

Standards for Air Pollutant Emission from Stationary Pollution Sources

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Article 1 and Table under Article 2 amended and published by Environmental Protection Administration of Executive Yuan by order (1999) Huan-Shu-Kong-Zi No. 0039205 dated June 30, 1999

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Articles 2 Table 1 amended and published by Environmental Protection Administration of Executive Yuan by order Huan-Shu-Kong-Zi No. 1020032301 dated April 25, 2012

Articles 3, 5, 8 and Table under Article 2 amended and published by Environmental Protection Administration of Executive Yuan by order Huan-Shu-Kong-Zi No. 1101079351 dated Jun 29, 2021

Articles 2, 3 amended and published by Environmental Protection Administration of Executive Yuan by order Huan-Shu-Kong-Zi No. 1121064054D dated Jun 14, 2023

- Article 1 These Standards are established pursuant to Article 20, Paragraph 2 of the Air Pollution Control Act.
- Article 2 These Standards shall apply to new, modified, and existing stationary pollution sources (herein referred to as new pollution sources and existing pollution sources). The standards are listed in the Table. However, separately established emission standards for specially designated industry categories, areas, or facilities shall take priority over these Standards.
- Article 3 Terms and Symbols used in these Standards are defined as follows:
- I. “Peripheral boundary” means the boundary line marking the use or management of public or private premises.
 - II. “mg” means milligram, equivalent to 0.001 grams.
 - III. “µg” means microgram, equivalent to 0.001 milligrams.
 - IV. “K” means Kelvin absolute temperature scale, where $K=273+^{\circ}C$.

- V. “Nm³” means a cubic meter of air at a temperature of 273 degrees Kelvin (273 K) and an atmospheric pressure of 1 bar ; “m³” means a cubic meter of air.
- VI. “ppm” means parts per million.
- VII. “q” means the “highest permissible emissions per unit time” of each pollutant from each stack unit in a single pollution source, measured in grams per second (g/s).
- VIII. “a₁” and “a₂” mean the conversion constants for each pollutant.
- IX. “k” means the diffusion coefficient for pollutant emissions, measured in grams per second per square meter (g/s•m²).
- X. “h” means the actual height of the outlet of the stack, measured in meters (m).
- XI. “△h” means the height of smoke plume from the outlet of the stack, measured in meters (m).
- XII. “he” means the effective height of outlet of stack $he=h+\Delta h$, measured in meters (m).
- XIII. “Qh” means the heat rate of exhaust from the stack, measured in calories per second (cal/s).
- XIV. “Vs” means the outlet exhaust speed of the stack, measured in meters per second (m/s).
- XV. “ds” means the internal diameter at the stackoutlet, measured in meters per second (m).
- XVI. “ρ” means exhaust density, measured in grams per liter (g/l).
- XVII. “Cp” means specific heat at constant pressure from exhaust, measured in calories per gram degree Kelvin (cal/g•K).
- XVIII. “Ts” means exhaust temperature at the stack outlet, measured in Kelvin (K).
- XIX. “T” means ambient temperature surrounding the stack outlet, measured in degrees Kelvin (K).

- XX. “ \bar{u} ” means annual average wind speed at the height of the stack outlet, measured in meters per second (m/s).

$$\bar{u} = \bar{u}_0(h/10)^{0.2}$$
- XXI. “ \bar{u}_0 ” means average wind speeds at 10 meters high from the ground surface, measured in meters per second (m/s). These standards are based on an average wind speed of 3.5 meters per second (m/s) as the reference base of calculation.
- XXII. “Q” means exhaust volume that has been calibrated or does not need to be calibrated, measured in cubic meters per minute (Nm³/min).
- XXIII. “Qs” means the measured exhaust volume base on test method, measured in cubic meters per minute (Nm³/min).
- XXIV. “C” means pollutant concentration that has been calibrated or does not need to be calibrated, measured in ppm or mg/Nm³.
- XXV. “Cs” means the measured pollutant concentration based on test method, measured in ppm or mg/Nm³.
- XXVI. “On” means standard oxygen content in exhaust, measured in %.
- XXVII. “Os” means the actual measured oxygen content in exhaust. If value exceeds 20%, then value shall be calculated as 20%.
- XXVIII. “Determination the opacity of the plume by digital image“ means that the inspector determinate the opacity of exhaust from the stack outlet of stationary pollution sources by using digital image recording equipment and identification software in accordance with methods designated by the central competent authority.

Article 4 Unless other regulations apply, the principles for existing and new pollution sources referred to in these Standards are as follows:

- I. Pollution sources established before April 11, 1992, shall be considered existing pollution sources.

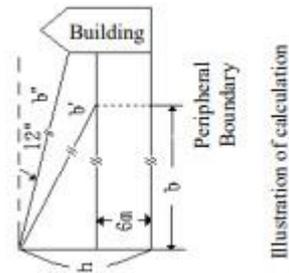
- II. Pollution sources established after April 12, 1992, shall be considered new pollution sources.
- III. New pollution sources shall also include, after April 12, 1992, increased air pollutant emissions due to the renovation of related facilities or alterations in other single physical or chemical properties or operation methods, and newly 2690/added pollutants in emissions.

“Established,” as referred to in subparagraphs I and II in this article, means a stationary source that has already been completed, under construction, or has already completed the contract of a construction project.

Article 5 Peripheral boundary testing is a measurement that can determine whether the air pollutants are emitted from a public or private premise at any location outside of the surrounding area of a public or private premise. When it is not possible to select a testing location for an area outside the peripheral boundary of a public or private premise (for example, due to the presence of an embankment, river, lake, or valley), then an appropriate testing location can be chosen within three meters inside the surrounding boundaries of the factory. When the owner or representative of a public or private premise pollution source holds objections to the determination of a peripheral boundary, the said person shall, within 30 days from the second day of being reported, submit written information to the local competent authority to apply for the redetermination of a peripheral boundary.

Article 6 In principle, sampling collection times for peripheral boundary testing shall be one hour for particulate matter. For gas pollutants, sampling collection shall be one hour for sulfur oxides, and 30 minutes for the remaining listed gas pollutants. However, if the sampling method used has a specified sampling time for the air pollutant, then the time specified in the method shall be used.

Article 7 When gas pollutants do not list the emission standards for stacks, the emission standards shall be calculated in accordance with the following equations:



I. Low-height stack, $h \leq 6m$ (meters).

$$q = a_2 \cdot b^2$$

b : the minimum horizontal distance from the stack outlet of the pollution source to the peripheral boundary of the pollution source, in units of m (meters).

II. When a taller emissions pipe is $h > 6m$

A. $b \geq 5 (h-6)$

$$q = a_2 \cdot b'^2$$

b' : the minimum distance from the stack outlet of the pollution source to the peripheral boundary line of the pollution source at a vertical height of 6m (meters), in units of m (meters).

B. $b < 5 (h-6)$

$$q = a_2 \cdot b''^2$$

b'' : The minimum distance from the center of the stack outlet to the building when the conical area of a pollution source measured at a downward 12 degree angle from the center of a stack outlet intersects with the buildings of other people (with the exception of unoccupied storage warehouse buildings), in units of m (meters).

C. When $b < 5 (h-6)$ and there is no conditions of subparagraph II. B, which means that when the distance from the pollution source to a building is very far or a building is lower than 6 m

(meters), the conical area of a pollution source measured at a downward 12 degree angle from the center of a stack outlet does not intersect with the buildings of other people.

$$q = a_2 \cdot 25 \cdot (h-6)^2$$

Article 8 For the air pollutant that is listed in the emission standard table with the stack emission standards, the height of the stack should be calculated by the following equation for a new pollution source.

$$q = a_1 \cdot k \cdot h_e^{2.2}$$

Areas	k value	Applicable Districts
1	2.6×10^{-3}	Taipei City, New Taipei City, Keelung City, Ilan County
2	4.2×10^{-3}	Taoyuan City, Hsinchu County, Hsinchu City
3	1.8×10^{-3}	Miaoli County, Taichung City, Changhua County, Nantou County, Hualien County
4	2.2×10^{-3}	Yunlin County, Chiayi County, Chiayi City, Tainan City
5	1.6×10^{-3}	Kaohsiung City, Pingtung County, Taitung County, Penghu County

$$h_e = h + \Delta h$$

$$\Delta h = 1.8 \left(1.5 V_s \cdot d_s + 4 \times 10^3 Q_h \right) / \bar{u}$$

$$\rho \cdot C_p \cdot \pi \cdot d_s^2 \cdot V_s \cdot (T_s - T) \cdot 1000$$

$$Q_h = \frac{\quad}{4}$$

Article 9 For the air pollutant that is listed in the emission standard table with the conversion constants, the height of the stack should be calculated in accordance with the equations of Article 7 and Article 8, respectively, for a new pollution source, and the higher stack height shall be used as the stack height.

When the competent authority handles petition cases involving existing pollution sources, it may order the existing pollution source to improve emissions concentration or may apply the regulations of the first paragraph in this article to change the stack height.

Article 10 Those public and private premises that adopt multiple pollution control measures shall submit written data to the local competent authority, and

after receiving approval, may build a stack lower than the specified height designated in Article 9. For circumstances in the foregoing paragraph, emissions standards shall be calculated based on actual stack height pursuant to Article 9 or official calculations of the highest permissible emissions quantity authorized by the central competent authority. The highest permissible emissions may not exceed the emissions standards for the stack of these Standards.

Article 11 The concentration of all pollutants shall be calculated based on the volume of a non-diluted dry exhaust at a temperature of 273 Kelvin and one atmosphere of 1 bar. A 6% oxygen concentration shall serve as the reference standard, if no special regulations exist for the combustion process of exhaust. Non-combustion processes shall use the volume of non-diluted dry exhaust as the calculation standard. However, for those circumstances in which there are separate regulations for special industries, the oxygen content mentioned in this article shall adopt the oxygen percentage in the regulations as the reference basis.

The correction formulas for pollutant concentration C and exhaust volume Q are as follows:

$$C = \frac{21 - O_n}{21 - O_s} \cdot C_s$$

$$Q = \frac{21 - O_s}{21 - O_n} \cdot Q_s$$

Article 12 The central competent authority shall determine the relevant testing methods and quality control items in these Standards.

Article 13 For those circumstances in which a stationary source is equipped with continuous emission monitoring system of air pollutants in accordance with regulations, the daily measurement values shall comply with the following requirements:

- I. For monitoring data of the opacity of particulate pollutants, the six-minute record values shall not exceed the cumulative time of the emission standard values for more than four hours.

II. For monitoring data on gaseous pollutants, the one-hour record values shall not exceed the cumulative time of the emission standard values for more than two hours.

In those circumstances in which a stationary source in the foregoing paragraph, that establish a conversion relationship between concentration and opacity rate of particulate pollutants, and after approval by the competent authority, the opacity rate of particulate pollutants that is converted from the particulate pollutant emissions standard value can be used as the standard value of opacity.

Article 14 These Standards shall take effect on the date of promulgation.

