Special Part 104 D dated September 22, B.E.2547 (2004)
3. [Notification of National Environmental Board No. 28 , B.E 2550 \(2007\)](#) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No. 124 Part 58 dated May 14, B.E.2550 (2007)

Sulfur Dioxide in Ambient Air Standards of Thailand

Pollutant	Concentration/time/area	Standard value
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Sulfur Dioxide (SO ₂)	1 hr./area	Not exceed 0.30 ppm (780 µg/m ³)
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Source : [Notification of National Environmental Board No. 12 \(1995\) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 \(1992\)](#) published in the Royal Government Gazette No. 112 Special Part 27 D dated July 13, B.E.2538 (1995) and [Notification of National Environmental Board No. 21 \(2001\) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 \(1992\)](#) published in the Royal Government Gazette No. 118 Special Part 39D dated April 30, B.E.2544 (2001)

Volatile Organic Compounds (VOCs) in Ambient Air Standards of Thailand	
Pollutants	Standard
1. Benzene	Not exceed 1.7 µg/m ³
2. Vinyl Chloride	Not exceed 10 µg/m ³
3. 1,2 - Dichloroethane	Not exceed 0.4 µg/m ³
4. Trichloroethylene	Not exceed 23 µg/m ³
5. Dichloromethane	Not exceed 22 µg/m ³
6. 1,2 - Dichloropropane	Not exceed 4 µg/m ³
7. Tetrachloroethylene	Not exceed 200 µg/m ³
8. Chloroform	Not exceed 0.43 µg/m ³
9. 1,3 - Butadiene	Not exceed 0.33 µg/m ³

- Remark : 1. One year Volatile Organic Compounds (VOCs) in Ambient Air is determined from the Arithmetic Mean of VOCs analysis from continuously 24 hour ambient air sampling (at least once a month)
2. In case of the collected ambient air sample(s) was unable to be analysed, the new sampling and analysis must be done within 30 days from the previous sampling date.
3. Reference Condition is 25 degree Celsius at 1 atm or 760 mmHg

Source : 1. [Notification of National Environmental Board No. 30 , B.E 2550 \(2007\)](#) under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992), published in the Royal Government Gazette No. 124 Part 143 dated September 14, B.E.2550 (2007)