Table

Item No.	Air Pollutant	Emissions Standard		Conversion Constant		Date of Enforcement		Notes
		Emissions Pipe	Peripheral Boundary	a ₁	a ₂	New Pollution Sources	Existing Pollution Sources	
1	Particulate Pollutant (Opacity)	Continuous automatic monitoring: 6-minute monitoring values for daily opacity may not exceed 20% of the accumulated time by over 4 hours.	—	—	—	Date of promulgation		The following equipment are not subject to restrictions: I. Built-in engines smaller than 2500 cc. II. Equipment for laboratory use. III. Portable welding and soldering equipment. IV. Pile drivers. V. Training equipment for visual determination of plume. VI. Equipment for fire drills or accidental fires.
		Digital image and visual determination of plume: Opacity may not exceed 20%; when ending or starting operations, opacity can reach 40%; however, within one hour, the accumulated time for 20% opacity may not exceed 3 minutes.	—	—	—	Date of promulgation		

	Particulate Pollutant (Weight and Concentration)	Combustion Processes	Standard 1: 50 mg/Nm ³ Standard 2: 100 mg/Nm ³	500 µg/Nm ³	0.58	2.8×10 ⁻⁴	Standard 1 shall take effect on April 25, 2013	Standard 2 shall take effect on April 30, 2014	I. Particulate emission standards apply to: Pollution sources established on or after April 25, 2013, which shall be considered new pollution sources. Pollution sources already established, under construction, that have already completed construction project bidding or completed contract signing without bidding, shall be considered existing pollution sources. But existing pollution sources compliant with the modified condition of A
		External Combustion Process	Standard 3: 100 mg/Nm ³				Standard 3 shall take effect on April 25, 2013	Standard 3 shall take effect on April 30, 2014	

										<p>Article 24 of the Air Pollution Control Act shall be considered new pollution sources.</p> <p>II. Standards 1, 2, and 3 shall use non-diluted dry exhaust volume as the calculation standard, with the exception of combustion processes using heating furnaces, cracking furnaces and boilers.</p>
2	Sulfur Oxides (SO _x expressed as SO ₂)	Combustion Process	Gas Fuel	100 ppm	0.3 ppm	1.0	4.9×10 ⁻⁴	Date of promulgation	Date of promulgation	Unless other regulations apply, stack standards for sulfur-emitting facilities in the petroleum refining industry shall use 500 ppm as the standard value.
			Liquid Fuel	300 ppm						
			Solid Fuel	300 ppm						
		External Combustion	650 ppm							

		on Process							
3	Sulfuric Acid (SO ₃ or H ₂ SO ₄ expressed as 100% H ₂ SO ₄)	Sulfuric Acid Factories	100 mg/Nm ³	50 μg/Nm ³	0.05	3.0×10 ⁻⁵	Date of promulgation	Date of promulgation	
		Pollution Sources Other than Sulfuric Acid Factories	200 mg/Nm ³						
4	Nitrogen Oxides (NO _x expressed as NO ₂)	Combustion Process	Gas Fuel	Standard 1: 300ppm Standard 2: 150ppm	—	—	Standard 2 shall take effect nationwide on the date of promulgation.	Standard 2 takes effect of the date of promulgation in Taipei City, Kaohsiung City, New Taipei City, Pingtung County, Taitung County, and Hualien County. Other areas shall be subject to Standard	I. Boilers over 4 tons and other combustion equipment with a heating value input of 2.64×10 ⁶ kcal/hr. II. Mixed fuels shall use the following formulas to calculate standard emission values: Standard emission values = Ax + By + Cz Emissions using dry calculations A: Gaseous fuel of NO _x emission standards. B: Liquid fuel
			Liquid Fuel	Standard 1: 400ppm Standard 2: 250ppm					
			Solid Fuel	Standard 1: 500ppm					
				Standard 2: 350ppm					

								rd 1.	of NO _x emission standards. C: Solid fuel of NO _x emission standards. x: Gas fuel as a percentage of total input heating volume. y: Liquid fuel as a percentage of total input heating volume. z: Solid fuel as a percentage of total input heating volume.
		External Combustion Process	Standard 1: 500ppm Standard 2: 250ppm	0.25 ppm	0.60	2.9×10 ⁻⁴			
5	Carbon Monoxide (CO)	2,000ppm		—	—	—		Date of promulgation	
6	Total Fluoride Content (measured as F ⁻)	10 mg/Nm ³		10 μg/Nm ³	1.17×10 ⁻²	5.7×10 ⁻⁶		Date of promulgation	

7	Hydrogen Chloride (HCl)	80 ppm or 1.8kg/hr or less	0.1 ppm	0.19	9.0×10^{-5}	Date of promulgation	
8	Chlorine Gas (Cl ₂)	30ppm	0.02 ppm	0.07	4.0×10^{-5}	Date of promulgation	
9	Ammonia Gas (NH ₃)	Measured in accordance with methods listed in Article 7	1ppm	0.885	4.3×10^{-4}	Date of promulgation	
10	Hydrogen Sulfide (H ₂ S)	Atmospheric output	100ppm	0.1 ppm	0.177	9×10^{-5}	Date of promulgation
		Before combustion processing, an entrance concentration	650ppm				
11	Mercaptan (RSH measured as C ₂ H ₃ SH)	Measured in accordance with methods listed in Article 7	0.01 ppm	0.025	1.2×10^{-5}	Date of promulgation	
12	Methyl Sulfide [(CH ₃) ₂ S]	Measured in accordance with methods listed in Article 7	0.2 ppm	0.646	3.1×10^{-4}	Date of promulgation	
13	Methyl Disulfide [(CH ₃) ₂ S ₂]	Measured in accordance with methods listed in Article 7	0.1 ppm	0.49	2.4×10^{-4}	Date of promulgation	
14	Monomethylamine (CH ₃ NH ₂)	Measured in accordance with methods listed in Article 7	0.02 ppm	0.032	1.6×10^{-5}	Date of promulgation	
15	Dimethylamine [(CH ₃) ₂ NH]	Measured in accordance with methods listed in Article 7	0.02 ppm	0.047	2.3×10^{-5}	Date of promulgation	

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16	Trimethylamine [(CH ₃) ₃ N]	Measured in accordance with methods listed in Article 7	0.02 ppm	0.061	3×10 ⁻⁵	Date of promulgation	
17	Carbon Disulfide (CS ₂)	Measured in accordance with methods listed in Article 7	0.4 ppm	1.58	7.7×10 ⁻⁴	Date of promulgation	
18	Asbestos and substances containing Asbestos	Invisible to the naked eye	Invisible to the naked eye	—	—	Date of promulgation	
19	Acetaldehyde (CH ₃ CHO)	Measured in accordance with methods listed in Article 7	3.6 mg/m ³	1.53	1.98×10 ⁻³	Date of promulgation	
20	Acetic Acid (CH ₃ COOH)	Measured in accordance with methods listed in Article 7	0.50 mg/m ³	2.13×10 ⁻¹	2.75×10 ⁻⁴	Date of promulgation	
21	Acetic Anhydride [(CH ₃ CO) ₂ O]	Measured in accordance with methods listed in Article 7	0.42 mg/m ³	1.79×10 ⁻¹	2.31×10 ⁻⁴	Date of promulgation	
22	Acetone [(CH ₃) ₂ CO]	Measured in accordance with methods listed in Article 7	9.5 mg/m ³	4.04	5.23×10 ⁻³	Date of promulgation	
23	Acetonitrile (CH ₃ CN)	Measured in accordance with methods listed in Article 7	1.3 mg/m ³	5.70×10 ⁻¹	7.37×10 ⁻⁴	Date of promulgation	
24	Acetylene Tetrabromide (1,1,2,2-Tetrabromoethane)	Measured in accordance with methods listed in Article 7	0.28 mg/m ³	1.19×10 ⁻¹	1.54×10 ⁻⁴	Date of promulgation	

	(CHBr ₂ CHBr ₂)						
25	Acrolein (CH ₂ =CHCHO)	Measured in accordance with methods listed in Article 7	4.6×10 ⁻³ mg/m ³	1.96×10 ⁻³	2.53×10 ⁻⁶	Date of promulgation	
26	Acrylamide (CH ₂ =CHCONH ₂)	Measured in accordance with methods listed in Article 7	6.0×10 ⁻⁴ mg/m ³	2.55×10 ⁻⁴	3.30×10 ⁻⁷	Date of promulgation	
27	Acrylic Acid (CH ₂ =CHCOOH)	Measured in accordance with methods listed in Article 7	0.60 mg/m ³	2.55×10 ⁻¹	3.30×10 ⁻⁴	Date of promulgation	
28	Allyl Alcohol (CH ₂ =CHCH ₂ OH)	Measured in accordance with methods listed in Article 7	0.096 mg/m ³	4.08×10 ⁻²	5.28×10 ⁻⁵	Date of promulgation	
29	Allyl Chloride (CH ₂ =CHCH ₂ Cl)	Measured in accordance with methods listed in Article 7	0.060 mg/m ³	2.55×10 ⁻²	3.30×10 ⁻⁵	Date of promulgation	
30	Allyl Glycidyl Ether (AGE) (CH ₂ =CHCH ₂ OC H ₂ CHCH ₂ O)	Measured in accordance with methods listed in Article 7	0.46 mg/m ³	1.96×10 ⁻¹	2.53×10 ⁻⁴	Date of promulgation	
31	2-Aminopyridine (C ₅ H ₄ NNH ₂)	Measured in accordance with methods listed in Article 7	0.038 mg/m ³	1.62×10 ⁻²	2.09×10 ⁻⁵	Date of promulgation	
32	Ammonium Chloride (fume) (NH ₄ Cl)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
33	n-Amyl Acetate (CH ₃ COOC ₅ H ₁₁)	Measured in accordance with methods listed in Article 7	11 mg/m ³	4.52	5.85×10 ⁻³	Date of promulgation	

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34	sec-Amyl Acetate (CH ₃ COOCH(CH ₃)(CH ₂) ₂ CH ₃)	Measured in accordance with methods listed in Article 7	13 mg/m ³	5.65	7.32×10 ⁻³	Date of promulgation	
35	Aniline (C ₆ H ₅ NH ₂)	Measured in accordance with methods listed in Article 7	0.15 mg/m ³	6.46×10 ⁻²	8.36×10 ⁻⁵	Date of promulgation	
36	Anisidine (o-,p-isomers) (CH ₃ OC ₆ H ₄ NH ₂)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
37	Antimony and its compounds (as Sb) (Sb)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
38	ANTU (α-Naphthylthiourea) (C ₁₀ H ₇ NHCSNH ₂)	Measured in accordance with methods listed in Article 7	6.0×10 ⁻³ mg/m ³	2.55×10 ⁻³	3.30×10 ⁻⁶	Date of promulgation	
39	Arsenic organic compounds (as As) (As)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
40	Arsine (AsH ₃)	Measured in accordance with methods listed in Article 7	3.2×10 ⁻³ mg/m ³	1.36×10 ⁻³	1.76×10 ⁻⁶	Date of promulgation	
41	Barium and its soluble compounds (as Ba) (Ba)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	

42	Benzoyl Peroxide [(C ₆ H ₄ CO) ₂ O ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
43	Benzyl Chloride (C ₆ H ₅ CH ₂ Cl)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.42×10 ⁻²	5.72×10 ⁻⁵	Date of promulgation	
44	Biphenyl (C ₆ H ₅ C ₆ H ₅)	Measured in accordance with methods listed in Article 7	0.026 mg/m ³	1.11×10 ⁻²	1.43×10 ⁻⁵	Date of promulgation	
45	Boron Tribromide (BBr ₃)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
46	Boron Trifluoride (BF ₃)	Measured in accordance with methods listed in Article 7	0.056 mg/m ³	2.38×10 ⁻²	3.08×10 ⁻⁵	Date of promulgation	
47	Bromine (Br ₂)	Measured in accordance with methods listed in Article 7	0.013 mg/m ³	5.61×10 ⁻³	7.26×10 ⁻⁶	Date of promulgation	
48	Bromine Pentafluoride (BrF ₅)	Measured in accordance with methods listed in Article 7	0.014 mg/m ³	6.12×10 ⁻³	7.92×10 ⁻⁶	Date of promulgation	
49	Bromoform (CHBr ₃)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.42×10 ⁻²	5.72×10 ⁻⁵	Date of promulgation	
50	n-Butane (CH ₃ CH ₂ CH ₂ CH ₃)	Measured in accordance with methods listed in Article 7	38 mg/m ³	16.2	2.09×10 ⁻²	Date of promulgation	
51	1-Butanethiol	Measured in accordance with methods listed in Article 7	0.036 mg/m ³	1.53×10 ⁻²	1.98×10 ⁻⁵	Date of promulgation	

	(C ₄ H ₉ SH)	h methods listed in Article 7				on	
52	1-Butanol [CH ₃ (CH ₂) ₃ OH]	Measured in accordance with h methods listed in Article 7	6.1 mg/m ³	2.58	3.33×10 ⁻³	Date of promulgati on	
53	2-Butanol (CH ₃ CHOHCH ₂ CH ₃)	Measured in accordance with h methods listed in Article 7	9.1 mg/m ³	3.86	4.99×10 ⁻³	Date of promulgati on	
54	n-Butyl Acetate (CH ₃ COOC ₄ H ₉)	Measured in accordance with h methods listed in Article 7	14 mg/m ³	6.05	7.83×10 ⁻³	Date of promulgati on	
55	Sec-Butyl Acetate [CH ₃ COOCH(CH ₃)(C ₂ H ₅)]	Measured in accordance with h methods listed in Article 7	19 mg/m ³	8.08	1.05×10 ⁻²	Date of promulgati on	
56	tert-Butyl Acetate [CH ₃ COOC(CH ₃) ₃]	Measured in accordance with h methods listed in Article 7	19 mg/m ³	8.08	1.05×10 ⁻²	Date of promulgati on	
57	tert-Butyl Alcohol [(CH ₃) ₃ COH]	Measured in accordance with h methods listed in Article 7	6.1 mg/m ³	2.58	3.33×10 ⁻³	Date of promulgati on	
58	n-Butylamine (C ₄ H ₉ NH ₂)	Measured in accordance with h methods listed in Article 7	0.30 mg/m ³	1.28×10 ⁻¹	1.65×10 ⁻⁴	Date of promulgati on	
59	n-Butyl Glycidyl Ether (BGE) [CH ₃ (CH ₂) ₃ OCH ₂ CHCH ₂ O]	Measured in accordance with h methods listed in Article 7	2.7 mg/m ³	1.13	1.46×10 ⁻³	Date of promulgati on	

60	n-Butyl Lactate (CH ₃ CHOHCOO C ₄ H ₉)	Measured in accordance with methods listed in Article 7	0.60 mg/m ³	2.55×10 ⁻¹	3.30×10 ⁻⁴	Date of promulgation	
61	o-sec-Butylphenol [CH ₃ CH ₂ CH(CH ₃) C ₆ H ₄ OH]	Measured in accordance with methods listed in Article 7	0.62 mg/m ³	2.64×10 ⁻¹	3.41×10 ⁻⁴	Date of promulgation	
62	p-tert-Butyltoluene [(CH ₃) ₃ CC ₆ H ₄ C H ₃]	Measured in accordance with methods listed in Article 7	1.2 mg/m ³	5.19×10 ⁻¹	6.71×10 ⁻⁴	Date of promulgation	
63	Calcium Arsenate [Ca ₃ (AsO ₄) ₂]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
64	Calcium Cyanamide (CaNCN)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
65	Calcium Hydroxide [Ca(OH) ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
66	Calcium Oxide (CaO)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
67	Camphor (Synthetic) (C ₁₀ H ₁₆ O)	Measured in accordance with methods listed in Article 7	0.24 mg/m ³	1.02×10 ⁻¹	1.32×10 ⁻⁴	Date of promulgation	
68	Caprolactam (dust) [CH ₂ (CH ₂) ₄ NHC O]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	

69	Caprolactam (vapour) [CH ₂ (CH ₂) ₄ NHCO]	Measured in accordance with methods listed in Article 7	0.46 mg/m ³	1.96×10 ⁻¹	2.53×10 ⁻⁴	Date of promulgation	
70	Carbaryl (C ₁₀ H ₇ OOCNHC ₃ H ₃)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
71	Carbon Black (C)	Measured in accordance with methods listed in Article 7	0.070 mg/m ³	2.98×10 ⁻²	3.85×10 ⁻⁵	Date of promulgation	
72	Carbon Dioxide (CO ₂)	Measured in accordance with methods listed in Article 7	180 mg/m ³	76.5	9.90×10 ⁻²	Date of promulgation	
73	Cesium Hydroxide (CsOH)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
74	Chlordane (C ₁₀ H ₆ Cl ₈)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
75	Chlorinated Diphenyl Oxide (C ₁₂ H ₄ Cl ₆ O)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
76	Chlorine Dioxide (ClO ₂)	Measured in accordance with methods listed in Article 7	5.6×10 ⁻³ mg/m ³	2.38×10 ⁻³	3.08×10 ⁻⁶	Date of promulgation	
77	Chlorine Trifluoride (ClF ₃)	Measured in accordance with methods listed in Article 7	7.6×10 ⁻³ mg/m ³	3.23×10 ⁻³	4.18×10 ⁻⁶	Date of promulgation	

78	Chloroacetaldehyde (ClCH ₂ CHO)	Measured in accordance with methods listed in Article 7	0.064 mg/m ³	2.72×10 ⁻²	3.52×10 ⁻⁵	Date of promulgation	
79	α-Chloroacetophenone (ω-Chloroacetophenone) (C ₆ H ₅ COCH ₂ Cl)	Measured in accordance with methods listed in Article 7	6.4×10 ⁻³ mg/m ³	2.72×10 ⁻³	3.52×10 ⁻⁶	Date of promulgation	
80	Chloroacetyl Chloride (CH ₂ ClCOCl)	Measured in accordance with methods listed in Article 7	4.6×10 ⁻³ mg/m ³	1.96×10 ⁻³	2.53×10 ⁻⁶	Date of promulgation	
81	Chlorobenzene (C ₆ H ₅ Cl)	Measured in accordance with methods listed in Article 7	6.9 mg/m ³	2.93	3.80×10 ⁻³	Date of promulgation	
82	Chlorobromomethane (BrCH ₂ Cl)	Measured in accordance with methods listed in Article 7	21 mg/m ³	9.01	1.17×10 ⁻²	Date of promulgation	
83	2-Chloro-1,3-Butadiene (CH ₂ =CClCH=CH ₂)	Measured in accordance with methods listed in Article 7	0.72 mg/m ³	3.06×10 ⁻¹	3.96×10 ⁻⁴	Date of promulgation	
84	Chlorodifluoromethane (CHClF ₂)	Measured in accordance with methods listed in Article 7	71 mg/m ³	30.1	3.89×10 ⁻²	Date of promulgation	
85	Chloroethane (CH ₃ CH ₂ Cl)	Measured in accordance with methods listed in Article 7	53 mg/m ³	22.4	2.90×10 ⁻²	Date of promulgation	
86	2-Chloroethanol (ClCH ₂ CH ₂ OH)	Measured in accordance with methods listed in Article 7	0.066 mg/m ³	2.81×10 ⁻²	3.63×10 ⁻⁵	Date of promulgation	

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87	Bis-Chloromethyl Ether (ClCH ₂ OCH ₂ Cl)	Measured in accordance with methods listed in Article 7	9.4×10^{-5} mg/m ³	4.00×10^{-5}	5.17×10^{-8}	Date of promulgation	
88	1-Chloro-1-nitropropane (C ₃ H ₆ ClNO ₂)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10^{-2}	1.10×10^{-4}	Date of promulgation	
89	Chloropentafluoroethane (CClF ₂ CF ₃)	Measured in accordance with methods listed in Article 7	126 mg/m ³	53.7	6.95×10^{-2}	Date of promulgation	
90	o-Chlorostyrene (ClC ₆ H ₄ CH=CH ₂)	Measured in accordance with methods listed in Article 7	5.7 mg/m ³	2.41	3.11×10^{-3}	Date of promulgation	
91	o-Chlorotoluene (ClC ₆ H ₄ CH ₃)	Measured in accordance with methods listed in Article 7	5.2 mg/m ³	2.20	2.85×10^{-3}	Date of promulgation	
92	Chromium metal (as Cr) (Cr)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10^{-3}	1.10×10^{-5}	Date of promulgation	
93	Chromium (II) compounds (as Cr) (Cr (II))	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10^{-3}	5.50×10^{-6}	Date of promulgation	
94	Chromium (III) compounds (as Cr) (Cr (III))	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10^{-3}	5.50×10^{-6}	Date of promulgation	
95	Coal Tar Pitch	Measured in accordance with methods listed in Article 7	4.0×10^{-3} mg/m ³	1.70×10^{-3}	2.20×10^{-6}	Date of promulgation	

	Volatiles	h methods listed in Article 7	m ³			on	
96	Cobalt, metal fume and dust (as Co) (Co/CoO/Co ₂ O ₂ /Co ₂ O ₄)	Measured in accordance with methods listed in Article 7	1.0×10 ⁻³ mg/m ³	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation	
97	Coke-oven emissions	Measured in accordance with methods listed in Article 7	3.0×10 ⁻³ mg/m ³	1.28×10 ⁻³	1.65×10 ⁻⁶	Date of promulgation	
98	Copper (fume) (Cu/Cu ₂ O/CuO)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
99	Copper, dusts and mists (as Cu) (CuSO ₄ ·5H ₂ O/CuCl)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
100	Cotton dust	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
101	Crotonaldehyde (CH ₃ CH=CHCHO)	Measured in accordance with methods listed in Article 7	0.11 mg/m ³	4.85×10 ⁻²	6.27×10 ⁻⁵	Date of promulgation	
102	Cumene (Isopropyl benzene) [C ₆ H ₅ CH(CH ₃) ₂]	Measured in accordance with methods listed in Article 7	4.9 mg/m ³	2.09	2.71×10 ⁻³	Date of promulgation	
103	Cresol (all isomers)	Measured in accordance with methods listed in Article 7	0.44 mg/m ³	1.87×10 ⁻¹	2.42×10 ⁻⁴	Date of promulgation	

	(CH ₃ C ₆ H ₄ OH)	7					
104	Cyanamide (H ₂ NCN)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
105	Cyanides (as CN ⁻) (CN ⁻)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
106	Cyclohexylamine (C ₆ H ₁₁ NH ₂)	Measured in accordance with methods listed in Article 7	0.82 mg/m ³	3.49×10 ⁻¹	4.51×10 ⁻⁴	Date of promulgation	
107	Cyclohexane (C ₆ H ₁₂)	Measured in accordance with methods listed in Article 7	21 mg/m ³	8.76	1.13×10 ⁻²	Date of promulgation	
108	Cyclohexanol (C ₆ H ₁₁ OH)	Measured in accordance with methods listed in Article 7	4.1 mg/m ³	1.75	2.27×10 ⁻³	Date of promulgation	
109	Cyclohexanone (C ₅ H ₁₀ CO)	Measured in accordance with methods listed in Article 7	2.0 mg/m ³	8.50×10 ⁻¹	1.10×10 ⁻³	Date of promulgation	
110	1,3-Cyclopentadiene (C ₅ H ₆)	Measured in accordance with methods listed in Article 7	4.1 mg/m ³	1.73	2.23×10 ⁻³	Date of promulgation	
111	Cyclopentane (C ₅ H ₁₀)	Measured in accordance with methods listed in Article 7	34 mg/m ³	14.6	1.89×10 ⁻²	Date of promulgation	
112	2,4-D (2,4-Dichlorophenoxyacetic Acid)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	

	(Cl ₂ C ₆ H ₃ OCH ₂ COOH)						
113	Decaborane (B ₁₀ H ₁₄)	Measured in accordance with methods listed in Article 7	5.0×10 ⁻³ mg/m ³	2.13×10 ⁻³	2.75×10 ⁻⁶	Date of promulgation	
114	Diacetone Alcohol [(CH ₃) ₂ C(OH)CH ₂ COCH ₃]	Measured in accordance with methods listed in Article 7	4.8 mg/m ³	2.02	2.62×10 ⁻³	Date of promulgation	
115	Diazinon [(CH ₃) ₂ CHC ₄ N ₂ H(CH ₃)O]PS(OC ₂ H ₅) ₂]	Measured in accordance with methods listed in Article 7	2.0×10 ⁻⁴ mg/m ³	8.50×10 ⁻⁵	1.10×10 ⁻⁷	Date of promulgation	
116	Diazomethane (CH ₂ N ₂)	Measured in accordance with methods listed in Article 7	6.8×10 ⁻³ mg/m ³	2.89×10 ⁻³	3.74×10 ⁻⁶	Date of promulgation	
117	Diborane (B ₂ H ₆)	Measured in accordance with methods listed in Article 7	2.2×10 ⁻³ mg/m ³	9.35×10 ⁻⁴	1.21×10 ⁻⁶	Date of promulgation	
118	Dibutyl Phosphate [(C ₄ H ₉ O) ₂ POOH]	Measured in accordance with methods listed in Article 7	0.17 mg/m ³	7.31×10 ⁻²	9.46×10 ⁻⁵	Date of promulgation	
119	Dibutyl Phthalate [C ₆ H ₄ (COOC ₄ H ₉) ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
120	Dichloroacetylene (C ₂ Cl ₂)	Measured in accordance with methods listed in Article 7	7.8×10 ⁻³ mg/m ³	3.32×10 ⁻³	4.29×10 ⁻⁶	Date of promulgation	

121	o-Dichlorobenzene (C ₆ H ₄ Cl ₂)	Measured in accordance with methods listed in Article 7	6.0 mg/m ³	2.56	3.31×10 ⁻³	Date of promulgation	
122	p-Dichlorobenzene (C ₆ H ₄ Cl ₂)	Measured in accordance with methods listed in Article 7	9.0 mg/m ³	3.83	4.95×10 ⁻³	Date of promulgation	
123	Dichlorodifluoromethane (CCl ₂ F ₂)	Measured in accordance with methods listed in Article 7	99 mg/m ³	42.1	5.45×10 ⁻²	Date of promulgation	
124	1,3-Dichloro-5,5-dimethylhydantoin (C ₅ H ₆ Cl ₂ N ₂ O ₂)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
125	1,1-Dichloroethane (CH ₃ CHCl ₂)	Measured in accordance with methods listed in Article 7	8.1 mg/m ³	3.44	4.46×10 ⁻³	Date of promulgation	
126	1,2-Dichloroethylene (Ethylene Dichloride) (ClCH=CHCl)	Measured in accordance with methods listed in Article 7	16 mg/m ³	6.74	8.72×10 ⁻³	Date of promulgation	
127	Dichloroethyl Ether [(ClCH ₂ CH ₂) ₂ O]	Measured in accordance with methods listed in Article 7	0.58 mg/m ³	2.47×10 ⁻¹	3.19×10 ⁻⁴	Date of promulgation	
128	Dichloromonofluoromethane (CHCl ₂ F)	Measured in accordance with methods listed in Article 7	0.84 mg/m ³	3.57×10 ⁻¹	4.62×10 ⁻⁴	Date of promulgation	
129	1,1-Dichloro-1-nitroethane	Measured in accordance with methods listed in Article 7	0.24 mg/m ³	1.02×10 ⁻¹	1.32×10 ⁻⁴	Date of promulgation	

	[H ₃ CC(Cl) ₂ NO ₂]	7					
130	1,2-Dichloropropane (CH ₃ CHClCH ₂ Cl)	Measured in accordance with methods listed in Article 7	6.9 mg/m ³	2.95	3.82×10 ⁻³	Date of promulgation	
131	1,3-Dichloropropane (CHCl=CHCH ₂ Cl)	Measured in accordance with methods listed in Article 7	0.090 mg/m ³	3.83×10 ⁻²	4.95×10 ⁻⁵	Date of promulgation	
132	2,2-Dichloropropionic Acid (CH ₃ CCl ₂ COOH)	Measured in accordance with methods listed in Article 7	0.12 mg/m ³	4.93×10 ⁻²	6.38×10 ⁻⁵	Date of promulgation	
133	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CClF ₂ CClF ₂)	Measured in accordance with methods listed in Article 7	140 mg/m ³	59.4	7.69×10 ⁻²	Date of promulgation	
134	Dicyclopentadiene (C ₁₀ H ₁₂)	Measured in accordance with methods listed in Article 7	0.54 mg/m ³	2.30×10 ⁻¹	2.97×10 ⁻⁴	Date of promulgation	
135	Diethanolamine [(HOCH ₂ CH ₂) ₂ NH]	Measured in accordance with methods listed in Article 7	0.26 mg/m ³	1.11×10 ⁻¹	1.43×10 ⁻⁴	Date of promulgation	
136	Diethylamine [(C ₂ H ₅) ₂ NH]	Measured in accordance with methods listed in Article 7	0.60 mg/m ³	2.55×10 ⁻¹	3.30×10 ⁻⁴	Date of promulgation	
137	2-Diethylaminoethanol [(C ₂ H ₅) ₂ NCH ₂ CH ₂ OH]	Measured in accordance with methods listed in Article 7	0.96 mg/m ³	4.08×10 ⁻¹	5.28×10 ⁻⁴	Date of promulgation	
138	Diethylenetriamin	Measured in accordance with methods listed in Article 7	0.084 mg/m ³	3.57×10 ⁻²	4.62×10 ⁻⁵	Date of promulgation	

	e (NH ₂ C ₂ H ₄ NHC ₂ H ₄ NH ₂)	h methods listed in Article 7				on	
139	Diethyl Ketone (C ₂ H ₅ COC ₂ H ₅)	Measured in accordance with h methods listed in Article 7	14 mg/m ³	5.99	7.76×10 ⁻³	Date of promulgati on	
140	Diethyl Phthalate [C ₆ H ₄ (CO ₂ C ₂ H ₅) ₂]	Measured in accordance with h methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgati on	
141	Difluorodibromo methane (CF ₂ Br ₂)	Measured in accordance with h methods listed in Article 7	17 mg/m ³	7.29	9.44×10 ⁻³	Date of promulgati on	
142	Diglycidyl Ether (DGE) (OCH ₂ CHCH ₂ OC H ₂ CHCH ₂ O)	Measured in accordance with h methods listed in Article 7	0.011 mg/m ³	4.51×10 ⁻³	5.83×10 ⁻⁶	Date of promulgati on	
143	Diisobutyl Keton e [(C ₄ H ₉) ₂ CO]	Measured in accordance with h methods listed in Article 7	2.9 mg/m ³	1.23	1.60×10 ⁻³	Date of promulgati on	
144	Diisopropylamine [[₂ (CH ₃) ₂ CH] ₂ NH]	Measured in accordance with h methods listed in Article 7	0.42 mg/m ³	1.79×10 ⁻¹	2.31×10 ⁻⁴	Date of promulgati on	
145	Dimethylacetamid e [CH ₃ CON(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	0.72 mg/m ³	3.06×10 ⁻¹	3.96×10 ⁻⁴	Date of promulgati on	
146	N,N-Dimethylanil ine [C ₆ H ₅ N(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	0.50 mg/m ³	2.13×10 ⁻¹	2.75×10 ⁻⁴	Date of promulgati on	

147	N,N-Dimethyl Formamide (DMF) [HCON(CH ₃) ₂]	Measured in accordance with methods listed in Article 7	0.60 mg/m ³	2.55×10 ⁻¹	3.30×10 ⁻⁴	Date of promulgation	
148	Dimethyl Phthalate [C ₆ H ₄ (COOCH ₃) ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
149	Dimethyl Sulfate [(CH ₃) ₂ SO ₄]	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.42×10 ⁻³	5.72×10 ⁻⁶	Date of promulgation	
150	Dinitrobenzene (all isomers) [C ₆ H ₄ (NO ₂) ₂]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
151	4,6-Dinitro-o-cresol [CH ₃ C ₆ H ₂ (NO ₂) ₂ OH]	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
152	2,4-Dinitrotoluene [C ₆ H ₃ CH ₃ (NO ₂) ₂]	Measured in accordance with methods listed in Article 7	0.030 mg/m ³	1.28×10 ⁻²	1.65×10 ⁻⁵	Date of promulgation	
153	o-Dioctyl Phthalate [C ₆ H ₄ (COOC ₈ H ₁₇) ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
154	1,4-Dioxane [(C ₂ H ₄) ₂ O ₂]	Measured in accordance with methods listed in Article 7	1.8 mg/m ³	7.65×10 ⁻¹	9.90×10 ⁻⁴	Date of promulgation	
155	Dioxathion	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	

	[C ₄ H ₆ O ₂ [SPS(OC ₂ H ₅) ₂] ₂]	h methods listed in Article 7	m ³			on	
156	Diphenylamine [(C ₆ H ₅) ₂ NH]	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
157	DiPropylene Glycol Methyl Ether [CH ₃ OC ₃ H ₆ OC ₃ H ₆ OH]	Measured in accordance with methods listed in Article 7	12 mg/m ³	5.15	6.67×10 ⁻³	Date of promulgation	
158	Dipropyl Ketone [(CH ₃ CH ₂ CH ₂) ₂ CO]	Measured in accordance with methods listed in Article 7	4.7 mg/m ³	1.98	2.56×10 ⁻³	Date of promulgation	
159	Divinylbenzene [C ₆ H ₄ (CHCH ₂) ₂]	Measured in accordance with methods listed in Article 7	1.1 mg/m ³	4.51×10 ⁻¹	5.83×10 ⁻⁴	Date of promulgation	
160	Epichlorohydrin (OCH ₂ CHCH ₂ Cl)	Measured in accordance with methods listed in Article 7	0.15 mg/m ³	6.46×10 ⁻²	8.36×10 ⁻⁵	Date of promulgation	
161	1,2-Epoxypropane (OCH ₂ CHCH ₃)	Measured in accordance with methods listed in Article 7	0.96 mg/m ³	4.08×10 ⁻¹	5.28×10 ⁻⁴	Date of promulgation	
162	2,3-Epoxy-1-propanol (CH ₂ OHCHCH ₂ O)	Measured in accordance with methods listed in Article 7	1.5 mg/m ³	6.46×10 ⁻¹	8.36×10 ⁻⁴	Date of promulgation	
163	Ethanolamine (NH ₂ CH ₂ CH ₂ OH)	Measured in accordance with methods listed in Article 7	0.15 mg/m ³	6.38×10 ⁻²	8.25×10 ⁻⁵	Date of promulgation	

164	Ethion [[$(C_2H_5O)_2P(S)S$] $_2$ CH_2]	Measured in accordance with methods listed in Article 7	8.0×10^{-3} mg/ m^3	3.40×10^{-3}	4.40×10^{-6}	Date of promulgation	
165	Ethylamine $(C_2H_5NH_2)$	Measured in accordance with methods listed in Article 7	0.36 mg/ m^3	1.53×10^{-1}	1.98×10^{-4}	Date of promulgation	
166	Ethyl acetate $(CH_3COOC_2H_5)$	Measured in accordance with methods listed in Article 7	29 mg/ m^3	12.2	1.58×10^{-2}	Date of promulgation	
167	Ethyl acrylate $(CH_2=CHCOOC_2H_5)$	Measured in accordance with methods listed in Article 7	2.0 mg/ m^3	8.67×10^{-1}	1.12×10^{-3}	Date of promulgation	
168	Ethyl Alcohol (C_2H_5OH)	Measured in accordance with methods listed in Article 7	38 mg/ m^3	16.0	2.07×10^{-2}	Date of promulgation	
169	Ethyl Amyl Ketone [$CH_3CH_2CH(CH_3)CH_2COCH_2CH_3$]	Measured in accordance with methods listed in Article 7	2.6 mg/ m^3	1.11	1.44×10^{-3}	Date of promulgation	
170	Ethyl Bromide (C_2H_5Br)	Measured in accordance with methods listed in Article 7	18 mg/ m^3	7.58	9.81×10^{-3}	Date of promulgation	
171	Ethyl Butyl Ketone [$CH_3(CH_2)_3COCH_2CH_3$]	Measured in accordance with methods listed in Article 7	4.7 mg/ m^3	1.99	2.57×10^{-3}	Date of promulgation	
172	Ethyl ether [$(C_2H_5)_2O$]	Measured in accordance with methods listed in Article 7	24 mg/ m^3	10.3	1.33×10^{-2}	Date of promulgation	

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173	Ethylenediamine (NH ₂ CH ₂ CH ₂ NH ₂)	Measured in accordance with methods listed in Article 7	0.50 mg/m ³	2.13×10 ⁻¹	2.75×10 ⁻⁴	Date of promulgation	
174	Ethylene Glycol (mist) (CH ₂ OHCH ₂ OH)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
175	Ethylene Glycol (vapor) (CH ₂ OHCH ₂ OH)	Measured in accordance with methods listed in Article 7	2.5 mg/m ³	1.08	1.40×10 ⁻³	Date of promulgation	
176	Ethylenimine (H ₂ CNHCH ₂)	Measured in accordance with methods listed in Article 7	0.018 mg/m ³	7.48×10 ⁻³	9.68×10 ⁻⁶	Date of promulgation	
177	Ethylene Glycol Monobutyl Ether (CH ₂ OHCH ₂ OC ₄ H ₉)	Measured in accordance with methods listed in Article 7	2.4 mg/m ³	1.03	1.33×10 ⁻³	Date of promulgation	
178	Ethylene Glycol Monoethyl Ether (CH ₂ OHCH ₂ OC ₂ H ₅)	Measured in accordance with methods listed in Article 7	0.36 mg/m ³	1.53×10 ⁻¹	1.98×10 ⁻⁴	Date of promulgation	
179	Ethylene Glycol Monoethyl Ether Acetate (C ₂ H ₅ OCH ₂ CH ₂ COOCH ₃)	Measured in accordance with methods listed in Article 7	0.54 mg/m ³	2.30×10 ⁻¹	2.97×10 ⁻⁴	Date of promulgation	
180	Ethylene Glycol Monomethyl Eth	Measured in accordance with methods listed in Article 7	0.32 mg/m ³	1.36×10 ⁻¹	1.76×10 ⁻⁴	Date of promulgation	

	er (CH ₂ OHCH ₂ OCH ₃)	7					
181	Ethylene Glycol Monomethyl Ether Acetate (CH ₃ COOCH ₂ CH ₂ OCH ₃)	Measured in accordance with methods listed in Article 7	0.48 mg/m ³	2.04×10 ⁻¹	2.64×10 ⁻⁴	Date of promulgation	
182	Ethylene Oxide (C ₂ H ₄ O)	Measured in accordance with methods listed in Article 7	0.036 mg/m ³	1.53×10 ⁻²	1.98×10 ⁻⁵	Date of promulgation	
183	Ethyl Formate (HCOOC ₂ H ₅)	Measured in accordance with methods listed in Article 7	6.1 mg/m ³	2.58	3.33×10 ⁻³	Date of promulgation	
184	N-Ethylmorpholine (CH ₂ CH ₂ OCH ₂ CH ₂ NCH ₂ CH ₃)	Measured in accordance with methods listed in Article 7	0.48 mg/m ³	2.04×10 ⁻¹	2.64×10 ⁻⁴	Date of promulgation	
185	Ferrovandium (dust)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
186	Fluoride (as fluoride) (F)	Measured in accordance with methods listed in Article 7	0.050 mg/m ³	2.13×10 ⁻²	2.75×10 ⁻⁵	Date of promulgation	
187	Fluorine (F ₂)	Measured in accordance with methods listed in Article 7	0.032 mg/m ³	1.36×10 ⁻²	1.76×10 ⁻⁵	Date of promulgation	
188	Fluorotrichlorome	Measured in accordance with	112 mg/m ³	47.8	6.18×10 ⁻²	Date of promulgation	

	thane (CCl ₃ F)	h methods listed in Article 7				on	
189	Formamide (HCONH ₂)	Measured in accordance with h methods listed in Article 7	0.74 mg/m ³	3.15×10 ⁻¹	4.07×10 ⁻⁴	Date of promulgati on	
190	Formic Acid (HCOOH)	Measured in accordance with h methods listed in Article 7	0.19 mg/m ³	7.99×10 ⁻²	1.03×10 ⁻⁴	Date of promulgati on	
191	Furfural (C ₄ H ₃ OCHO)	Measured in accordance with h methods listed in Article 7	0.16 mg/m ³	6.72×10 ⁻²	8.69×10 ⁻⁵	Date of promulgati on	
192	Furfuryl Alcohol (C ₄ H ₃ OCH ₂ OH)	Measured in accordance with h methods listed in Article 7	0.80 mg/m ³	3.40×10 ⁻¹	4.40×10 ⁻⁴	Date of promulgati on	
193	Gasoline	Measured in accordance with h methods listed in Article 7	18 mg/m ³	7.57	9.79×10 ⁻³	Date of promulgati on	
194	Germanium Tetra hydride (GeH ₄)	Measured in accordance with h methods listed in Article 7	0.013 mg/m ³	5.36×10 ⁻³	6.93×10 ⁻⁶	Date of promulgati on	
195	Glutaraldehyde [OHC(CH ₂) ₃ CHO]	Measured in accordance with h methods listed in Article 7	0.016 mg/m ³	6.97×10 ⁻³	9.02×10 ⁻⁶	Date of promulgati on	
196	Grain dust	Measured in accordance with h methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgati on	
197	Hafnium (Hf)	Measured in accordance with h methods listed in Article	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgati on	

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198	n-Heptane [CH ₃ (CH ₂) ₅ CH ₃]	Measured in accordance with methods listed in Article 7	33 mg/m ³	13.9	1.80×10 ⁻²	Date of promulgation	
199	Hexachlorobutadiene (Cl ₂ CCCICCCl ₂)	Measured in accordance with methods listed in Article 7	4.2×10 ⁻³ mg/m ³	1.79×10 ⁻³	2.31×10 ⁻⁶	Date of promulgation	
200	Hexachlorocyclopentadiene (C ₅ Cl ₆)	Measured in accordance with methods listed in Article 7	2.2×10 ⁻³ mg/m ³	9.35×10 ⁻⁴	1.21×10 ⁻⁶	Date of promulgation	
201	Hexachloroethane (Cl ₃ CCCl ₃)	Measured in accordance with methods listed in Article 7	0.19 mg/m ³	8.25×10 ⁻²	1.07×10 ⁻⁴	Date of promulgation	
202	Hexachloronaphthalene (C ₁₀ H ₂ Cl ₆)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
203	Hexafluoroacetone (CF ₃ COCF ₃)	Measured in accordance with methods listed in Article 7	0.014 mg/m ³	5.78×10 ⁻³	7.48×10 ⁻⁶	Date of promulgation	
204	Hexamethylene Diisocyanate (HDI) [OCN(CH ₂) ₆ NCO]	Measured in accordance with methods listed in Article 7	6.8×10 ⁻⁴ mg/m ³	2.89×10 ⁻⁴	3.74×10 ⁻⁷	Date of promulgation	
205	n-Hexane [CH ₃ (CH ₂) ₄ CH ₃]	Measured in accordance with methods listed in Article 7	3.5 mg/m ³	1.50	1.94×10 ⁻³	Date of promulgation	

206	Hexane Isomers (C ₆ H ₁₄)	Measured in accordance with methods listed in Article 7	35 mg/m ³	15.0	1.94×10 ⁻²	Date of promulgation	
207	sec-Hexyl Acetate (CH ₃ COOC ₆ H ₁₃)	Measured in accordance with methods listed in Article 7	5.9 mg/m ³	2.51	3.25×10 ⁻³	Date of promulgation	
208	Hexylene Glycol [(CH ₃) ₂ COHCH ₂ CHOHCH ₃]	Measured in accordance with methods listed in Article 7	2.4 mg/m ³	1.03	1.33×10 ⁻³	Date of promulgation	
209	Hydrogen bromide (HBr)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.42×10 ⁻²	1.09×10 ⁻⁴	Date of promulgation	
210	Hydrazine (NH ₂ NH ₂)	Measured in accordance with methods listed in Article 7	2.6×10 ⁻³ mg/m ³	1.11×10 ⁻³	1.43×10 ⁻⁶	Date of promulgation	
211	Hydrogen Cyanide (HCN)	Measured in accordance with methods listed in Article 7	0.22 mg/m ³	9.35×10 ⁻²	1.21×10 ⁻⁴	Date of promulgation	
212	Hydrogen Fluoride (HF)	Measured in accordance with methods listed in Article 7	0.052 mg/m ³	2.21×10 ⁻²	2.86×10 ⁻⁵	Date of promulgation	
213	Hydrogen Peroxide (H ₂ O ₂)	Measured in accordance with methods listed in Article 7	0.028 mg/m ³	1.19×10 ⁻²	1.54×10 ⁻⁵	Date of promulgation	
214	Hydrogen Selenide (H ₂ Se)	Measured in accordance with methods listed in Article 7	3.2×10 ⁻³ mg/m ³	1.36×10 ⁻³	1.76×10 ⁻⁶	Date of promulgation	
215	Hydroquinone	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	

	[C ₆ H ₄ (OH) ₂]	h methods listed in Article 7				on	
216	Indium and its compounds (as In) (In)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
217	Iodine (I ₂)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
218	Iron Pentacarbonyl (as F) [Fe(CO) ₅]	Measured in accordance with methods listed in Article 7	4.6×10 ⁻³ mg/m ³	1.96×10 ⁻³	2.53×10 ⁻⁶	Date of promulgation	
219	Iron oxide (fume) (FeO, Fe ₃ O ₄)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
220	Isoamyl Acetate [CH ₃ COO(CH ₂) ₂ CH(CH ₃) ₂]	Measured in accordance with methods listed in Article 7	11 mg/m ³	4.52	5.85×10 ⁻³	Date of promulgation	
221	Isoamyl Alcohol [(CH ₃) ₂ CHCH ₂ CH ₂ OH]	Measured in accordance with methods listed in Article 7	7.2 mg/m ³	3.07	3.97×10 ⁻³	Date of promulgation	
222	Isobutyl Acetate [CH ₃ COOCH ₂ CH ₂ (CH ₃) ₂]	Measured in accordance with methods listed in Article 7	14 mg/m ³	6.06	7.84×10 ⁻³	Date of promulgation	
223	Isobutyl Alcohol [(CH ₃) ₂ CHCH ₂ OH]	Measured in accordance with methods listed in Article 7	3.0 mg/m ³	1.29	1.67×10 ⁻³	Date of promulgation	
224	Isooctyl Alcohol	Measured in accordance with methods listed in Article 7	5.3 mg/m ³	2.26	2.93×10 ⁻³	Date of promulgation	

	(C ₇ H ₁₅ CH ₂ OH)	h methods listed in Article 7				on	
225	Isophorone (C ₉ H ₁₄ O)	Measured in accordance with h methods listed in Article 7	0.56 mg/m ³	2.38×10 ⁻¹	3.08×10 ⁻⁴	Date of promulgati on	
226	Isophorone Diiso cyanate (IPDI) [C ₁₀ H ₁₈ (NCO) ₂]	Measured in accordance with h methods listed in Article 7	9.0×10 ⁻⁴ mg/ m ³	3.83×10 ⁻⁴	4.95×10 ⁻⁷	Date of promulgati on	
227	2-Isopropoxyetha nol [(CH ₃) ₂ CHOCH ₂ CH ₂ OH]	Measured in accordance with h methods listed in Article 7	2.1 mg/m ³	9.01×10 ⁻¹	1.17×10 ⁻³	Date of promulgati on	
228	Isopropyl Acetate [CH ₃ COOCH(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	21 mg/m ³	8.84	1.14×10 ⁻²	Date of promulgati on	
229	Isopropylamine [(CH ₃) ₂ CHNH ₂]	Measured in accordance with h methods listed in Article 7	0.24 mg/m ³	1.02×10 ⁻¹	1.32×10 ⁻⁴	Date of promulgati on	
230	Isopropyl Alcho l [(CH ₃) ₂ CHOH]	Measured in accordance with h methods listed in Article 7	20 mg/m ³	8.36	1.08×10 ⁻²	Date of promulgati on	
231	N-Isopropylanilin e [C ₆ H ₅ NHCH(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	0.22 mg/m ³	9.35×10 ⁻²	1.21×10 ⁻⁴	Date of promulgati on	
232	Isopropyl Ether [(CH ₃) ₂ CHOCH(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	21 mg/m ³	8.84	1.14×10 ⁻²	Date of promulgati on	

233	Isopropyl Glycidyl Ether (IGE) [CH(CH ₃) ₂ OCH ₂ CHCH ₂ O]	Measured in accordance with methods listed in Article 7	4.8 mg/m ³	2.02	2.62×10 ⁻³	Date of promulgation	
234	Ketene (CH ₂ =C=O)	Measured in accordance with methods listed in Article 7	0.017 mg/m ³	7.31×10 ⁻³	9.46×10 ⁻⁶	Date of promulgation	
235	Lead Arsenate [Pb ₃ (AsO ₄) ₂]	Measured in accordance with methods listed in Article 7	3.0×10 ⁻³ mg/m ³	1.28×10 ⁻³	1.65×10 ⁻⁶	Date of promulgation	
236	Lead Chromate (as Cr) (PbCrO ₄)	Measured in accordance with methods listed in Article 7	1.0×10 ⁻³ mg/m ³	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation	
237	Linen	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
238	Liquified Petroleum Gas (L.P.G.) (C _n H _{2n+2} (n=2~4))	Measured in accordance with methods listed in Article 7	36 mg/m ³	15.3	1.98×10 ⁻²	Date of promulgation	
239	Lithium Hydride (LiH)	Measured in accordance with methods listed in Article 7	5.0×10 ⁻⁴ mg/m ³	2.13×10 ⁻⁴	2.75×10 ⁻⁷	Date of promulgation	
240	Magnesium Oxide (fume) (MgO)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
241	Malathion (C ₁₀ H ₁₉ O ₆ PS ₂)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	

242	Maleic Anhydride [(CHCO) ₂ O]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
243	Manganese (fume) (as Mn) (Mn)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
244	Manganese and its inorganic compounds (as Mn) (Mn)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
245	Manganese Cyclopentadienyl Tricarbonyl (as Mn) [C ₅ H ₄ Mn(CO) ₃]	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
246	Mesityl Oxide [(CH ₃) ₂ C=CHCOCH ₃]	Measured in accordance with methods listed in Article 7	1.2 mg/m ³	5.10×10 ⁻¹	6.60×10 ⁻⁴	Date of promulgation	
247	Methacrylic Acid [CH ₂ =C(CH ₃)COOH]	Measured in accordance with methods listed in Article 7	1.4 mg/m ³	5.95×10 ⁻¹	7.70×10 ⁻⁴	Date of promulgation	
248	4-Methoxyphenol (CH ₃ OC ₆ H ₄ OH)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
249	Methyl Acetate (CH ₃ COOCH ₃)	Measured in accordance with methods listed in Article 7	12 mg/m ³	5.15	6.67×10 ⁻³	Date of promulgation	
250	Methyl Acetylene (CH ₃ C≡CH)	Measured in accordance with methods listed in Article 7	33 mg/m ³	13.9	1.80×10 ⁻²	Date of promulgation	

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251	Methyl Acrylate (CH ₂ =CHCOOC H ₃)	Measured in accordance with methods listed in Article 7	0.70 mg/m ³	2.98×10 ⁻¹	3.85×10 ⁻⁴	Date of promulgation	
252	Methylacrylonitrile [CH ₂ =C(CH ₃)CN]	Measured in accordance with methods listed in Article 7	0.054 mg/m ³	2.30×10 ⁻²	2.97×10 ⁻⁵	Date of promulgation	
253	Methylal (CH ₃ OCH ₂ OCH ₃)	Measured in accordance with methods listed in Article 7	62 mg/m ³	26.4	3.42×10 ⁻²	Date of promulgation	
254	Methyl Alcohol (CH ₃ OH)	Measured in accordance with methods listed in Article 7	5.2 mg/m ³	2.23	2.88×10 ⁻³	Date of promulgation	
255	Methyl n-Amyl Ketone [CH ₃ (CH ₂) ₄ COC H ₃]	Measured in accordance with methods listed in Article 7	4.7 mg/m ³	1.98	2.56×10 ⁻³	Date of promulgation	
256	N-Methylaniline (C ₆ H ₅ NHCH ₃)	Measured in accordance with methods listed in Article 7	0.044 mg/m ³	1.87×10 ⁻²	2.42×10 ⁻⁵	Date of promulgation	
257	Methyl n-Butyl Ketone (CH ₃ COC ₄ H ₉)	Measured in accordance with methods listed in Article 7	0.40 mg/m ³	1.70×10 ⁻¹	2.20×10 ⁻⁴	Date of promulgation	
258	Methyl Chloride (CH ₃ Cl)	Measured in accordance with methods listed in Article 7	2.1 mg/m ³	8.76×10 ⁻¹	1.13×10 ⁻³	Date of promulgation	
259	Methyl 2-Cyanoacrylate	Measured in accordance with methods listed in Article 7	0.18 mg/m ³	7.74×10 ⁻²	1.00×10 ⁻⁴	Date of promulgation	

	[CH ₂ =C(CN)COO CH ₃]	7					
260	Methylcyclohexane (CH ₃ C ₆ H ₁₁)	Measured in accordance with methods listed in Article 7	32 mg/m ³	13.7	1.77×10 ⁻²	Date of promulgation	
261	Methylcyclohexanol (CH ₃ C ₆ H ₁₀ OH)	Measured in accordance with methods listed in Article 7	4.7 mg/m ³	1.99	2.57×10 ⁻³	Date of promulgation	
262	Methylcyclohexanone (CH ₃ C ₅ H ₉ CO)	Measured in accordance with methods listed in Article 7	4.6 mg/m ³	1.95	2.52×10 ⁻³	Date of promulgation	
263	Methylcyclopentadienyl Manganese Tricarbonyl (as Mn) [CH ₃ C ₅ H ₄ Mn(CO) ₃]	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
264	3,3'-Dichloro-4,4'-diaminodiphenylmethane (MOCA) (C ₁₃ H ₁₂ Cl ₂ N ₂)	Measured in accordance with methods listed in Article 7	4.4×10 ⁻³ mg/m ³	1.85×10 ⁻³	2.40×10 ⁻⁶	Date of promulgation	
265	4,4-Methylene Diphenyl Diisocyanate (MDI) (OCNC ₆ H ₄ CH ₂ C ₆ H ₄ NCO)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
266	Methyl Ethyl Ketone	Measured in accordance with methods listed in Article 7	12 mg/m ³	5.02	6.49×10 ⁻³	Date of promulgation	

	tone (CH ₃ COC ₂ H ₅)	h methods listed in Article 7				on	
267	Methyl Ethyl Ketone Peroxide (MEKPO) (C ₈ H ₁₆ O ₄)	Measured in accordance with methods listed in Article 7	0.030 mg/m ³	1.28×10 ⁻²	1.65×10 ⁻⁵	Date of promulgation	
268	Methyl Formate (HCOOCH ₃)	Measured in accordance with methods listed in Article 7	4.9 mg/m ³	2.09	2.71×10 ⁻³	Date of promulgation	
269	Methylhydrazine (CH ₃ NHNH ₂)	Measured in accordance with methods listed in Article 7	7.6×10 ⁻³ mg/m ³	3.23×10 ⁻³	4.18×10 ⁻⁶	Date of promulgation	
270	Methyl Iodide (CH ₃ I)	Measured in accordance with methods listed in Article 7	0.24 mg/m ³	1.02×10 ⁻¹	1.32×10 ⁻⁴	Date of promulgation	
271	Methyl Isoamyl Ketone [CH ₃ COC ₂ H ₄ CH(CH ₃) ₂]	Measured in accordance with methods listed in Article 7	4.7 mg/m ³	1.99	2.57×10 ⁻³	Date of promulgation	
272	Methyl Isobutyl Carbinol [(CH ₃) ₂ CHCH ₂ CH(CH ₃)OH]	Measured in accordance with methods listed in Article 7	2.1 mg/m ³	8.84×10 ⁻¹	1.14×10 ⁻³	Date of promulgation	
273	Methyl Isobutyl Ketone [CH ₃ COCH(CH ₃) ₂]	Measured in accordance with methods listed in Article 7	4.1 mg/m ³	1.74	2.26×10 ⁻³	Date of promulgation	
274	Methyl Isocyanat	Measured in accordance with	1.0×10 ⁻³ mg/	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation	

	e (CH ₃ NCO)	h methods listed in Article 7	m ³			on	
275	Methyl Isopropyl Ketone [CH ₃ COCH(CH ₃) ₂]	Measured in accordance with h methods listed in Article 7	14 mg/m ³	5.99	7.76×10 ⁻³	Date of promulgati on	
276	Methyl Methacry late (C ₃ H ₅ COOCH ₃)	Measured in accordance with h methods listed in Article 7	8.2 mg/m ³	3.49	4.51×10 ⁻³	Date of promulgati on	
277	Methyl Propyl K etone [CH ₃ (CH ₂) ₂ COC H ₃]	Measured in accordance with h methods listed in Article 7	14 mg/m ³	5.99	7.76×10 ⁻³	Date of promulgati on	
278	Methyl Tert-butyl Ether [(CH ₃) ₃ COCH ₃]	Measured in accordance with h methods listed in Article 7	2.9 mg/m ³	1.22	1.58×10 ⁻³	Date of promulgati on	
279	α-Methylstyrene [C ₆ H ₅ C(CH ₃)=CH 2]	Measured in accordance with h methods listed in Article 7	4.8 mg/m ³	2.06	2.66×10 ⁻³	Date of promulgati on	
280	Mica	Measured in accordance with h methods listed in Article 7	0.060 mg/m ³	2.55×10 ⁻²	3.30×10 ⁻⁵	Date of promulgati on	
281	Molybdenum, sol uble compounds (as Mo) (Mo)	Measured in accordance with h methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgati on	
282	Morpholine (C ₄ H ₈ ONH)	Measured in accordance with h methods listed in Article	1.4 mg/m ³	6.04×10 ⁻¹	7.81×10 ⁻⁴	Date of promulgati on	

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283	Naphtha (Coal tar) (C ₇ H ₈ ~C ₈ H ₁₀)	Measured in accordance with methods listed in Article 7	8.0 mg/m ³	3.40	4.40×10 ⁻³	Date of promulgation	
284	Naphthalene (C ₁₀ H ₈)	Measured in accordance with methods listed in Article 7	1.0 mg/m ³	4.42×10 ⁻¹	5.72×10 ⁻⁴	Date of promulgation	
285	Nickel, soluble compounds (as Ni) (Ni)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
286	Nickel carbonyl [Ni(CO) ₄]	Measured in accordance with methods listed in Article 7	1.4×10 ⁻⁴ mg/m ³	5.95×10 ⁻⁵	7.70×10 ⁻⁸	Date of promulgation	
287	Nicotine (C ₅ H ₄ NC ₄ H ₇ NCH ₃)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
288	Nitric Acid (HNO ₃)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.42×10 ⁻²	5.72×10 ⁻⁵	Date of promulgation	
289	Nitric Oxide (NO)	Measured in accordance with methods listed in Article 7	0.62 mg/m ³	2.64×10 ⁻¹	3.41×10 ⁻⁴	Date of promulgation	
290	p-Nitroaniline (NO ₂ C ₆ H ₄ NH ₂)	Measured in accordance with methods listed in Article 7	0.060 mg/m ³	2.55×10 ⁻²	3.30×10 ⁻⁵	Date of promulgation	
291	Nitrobenzene (C ₆ H ₅ NO ₂)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	

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292	p-Nitrochlorobenzene [C ₆ H ₄ Cl(NO ₂)]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
293	Nitroethane (CH ₃ CH ₂ NO ₂)	Measured in accordance with methods listed in Article 7	6.1 mg/m ³	2.61	3.38×10 ⁻³	Date of promulgation	
294	Nitrogen Dioxide (NO ₂ 及 N ₂ O ₄)	Measured in accordance with methods listed in Article 7	0.18 mg/m ³	7.65×10 ⁻²	9.90×10 ⁻⁵	Date of promulgation	
295	Nitrogen Trifluoride (NF ₃)	Measured in accordance with methods listed in Article 7	0.58 mg/m ³	2.47×10 ⁻¹	3.19×10 ⁻⁴	Date of promulgation	
296	Nitroglycerin [C ₃ H ₅ (ONO ₂) ₃]	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
297	Nitroglycol [(CH ₂ ONO ₂) ₂]	Measured in accordance with methods listed in Article 7	2.4×10 ⁻³ mg/m ³	1.02×10 ⁻³	1.32×10 ⁻⁶	Date of promulgation	
298	Nitromethane (CH ₃ NO ₂)	Measured in accordance with methods listed in Article 7	5.0 mg/m ³	2.13	2.75×10 ⁻³	Date of promulgation	
299	1-Nitropropane (CH ₃ CH ₂ CH ₂ NO ₂)	Measured in accordance with methods listed in Article 7	1.8 mg/m ³	7.74×10 ⁻¹	1.00×10 ⁻³	Date of promulgation	
300	2-Nitropropane (CH ₃ CHNO ₂ CH ₃)	Measured in accordance with methods listed in Article 7	0.72 mg/m ³	3.06×10 ⁻¹	3.96×10 ⁻⁴	Date of promulgation	

301	Nitrotoluene (NO ₂ C ₆ H ₄ CH ₃)	Measured in accordance with methods listed in Article 7	0.22 mg/m ³	9.35×10 ⁻²	1.21×10 ⁻⁴	Date of promulgation	
302	Nitrous Oxide (N ₂ O)	Measured in accordance with methods listed in Article 7	1.8 mg/m ³	7.65×10 ⁻¹	9.90×10 ⁻⁴	Date of promulgation	
303	n-Nonane (C ₉ H ₂₀)	Measured in accordance with methods listed in Article 7	21 mg/m ³	8.93	1.16×10 ⁻²	Date of promulgation	
304	Octachloronaphthalene (C ₁₀ Cl ₈)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
305	Octane (C ₈ H ₁₈)	Measured in accordance with methods listed in Article 7	28 mg/m ³	11.9	1.54×10 ⁻²	Date of promulgation	
306	Oil mist (Mineral)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
307	Osmium Tetroxide (as Os) (OsO ₄)	Measured in accordance with methods listed in Article 7	3.2×10 ⁻⁵ mg/m ³	1.36×10 ⁻⁵	1.76×10 ⁻⁸	Date of promulgation	
308	Oxalic Acid [(COOH) ₂ ·2H ₂ O]	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
309	Oxygen Difluoride (OF ₂)	Measured in accordance with methods listed in Article 7	2.2×10 ⁻³ mg/m ³	9.35×10 ⁻⁴	1.21×10 ⁻⁶	Date of promulgation	
310	Ozone	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	

	(O ₃)	h methods listed in Article 7	m ³			on	
311	Paraffin (fume)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
312	Pentaborane (B ₅ H ₉)	Measured in accordance with methods listed in Article 7	2.6×10 ⁻⁴ mg/m ³	1.11×10 ⁻⁴	1.43×10 ⁻⁷	Date of promulgation	
313	Pentachloronaphthalene (C ₁₀ H ₃ Cl ₅)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
314	Pentane [CH ₃ (CH ₂) ₃ CH ₃]	Measured in accordance with methods listed in Article 7	35 mg/m ³	15.0	1.95×10 ⁻²	Date of promulgation	
315	Perchloromethyl Mercaptan (ClSCCl ₃)	Measured in accordance with methods listed in Article 7	0.015 mg/m ³	6.46×10 ⁻³	8.36×10 ⁻⁶	Date of promulgation	
316	Perchloryl fluoride (ClFO ₃)	Measured in accordance with methods listed in Article 7	0.26 mg/m ³	1.11×10 ⁻¹	1.43×10 ⁻⁴	Date of promulgation	
317	Phenol (C ₆ H ₅ OH)	Measured in accordance with methods listed in Article 7	0.38 mg/m ³	1.62×10 ⁻¹	2.09×10 ⁻⁴	Date of promulgation	
318	Phenothiazine (C ₁₂ H ₉ NS)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
319	p-Phenylenediamine	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	

	[C ₆ H ₄ (NH ₂) ₂]	7					
320	Phenyl Ether (vanillin) [(C ₆ H ₅) ₂ O]	Measured in accordance with methods listed in Article 7	0.14 mg/m ³	5.95×10 ⁻²	7.70×10 ⁻⁵	Date of promulgation	
321	Phenyl Glycidyl Ether (PGE) (C ₆ H ₅ OCH ₂ CHC H ₂ O)	Measured in accordance with methods listed in Article 7	0.12 mg/m ³	5.19×10 ⁻²	6.71×10 ⁻⁵	Date of promulgation	
322	Phenylhydrazine (C ₆ H ₅ NHNH ₂)	Measured in accordance with methods listed in Article 7	0.44 mg/m ³	1.87×10 ⁻¹	2.42×10 ⁻⁴	Date of promulgation	
323	Phenyl Mercaptan (C ₆ H ₅ SH)	Measured in accordance with methods listed in Article 7	0.046 mg/m ³	1.96×10 ⁻²	2.53×10 ⁻⁵	Date of promulgation	
324	Phenylphosphine (C ₆ H ₅ PH ₂)	Measured in accordance with methods listed in Article 7	4.6×10 ⁻³ mg/m ³	1.96×10 ⁻³	2.53×10 ⁻⁶	Date of promulgation	
325	Phorate [(C ₂ H ₅ O) ₂ P(S)SC H ₂ SC ₂ H ₅]	Measured in accordance with methods listed in Article 7	1.0×10 ⁻³ mg/m ³	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation	
326	Phosgene (COCl ₂)	Measured in accordance with methods listed in Article 7	8.0×10 ⁻³ mg/m ³	3.40×10 ⁻³	4.40×10 ⁻⁶	Date of promulgation	
327	Phosphine (PH ₃)	Measured in accordance with methods listed in Article 7	8.0×10 ⁻³ mg/m ³	3.40×10 ⁻³	4.40×10 ⁻⁶	Date of promulgation	
328	Phosphoric Acid (H ₃ PO ₄)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	

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329	Phosphorus (yellow) (P)	Measured in accordance with methods listed in Article 7	$2.0 \times 10^{-3} \text{ mg/m}^3$	8.50×10^{-4}	1.10×10^{-6}	Date of promulgation	
330	Phosphorus Oxichloride (POCl ₃)	Measured in accordance with methods listed in Article 7	0.013 mg/m ³	5.36×10^{-3}	6.93×10^{-6}	Date of promulgation	
331	Phosphorus Pentachloride (PCl ₅)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10^{-3}	1.10×10^{-5}	Date of promulgation	
332	Phosphorus Pentasulfide (P ₂ S ₅)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10^{-3}	1.10×10^{-5}	Date of promulgation	
333	Phosphorus Trichloride (PCl ₃)	Measured in accordance with methods listed in Article 7	0.022 mg/m ³	9.35×10^{-3}	1.21×10^{-5}	Date of promulgation	
334	Phthalic Anhydride [C ₆ H ₄ (CO) ₂ O]	Measured in accordance with methods listed in Article 7	0.12 mg/m ³	5.19×10^{-2}	6.71×10^{-5}	Date of promulgation	
335	Phthalodinitrile [C ₆ H ₄ (CN) ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10^{-2}	5.50×10^{-5}	Date of promulgation	
336	Picric Acid [C ₆ H ₂ (OH)(NO ₂) ₃]	Measured in accordance with methods listed in Article 7	$2.0 \times 10^{-3} \text{ mg/m}^3$	8.50×10^{-4}	1.10×10^{-6}	Date of promulgation	
337	Piperazine dihydrochloride (C ₄ H ₁₀ N ₂ ·2HCl)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10^{-2}	5.50×10^{-5}	Date of promulgation	

338	Platinum metal (as Pt) (Pt)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
339	Platinum, soluble salts (as Pt) (Pt)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻⁵ mg/m ³	1.70×10 ⁻⁵	2.20×10 ⁻⁸	Date of promulgation	
340	Polychlorobiphenyls [C ₁₂ H _(10-n) Cl _n (1 ≤ n ≤ 10)]	Measured in accordance with methods listed in Article 7	2.0×10 ⁻⁴ mg/m ³	8.50×10 ⁻⁵	1.10×10 ⁻⁷	Date of promulgation	
341	Propane (CH ₃ CH ₂ CH ₃)	Measured in accordance with methods listed in Article 7	36 mg/m ³	15.3	1.98×10 ⁻²	Date of promulgation	
342	Propionic Acid (CH ₃ CH ₂ COOH)	Measured in accordance with methods listed in Article 7	0.60 mg/m ³	2.55×10 ⁻¹	3.30×10 ⁻⁴	Date of promulgation	
343	1-Propanol (CH ₃ CH ₂ CH ₂ OH)	Measured in accordance with methods listed in Article 7	9.8 mg/m ³	4.17	5.40×10 ⁻³	Date of promulgation	
344	n-Propyl Acetate (CH ₃ COOC ₃ H ₇)	Measured in accordance with methods listed in Article 7	17 mg/m ³	7.10	9.19×10 ⁻³	Date of promulgation	
345	n-Propyl Nitrate (NPN) (C ₃ H ₇ NO ₃)	Measured in accordance with methods listed in Article 7	2.1 mg/m ³	9.10×10 ⁻¹	1.18×10 ⁻³	Date of promulgation	
346	Propylene Glycol Dinitrate (NO ₃ CH ₂ CHNO ₃)	Measured in accordance with methods listed in Article 7	6.8×10 ⁻³ mg/m ³	2.89×10 ⁻³	3.74×10 ⁻⁶	Date of promulgation	

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347	Propylene Glycol Monomethyl Ether (CH ₃ OCH ₂ CHOHCH ₃)	Measured in accordance with methods listed in Article 7	7.4 mg/m ³	3.14	4.06×10 ⁻³	Date of promulgation	
348	Propyleneimine (CH ₃ H ₂ CNHCH ₂)	Measured in accordance with methods listed in Article 7	0.094 mg/m ³	4.00×10 ⁻²	5.17×10 ⁻⁵	Date of promulgation	
349	Pyethrum	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
350	Pyridine (C ₅ H ₅ N)	Measured in accordance with methods listed in Article 7	0.32 mg/m ³	1.36×10 ⁻¹	1.76×10 ⁻⁴	Date of promulgation	
351	Quinone (C ₆ H ₄ O ₂)	Measured in accordance with methods listed in Article 7	8.8×10 ⁻³ mg/m ³	3.74×10 ⁻³	4.84×10 ⁻⁶	Date of promulgation	
352	Resorcinol [C ₆ H ₄ (OH) ₂]	Measured in accordance with methods listed in Article 7	0.90 mg/m ³	3.83×10 ⁻¹	4.95×10 ⁻⁴	Date of promulgation	
353	Rhodium, metal fume and insoluble compounds (as Rh) (Rh)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
354	Rhodium, soluble compounds (as	Measured in accordance with methods listed in Article 7	2.0×10 ⁻⁴ mg/m ³	8.50×10 ⁻⁵	1.10×10 ⁻⁷	Date of promulgation	

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355	Rotenone (C ₂₃ H ₂₂ O ₆)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
356	Selenium compounds (as Se) (Se)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
357	Selenium Hexafluoride (SeF ₆)	Measured in accordance with methods listed in Article 7	3.2×10 ⁻³ mg/m ³	1.36×10 ⁻³	1.76×10 ⁻⁶	Date of promulgation	
358	Silicon Hydride (SiH ₄)	Measured in accordance with methods listed in Article 7	0.13 mg/m ³	5.61×10 ⁻²	7.26×10 ⁻⁵	Date of promulgation	
359	Silver, metal dust, fume and soluble compounds (as Ag) (Ag)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻⁴ mg/m ³	8.50×10 ⁻⁵	1.10×10 ⁻⁷	Date of promulgation	
360	Sodium Azide (NaN ₃)	Measured in accordance with methods listed in Article 7	5.8×10 ⁻³ mg/m ³	2.47×10 ⁻³	3.19×10 ⁻⁶	Date of promulgation	
361	Sodium Bisulfite (NaHSO ₃)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
362	Sodium Fluoroacetate (FCH ₂ COONa)	Measured in accordance with methods listed in Article 7	1.0×10 ⁻³ mg/m ³	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation	

363	Sodium Hydroxide (NaOH)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
364	Stibine (Antimony Hydride) (SbH ₃)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.34×10 ⁻³	5.61×10 ⁻⁶	Date of promulgation	
365	Stoddard solvents	Measured in accordance with methods listed in Article 7	11 mg/m ³	4.46	5.78×10 ⁻³	Date of promulgation	
366	Sulfur Dioxide (SO ₂)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.42×10 ⁻²	5.72×10 ⁻⁵	Date of promulgation	
367	Sulfur Hexafluoride (SF ₆)	Measured in accordance with methods listed in Article 7	119 mg/m ³	50.7	6.57×10 ⁻²	Date of promulgation	
368	Sulfur Monochloride (S ₂ Cl ₂)	Measured in accordance with methods listed in Article 7	0.11 mg/m ³	4.68×10 ⁻²	6.05×10 ⁻⁵	Date of promulgation	
369	Sulfuric Acid (H ₂ SO ₄)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
370	Sulfur Pentafluoride (S ₂ F ₁₀)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
371	Sulfur Tetrafluoride (SF ₄)	Measured in accordance with methods listed in Article 7	8.8×10 ⁻³ mg/m ³	3.74×10 ⁻³	4.84×10 ⁻⁶	Date of promulgation	
372	Sulfuryl Fluoride	Measured in accordance with methods listed in Article 7	0.42 mg/m ³	1.79×10 ⁻¹	2.31×10 ⁻⁴	Date of promulgation	

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373	Talc (containing no asbestos fiber s) [Mg ₃ [Si ₄ O ₁₀](OH) ₂]	Measured in accordance with h methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgati on	
374	Tantalum, metal and oxide dust (Ta)	Measured in accordance with h methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgati on	
375	Tellurium and its compounds (as Te) (Te)	Measured in accordance with h methods listed in Article 7	2.0×10 ⁻³ mg/ m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgati on	
376	Tetraethyl Pyroph osphate (TEPP) [(C ₂ H ₅ O) ₄ P ₂ O ₃]	Measured in accordance with h methods listed in Article 7	9.4×10 ⁻⁴ mg/ m ³	4.00×10 ⁻⁴	5.17×10 ⁻⁷	Date of promulgati on	
377	Terphenyls [(C ₆ H ₅) ₂ C ₆ H ₄]	Measured in accordance with h methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgati on	
378	1,1,1,2-Tetrachlor o-2,2-difluoroetha ne (CCl ₃ CClF ₂)	Measured in accordance with h methods listed in Article 7	83 mg/m ³	35.4	4.59×10 ⁻²	Date of promulgati on	
379	1,1,2,2-Tetrachlor o-1,2-difluoroetha ne (CCl ₂ FCCl ₂ F)	Measured in accordance with h methods listed in Article 7	83 mg/m ³	35.4	4.59×10 ⁻²	Date of promulgati on	

380	1,1,2,2-Tetrachloroethane (CHCl ₂ CHCl ₂)	Measured in accordance with methods listed in Article 7	0.14 mg/m ³	5.87×10 ⁻²	7.59×10 ⁻⁵	Date of promulgation	
381	Tetrachloroethylene (C ₁₀ H ₄ Cl ₄)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
382	Tetraethyl Lead [Pb(C ₂ H ₅) ₄]	Measured in accordance with methods listed in Article 7	1.5×10 ⁻³ mg/m ³	6.38×10 ⁻⁴	8.25×10 ⁻⁷	Date of promulgation	
383	Tetramethyl Lead (as Pb) [Pb(CH ₃) ₄]	Measured in accordance with methods listed in Article 7	1.5×10 ⁻³ mg/m ³	6.38×10 ⁻⁴	8.25×10 ⁻⁷	Date of promulgation	
384	Tetrahydrofuran [(CH ₂) ₄ O]	Measured in accordance with methods listed in Article 7	12 mg/m ³	5.02	6.49×10 ⁻³	Date of promulgation	
385	Tetramethyl Succinonitrile [NCC(CH ₃) ₂ C(CH ₃) ₂ CN]	Measured in accordance with methods listed in Article 7	0.056 mg/m ³	2.38×10 ⁻²	3.08×10 ⁻⁵	Date of promulgation	
386	Tetranitromethane [C(NO ₂) ₄]	Measured in accordance with methods listed in Article 7	0.16 mg/m ³	6.80×10 ⁻²	8.80×10 ⁻⁵	Date of promulgation	
387	Tetrasodium Pyrophosphate (Na ₄ P ₂ O ₇)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
388	Thioglycolic Acid (HSCH ₂ COOH)	Measured in accordance with methods listed in Article 7	0.076 mg/m ³	3.23×10 ⁻²	4.18×10 ⁻⁵	Date of promulgation	

389	Thionyl Chloride (SOCl ₂)	Measured in accordance with methods listed in Article 7	0.098 mg/m ³	4.17×10 ⁻²	5.39×10 ⁻⁵	Date of promulgation	
390	Thiram [[CH ₃) ₂ NCS] ₂ S ₂]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
391	Tin and its inorganic tin compounds (as Sn) (Sn)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
392	Tin organic compounds (as Sn) (Sn)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
393	Tin Oxide (as Sn) (Sn)	Measured in accordance with methods listed in Article 7	0.040 mg/m ³	1.70×10 ⁻²	2.20×10 ⁻⁵	Date of promulgation	
394	Titanium Dioxide (TiO ₂)	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
395	o-Toluidine (CH ₃ C ₆ H ₄ NH ₂)	Measured in accordance with methods listed in Article 7	0.44 mg/m ³	1.87×10 ⁻¹	2.42×10 ⁻⁴	Date of promulgation	
396	m-Toluidine (CH ₃ C ₆ H ₄ NH ₂)	Measured in accordance with methods listed in Article 7	0.18 mg/m ³	7.48×10 ⁻²	9.68×10 ⁻⁵	Date of promulgation	
397	p-Toluidine (CH ₃ C ₆ H ₄ NH ₂)	Measured in accordance with methods listed in Article 7	0.18 mg/m ³	7.48×10 ⁻²	9.68×10 ⁻⁵	Date of promulgation	

398	Toluene-2,4-diisocyanate or Toluene-2,6-diisocyanate (TDI) [CH ₃ C ₆ H ₃ (NCO) ₂]	Measured in accordance with methods listed in Article 7	7.2×10 ⁻⁴ mg/m ³	3.06×10 ⁻⁴	3.96×10 ⁻⁷	Date of promulgation	
399	Tributyl Phosphate (TBP) [(C ₄ H ₉) ₃ PO ₄]	Measured in accordance with methods listed in Article 7	0.044 mg/m ³	1.87×10 ⁻²	2.42×10 ⁻⁵	Date of promulgation	
400	Trichloroacetic Acid (TCA) (CCl ₃ COOH)	Measured in accordance with methods listed in Article 7	0.13 mg/m ³	5.70×10 ⁻²	7.37×10 ⁻⁵	Date of promulgation	
401	1,2,4-Trichlorobenzene (C ₆ H ₃ Cl ₃)	Measured in accordance with methods listed in Article 7	0.74 mg/m ³	3.15×10 ⁻¹	4.07×10 ⁻⁴	Date of promulgation	
402	1,1,1-Trichloroethane (Methylchloroform) (CH ₃ CCl ₃)	Measured in accordance with methods listed in Article 7	38 mg/m ³	16.2	2.10×10 ⁻²	Date of promulgation	
403	1,1,2-Trichloroethane (Cl ₂ CHCH ₂ Cl)	Measured in accordance with methods listed in Article 7	1.1 mg/m ³	4.68×10 ⁻¹	6.05×10 ⁻⁴	Date of promulgation	
404	Trichloronaphthalene (C ₁₀ H ₅ Cl ₃)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
405	1,2,3-Trichloropropane (ClCH ₂ CHClCH ₂)	Measured in accordance with methods listed in Article 7	6.0 mg/m ³	2.57	3.32×10 ⁻³	Date of promulgation	

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406	1,1,2-Trichloro-1,2,2-trifluoroethane (CCl ₂ FCClF ₂)	Measured in accordance with methods listed in Article 7	153 mg/m ³	65.2	8.44×10 ⁻²	Date of promulgation	
407	Triethylamine [(C ₂ H ₅) ₃ N]	Measured in accordance with methods listed in Article 7	0.82 mg/m ³	3.49×10 ⁻¹	4.51×10 ⁻⁴	Date of promulgation	
408	Trifluorobromomethane (CBrF ₃)	Measured in accordance with methods listed in Article 7	122 mg/m ³	51.8	6.70×10 ⁻²	Date of promulgation	
409	Trimellitic Anhydride (C ₉ H ₄ O ₅)	Measured in accordance with methods listed in Article 7	8.0×10 ⁻⁴ mg/m ³	3.40×10 ⁻⁴	4.40×10 ⁻⁷	Date of promulgation	
410	Trimethylbenzene [(CH ₃) ₃ C ₆ H ₃]	Measured in accordance with methods listed in Article 7	2.5 mg/m ³	1.05	1.35×10 ⁻³	Date of promulgation	
411	Trimethyl Phosphite [(CH ₃ O) ₃ P]	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
412	2,4,6-Trinitrotoluene (TNT) [CH ₃ C ₆ H ₂ (NO ₂) ₃]	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	
413	Triorthocresyl Phosphate (TOCP) (C ₂₁ H ₂₁ O ₄ P)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
414	Triphenylamine [(C ₆ H ₅) ₃ N]	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	

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415	Triphenyl Phosphate [(C ₆ H ₅) ₃ PO ₄]	Measured in accordance with methods listed in Article 7	0.060 mg/m ³	2.55×10 ⁻²	3.30×10 ⁻⁵	Date of promulgation	
416	Tungsten, insoluble compounds (as W) (W)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
417	Tungsten, soluble compounds (as W) (W)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	
418	Turpentine (C ₁₀ H ₁₆)	Measured in accordance with methods listed in Article 7	11 mg/m ³	4.73	6.12×10 ⁻³	Date of promulgation	
419	Uranium, soluble compounds (as U) (U)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
420	Uranium, insoluble compounds (as U) (U)	Measured in accordance with methods listed in Article 7	4.0×10 ⁻³ mg/m ³	1.70×10 ⁻³	2.20×10 ⁻⁶	Date of promulgation	
421	n-Valeraldehyde [CH ₃ (CH ₂) ₃ CHO]	Measured in accordance with methods listed in Article 7	3.5 mg/m ³	1.50	1.94×10 ⁻³	Date of promulgation	
422	Vanadium Pentoxide (dust)	Measured in accordance with methods listed in Article 7	0.010 mg/m ³	4.25×10 ⁻³	5.50×10 ⁻⁶	Date of promulgation	

	(V ₂ O ₅)	7					
423	Vanadium Pentoxide (fume) (V ₂ O ₅)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
424	Vinyl Acetate (CH ₃ COOCH=C H ₂)	Measured in accordance with methods listed in Article 7	0.70 mg/m ³	2.98×10 ⁻¹	3.85×10 ⁻⁴	Date of promulgation	
425	Vinyl Bromide (CH ₂ =CHBr)	Measured in accordance with methods listed in Article 7	0.44 mg/m ³	1.87×10 ⁻¹	2.42×10 ⁻⁴	Date of promulgation	
426	Vinylcyclohexene Dioxide (CH ₂ CHOC ₆ H ₉ O)	Measured in accordance with methods listed in Article 7	1.1 mg/m ³	4.85×10 ⁻¹	6.27×10 ⁻⁴	Date of promulgation	
427	Vinyltoluene (CH ₂ =CHC ₆ H ₄ CH ₃)	Measured in accordance with methods listed in Article 7	9.6 mg/m ³	4.10	5.30×10 ⁻³	Date of promulgation	
428	Warfarin (C ₁₉ H ₁₆ O ₄)	Measured in accordance with methods listed in Article 7	2.0×10 ⁻³ mg/m ³	8.50×10 ⁻⁴	1.10×10 ⁻⁶	Date of promulgation	
429	Wood dust	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation	
430	Xylidine [(CH ₃) ₂ C ₆ H ₃ NH ₂]	Measured in accordance with methods listed in Article 7	0.20 mg/m ³	8.50×10 ⁻²	1.10×10 ⁻⁴	Date of promulgation	
431	Yttrium, metal and its compounds (as Y)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation	

	(Y)																					
432	Zinc Chloride (fume) (ZnCl ₂)	Measured in accordance with methods listed in Article 7	0.020 mg/m ³	8.50×10 ⁻³	1.10×10 ⁻⁵	Date of promulgation																
433	Zinc Chromate (as CrO ₃) (ZnCrO ₄)	Measured in accordance with methods listed in Article 7	1.0×10 ⁻³ mg/m ³	4.25×10 ⁻⁴	5.50×10 ⁻⁷	Date of promulgation																
434	Zinc Oxide (fume) (ZnO)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation																
435	Zirconium compounds (as Zr) (Zr)	Measured in accordance with methods listed in Article 7	0.10 mg/m ³	4.25×10 ⁻²	5.50×10 ⁻⁵	Date of promulgation																
436	Malodorous pollutants	<table border="1"> <tr> <td>Height (h) (meters)</td> <td>Standard value</td> <td rowspan="4">Areas Industrial Parks and Agricultural Districts</td> <td rowspan="4">Standard value</td> </tr> <tr> <td>h ≤ 18</td> <td>1,000</td> </tr> <tr> <td>18 < h ≤ 50</td> <td>2,000</td> </tr> <tr> <td>50 < h ≤ 100</td> <td>4,000</td> </tr> <tr> <td>h > 100</td> <td>The stacks concentration that was estimated by the air quality mode</td> <td></td> <td></td> </tr> </table>	Height (h) (meters)	Standard value	Areas Industrial Parks and Agricultural Districts	Standard value	h ≤ 18	1,000	18 < h ≤ 50	2,000	50 < h ≤ 100	4,000	h > 100	The stacks concentration that was estimated by the air quality mode			—	—	Emission s pipe and peripheral emissions standards shall take effect on the date of promulgation.	I. Emission s pipe emissions standards shall take effect one year after the date of promulgation.	I. The concentrations of malodorous pollutants are dimensionless mathematical operation values, so there are no units of measure.	II. Definition of
Height (h) (meters)	Standard value	Areas Industrial Parks and Agricultural Districts	Standard value																			
h ≤ 18	1,000																					
18 < h ≤ 50	2,000																					
50 < h ≤ 100	4,000																					
h > 100	The stacks concentration that was estimated by the air quality mode																					

			l in compliance with the peripheral boundary standards for the area influenced, and the concentration value can be used as the standard value after approval by the central competent authority.	Areas other than Industrial Parks and Agricultural Districts	Standard 3: 10			the date of promulgation.	al boundary standards 1 and 3 shall take effect on the date of promulgation.	an industrial park: Land for industrial use of an area, part of an industrial zone or urban planning industrial park. III. Definition of an agricultural district: (I) Urban planning agricultural districts, or zone delineations according to law, which have been determined by the urban planning competent authority to be part of an agricultural business zone. . (II) According to the Regional Planning Act
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										<p>t, special agricultural districts, common agricultural districts, forest areas and other areas in which land is designated for farming and grazing, aquaculture, forestry, and land for use for other special industrial purposes including agriculture and livestock, and wastewater treatment facilities.</p> <p>(III) Other land as determined by the central competent authority in consultation with the central agricultural industry competent authority.</p>
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										<p>rity.</p> <p>IV. Peripheral boundary emission standards 2 are applicable to new pollution sources located in industrial parks or agricultural districts. However, pollution sources located in existing livestock farms in agricultural districts that have been upgraded but that are operating on an unchanged scale shall be subject to emission standards for existing pollution sources.</p> <p>V. Standards appl</p>
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										<p>ied to all sam pling locations shall serve a s supporting d ata.</p> <p>VI. New pollution sources subje ct to malodor ous pollutant emission stand ards shall refe r to pollution sources estab lished after S eptember 13, 2007 (inclusiv e); existing p ollution sourc es refer to po llution sources established b efore Septemb er 13, 2007.</p>
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